

Final Program



The Art and Science of Impact Assessment

28th Annual Conference

International Association for Impact Assessment

4-10 May 2008

**Perth Convention Exhibition Centre
Perth, Western Australia**

IAIA08
PERTH AUSTRALIA

Table of Contents

IAIA08 At-A-Glance

Table of contents

Special Networking Activities and Events	3
Welcome to IAIA08	4
Conference Theme	4
Daily Schedule	6
Program Overview	8
Keynote Speakers	10
Guide to Sessions by Topic Stream	11
Technical Program Overview	12
Theme Forums	14
Special Sessions	20
Concurrent Sessions	22
Posters	48
Technical Visits	50
Sections	52
IAIA Business (AGM, Council, Section Meetings)	53
Tips and Information	54
General Information	55
Exhibitors	56
Map of Perth/Hotels	58
Hosts and Committees	59

Saturday, 3 May

Registration	Afternoon
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Sunday, 4 May

Training Courses, Technical Visits	All Day
Oil for Development Program (Open Session)	All Day

Monday, 5 May

Training Courses, Technical Visits	All Day
Opening Reception	Evening

Tuesday, 6 May

Committee Meetings	Morning/Afternoon
Plenary, Theme Forums, Concurrent Sessions, Special Sessions	All Day
Speed Networking, Book Launch	Afternoon
Social Event: Dine Out Perth	Evening

Wednesday, 7 May

Theme Forums, Council Meeting, Concurrent Sessions, Special Sessions	All Day
Committee Meetings	Afternoon
Social Events: Table Football World Cup	Evening

Thursday, 8 May

Section Meetings	Afternoon
Theme Forums, AGM, Concurrent Sessions, Special Sessions	All Day
Banquet	Evening

Friday, 9 May

Concurrent Sessions, Closing Plenary	Morning
Technical Visits	Afternoon

Conference venue

Perth Convention Exhibition Centre
21 Mounts Bay Road
Perth, Western Australia 6000
Phone +61 8 9338 03005
Fax +61 8 9338 0309
info@pcec.com.au
www.pcec.com.au

Special Networking Activities and Events

■ Opening Reception

GHD welcomes our international, national and local guests to Perth, Western Australia, for IAIA08. This year's conference promises to deliver a week of world-class presentations in a technical program addressing significant social and environmental issues across the sustainability spectrum. Come join GHD's Corporate Sustainability Manager, Bill Grace, at the IAIA08 opening reception.

Cocktail food and drinks served in the PCEC foyer.

Monday, 5 May • 18:00-19:30
Pre-registration required.

■ Carbon Offsets Program with a Difference

Worried about the carbon emissions you will be generating by flying to Australia, staying in a hotel and participating in a conference?

IAIA08 offers you the chance not only to help to offset your emissions, and even those of some of your IAIA colleagues, but also to actively contribute to the rehabilitation of a Western Australian National Park and meet new people from around the world, all at the same time!

A little north of Perth is the Yanchep National Park with its significant natural and cultural values. It contains some plant species at or close to the northern limit of their range, endangered root mat communities in drying subterranean caves, and important Aboriginal sites. The park has recently suffered significant fire damage and is also subject to weed incursions.

The agency responsible for the management of the area, the Department of Environment and Conservation, is also one of the host organizations for IAIA08 and has agreed to provide access to the park for some restoration. These plantings will be supplemented by other plantings by Carbon Neutral on our behalf to ensure that delegates who have indicated a desire to be carbon neutral for IAIA08 can be assured that the plantings will be sufficient.

But even more importantly, conference delegates have the opportunity to personally participate in the planting of native species grown from locally sourced seed in the Yanchep National Park. This is not only a practical and meaningful way to contribute to the carbon offset program for IAIA08, but a wonderful opportunity to experience the Australian bush and learn about our natural and cultural heritage.

Delegates travel by bus to Yanchep from the conference venue and return late morning.

Busses will leave at 08:00 and return at 13:00. Wear comfortable clothing and shoes, and bring a hat, water and sunscreen.

Monday, 5 May
Departure at 08:00
Meet in PCEC Lobby

■ Speed Networking

There are 700+ people at IAIA08. How many will you meet?

If you've ever tried speed dating, then you already know the concept—we've just changed the focus!

How it works: You will be seated in rows so that you are facing another person, and every three minutes one row will be asked to move up one seat so they are facing someone different. You will spend the three minutes conversing with your partner about yourself, your work, your interests, why you are attending IAIA08, anything you like.

Over a period of an hour, you will meet 15 new people, people that you may not otherwise get to meet in the normal course of a diverse international conference. The aim is to make new connections, both professional and social, connections that you can build upon throughout the conference and beyond.

So come along on Tuesday after the formal program concludes for the day and join in the fun.

Organized by Coakes Consulting - Social Impact and Community Consultants.

Tuesday, 6 May • 17:30-19:00
Meeting Room 5

■ Dine-Out Perth

The tradition of dine-outs is back for IAIA08! The Environmental Consultants Association (WA), one of the host organizations for the conference, invites you to share an evening out sampling some of the wonderful fresh food for which Perth is renowned at a "pay your own way" dinner. ECA members are a highly sociable bunch, and have that all-important local knowledge about where the best food and the best dining experiences can be found in Perth. They are ready to take you beyond the confines of the conference center and the central city to find it!

To join in, just add your name to the sign-up sheets in the registration area. Dine-outs are a great opportunity to meet new people and see some different parts of the beautiful city of Perth. Don't miss out!

Tuesday 6 May • 19:00 onward
Meet in the PCEC Lobby

■ World Bank Book Launch

The World Bank invites IAIA08 delegates to attend the launch of *Strategic Environment Assessment for Policies: An Instrument for Good Governance*, edited by IAIA members Kulsum Ahmed and Ernesto Sanchez-Triana. Drawing on good practice and an analysis of how policies are formulated and implemented, this edited book proposes a new conceptual framework for conducting SEA of policies that could potentially be more useful in influencing decision-makers to integrate environmental sustainability considerations into policy formulation and implementation. Currently this framework is being piloted by the World Bank. Additional information on the book is available at www.worldbank.org/publications. Light refreshments will be served.

Tuesday 6 May • 18:00-19:00
Meeting Room 3

■ GOOOOOOAL!

The IAIA Table Football World Cup

There is no bigger prize in world sport than the inaugural IAIA08 Table Football World Cup.

Lace up the boots, don your national colors, sing your anthems, compete with your colleagues from around the globe—and enjoy a few drinks at the bar while you're at it.

What you have to do:

- Nominate a team of two to represent your country—you may need to hold play-offs among yourselves to select the best team and training is always advisable! (Tables will be available earlier in the week.)
- Place team nominations and any play-off information on the special notice board in the registration area.
- Join us on Wednesday night for drinks (cash bar) and kick-off at 19:00.

Organized by Coakes Consulting - Social Impact and Community Consultants.

Wednesday, 7 May • 19:00-20:30
PCEC Lobby

■ Banquet

Australians are well-known for being open and friendly, and loving nothing more than extending warm hospitality to good friends. In this spirit we invite you to the IAIA08 conference banquet at the wonderful Perth Convention Exhibition Centre overlooking the beautiful Swan River and the City of Perth. Enjoy a delicious dinner and then stay on to dance to the smooth sounds of local Perth band The Groovesmiths.

Thursday, 8 May • 19:30 till late
Pre-registration required.

■ Students/Mentors/Buddies

Special meetings are planned for students involved in the fee waiver and mentoring programs. The meetings represent an opportunity to meet other students, receive assignments, and be introduced to assigned mentors. Dates, times, and locations as provided to participants in pre-conference information.

■ Post-Conference Technical Tour

Pre-registered delegates will depart from Perth on Saturday, 10 May, for a once-in-a-lifetime experience touring the extraordinary Pilbara Region of Western Australia. Operated by Global Gypsies Pty. Ltd.

Meet at PCEC Lobby at 07:00 for a timely departure.

Sponsored by BHPBilliton and Woodside.



Welcome to IAIA08



Kangaroos in downtown Perth?



Didgeridoos



Fremantle

Kaya wonyaan wandjoo ngany yaarkiny nidja boodja, Mooro baalap, Whadjak Boodja baranginy djoorapin noonook moorditj baalap.

On behalf of the Mooro people of the Whadjuk Nation, **Welcome to our Country.**

Aboriginal people believe that quality Impact Assessment is critical to protecting their Boodja (Mother Earth) and the biodiversity within it.

We welcome scientists and community people from all parts of the world to develop better processes for protection of the biodiversity and the planet.

Karen Jacobs

Whadjuk Blood Line Descendent and Traditional Owner of the Perth Region

Welcome to IAIA's 28th Annual Conference in Perth, Australia. This conference is your opportunity to contribute personally to the leading global network of impact assessment professionals. Welcome back to the Southern Hemisphere—it has been ten years since IAIA has held its annual conference “down under.”

If you are already part of the IAIA community, please enjoy renewing friendships with colleagues, meeting new colleagues, and sharing your knowledge and experiences, especially with our new members and first time participants at the annual conference. If this IAIA conference is your first, do not be timid—we are an active and passionate group of professionals from government, industry, international organizations, and consulting firms and academia. We hope to learn from your knowledge and experience about the art and science of impact assessment and vice-versa.

Please take a few moments to ponder the conference theme—making the links between the “art” and the “science” in our varied areas of practice. Is our science good enough? How much information is enough? Are we proactive in the processes of impact assessment that are more “art” than “science”? What are those processes? Is impact assessment the right tool to influence decisions about policies, plans, programs and projects? If you say no, is this because our science is not convincing, because the role of impact assessment in decision-making is flawed, or because we need to focus more on the linkages between the two? Are we looking broadly enough at sustainability?

As impact assessment practitioners, we can contribute to more sustainable policies, plans, programs, and projects in our own small corners of professional practice. Let us explore at this conference how we are also dealing with global challenges that confront us—major land use change, loss of biodiversity, climate change, conflict and instability, natural and human disasters and ongoing poverty and disease that increasingly affect us wherever we are.

On behalf of the IAIA Board and our Headquarters staff, I extend our thanks for organizing this conference in booming and beautiful Perth to the Conference's Steering Committee and International Programme Coordination Committee and to our hosts: the Western Australian Department of Environment and Conservation, the Federal Department of Environment and Water Resources, Murdoch University, the Environmental Consultants Association (Western Australia) and the Environment Institute of Australia and New Zealand (EIANZ).

“No idea is so outlandish that it should not be considered with a searching but at the same time a steady eye.”
– Winston Churchill

Charlotte Bingham

President, International Association for Impact Assessment

The Art and Science of Impact Assessment

Impact assessment has developed over the past 35 years as a tool for incorporating sound scientific knowledge into decision-making. As practice has evolved and new forms such as SEA have emerged, it has become increasingly apparent that expertise in the biophysical sciences must be complemented by an understanding of social and political processes. Impact assessment is therefore best seen as both science and art, and it is only in this way that it can fulfill its potential as an effective tool for influencing decision-making processes.

The current trajectory of global development highlights the need for fundamental change in the way in which we think, act and make decisions. This conference will explore questions of the role of impact assessment in promoting societal change towards sustainability, and particularly how the biophysical and the social sciences can be meaningfully alloyed with the art of policy-making to contribute to the change process. This is the challenge that impact assessment practitioners are now called upon to meet.

What is effective? What isn't effective? What is the state of the art and what challenges lie over the horizon for impact assessment? We hope that you will come and participate fully in all that IAIA08 has to offer, sharing with other participants your ideas, your experience, your energy and your hope for the future.

Welcome to Perth and IAIA08! The IAIA08 Steering Committee is delighted to welcome you to Perth, Western Australia, for the 28th Annual Meeting of the International Association for Impact Assessment (IAIA). For IAIA members and regular conference attendees, we promise you all the familiar features of IAIA conferences that make them the highlight of the professional calendar, plus a few innovations and a distinctly Australian flavour that we believe will make IAIA08 truly a conference to remember. We also welcome those of you who are attending an IAIA conference for the first time, and particularly our colleagues from the Environmental Consultants Association (Western Australia) and the Environment Institute of Australia and New Zealand (EIANZ), two of the host organizations for the conference.

At the heart of IAIA08 is our conference theme, The Art and Science of Impact Assessment, with its implicit challenge to all of us as impact assessment practitioners to make impact assessment a truly effective tool to aid decision-making. The theme forums, concurrent sessions and special sessions that comprise the sixteen topic streams of the IAIA08 technical programme each grapple with this central issue by focusing on particular aspects of decision making and governance in an increasingly complex world. Effectiveness is the common thread of the programme, and it is therefore fitting that the IAIA Study of the effectiveness of Environmental Assessment Update will be launched at IAIA08 and that the study will harness the discussions and outcomes of many of the conference sessions.

Make sure you recover quickly from your jet lag, because IAIA08 will kick off with a bang! Immediately following the opening plenary, all delegates are invited to experience first-hand the creative potential of deliberative decision-making in our 21st Century Dialogue: Exploring Impact Assessment Effectiveness, the first of our three special Innovations in Participation sessions. You will find more information about these sessions on page 20 of this programme, but suffice it to say here that the Dialogue promises to get our collective ideas and energy flowing and set the scene for a dynamic and engaging conference.

The social programme for IAIA08 complements the technical one, both by providing some relief from the intellectual intensity that is a feature of IAIA conferences, and by reminding us of the importance of relationships in our professional lives. The opening reception, speed networking, dine-outs, "World Cup" table soccer and of course the IAIA08 conference banquet provide opportunities to relax, meet new friends and colleagues, and enjoy once more the company of old ones.

Above all we welcome you to Perth, Western Australia! As we live in the most isolated city in the world, we know that most of you have travelled a long way to be with us. We are delighted that so many are choosing to stay on after the conference for a few days, a week or even more to experience more of our country, especially those joining us on our special post-conference technical tour to the amazing Pilbara Region of Western Australia. But no matter how long you are staying or where you are going, we wish you wonderful, memorable and safe travels, as well as a fantastic conference!

IAIA08 Steering Committee

Angus Morrison-Saunders (Chair), Murdoch University

John Bailey, Murdoch University

Gerard Early, Department of Environment, Water, Heritage, and the Arts

Bill Grace, GHD Pty Ltd

Bruce Hegge, Environment Consultants Association

Kerry Laszig, EIANZ

Melinda Macleod, Department of Environment and Conservation

Jenny Pope, Integral Sustainability

Warren Tacey, Department of Environment and Conservation

Daily Schedule

Saturday, 3 May

15:00-17:00 **Registration** (PCEC Lobby)
Training course participants only

Sunday, 4 May

07:30-13:30 **Registration** (PCEC Lobby)
Training course and technical visit A (Rottnest) and B (Biodiversity) participants

09:00-17:00 **Training Courses**
Room numbers will be provided at check-in.

1. Integrating Cultural IA
2. Understanding Impact Assessment
3. Concepts, Processes and Methods of IA
4. SEA in Developing Countries
5. Ecological and Economic EA
6. Cumulative Effects Assessment
7. Practical EIA

08:00-17:30 **Technical Visit A: Rottnest Island**

09:00-17:00 **Technical Visit B: Biodiversity Bushwalking and Urban Fringe**

11:00-17:00 **Oil for Development (Open Session)** (Meeting Room 4)

16:00-18:00 **Registration** (PCEC Lobby)
Training course and technical visit C (Alcoa), D (Industrial) and E (Aboriginal) participants

Monday, 5 May

07:30-18:00 **Registration** (PCEC Lobby)

09:00-17:00 **Training Courses**
Room numbers will be provided at check-in.

2. Understanding Impact Assessment
3. Concepts, Processes and Methods of IA
4. SEA in Developing Countries
5. Ecological and Economic EA
6. Cumulative Effects Assessment
7. Practical EIA
8. Involuntary Resettlement
9. Principles and Practice

08:00-16:30 **Technical Visit C: Alcoa Mine**

08:30-16:30 **Technical Visit D: Industrial Synergies**

09:00-16:30 **Technical Visit E: Aboriginal Culture**

09:00-17:00 **Exhibit and Poster Setup**

18:00-19:30 **Opening Reception** (PCEC Foyer)



Sponsored by GHD

Tuesday, 6 May

08:00-16:00 **Registration** (PCEC Lobby)

07:30-08:30 **IAPA Editorial Board** (Meeting Room 1)

08:30-10:30 **Opening Plenary** (Riverside Theatre)
Chair: Angus Morrison-Saunders, Chair of IAIA08 Steering Committee

- **Welcome to Country.** Karen Jacobs, Whadjuk Blood Line descendant and Traditional Owner of the Perth Region and Common Ground Indigenous Dance Group
- **Welcome to Western Australia and IAIA08.** The Hon. David Templeman, MLA, Western Australian Minister for the Environment, Climate Change, Peel
- **Welcoming Address.** Charlotte Bingham, President of IAIA
- **Keynote Address.** "Impact Assessment and Sustainable Development." Ian Lowe
- **Keynote Address.** "Major Project Impact Assessment: Challenges, Opportunities and Trends." Robin Bidwell

10:30-11:00 **Break**

11:00-13:00 **Innovations in Participation: 21st Century Dialogue** (Pavilion 1)

 **Sponsored by BHP Billiton**

Lunch (PCEC Lobby)

Theme Forums

Break

Sponsored by BP Refinery Kwinana

Concurrent Sessions

Speed Networking (Meeting Room 5)

Indaba (See message board in the Lobby for information)

Book Launch (Meeting Room 3)

Sponsored by World Bank

Sections Coordinating Committee Meeting (Meeting Room 12)

Dine Outs (See page 3 and the signup sheets in the Lobby for information.)

Daily Schedule

Wednesday, 7 May

08:00-16:00	Registration (PCEC Lobby)
08:30-10:00	Theme Forums
10:00-10:30	Break
10:30-12:00	Theme Forums
12:10-13:00	Council Meeting (Meeting Room 9) The Council is an advisory resource for the Board. Committee chairs, Section chairs, Affiliate and Branch representatives and Conference program chairs for current and future conferences comprise the Council. All members are encouraged to attend. See page 53 for more information.
13:00-14:00	Lunch (PCEC Lobby) StatoilHydro <i>Sponsored by Statoil Hydro</i>
14:00-15:30	Concurrent Sessions
15:30-16:00	Break
16:00-17:30	Concurrent Sessions
16:00-18:00	Innovations in Participation: World Café for Impact Assessment Effectiveness (Meeting Rooms 4 & 5)  <i>Sponsored by BHP Billiton</i>
17:30-19:00	Indaba (See message board in the Lobby for information)
17:30-19:00	Committee Meetings <ul style="list-style-type: none"> Awards (Meeting Room 1) Publications (Meeting Room 2) Training & Professional Development (Meeting Room 3)
18:00-19:00	Poster Session
19:00-20:30	Table Football World Cup

Thursday, 8 May

08:00-16:00	Registration (PCEC Lobby)
08:30-10:30	Concurrent Sessions
08:30-10:30	Oil for Development Workshop (Meeting Room 1)
08:30-10:30	Innovations in Participation: Open Space for Impact Assessment Effectiveness (Meeting Rooms 4 & 5)  <i>Sponsored by BHP Billiton</i>
10:30-11:00	Break
11:00-12:00	Concurrent Sessions
12:10-13:00	Annual General Meeting (AGM) (Meeting Room 4) This is the annual business meeting of the Association. All meeting participants are encouraged to attend. See page 53 for more information.
13:00-14:00	Lunch (PCEC Lobby)
14:00-15:30	Concurrent Sessions
15:30-16:00	Break
16:00-17:30	Concurrent Sessions
17:30-19:00	Indaba (See message board in the Lobby for information)
17:30-19:00	Section Meetings <ul style="list-style-type: none"> Strategic Environmental Assessment (Meeting Room 7) Agriculture, Forestry & Fisheries (Meeting Room 3) Public Participation (Meeting Room 4) Social Impact Assessment (Meeting Room 10) Corporate Stewardship and Risk Management (formerly Environmental Management Systems) (Meeting Room 11) Environmental Law, Policies & Practice (Meeting Room 1) Disasters & Conflicts (Meeting Room 9) Biodiversity (Meeting Room 2) IA of Trade-Related Policies (Meeting Room 5) Health (Meeting Room 8) Students and Early Professionals (Meeting Room 6)
19:30	Conference Banquet (BellVue Ballroom)

Friday, 9 May

08:00-10:30	Registration (PCEC Lobby)
08:30-10:00	Concurrent Sessions
10:00-10:30	Break
10:30-12:30	Closing Plenary and Presentation of Awards (Riverside Theatre) <i>Chair: Angus Morrison-Saunders, Chair of IAIA08 Steering Committee</i> <ul style="list-style-type: none"> Welcome and Thank You. Angus Morrison-Saunders, Chair of IAIA08 Steering Committee Presentation of Awards. Bob Connelly, Chair of IAIA Awards Committee Keynote Address. Rob Sippe (Rose-Hulman Award winner) Conference Wrap-Up: The Hitchhikers Guide to Impact Assessment. Andrew Mack and Nick Dufty, Cardno-BSD Presidential Address. Sachihiko Harashina, Incoming President of IAIA Launch of IAIA Study of the Effectiveness of Environmental Assessment Update and Invitation to Cumulative Effects Assessment special meeting. Barry Sadler Invitation to IAIA09. Jonathan Allotey Closing of IAIA08.
10:30-12:30	Exhibit and poster takedown
12:30-13:30	Lunch (PCEC Lobby)
13:00	Post-conference Pilbara tour briefing (Meeting Room 12)
13:30-18:00	Technical Visit F: Urban Renewal
13:30-18:00	Technical Visit G: Sustainable Fisheries

Saturday, 10 May

07:00	Post-conference tour departs (Meet at PCEC)
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Program Overview

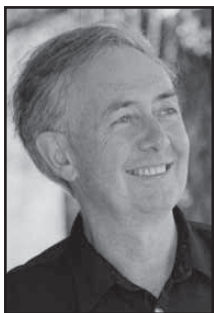
Program Overview				
	Pre-conference Saturday 3 May	Pre-Conference Sunday 4 May	Pre-Conference Monday 5 May	Conference Day 1 Tuesday 6 May
07:30		Registration for training courses and technical visits	Registration	IAPA Editorial Board
08:00				Registration opens
08:30				Opening plenary
09:00		Training courses	Technical visits	
09:30			A Rottnest Island 08:00-17:30	
10:00				
10:30			B Biodiversity Bushwalking & Urban Fringe 09:00-17:00	
11:00				Break
11:30				Innovations in participation: 21st Century Dialogue
12:00				
12:30				
13:00				Lunch
13:30				
14:00				Theme forums
14:30				
15:00	Registration for training courses and technical visits			Break
15:30		Registration for training courses and technical visits		Concurrent sessions
16:00				
16:30				
17:00				
17:30				Speed Networking
18:00			Opening Reception	Book Launch
18:30				Indaba
19:00				
19:30				
20:00				Dine Outs
20:30				
21:00				
21:30				

Program Overview

Conference Day 2 Wednesday 7 May			Conference Day 3 Thursday 8 May			Conference Day 4 Friday 9 May		Post-Conference Saturday 10 May	
Registration opens			Registration opens					Post-conference tour departs Meeting time 07:00	07:30
Theme forums		Exhibits & posters	Concurrent sessions and Oil for Development Workshop	Innovations in participation: Open Space for Impact Assessment Effectiveness	Exhibits & posters	Concurrent sessions	Exhibits & posters		08:00
Break						Break			
Theme forums			Break			Closing plenary and presentation of awards	Exhibits & posters teardown		09:00
			Concurrent Sessions						09:30
Council meeting			AGM						10:00
Lunch			Lunch			Lunch			10:30
Concurrent sessions			Theme forums			Technical visits F Urban Renewal 13:30-18:00 G Sustainable Fisheries 13:30-18:00			11:00
Break			Break						11:30
Concurrent sessions			Concurrent sessions						12:00
Committee meetings	Indaba		Section meetings	Indaba					12:30
	Poster session				13:00				
Table Football World Cup			Banquet				13:30		
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				21:00					
				21:30					

Keynote Speakers

Ian Lowe



Recognized by the Queensland (state) government as a “living legend,” Prof. Ian Lowe is an internationally recognized expert on environmental issues, energy, science, technology and futures. The current President of the Australian Conservation Foundation,

he is also emeritus professor of science, technology and society at Griffith University, Brisbane.

Internationally, Prof. Lowe has been a referee for the Inter-Governmental Panel on Climate Change, attended the Geneva and Kyoto conferences of the parties to the Framework Convention on Climate Change, and was a member of the Australian delegation to the 1999 UNESCO World Conference on Science. He was also on the steering group for the UNEP project Global Environmental Outlook, an invited participant in the 2000 workshop on Sustainability Science, and a referee for both the International Geosphere-Biosphere Program's 2004 book on planetary science and the Millennium Assessment report.

In 2001 Prof. Lowe was made an Officer of the Order of Australia for services to science and technology, especially in the area of environmental studies. In 2002 he was awarded an Australian Centenary Medal for contributions to environmental science and won the (Australian) Eureka Prize for promotion of science.

Prof. Lowe's principal research interests are in the broad area of policy decisions influencing use of science and technology, especially in the fields of energy and environment. He is the author or co-author of 10 Open University books, 10 other books, more than 50 book chapters and over 500 other publications or conference papers. His particular interests include sustainability, global futures, state of the environment, global climate change, science and technology for the future and education for a changing world.

Be prepared to be challenged by his opening address as he outlines his vision for how impact assessment practitioners should tackle pressing global sustainability issues.

“Impact Assessment and Sustainable Development”

Our legal system requires assessment of the impacts of development proposals, but most significant environmental indicators are still systematically declining. The goal of sustainable development will require reformed impact assessment systems. As well as environmental damage, we should also consider other issues: the demand for non-renewable resources such as oil and other minerals, the level of use of renewable resources like water, impacts on social structures and long-term economic effects. Balancing social, economic and environmental aspects of proposed developments to assess the overall impact on well-being is a value-laden exercise which must involve the public. If governments still see economic growth as more important than protecting the environment and improving community well-being, that misguided belief will bias our assessments. A sustainable future will only be possible when our societal values are consistent with that goal.

Robin Bidwell



Robin Bidwell, Commander of the British Empire (CBE), is the Executive Chairman of Environmental Resources Management based in London. ERM is a global environmental management consultancy employing 3,250 staff in around 40 countries.

Over the past 30 years, Dr. Bidwell has been responsible for building ERM into a global company. He has advised industry and government on sustainable development and environmental management issues. Clients include many of the world's largest oil companies and many other multinationals in Europe, US and Asia. For government he has worked for OECD, World Bank, European Commission and many national governments.

Earlier in his career he led the company's EIA work, responsible for assignments in Hong Kong, Malaysia, and the Philippines as well as Europe for major projects such as the Channel Tunnel and the Chek Lap Kok airport. He led a major 3-year piece of work to help the Dutch introduce EIA in the 1980's. More recently he has headed the company's global ESHIA quality management team and in 2007 undertook a review of ESHIA process and its role in delivering sustainably managed oil and gas extraction projects.

He has written extensively on environmental management issues and was a member of the European Commission's task force on the environmental implications of the European Union. He has been a member of the UK Natural Environment Research Council (NERC), a member of the Board of the Dutch-based Sustainability Challenge Foundation, a member of the UK Government's Advisory Committee on Business and the Environment (ACBE); he is a Council Member of the World Business Council on Sustainable Development (WBCSD) and an adviser on Sustainable Development to the Prince of Wales International Business Leader's Forum and on the Board of the UK's electricity and gas regulator (Ofgem).

He was awarded a CBE for services to the environment in 1999.

“Major Project Impact Assessment: Challenges, Opportunities and Trends

Major projects are happening in an increasingly complex context. Robin will highlight some of the key issues and emerging trends and pitfalls, and how these can be overcome. Trends include the need for speed as proponents seek to take advantage of market opportunities; Joint Ventures as project proponents and the need for alignment on sustainability issues; the emerging role of the finance industry in project approvals; and managing the increasing expectations of diverse stakeholders in the process. The result is that the role of managing the impact assessment process has become a critical function which may well determine the success of the approvals process.

Rob Sippe



Rob Sippe is currently Managing Director of PRM Pty Ltd., a private company involved in property development, inert waste disposal, soils, basic raw materials and sustainability projects.

Prior to this, he held a number of senior executive positions

over about 20 years with the Western Australian environment department including Director of Strategic Policy, Director of Sustainability and Director of Evaluation.

During that time he had responsibility for, among other things, environmental impact assessment, strategic policy formulation, climate change, State of the Environment Reporting and community education programmes.

Rob maintained a particular interest in environmental policy and law, Federal-State relations, environmental appraisal of public policy, quality assurance in impact assessment, and in the concept of environmental significance in EIA.

In his new role, Rob is pursuing commercial opportunities which are consistent with sustainability principles as the developed world moves to a different and better way of operating.

He first joined IAIA in 1988 as a delegate to the only previous conference held in Australia in Brisbane, Queensland.

Guide to Sessions by Topic Stream

The State of the Art of Impact Assessment

CS1.3 Dealing with Uncertainties in Impact Assessment and Policy Design
CS2.3 Participation, Contention and the Practice of Impact Assessment
CS4.7 Impact Assessment Feedback Mechanisms
CS5.1 Alternatives, Decision-Making and Impact Assessment
CS6.3 Overcoming Barriers to Best Practice Impact Assessment

Corporate Perspectives

CS1.4 Corporate Stewardship and Risk Management: International Best Practice
CS2.4 Corporate Stewardship and Risk Management: Impact Assessment Follow-up Using EMS
CS4.6 Beyond Impact Assessment: The integration of Social Concepts in Organisational Decision-Making and Culture

Climate Change

TF1.2 Adaptive Risk Management for Improving Water Resource Planning Resilience to Climate Change
TF1.3 Climate Change: Health Impacts and Adaptations
CS3.3 Climate Change Responses
CS5.7 Scenarios, Time Horizons and Climate Change in Impact Assessment

International Development

TF2.3 Environmental Mainstreaming in National Development Plans
TF4.3 Use of Country Systems for Environmental and Social Safeguards
CS1.9 Environmental and Social Considerations in International Cooperation: The Japanese Way
CS2.2 EIA Requirements in Relation to the Development Process
CS3.10 Environmental Assessment and International Development: Learning About How to Make EA Work in Differing Development Contexts
CS6.5 OECD DAC Task Team on SEA: Progress and Planning Seminar
CS7.2 Input to the Third High Level Forum on Development Effectiveness

Biodiversity

TF1.1 Biodiversity Offsets: Saviour or Salve?
CS1.11 The Significance of Natural Resources Inventory
CS2.11 Retooling EIA for Optimizing Biodiversity Conservation in Development Decisions
CS3.11 Biodiversity in Impact Assessment: Tools and Techniques
CS6.2 Mainstreaming Biodiversity in Environmental Assessment: What Have We Learned?
CS7.11 Valuation of Ecosystem Services

Cultural & Indigenous Issues

CS1.6 Maintaining the Identity of Indigenous People and the Area They Represent
CS2.9 Cultural Heritage and Impact Assessment (1)

CS3.9 Cultural Heritage and Impact Assessment Workshop (2)
CS7.8 Indigenous Involvement in Impact Assessment

Community & Stakeholders

Innovations in Participation: 21st Century Dialogue for Impact Assessment Effectiveness
TF 2.2 How Can Impact Assessment Enhance Benefit Sharing with Local Communities? Concepts, Current Approaches and Emerging Practices in Key Sectors
TF 3.3 Public Participation and the Practice of EIA in Western Australia
CS1.5 Mobilization of the Public for Participation in Environmental Impact Assessment
CS2.3 Participation, Contention and the Practice of Impact Assessment
CS2.5 Institutional Capacity Building: How to Deal Effectively with People in the Community on Contentious Projects
CS3.2 How Can Impact Assessment Enhance Benefit Sharing with Local Communities?
CS3.4 Innovations in Participation: World Café for Impact Assessment Effectiveness
CS4.4 Innovations in Participation: Open Space for Impact Assessment Effectiveness
CS5.4 The Art and Science of Public Participation in Impact Assessment
CS6.4 Working with Communities: Finding Common Ground
CS7.3 Incorporating Communities in Environment Assessment
CS7.6 Community Participation and Sustainability Assessment

Social & Health Impacts

TF1.3 Climate Change: Health Impacts and Adaptations
CS1.2 Guidance on Assessing "Significance" in SIA
CS1.10 Future Directions in HIA
CS2.13 Health Impact Assessment of Dams: An Update of the Situation
CS3.13 HIA Guidance and Standards (1)
CS4.10 Key Issues Facing HIA Practice
CS4.12 Innovative Methodological Approaches to SIA
CS5.2 Participatory Approaches to SIA
CS5.5 HIA Guidance and Standards (2)
CS6.4 Working with Communities: Finding Common Ground
CS7.4 HIA Roundtable
CS7.7 SIA as a Planning Tool

Effectiveness

Innovations in Participation: 21st Century Dialogue for Impact Assessment Effectiveness
TF2.1 The WA EIA Process: Is it as good at protecting the environment as it is made out to be? What can we learn from other jurisdictions?
TF3.1 Making SEA an Effective Tool for Strategic Decision-Making
CS3.4 Innovations in Participation: World Café for Impact Assessment Effectiveness

CS4.4 Innovations in Participation: Open Space for Impact Assessment Effectiveness
CS4.11 The Effectiveness of Impact Assessment in Addressing "Big Picture" Environmental Issues
CS4.13 Making SEA an Effective Tool for Strategic Decision-Making
CS4.3 Dimensions of IA Effectiveness
CS5.3 Dimensions of IA Effectiveness Workshop
CS7.10 SEA Effectiveness

Governance

TF3.2 Technology Assessment in the 21st Century: The State of the Art and Science of TA
CS2.12 Environmental Governance and the Politics of Environmental Assessment (1)
CS3.12 Environmental Governance and the Politics of Environmental Assessment (2)
CS5.9 Early Market Involvement and EIA: Experience and Practices
CS6.1 Impact Assessment Governance (1)
CS6.8 Australian Public Policy and Environmental Law
CS6.9 Environmental Intelligence and Disaster/Crisis Related Environmental Assessment: An Emerging Concept
CS7.1 Impact Assessment Governance (2)
CS7.9 IA Legislation: Enabling or Disabling Best Practice

Strategic Environmental Assessment

TF3.1 Making SEA an Effective Tool for Strategic Decision-Making
CS1.13 Tools and Techniques for SEA and Planning
CS2.8 Application of SEA and the EU SEA Directive (1)
CS2.10 Planning for Sustainability
CS3.8 Application of SEA and the EU SEA Directive (2)
CS4.13 Making SEA an Effective Tool for Strategic Decision-Making
CS5.12 SEA Practice in Vietnam: Experiences and Lessons
CS6.7 The Practice of SEA
CS7.10 SEA Effectiveness

Tools & Techniques

CS1.13 Tools and Techniques for SEA and Planning
CS2.14 Integrating Risk and EIA
CS5.7 Scenarios, Time Horizons and Climate Change in Impact Assessment

Learning & Professional Development

TF4.2 Great Impact Assessment Disasters: A Group Therapy Theme Forum
CS1.14 Welcome to IAIA!
CS2.6 Improving Professional Practice: The Role of Accreditation/Certification
CS3.6 Environmental Careers Seminar
CS4.2 EIA/SEA Teaching and Education
CS5.6 Learning Through Environmental Assessment

CS6.6 Teaching Impact Assessment: Educating Future Professionals
CS7.13 Meet the Editors

Sectoral Perspectives

TF4.1 Excellence in Marine and Coastal Impact Assessment
CS1.7 Excellence in Marine and Coastal Impact Assessment: Planning Focus
CS1.8 Impact Assessment in the Tourism Sector
CS2.7 Excellence in Marine and Coastal Impact Assessment: Dredging Focus
CS3.7 Excellence in Marine and Coastal Impact Assessment: Industry Focus
CS3.14 Impact Assessment in the Energy Sector
CS4.8 Strong EIA Lessons for Agriculture, Forestry and Fisheries
CS4.9 Impact Assessment in the Mining Sector
CS5.8 Strong EIA Lessons for Agriculture, Forestry and Fisheries Workshop
CS5.10 Challenges and Solutions in Linear Project Development
CS5.11 Impact Assessment in the Transport Sector
CS6.11 Impact Assessment in the Energy Sector: The Case for Biofuels
CS6.12 Minimizing Impacts and Impact Assessment in the Water Sector

Regional Perspectives

CS1.1 Asian SEA, EIA and Sustainability Assessment: IA and New Movements
CS1.12 Enhancing Impact Assessment in the South Pacific
CS2.1 Asian SEA, EIA and Sustainability Assessment: EIA and Practices
CS2.8 Application of SEA and the EU SEA Directive (1)
CS3.1 Asian SEA, EIA and Sustainability Assessment: SEA System and Practices
CS3.8 Application of SEA and the EU SEA Directive (2)
CS4.14 Environmental Assessments in the Greater Mekong Subregion
CS5.12 SEA Practice in Vietnam: Experiences and Lessons
CS6.8 Australian Public Policy and Environmental Law
CS6.10 Impact Assessment in Spanish-Speaking Countries: Using IAIA to Improve It
CS7.12 Assimilating Social and Political Processes in Impact Assessment: An African Perspective

Oil for Development Pre-Conference meeting: The Oil for Development Program

Open Session • Sunday, 4 May

TF3.4 Oil and Gas Exploration and Development: The Role of IA
TF4.1 Oil for Development Workshop: Building a Global Network
CS7.5 Oil and Gas Developments: The Need for Impact Assessment, Capacity Building and Monitoring

Technical Program Overview

	Meeting Room 1	Meeting Room 2	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 6	Meeting Room 7	Meeting Room 8	
Tuesday 08:30-10:30									
Tuesday 11:00-13:00									
Tuesday 14:00-15:30	TF1.1 Biodiversity Offsets: Savior or Salve?			TF1.2 Adaptive Risk Management for Improving Water Resource Planning Resilience to Climate Change	TF 1.3 Climate Change: Health Impacts and Adaptations				
Tuesday 16:00-17:30	CS1.1 Asian SEA, EIA and Sustainability Assessment: IA and New Movements	CS1.2 Guidance on Assessing "Significance" in SIA	CS1.3 Dealing with Uncertainties in Impact Assessment and Policy Design	CS1.4 Corporate Stewardship and Risk Management: International Best Practice	CS1.5 Mobilization of the Public for Participation in Environmental Impact Assessment	CS1.6 Maintaining the Identity of Indigenous People and the Area They Represent	CS1.7 Excellence in Marine and Coastal Impact Assessment: Planning Focus	CS1.8 Impact Assessment in the Tourism Sector	
Wednesday 08:30-10:00	TF2.1 The WA EIA Process: Is It as Good at Protecting the Environment as It is Made Out to Be? What Can We Learn from Other Jurisdictions?			TF2.2 How Can Impact Assessment Enhance Benefit Sharing with Local Communities?	TF2.3 Environmental Mainstreaming in National Development Plans				
Wednesday 10:30-12:00	TF3.1 Making SEA an Effective Tool for Strategic Decision-Making			TF3.2 Technology Assessment in the 21st Century: The State of the Art and Science of TA	TF3.3 Public Participation and the Practice of EIA in Western Australia	TF3.4 Oil and Gas Exploration and Development: The Role of IA			
Wednesday 14:00-15:30	CS2.1 Asian SEA, EIA and Sustainability Assessment: EIA and Practices	CS2.2 EIA Requirements in Relation to the Development Process	CS2.3 Participation, Contention and the Practice of Impact Assessment	CS2.4 Corporate Stewardship and Risk Management: Impact Assessment Follow-up Using EMS	CS2.5 Institutional Capacity Building: How to Deal Effectively with People in the Community on Contentious Projects	CS2.6 Improving Professional Practice: The Role of Accreditation/ Certification	CS2.7 Excellence in Marine and Coastal Impact Assessment: Dredging Focus	CS2.8 Application of SEA and the EU SEA Directive (1)	
Wednesday 16:00-17:30	CS3.1 Asian SEA, EIA and Sustainability Assessment: SEA System and Practices	CS3.2 How Can Impact Assessment Enhance Benefit Sharing with Local Communities?	CS3.3 Climate Change Responses	CS3.4 Innovations in Participation: World Cafe for Impact Assessment Effectiveness (concludes at 18:00)		CS3.6 Environmental Careers Seminar	3.7 Excellence in Marine and Coastal Impact Assessment: Industry Focus	CS3.8 Application of SEA and the EU SEA Directive (2)	
Thursday 08:30-10:30	CS4.1 Oil for Development Workshop: Building a Global Network	CS4.2 EIA/SEA Teaching and Education	CS4.3 Dimensions of IA Effectiveness	CS4.4 Innovations in Participation: Open Space for Impact Assessment Effectiveness		CS4.6 Beyond Impact Assessment: The Integration of Social Concepts in Organizational Decision-Making and Culture	CS4.7 Impact Assessment Feedback Mechanisms	CS4.8 Strong EIA Lessons for Agriculture, Forestry and Fisheries	
Thursday 11:00-12:00	CS5.1 Alternatives, Decision-Making and Impact Assessment	CS5.2 Participatory Approaches to SIA	CS5.3 Dimensions of IA Effectiveness Workshop	CS5.4 The Art and Science of Public Participation in Impact Assessment	CS5.5 HIA Guidance and Standards (2)	CS5.6 Learning Through Environmental Assessment	CS5.7 Scenarios, Time Horizons and Climate Change in Impact Assessment	CS5.8 Strong EIA Lessons for Agriculture, Forestry and Fisheries Workshop	
Thursday 14:00-15:30	TF4.1 Excellence in Marine and Coastal Impact Assessment			TF4.2 Great Impact Assessment Disasters: A Group Therapy Theme Forum	TF4.3 Use of Country Systems for Environmental and Social Safeguards				
Thursday 16:00-17:30	CS6.1 Impact Assessment Governance (1)	CS6.2 Mainstreaming Biodiversity in Environmental Assessment: What Have We Learned?	CS6.3 Overcoming Barriers to Best Practice Impact Assessment	CS6.4 Working with Communities: Finding Common Ground	CS6.5 OECD DAC Task Team on SEA: Progress and Planning Seminar	CS6.6 Teaching Impact Assessment: Educating Future Professionals	CS6.7 The Practice of SEA	CS6.8 Australian Public Policy and Environmental Law	
Friday 08:30-10:00	CS7.1 Impact Assessment Governance (2)	CS7.2 Input to the Third High Level Forum on Development Effectiveness	CS7.3 Incorporating Communities in Environment Assessment Session	CS7.4 HIA Roundtable	CS7.5 Oil and Gas Development: The Need for Impact Assessment, Capacity Building and Monitoring	CS7.6 Community Participation and Sustainability Assessment	CS7.7 SIA as a Planning Tool	CS7.8 Applications of Impact Assessment Involving Indigenous Peoples	
Friday 10:30-12:30									

Technical Program Overview

	Meeting Room 9	Meeting Room 10	Meeting Room 11	Meeting Room 12	Executive Boardroom	Media Room	Riverside Theatre	Pavilion 1
							Opening Plenary	
								Innovations in Participation: 21st Century Dialogue
	CS1.9 Environmental and Social Considerations in International Cooperation: The Japanese Way	CS1.10 Future Directions in HIA	CS1.11 The Significance of Natural Resources Inventory	CS1.12 Enhancing Impact Assessment in the South Pacific	CS1.13 Tools and Techniques for SEA and Planning	CS1.14 Welcome to IAIA!		
	CS2.9 Cultural Heritage and Impact Assessment (1)	CS2.10 Planning for Sustainability	CS2.11 Retooling EIA for Optimizing Biodiversity Conservation in Development Decisions	CS2.12 Environmental Governance and the Politics of Environmental Assessment (1)	CS2.13 Health Impact Assessment of Dams: An Update of the Situation	CS2.14 Integrating Risk and EIA		
	CS3.9 Cultural Heritage and Impact Assessment Workshop (2)	CS3.10 Environmental Assessment and International Development: Learning About How to Make EA Work in Differing Development Contexts	CS3.11 Biodiversity in Impact Assessment: Tools and Techniques	CS3.12 Environmental Governance and the Politics of Environmental Assessment (2)	CS3.13 HIA Guidance and Standards (1)	CS3.14 Impact Assessment in The Energy Sector		
	CS4.9 Impact Assessment in the Mining Sector	CS4.10 Key Issues Facing HIA Practice	CS4.11 The Effectiveness of Impact Assessment in Addressing "Big Picture" Environmental Issues	CS4.12 Innovative Methodological Approaches to SIA	CS4.13 Making SEA an Effective Tool for Strategic Decision-Making	CS4.14 Environmental Assessments in the Greater Mekong Subregion		
	CS5.9 Early Market Involvement and EIA: Experience and Practices	CS5.10 Challenges and Solutions in Linear Project Development	CS5.11 Impact Assessment in the Transport Sector	CS5.12 SEA Practice in Vietnam: Experiences and Lessons				
	CS6.9 Environmental Intelligence and Disaster/ Crisis Related Environmental Assessment: An Emerging Concept	CS6.10 Impact Assessment in Spanish-Speaking Countries: Using IAIA to Improve It	CS6.11 Impact Assessment in The Energy Sector: The Case for Biofuels	CS6.12 Minimizing Impacts and Impact Assessment in the Water Sector				
	CS7.9 IA Legislation: Enabling or Disabling Best Practice	CS7.10 SEA Effectiveness	CS7.11 Valuation of Ecosystem Services	CS7.12 Assimilating Social and Political Processes in Impact Assessment: An African Perspective	CS7.13 Meet the Editors			
							Closing Plenary	

Theme Forums

Theme Forum Session • 1 Tuesday 6 May • 14:00-15:30pm

TF1.1 Biodiversity Offsets: Savior or Salve?

Topic Stream: Biodiversity
Convenor: Susie Brownlie

Development often results in residual negative impacts on biodiversity, with associated impacts on human well-being. These impacts effectively constitute trade-offs that must be taken into account in decision-making. Biodiversity offsets are a potential mechanism to compensate for residual impacts and contribute to sustainability.

Format: Presentations on offsets and their application, followed by a panel discussion.

Key Issues in Calculating, Designing and Implementing Biodiversity Offsets

David Parkes, Department of Sustainability and Environment, Victoria, Australia

Issues include determining the values of impacted biodiversity, quantifying biodiversity losses and gains, locating offsets in the landscape, and assuring effective implementation.

Developing Offsets Policy: Federal and Western Australia Perspectives

a) Brendan Allen, Department of the Environment Water Heritage and the Arts, Australia

Valuable lessons from developing the Australian Government's policy will be presented, aimed at establishing a flexible approach which achieves real environmental outcomes.

b) Wildalíz de Jesus Arocho, Department of Environment and Conservation, Western Australia
The WA EPA's Statement No. 9 on environmental offsets will be discussed, and challenges facing development of a Guidance Statement explored, detailing how the position should be implemented.

Biodiversity Offsets: No Net Loss or Contributing to the Conservation Estate?

Susie Brownlie, deVilliers Brownlie Associates, South Africa

The drafting of this policy framework for offsets in the Western Cape, South Africa, has been heavily influenced not only by the particular biodiversity context, but by the legal, institutional and socioeconomic context.

Biodiversity Offsets Associated With Developments in Nature Reserves

Russell Lagdon, Chevron Australia

How do environmental agencies, government and developers come to agreement on when and what offsets are appropriate? Should they be included in the EIA or kept separate?

Panel members

David Parkes, Department of Sustainability and Environment, Victoria, Australia

Russell Lagdon, Chevron Australia

Warren Tacey, Department of Environment and Conservation, Western Australia

MEETING ROOM 1, 2 AND 3 (COMBINED)



Sponsored by Chevron

TF1.2 Adaptive Risk Management for Improving Water Resource Planning Resilience to Climate Change

Topic Stream: Climate Change
Convenors: Alessandro Palmieri, Stephen Lintner, John Boyle
Chair: Stephen Lintner

In mid 2007, the World Bank commissioned a scoping study aimed at assessing what hydropower utilities have been doing to adapt their business to expected climate change impacts. The study revealed a significant gap between analysis and decision making due to the limitations of available global circulation models.

Until models have significantly improved, the most appropriate way forward is to incorporate Adaptive Risk Management (ARM) in water resources management, especially in planning new projects. This would entail regular monitoring, evaluations and reviews, with possible redesign of the management program, as found necessary. Most importantly, ARM needs to be based on a solid set of indicators.

The theme forum will use an ongoing study on ARM as the entry point for discussion on the subject. Participants will be exposed to information and cutting edge knowledge on ways of translating ARM into concrete instruments/project-specific actions to make water projects more resilient to increased hydrological variability associated, or not, to climate change.

Format: Roundtable. Following an introduction by the chair to set the context, panelists will give short presentations on the rationale for the ARM study, its main findings and its application to large tropical monsoonal systems. This will be followed by a moderated forum discussion, during which the chair will propose key questions, and the audience will be encouraged to address them. The audience will also be invited to raise additional, relevant issues.

Panel members

Alessandro Palmieri, Lead Dam Specialist, World Bank

Rene Roy, Senior Environmental Specialist, Hydro-Quebec

Peter Adamson, hydrology consultant working with the Mekong River Commission

MEETING ROOM 4

TF1.3 Climate Change: Health Impacts and Adaptations

Topic Streams: Climate Change/ Social & Health Impacts
Convenors: Dianne Katscherian, Jeff Spickett

Impact assessment frameworks can be used as effective predictive tools for the consideration of unknown but potentially plausible impacts arising from future events such as climate change. This theme forum uses a case study of climate change in Western Australia to explore the application of health impact assessment (HIA) and other assessment modalities to assess the health implications of climate change and the development of appropriate adaptation responses through identification of potential health impacts that could arise; consideration of adaptation responses by governments, industry and communities; and examination of the potential health implications of adaptation strategies that may be proposed.

Format: Panel discussion. Following an introduction to establish scenarios of climate change in WA and elsewhere and the use of HIA as a tool to assess associated potential impacts, panel members will be asked to comment on the following discussion points from a specific health sector viewpoint (including air quality, heat, disaster preparedness and emergency response, water and vector borne disease):

- What are the climatic and other factors that will impact on the health of populations from your sector's perspective?
- What are the potential health impacts that may arise from these factors (including the availability of evidence to support this)?
- What is the current coping capacity to deal with these impacts within your sector?

Panel members

Jeff Spickett, WHO Collaborating Centre for E&HIA, Curtin University

Shane Malony, University of Western Australia

Andrew Robertson, Department of Health, Western Australia

Richard Theobald, Department of Health, Western Australia

Susan Harrington, Department of Health, Western Australia

Dianne Katscherian, Department of Health, Western Australia

MEETING ROOM 5

TF2.1 The WA EIA Process: Is it as Good at Protecting the Environment As It Is Made Out to Be? What Can We Learn from Other Jurisdictions?

Topic Stream: Effectiveness
Convenor: Ian LeProvost (Environmental Consultants Association of WA)

Western Australia is recognised internationally as a leader in environmental protection. The State has strong environmental legislation which establishes an independent Environmental Protection Authority (EPA) and a transparent EIA process which allows substantial opportunity for public participation in the final decision making process. WA also has reasonably well-resourced (on an international scale) environmental management and regulatory agencies. EIA, however, is just the first step in the environmental protection process. Australia is one of few countries which sets legally enforceable approval conditions and establishes an auditable compliance regime with penalties imposed in the case of non-compliance by proponents. It is also one of the very few that has a public appeals process against EPA decisions.

How important are these additional measures to achieving effective environmental protection? Are we in fact protecting our environment? Are public appeals bogging down the approval process and has the appeals process turned the EIA process into a political process? What can we learn from other jurisdictions about improving the desired outcomes of the process—protection of our environment?

Format: Interactive panel discussion format with broad representation from key State and global players in EIA and environment protection, including proponents, regulators, NGO's, consultants, politicians, media, academics and industry groups. The scene will be set by placing the WA EIA process into an international perspective. Within the theme of improving the efficiency of the WA EIA Process, panel members will be invited to comment on aspects of the process that they believe can be improved, or should be retained as is. Comments will be taken from the audience.

Panel members

John Glasson, Professor of Sustainability, Oxford Brookes University, UK)
Rob Sippe, Managing Director, PRM Pty Ltd., formerly variously director of strategic policy, sustainability and evaluation at the Environment Department, Western Australia
Paul Vogel, current Chairman of Environmental Protection Authority, Western Australia
Garry Middle, Appeals Convenor, Western Australia
Chris Tallentire, Director, Conservation Council of Western Australia
Bob Humphries, Sustainability Manager, Water Corporation of Western Australia

MEETING ROOMS 1, 2 AND 3 (COMBINED)

TF 2.2 How Can Impact Assessment Enhance Benefit Sharing with Local Communities? Concepts, Current Approaches and Emerging Practices in Key Sectors

Topic Stream: Community & Stakeholders
Convenors: Peter Leonard, Navin Rai, Stephen Lintner
Chair: Stephen Lintner

One of the main criticisms toward development projects such as energy, infrastructure or industrial projects—in terms of development—is that in many cases local and regional communities are often the most adversely impacted by developed projects while benefiting the least from the projects. Foreseen macro-benefits are not trickling down to the local community level and, in many cases, the populations most affected were poor rural or vulnerable groups such as Indigenous Peoples established in remote natural resource-rich areas.

Format: Paper presentations followed by panel discussion focussing on four key questions:

- Should there be a wide array of approaches to enhancing benefits through impact assessment, or has the time come to develop framework methodologies?
- Should, and if so, how should benefit sharing be considered as an integral part of good practice in project planning?
- How can benefit sharing be applied and further extended to impact assessment in order to increase development outcomes?
- How to build the capacity of local communities—and in particular Indigenous Peoples—to effectively participate in the enhancement of development benefits?

The Concept of Benefit Sharing and Recent Developments in Monetary and Non-Monetary Mechanisms and Approaches to Enhance Benefits for Local Communities

Peter Leonard, World Bank

Ongoing Case Studies in Energy and Mining: Are We Moving the Goal Posts or Building New Paradigms for Impact Assessment?

John Paul Murdock, Grand Council of the Crees Eeyou Istche, Canada

The Critical Role of Impact Assessment in Enhancing Development Benefits to Local Communities: The World Bank's Social Development Anchor Unit's Pilot Project on Hydropower

Navin K. Rai, World Bank, Washington DC

Extractive Industries as Agents for Social Development: Implications for Impact Assessment

Ana Maria Esteves, Community Insights

MEETING ROOM 4



Sponsored by Shell

TF2.3 Environmental Mainstreaming in National Development Plans

Topic Stream: International Development
Convenor: David Annandale

Rapid economic development in many newly industrializing countries is putting substantial pressure on the environment. In some countries, environmental deterioration is beginning to threaten further economic development and poverty alleviation. Countries that have national development plans have an advantage, in that they can formally incorporate environmental issues into the planning process. Where this is possible, environmental issues can be in some way balanced alongside traditional economic and social goals. The challenge to integrate environmental issues into development planning is being met in a number of developing countries.

This theme forum will examine the following questions:

- What progress have we made with mainstreaming the environment in national development planning?
- Is there evidence that mainstreaming is leading to positive environmental outcomes?
- What tools/techniques are being used around the developing world for integrating environmental issues into high-level planning?
- What are the hurdles facing better consideration of environmental issues in national development planning?
- What role does/can SEA play in encouraging environmental mainstreaming?

Format: Presentations followed by panel discussion

The Concept of Environmental Mainstreaming: An Introduction to the Theme Forum

David Annandale, Ministry of Planning and Investment, Government of Vietnam

Environmental Mainstreaming in World Bank Policy Lending for Colombia and India

Leonard Ortolano, Stanford University, USA, and Ernest Sanchez-Triana, World Bank

Poverty Environment Mainstreaming in Asia Pacific: A Review of Experience

Paul Steele, UNDP, Sri Lanka, and Rachel Roberts

The IIED "User Guide" to Approaches to Environmental Mainstreaming: Tools and Tactics for the Real World

Barry Dalal-Clayton, International Institute for Environment and Development, London

Environmental Integration: The Development Agencies Perspective

Jon Hobbs, Department for International Development and Chairman of the OECD: Development Assistance Committee's Task Team on SEA.

MEETING ROOM 5

Theme Forums

Theme Forum Session 3 • Wednesday 7 May • 10:30-12:00

TF3.1 Making SEA an Effective Tool for Strategic Decision-Making

Topic Stream: Strategic Environmental Assessment, Effectiveness

Convenors: Fernando Loayza, Rob Verheem, Maria Partidário

Strategic environmental assessment (SEA) should be a process to integrate environmental and social considerations in strategic decision making. The purpose of this forum is to discuss how to accomplish this goal better and, therefore, how SEA could be more effective in influencing strategic decision making.

While there is not a universally accepted definition, strategic decision-making could be defined as any decision-making that:

- Has a vision—looks at the wider context (time and space) and adopts a long-term perspective
- Sets objectives to be achieved, throughout time and adapted to context
- Searches for the right pathways and tools to achieve set objectives
- Accommodates interests of stakeholders potentially affected by the decision
- Is a learning process that accommodates tools, pathways and objectives to changing environmental, social, economic and political contexts

With this definition as a common reference, this theme forum will discuss emerging SEA approaches to influence strategic decision making and foster debate on the divergent expectations of decision-makers and SEA practitioners on what should be the expected outcome of SEA.

Format: Workshop, with brief presentations followed by debate between presenters, break-out group discussions, and wrap-up session.

The Institutions-Centered Approach for Policy SEA

Fernando Loayza, World Bank

Institution-centered SEA focuses on key issues affecting society, gives affected groups the means to articulate and voice their concerns, and is sensitive to the political economy underlying policy decision making.

Critical Factors for Decision-Making Approach

Maria Rosário Partidário, Technical University of Lisbon, Portugal

Rather than assessing environmental impacts of policies, plans and programmes, SEA is a decision-centred instrument that assesses strategic processes with respect to the environment in a sustainability context.

The SEA Approach of the Netherlands Commission for Environmental Assessment

Rob Verheem, Netherlands Commission for Environmental Assessment

Lessons learned on SEA and influence over 20 years of practice experience are discussed and exemplified by a recent SEA for river flood prevention policy.

MEETING ROOMS 1, 2 AND 3 (COMBINED)

TF3.2 Technology Assessment in the 21st Century: The State of the Art and Science of TA

Topic Stream: Governance

Convenor: Frank Vanclay

Once a major part of impact assessment and IAIA, Technology Assessment (TA) has experienced various waves of interest across the world. The US Office of Technology Assessment closed in 1995, about the same time as TA was becoming established in Europe. Now firmly part of the European political system, TA is undertaken at a national level and there is also an EU-level agency. With technological developments including biotechnology, nanotechnology, and functional foods, the relevance of TA is perhaps greater now than ever before. While there has been earlier criticism of TA, the recent interest has led to many developments in theory and practice. Participation methodologies such as Consensus Conferences and Citizen Juries are now being utilised. This Theme Forum features invited presentations from several leading proponents in the field, most of whom are senior staff in various European TA agencies.

Format: Brief presentations followed by panel discussion

Overview of International Technology Assessment and Challenges for 21C

Wendy Russell, University of Wollongong and Frank Vanclay, University of Tasmania, Australia

This presentation reviews developments in TA, especially the growth of participatory approaches. It addresses issues facing TA including: political and social contexts; methodology; and the future.

Societal Roles and the Impact of Technology Assessment: European Perspectives

Leonhard Hennen, German Institute for Technology Assessment and System Analysis

In addition to a conceptual reflection on TA's role in policymaking, this presentation considers the actual role of TA drawn from a European comparative project.

Technology Assessment as a Parliamentary Model

Robby Berloznik, Flemish Institute for Science and Technology Assessment (viWTA)

Using viWTA as a case study, the presentation demonstrates how parliamentary TA agencies respond to their local context.

Participation in Science and Technology: Learnings from Swiss Practice

Sergio Bellucci, Swiss Centre for Technology Assessment

The presentation overviews the results, conclusions and recommendations of several participatory TA processes conducted by TA-Swiss. It discusses various criticisms of the participatory method.

TA in Austria: Science Goes Participation

Walter Peissl, Institute of Technology Assessment, Austrian Academy of Sciences

This presentation overviews the Austrian Institute of Technology Assessment, highlighting the application of multiple methods in the assessment of new privacy-enhancing security technologies.

MEETING ROOM 4

TF 3.3 Public Participation and the Practice of EIA in Western Australia

Topic Stream: Community & Stakeholders

Convenor: John Devlin (Public Participation Section)

Western Australia hosts a significant range of resource, industrial and infrastructure projects. IAIA08 in Perth provides an excellent opportunity for a focused assessment of the contribution that public participation makes to environmental assessment in Western Australia. This theme forum provides an opportunity for IAIA members to hear Western Australian NGOs and community organizations who have been involved in environmental assessment processes to present and discuss their experiences. Invited presenters will describe cases and make suggestions for improvements to the EIA process.

Participants in this theme forum will learn about the strengths and weaknesses of the "local" (Australian and Western Australian) EIA regulations and process as these are perceived by several NGO and community organizations active in the Perth region for many years. The presentations will include a legal analysis of the potential for public participation in the two systems and several case studies which exemplify various aspects of the scope of public participation in the two systems. This will provide a "window" on Western Australia which should be of interest to many conference delegates. For those participating in tours, the theme forum will provide an opportunity to explore issues that might have arisen on pre-conference tours or provide a preparation for post-conference tours. All participants will come away with a better understanding of how the EA process looks from the perspective of the publics who engage in EIA processes as a mechanism for pursuing their local environmental objectives.

Format: Paper session followed by questions.

Brief Overview of Public Participation in EA in Australia

Cameron Poustie, Environmental Defender's Office, Western Australia

Gas Field Developments Off the Pilbara and Kimberley Coasts: Have we Learned from Past Mistakes?

Chris Tallentire, Conservation Council of Western Australia

Demise of a Wetland

Beryl Francis, Peel Preservation Group

Public Participation in EIA in WA: Making Participatory Democracy Real?

Jane Bremmer, Alliance for a Clean Environment Inc.

MEETING ROOM 5

DF3.4 Oil and Gas Exploration and Development: The Role of IA

Topic Stream: Oil for Development

Chair: Terje Lind

Oil and gas developments represent a key resource of concern to practically all governments. Those having access and control of energy sources in a society also to a large extent possess the key to prosperity or poverty. Oil and gas are both a very important geopolitical issue and a daily issue for all citizens of the globe. During the last decades, the energy markets have changed, and the focus has been moving away from oil and gas crisis management to the introduction of broader energy policies.

There is a strong linkage between oil and gas development and environmental and social quality. All sources of energy are causing adverse impacts to the environment in one way or another. Impact assessments of oil and gas development projects are therefore essential for finding ways to mitigate adverse impacts and enhancing the beneficial ones. Governments and the public are increasingly focusing attention on the need for improved governance and more transparent management policies in the sector, and this theme forum will discuss some of these issues.

Format: Presentations followed by panel discussion.

The Norwegian Oil for Development Program (OfD): Its Origin, Vision, Purpose and Approach

Solveig Andresen

During the period 2006-2010, the Norwegian government will give EUR 31 million more to help poor nations avoid internal struggles over oil and gas developments. The OfD program was launched in 2005 and aims to help developing nations better manage their oil resources.

LNG Developments in Developing Country Regions: Sustainability Performance

Jim Singleton, GHD

The oil and gas industry is increasingly looking to major foreign direct investment (FDI) projects in more challenging locations of regional and remote areas of developing countries. These are met with increasingly stringent environmental, social and economic compliance requirements.

Cutting Edge Impact Assessment for Oil and Gas Projects in South East Asia

Karlheinz Spitz, ERM

New directions in impact assessment in the oil and gas industry within the challenging context of SE Asia. This will compare approaches with those in the mining sector.

SEA in Norwegian Oil and Gas Industry

Sigurd Juel Kinn, Statoil

Strategic impact assessment methodologies are increasingly being adopted by the Norwegian oil and gas industry as an important step in securing sound environmental and social development.

Notes

MEETING ROOM 6



Camping, Australian Outback

Theme Forums

Theme Forum Session 4 • Thursday 8 May • 14:00-15:30pm

TF4.1 Excellence in Marine and Coastal Impact Assessment

Topic Stream: Sectoral Perspectives

Convenor: Adam Smith

Marine impact assessment generally relates to site specific activities such as ports, marinas, shipping accidents and other marine works. This theme forum will discuss issues including the linkage of EIA to components of planning, prediction, monitoring and management.

The forum will be the culmination of earlier concurrent papers on the topic of Excellence in Marine and Coastal Impact Assessment. It will bring together Australian and international experts to jointly present concise summaries of key processes in marine EIA and ask the following questions:

- Do planning, policies and guidelines lead to better results for project based EIA?
- How do we improve the accuracy of EIS predictions of impact?
- What level of precision is appropriate to monitoring in the marine environment?
- How can we best integrate people, monitoring and management?

Format: Panel discussion for each segment. Panel members will provide brief summaries of main points from earlier concurrent session papers, followed by questions and discussion involving the audience.

Panel members

Pedro Bettencourt is Director of NEMUS, Ltd, a Portuguese environmental consultancy company.

Jeremy Colman (PhD) is an environmental consultant with experience in marine research and management, much of it in the offshore oil and gas industry in Western Australia.

Tom Foster is Manager Asia Pacific with DHI Water and Environment in Singapore.

Jong-Gwan Jung is a member of IAIA since 2002 and served as a co-chair of technical program committee of IAIA07 Seoul.

Riku Koskela (PhD) is a Director of Koskel Group, a specialist consultant delivering marine science to Ports and Resources sectors.

Maarten Kuijper is senior marine ecologist at DELTARES (formerly Delft Hydraulics) in the Netherlands.

Ray Masini is an adjunct professor with Edith Cowan University Centre and Manager of the Marine Ecosystems Branch, WA Department of Environment and Conservation.

Kevin McAlpine is a Senior Environmental Officer of the Marine Ecosystems Branch of the Western Australian Department of Environment and Conservation.

Dave McKinnon (PhD) is a senior research scientist at Australian Institute of Marine Science (AIMS), with a background in biological oceanography and zooplankton ecology.

Sue Osborne (PhD) is a Senior Environmental Assessor with the Western Australian EPA.

James Monkivitch is the Manager of Ports and Shipping in the Environmental Impact Management Unit at GBRMPA, he worked as a consultant marine scientist throughout Australia and New Zealand before joining GBRMPA.

Cam Sim is Senior Policy Officer (Marine), Marine Ecosystems Branch of the Western Australian Department of Environment and Conservation.

Adam Smith (PhD, MBA) has worked as a researcher, consultant, manager and Director for a range of organisations. He has managed the EIM team at the Great Barrier Reef Marine Park Authority since 1999.

Jim Stoddart (PhD) is a Principal Scientist with MScience Pty Ltd and an Adjunct Associate Professor at the University of Western Australia.

MEETING ROOMS 1, 2 AND 3 (COMBINED)

TF4.2 Great Impact Assessment Disasters: A Group Therapy Theme Forum

Topic Stream: Learning & Professional Development

Convenor: Angus Morrison-Saunders

"Hello, my name is 'Alex' and I survived an IA disaster!"

In the spirit of Peter Hall's famous book "Great Planning Disasters," this forum enables practitioners to share personal experiences gained from some of those more extraordinary IAs ... the ones that went wrong. We all know that we learn most from our mistakes but most often only hear about successful case studies. This theme forum is the "group therapy" session you've been waiting for, where you can share the valuable wisdom and insights you have gained from your more memorable IAs.

Format: Story telling from invited survivors willing to share their disasters, after which the microphone will be passed around to any members of the audience who wish to bare all in this safe and supportive environment. What story do you wish you could have heard early in your career? Let your EIA disaster benefit less experienced members of the great IA family. And if public disclosure is NOT to your taste, please come along anyway to enjoy the presentations of your fellow practitioners.

Surprises from Environmental Assessment Panels

"Bill" (Ross), University of Calgary, Canada

Lessons Learned After Lights Out

"Ian" (LeProvost), LeProvost Environmental Pty. Ltd., Australia

Doc, Nobody Trusts Me—And I'm an Expert!

"John" (Fry) University College Dublin, Ireland

You've Done WHAT with the 4th Skull!?!?

"Ross" (Marshall), Environment Agency, UK

Angus claims to be a doctor of follow-up, not psychotherapy. [Sounds dodgy.]

Bill's impressive-looking CV presents accounts of being a distinguished professor and scholar, Environmental Assessment Panel member, trainer in Ecuador, Thailand and Canada, champion independent watchdog, principal organizer of the very successful IAIA04 conference, outback traveller and baseball umpire. [Come on, show us your true colors, Bill!]

Ian is an environmental consultant with over 35 years of experience in EIA and management in coastal and estuarine environments in Western Australia, the Northern Territory and SE Asia, and has recently semi-retired from the turbid waters of professional practice. [Reckon he might be due for a long stint on the couch.]

John hails from the IA academy in Ireland, having suffered a Clarkian conversion on the road to Aberdeen during a previous life as a forester which was preceded by archaeological fieldwork and a BA in biology and biochemistry after having been channelled into sciences at school when all he really wanted to do was dabble in crafts and folk music. [Qué? With this kind of multiple identity crisis, you never know who you are dealing with.]

Ross has never been a farmer, he is not President of IAIA, he does not work for ScottishPower nor sell real estate in Fremantle. [Would the real Ross Marshall step forward, please?]

MEETING ROOM 4

TF4.3 Use of Country Systems for Environmental and Social Safeguards

Topic Stream: International Development

Convenors: Stephen Lintner, Harvey Himberg

Development finance has traditionally relied on the environmental and social policies of donors rather than the borrowers' own systems to avoid, mitigate and compensate for the adverse environmental and social impacts of development projects. This pattern has continued despite substantial investments by donors in building and enhancing borrower capacity to manage environmental and social issues including technical assistance to develop comprehensive legislation, incorporating many international environmental conventions, along with regulatory and institutional capacity to implement such policies.

Within this context, the objective of this forum will be to review with environmental and social assessment practitioners the diagnostic tools being developed and implemented by the World Bank to analyze and assess the legal commitment and operational capacity of countries to apply their own environmental and social assessment, management and monitoring systems to development projects at a level consistent with the commitments normally required by international financial institutions. The methodology, experience and results of a World Bank pilot program initiated in 2005 for Use of Country Systems (UCS) for Environmental and Social Safeguards in Bank-supported investment projects will be discussed by a panel of World Bank policy specialists and practitioners, and comments will be solicited from participants in the theme forum.

Based on the experience of the pilot program, participants in the theme forum will:

- Obtain an understanding of the broad international development policy context for application of UCS for environmental and social safeguard issues
- Become familiar with the methodological innovations and challenges of applying a new diagnostic tool to assess the equivalence and acceptability of a country's environmental and social safeguard policies
- Gain the perspective of practitioners as they describe case studies in diverse country and sectors settings
- Share their own experiences in conducting comparative assessments of environmental and social systems

Format: Paper presentations followed by discussion.

Stephen Lintner, Chair, Senior Technical Advisor, Quality Assurance and Compliance Unit (QACU), World Bank

Mohammed Bekhechi: Lead Counsel, Environment and International Law Unit, Legal Department, World Bank

Harvey Himberg: Senior Environmental Specialist, Coordinator for Use of Country Systems Pilot Program, World Bank

Malcolm Jansen: Senior Environmental Specialist, Sustainable Development Department, South Asia Region, World Bank

MEETING ROOM 5

Oil for Development



In September 2005 the Oil for Development initiative (OfD) was launched by the Norwegian government. Since the launch the program has grown rapidly in response to increasing demand from a number of countries for the services of OfD. The budget for 2008 is approximately NOK 245 million (USD 47 million).

OfD represents a thematic broadening of the petroleum sector development assistance that Norway has provided since the early 1980s, which has amounted to approximately NOK 440 million over the whole period 1994 to 2004.

OfD builds on an integrated approach to the petroleum sector that centres on three themes:

- Resource management
- Revenue management
- Environmental management

Good governance, transparency and accountability are important cross-cutting dimensions.

OfD aims at assisting developing countries in their efforts to manage petroleum resources in a way that generates economic growth, promotes the welfare of the population in general and which is environmentally sustainable.

Norway has partly succeeded in translating oil in the ground to development for its people, and sharing these experiences constitutes a key component of Oil for Development. Still, what has worked well in Norway will not necessarily work elsewhere, and the policies chosen in a given country will always have to be adapted to the particular challenges this country faces.

The program is aimed at helping to make oil a blessing, not a curse. History has shown that this, unfortunately, has rarely been the case in petroleum producing countries. While natural resources can generate large revenues to foster economic growth and reduce poverty in some countries, others experience that the exploitation of these resources and a subsequent massive influx of money can lead to corruption and squandering of the national wealth, economic stagnation and ultimately increased poverty, political violence and irreparable damage to the environment. This tendency – for large natural resources to decrease rather than increase the level of development in a country – is commonly referred to as “the resource curse”. Studies have shown that good governance is crucial to ensure that the potential wealth from oil, gas and other resources becomes a benefit to the general population. oil companies and a vibrant civil society that can hold the government accountable for its actions.

‘Good Governance’ in particular implies clear divisions of roles, transparent policies, competent and non-corrupt regulatory authorities that can monitor and follow up the Developing countries that wish to take advantage of their natural resources and improve their population’s standard of living thus face a number of challenges. OfD can provide assistance in helping them overcome these challenges.

As per March 2008 OfD cooperates with 25 countries. The cooperation ranges from covering limited assistance in specific thematic areas to broad, long-term institution building. Oil for Development is a demand-driven initiative. A key request from governments worldwide is assistance in developing the institutional capacity of the regulatory authorities that deal with resource management, environmental management and revenue management. OfD is also involved in developing civil society capacity in our cooperating countries through Norwegian and international Non-Governmental Organisations (NGOs).

More Information
www.norad.no

Special Sessions

Innovations in Participation: Exploring Impact Assessment Effectiveness

The special sessions on Innovations in Participation will offer IAIA08 delegates from all sectors a firsthand experience of three innovative methods of engagement that promote deliberation and learning towards better, more sustainable decision-making. Innovations in Participation will run as three separate but inter-connected sessions of two hours each, each utilizing a different discussion technique and focusing on aspects of impact assessment effectiveness.

Immediately following the opening plenary on Tuesday, 6 May, all conference delegates will be invited to experience first hand the dynamic process of 21st Century Dialogue. **21st Century Dialogue** is a powerful means of involving large numbers of people in a discussion and capturing and prioritizing the issues that emerge. Participants are seated at tables of 10, guided by a table facilitator and connected by a networked computer. Views are input into the computers and analyzed by a Theme Team that identifies emerging themes and priorities which are projected back into the room in real time.

The discussion will focus upon the highly relevant topic of impact assessment effectiveness, what it means and how we as practitioners can contribute to improved effectiveness. The outcomes of the session will be made available immediately afterwards and will also provide input into the review of the IAIA Study of the Effectiveness of Environmental Assessment Update being launched at IAIA08. The other two Innovations in Participation sessions, utilizing World Café and Open Space methodologies, will take place during the concurrent sessions on Wednesday, 7 May, and Thursday, 8 May, and will build upon the outcomes of the Dialogue, providing an opportunity for deeper exploration and discussion.

World Café involves a series of conversations between 4-5 people seated at small café-style tables. After a period of time, all but one person from each table rotate to share the conversation themes in a new group, while a “host” remains to share the themes developed by the original table members to newcomers. World Café promotes shared understanding and mutual learning about complex issues in a non-confrontational environment.

Open Space Technology provides an opportunity for a large group to self-organize into smaller groups each focusing on a particular aspect of a complex issue. Participants are invited to initiate discussions by nominating topics. Others can then elect to join a discussion that resonates with their own interests and passions, and are free to move between groups as they choose. The larger group, the Open Circle, reconvenes at the conclusion of the session to share experiences.

Innovations in Community Engagement will be coordinated and facilitated by Professor Janette Hartz-Karp of the Curtin University Sustainability Policy Institute.

21st Century Dialogue


Tuesday, 6 May • 11:00-13:00 • Pavilion 1

World Café

Wednesday, 7 May • 16:00-18:00 • Meeting Rooms 4 & 5 (combined)

Open Space

Thursday, 8 May • 08:30-10:30 • Meeting Rooms 4 & 5 (combined)

 **Sponsored by BHP Billiton**

Special Topic Stream: The State of the Art of Impact Assessment

What is best practice impact assessment and how can we improve what we do? These questions are continually debated by impact assessment practitioners across all sectors and in all fields of practice, at conferences, in the literature and in the course of daily work.

These special sessions on The State of the Art of Impact Assessment at IAIA08 provide a unique opportunity to approach the practice of impact assessment in a different way, crossing the traditional divides of EIA, SEA, SIA, HIA or other forms of impact assessment. Delegates from across the spectrum of research and practice will come together to discuss important aspects of the impact assessment process that are common to all, but which are often treated differently within different fields or sectors. By framing the discussion in this way, we aim to open up to the possibility of learning collaboratively and finding new perspectives and ways forward.

The sessions within The State of the Art of Impact Assessment series address fundamental issues of relevance to impact assessment practitioners across the board, including consideration of alternatives, public participation, determining significance, dealing with uncertainty, cumulative impact assessment, institutional arrangements and follow-up. Come and engage with The State of the Art of Impact Assessment!

The following sessions comprise this special topic stream. See the concurrent session schedule for further details.

CS1.3 Dealing with Uncertainties in Impact Assessment and Policy Design

CS2.3 Participation, Contention and the Practice of Impact Assessment

CS4.7 Impact Assessment Feedback Mechanisms

CS5.1 Alternatives, Decision-Making and Impact Assessment

CS6.3 Overcoming Barriers to Best Practice Impact Assessment

Indigenous Peoples

In recognition of the indigenous people of Earth, and in support of the sessions and events organized by indigenous people at IAIA08, a meeting space will be provided throughout the conference in which indigenous people from around the world can come together.

Tuesday, 6 May–Friday, 9 May • 09:00–17:00
Boardroom 2

IAIA Study of the Effectiveness of Environmental Assessment Update

Beginning at Perth, IAIA will be undertaking an 18-month process to review and update the International Study of the Effectiveness of Environmental Assessment. The original version of this benchmark study was completed in 1996 with the support and participation of a consortium of countries and international organizations. It resulted in a sizeable body of work and many of its reports and training-related products have been widely used and cited. But much has happened in the last decade in impact assessment practice. New issues and areas of emphasis have emerged and long standing challenges have intensified in an era of globalization.

For these reasons, IAIA will be leading an Update of the effectiveness study, which will follow the original model in drawing on a range of commissioned work and in-kind contributions from interested agencies and individuals. The IAIA 08 agenda encompasses much of interest bearing upon these themes and is expected to contribute significantly to their development.

IAIA08 delegates are invited to contribute to the study by participating in the special sessions on Innovations in Participation: Exploring Impact Assessment Effectiveness and other relevant sessions throughout the conference, completing the participant survey in your delegate pack, and sharing your ideas directly with Barry Sadler as coordinator of the study (find Barry in Boardroom 3).

Tuesday, 6 May–Thursday, 8 May • 09:00–17:00
Boardroom 3

Welcome to IAIA!

Is this your first IAIA conference? Have you been to a few IAIA conferences but want to know more? This session is for anyone who wants to learn about the organization, its history, and how it works; new or prospective Board members, or anyone interested in participating in IAIA as a committee member or Section member. Chaired by IAIA CEO Rita Hamm.

Tuesday, 6 May • 16:00–17:30
Media Room

Environmental Careers Seminar

The Environmental Career Center (ECC) will coordinate the third annual IAIA Environmental Careers Seminar at IAIA08. Come to this session ready with your questions on what it takes to prepare for, enter and advance in a rewarding career of protecting the environment. The panel of experts includes 4 environmental employers who are currently seeking staff and/or who have the knowledge and passion for helping others gain employment. Previous career seminar speakers have represented the UN Environmental Programme, The Environment Agency (UK), CH2M Hill, ENSR International, School for Field Studies, and others. See you there.

The Environmental Career Center operates EnvironmentalCareer.com, publishes the Green Careers Journal, and conducts career research and job seminars.

Wednesday, 7 May • 16:00–17:30
Meeting Room 6

Meet the Editors

Do you want to know how to get published in an academic journal? Are you unsure which journal is right for you? Would you like to learn about how the process works, from submission to review to publication?

If so, then this is the session for you! The panel of the editors and publishers of major impact assessment journals will each give a brief presentation on their respective publications, after which there will be plenty of time for participants to ask questions and quiz the panel. If you want to get your work published, you can't afford to miss this session!

Friday, 9 May • 08:30–10:00
Executive Boardroom

The Oil for Development Program

Open session
Sunday, 4 May

First session: 11:00–12:30

Chair: Arne Dalfelt

Introduction to the Oil for Development Program
Solveig Andresen, Norad

The Legal Basis and Impact Assessment Regulations in Norway
Arne Tesli, NIBR

Practicing Corporate Social Responsibility: The Case of Strategic Environmental Assessments in Norwegian Oil and Gas Industry
Sigurd Kinn, StatoilHydro

Discussion

Second session 14:00–15:00

Chair: Arne Tesli

Impact Assessment as Practiced by Australian Oil and Gas Industries
Jim Singleton

Oil and Gas Exploration in the Canadian Arctic: Environmental and Social Impacts
Peter Croal

Discussion

Third session: 15:30–17:00

Chair: Solveig Andresen

Oil for Development Program member countries present issues, problems and opportunities related to oil and gas development and impact assessment in their own countries and situations.

Speakers to be identified from the group of people receiving capacity building support from the OfD program to attend IAIA08.

Concurrent Sessions

Concurrent Session 1 • Tuesday 6 May 16:00-17:30 pm

CS1.1 Asian SEA, EIA and Sustainability Assessment: IA and New Movements

Topic Stream: Regional Perspectives

Chairs: Jong Ho Lee, Kii Hayashi

Format: Paper session

This session invites experiences, good practices and lessons learned in Asian impact assessment system and practices. It is a meaningful follow-up of “SEA/EIA development and cases in Asia” held in IAIA06 and the “Asian SEA, EIA and Sustainability Assessment” session at IAIA07.

Gyongbu Canal: Grand Waterway or Campaign Pledge?

Sang Hoon Lee, Yong Chung, Young-Kee Jang and Im-Soon Kim

The economic feasibility, hydrologic impact, and ecological influence of the proposed Gyongbu Canal with 540 km length in South Korea are reviewed negatively by a careful environmental impact analysis.

How to Achieve Both Better Quality of Stream Water and Riparian Landscape

Ha Sung-Ryong and Lee Ji-Heon

Method Development for the Integrated Impact Assessment in Korea: Case Study for the Construction of Korean Grand Waterway

Im-Soon Kim, Gi-Chun Ryu, Jae-Geun Ryu, Keyhee Ahn, Jaeseok Yun, Seokho Lee, JongHo Lee, Jaebok Jung, Jong-Gwan Jung, Sang-Wook Han, Young Han

The paper is an effort to establish a guideline for the integrated impact assessment for the construction of the Korean grand waterway.

Environmental Review Items for Environmentally-Friendly Land Development Project

Chan-sik Lee, Hyun-soo Park and Kyung-taek Oh

SEA Capacity Building: Case Study of the Development of the Core Training Materials (CTM) and Training of Local Trainers (LTs)

Liuqiong Li, Na Li

SEA Capacity Building in Yunnan, China

MEETING ROOM 1

CS1.2 Guidance on Assessing “Significance” in SIA

Topic Stream: Social & Health Impacts

Chair: James Baines (SIA Section)

Format: Short presentations followed by open discussion

Come prepared to discuss the following kinds of questions. In carrying out an SIA:

- Is the concept of ‘significance’ helpful?
- How do I decide a social effect is ‘significant’?
- Who should determine significance?
- Significance in a community setting?
- Are certain effects axiomatically “significant”?
- Is there a gradient of social effects—more or less significant?
- Does statistical significance have a place?

Notes will be taken and put on the IAIA SIA Web page.

MEETING ROOM 2

CS1.3 Dealing with Uncertainties in Impact Assessment and Policy Design

Topic Stream: The State Of The Art of Impact Assessment

Chair: Wil Thissen

Format: Workshop

Uncertainties abound in impact assessment, yet little attention has been given so far to appropriate ways of dealing with them. This workshop will focus on methods and principles to identify, analyze and assess uncertainties, and on strategies policy designers could follow in light of uncertainties.

Uncertainties in Air Quality in Assessment in Developing Countries

Farah Adeeb

This presentation provides an overview of the uncertainties encountered during air quality assessment of development projects/proposals in developing countries.

Uncertainties in Environmental Burden of Disease Calculations

Anne Knol, Arthur Petersen, Jeroen van der Sluijs, Erik Lebre, Brigit Staatsen

Assessing and structuring uncertainties in environmental burden of disease calculations as a basis for interpreting and communicating results.

Fuzzy Environmental Impact Assessment

Parikshit Verma, Satish Wate, Sukumar Devotta

Fuzzy set theory has an advantage of handling subjective information in order to arrive at a decision. This paper talks about application of fuzzy set in EIA studies.

Is The Only Certainty In Impact Assessment That It Could Have Been Done Better?

Michael England

This presentation will discuss and showcase the Environmental Envelope concept, a paradigm enabling flexibility in project design without diminution of certainty in predicting or understanding the environmental outcomes of a project.

Handling Deep Uncertainties in Impact Assessment

Wil Thissen

Many important uncertainties in impact assessment are structural. This presentation will outline approaches to systematically include such uncertainties in impact analysis, and identify policy approaches in light of irreducible uncertainties.

MEETING ROOM 3

CS1.4 Corporate Stewardship and Risk Management: International Best Practice

Topic Stream: Corporate Perspectives

Chair: Debra Zanewich (Corporate Stewardship and Risk Management Section)

Format: Paper session

This concurrent session will focus on applying the IFC’s Performance Standards, Equator Principles, and other international best practices in the context of private sector projects. Best practice for sustainability reporting in

the mining sector will be explored. Various viewpoints will be presented to allow discussion and sharing of experiences.

Equator Principles in Practice: Implementation of the SH&E Minimum Requirements

Amitha Hariram

The Sasol group of companies governs SH&E on projects and operations through the IFC guidelines, policies and performance standards. The measures implemented to ensure application of and compliance to these standards and practices will be discussed.

Equator Principles: Or, How I Learned To Stop Worrying and Love Sustainability

Paul Lawrence

“What the Equator Principles mean” will continue to be an active and controversial debate, but should not hinder impact assessment practitioners from using them as rules for process-driven project development.

Assessing the Evolution of Sustainability Reporting In the Mining Sector

Luis Sanchez, Fabiana Perez

A total of 62 reports published since 2000 by two metal mining and two limestone cement companies were reviewed. Results showed an evolution in both form and comprehensiveness of reports.

An Export Credit Agency’s Experience in Developing Markets

Debra Zanewich

An Export Credit Agency’s experience applying international environmental and social standards for projects in developing markets.

MEETING ROOM 4

CS1.5 Mobilization of the Public for Participation in Environmental Impact Assessment

Topic Streams: Community & Stakeholders

Chairs: Bert Enserink (Public Participation Section)

Format: Meeting place

In many countries public participation in environmental impact assessment is still underdeveloped. Practitioners present their efforts to involve specific groups, in creation of trust and capacity building and encouragement of public participation in EIA procedures. The session will be run as a workshop and focused on “how to do it.”

Breaking Kenyan Barriers to Public Involvement in Environmental Impact Assessment

Nick Okello, Wim Douven, Jan Leentvaar, Lindsay Beevers

Sustainable Environmental Management is at stake where mechanisms that restrict public involvement in developing countries exist. What are these barriers and is SEA the bridge to better involvement in Kenya?

Environmental Assessment of a Water Supply Project in Upper East Region of Ghana

Richmond Amoako, Seth Larmie

The paper seeks to identify the linkages between poverty, community mobilization and impact assessment of rural water supply

for deprived small towns in the upper east region of Ghana.

Looking for Ways to Save Energy

Alma Koka

The continuous growing demand for energy is currently the main challenge for the government of Albania. Can we project future energy needs in an environmentally responsible manner?

The Environmental Appeal Process in Western Australia: A Check and Balance on EIA

Garry Middle

EIAs in Western Australia are subject to merits-based appeals with an independent Appeals Convenor. This paper describes the appeal process and how it provides a check and balance to EIA.

Gender Representation in Public Consultation of Infrastructure Projects

Charlotta Faith-Ell, Lena Levin

This paper discusses the result of a project aiming at increasing the knowledge about women's and men's participation, opportunities to take part in, and influence on the road planning process.

MEETING ROOM 5

CS1.6 Maintaining the Identity of Indigenous People and the Area They Represent

Topic stream: Cultural & Indigenous Issues

Chair: Bob Tai (Indigenous Peoples Section), Maria Tait

Format: Roundtable

This session will lead with Maria Tait who has worked both in Central and Local Government in New Zealand. She will identify her Tribal connection and identify the process taken to confirm all parties are talking to the right people, as a starting point for discussion of this issue in the IA process.

MEETING ROOM 6

CS1.7 Excellence in Marine and Coastal Impact Assessment: Planning Focus

Topic Stream: Sectoral Perspectives

Chair: Adam Smith

Format: Paper session

Experts recognize that resources and the competing interests of different sectors are major challenges in the marine and coastal context. This session will provide insights from both Australian and international perspectives on best practice and new paradigms for planning in marine and coastal impact assessment.

Introduction to Impact Assessment in the Marine Environment: The Most Challenging of All

Adam Smith

Surprisingly, Australians are sometimes seen as world leaders in marine EIA. However, we need major change, new leadership and strategic EIA for sustainable marine environments.

Protection of Marine Benthic Primary Producer Habitats in Western Australia

Cameron Sim, Ray Masini, Kevin McAlpine

A policy framework within which cumulative loss of benthic primary producer habitats are considered in the EIA process will be outlined.

Environmental Impact Assessment of a Proposal with High Levels of Uncertainty in a Sensitive Marine Environment

Sue Osbourne

This is a case study of a seismic survey of Scott Reef, WA, which illustrates the benefits of combining the use of scientific assessment tools with a cooperative approach and open communication.

The Challenges of Impact Assessment for a Seismic Survey at a Remote Coral Reef

Jeremy Colman, Cameron Grebe

In 2007 Woodside conducted the Maxima seismic survey at Scott Reef, WA. This paper describes the challenges and complexities of impact assessment and the regulatory approvals process for this survey.

Impact Assessment and Coastal Zone Management: The Portuguese Experience

Pedro Bettencourt

EIA is an essential tool in coastal management in Portugal where coastal areas simultaneously concentrate the population and economic activities in 40% of the coastline and 60% of the coastline is classified as Natural Reserve.

MEETING ROOM 7

CS1.8 Impact Assessment in the Tourism Sector

Topic stream: Sectoral Perspectives

Chair: Juan Palerm

Format: Paper session

This session will explore the linkages between tourism and environment and the role of impact assessment to integrate the environment in planning, looking at both theoretical insights and practical experiences.

Tourism and Environment in the South-West Indian Ocean and Potential Role of SEA

Juan Palerm

The paper presents the links between environment and tourism development in the South West Indian Ocean, and the role of SEA for environmental integration in policy-making and planning.

An Integrated Environmental Management Approach for Tourist Destinations

Chiara Rosnati, Virginio Bettini, Chiara Porcu, Giorgio Plazzotta, Stefania Minestrini, Mara Mangia

This paper presents an integrated management system involving a tourist destination. The project comprises the promotion of European Ecolabel and the development of a WebGIS based on open source technologies.

When Demand Exceeds Supply: Impacts on Access to Public Lands and Waters

Hobson Bryan, Nicholas Taylor

Increasing outdoor recreation demand faces decreasing or flattening supply. The authors delineate social and economic impacts of

resulting de facto privatization of public lands and waters around the world.

Negotiating Growth in a Tourist Center: The Need to Evaluate Cumulative Impacts

Verduzco Basilio, Nora L. Bringas-Rabago

This paper analyzes the need to conduct cumulative impact evaluation to solve conflicts associated with tourism growth. Authors analyze examples in Mexico. The paper argues that the joint analysis of cumulative impacts may lead to better agreements.

Impact Assessment of Olympic Proportions

Dave Williamson

A discussion of the EA process for the 2010 Olympic and Paralympic Winter Games using the Whistler Speed and Technical Ski Venues as a case study.

MEETING ROOM 8

CS1.9 Environmental and Social Considerations in International Cooperation: The Japanese Way

Topic stream: International Development

Chair: Sachihiko Harashina

Format: Workshop

Recent trends of creating guidelines for environmental and social consideration in such major organizations in Japan, as the Japan International Cooperation Agency (JICA), the Japan Bank for International Cooperation (JBIC) and the Japan External Trade Organization (JETRO) will be analyzed. How to improve those activities will be discussed.

Creating Guidelines for Sustainability in International Cooperation

Sachihiko Harashina

Recent trends of creating guidelines for environmental and social consideration in many international cooperation organizations in Japan will be analyzed. How to improve those activities will be also discussed.

Outlines of JETRO Guidelines for Environmental and Social Considerations

Shigeaki Fujisaki

The uniqueness of the JETRO Guidelines, which came into effect January 1st, 2008, is that it adopts not only SEA/EIA approach, but CSR concept for its environmental and social considerations.

Creating the New JICA's Environmental and Social Considerations Guidelines and Development Studies

Ken-ichi Tanaka

A revision of the JICA Environmental and Social Considerations Guidelines is in progress as arranged for a merger of JICA and JBIC on the 1st of October 2008.

Response

Stephen Lintner

Comments on the approaches and processes being used by Japanese authorities for addressing environmental and social considerations in the work of development cooperation organizations.

MEETING ROOM 9

Concurrent Sessions

Concurrent Session 1 • Tuesday 6 May 16:00-17:30 pm

CS1.10 Future Directions in HIA

Topic Stream: Social & Health Impacts
Chair: Ben Cave (HIA Section)
Format: World Café

Interested in health issues? Orient yourself at the start of the conference. This session gives an overview of the conference and an important chance to meet health section members old and new. IAIA Sections represent the members – come and share your views on the directions HIA should take.

The 6/94 Gap in HIA

Gary Krieger, Tobias Erlanger, Burton Singer, Juerg Utzinger

HIA is simply a slogan without a clearly articulated and relevant methodology and having little or no salience regarding potential impacts of large industrial projects in the developing world.

A WA Perspective on Health Impacts of Climate Change

Dianne Katscherian, Jeff Spickett
Climate change may impact on human health. A collaborative Health Impact Assessment was used to assess potential impacts to health from climate change in WA and to identify opportunities for adaptation.

MEETING ROOM 10

CS1.11 The Significance of Natural Resources Inventory

Topic Stream: Biodiversity
Chairs: Toshiaki Ohkura, Ryunosuke Hamada
Format: Paper session

For environmental assessment, are we making full use of natural resources inventory (NRI)? Excess concern for endangered species has misled us to overlook a common flora, fauna and soils supporting our life. We will focus on the meaning of common natural resources to discuss the significance of NRI.

An Integrated NRI for WHO Healthy City Program

Ryunosuke Hamada, Toshiaki Ohkura
A proposed framework of integrated natural resources inventory in promotion of WHO Healthy City Program in a grass-root community consisting of links to natural resources in formation.

Making Inventory of Habitat Suitability Index Models for Wildlife Conservation

Akira Tanaka
Habitat Suitability Index models of wildlife species in Japan have been opened on a Web site and anyone can download and use them for wildlife conservation in EIAs.

Technology Development for Utilization of Natural Resources Inventory: Sago Palm

Masanori Okazaki, Masato Igura, Mayuko Tsujimoto, and Ryunosuke Hamada
Sago palm plant is one of the valuable natural resources, due to the starch source and biodegradable plastics and adsorbent for heavy metals after chemical modification.

Fundamental Concepts and Framework for the Utilization of NRI

Toshiaki Ohkura, Ryunosuke Hamada
A fundamental concept of natural resources inventory called epistemological understanding has been derived from the existence and recognition of natural resources.

MEETING ROOM 11

CS1.12 Enhancing Impact Assessment in the South Pacific

Topic Stream: Regional Perspectives
Chair: Lachlan Wilkinson (EIANZ)
Format: Workshop

Tepa Suaesi, from the South Pacific Regional Environment Program, will present the draft findings of a study on constraints to EIA and SEA in the South Pacific and priorities for improvement. The workshop will draw on the experience of other South Pacific delegates and explore opportunities for building technical capacity through improved networks and exchange of information.

MEETING ROOM 12

CS1.13 Tools and Techniques for SEA and Planning

Topic Streams: Tools and Techniques, Strategic Environmental Assessment
Chair: Paola Gazzola
Format: Paper session

The session will explore the potential of using computerized-based mapping tools and techniques in SEA, land-use planning and landscape planning. It is based upon the assumption that tools such as e.g. GIS, can contribute to assessment and planning processes, with more than “just” a description of the baseline environment. Innovative techniques will be introduced, and their purposes, benefits, advantages and disadvantages discussed, providing recommendations on how these tools can be adapted to suit a wide range of assessment and planning practices.

Rapid Landscape Condition Monitoring and Mapping Using a Helicopter Platform: An Alternative Approach to Impact Assessment

Abe Francis
Landscape scale monitoring using a helicopter platform can be a cost effective way to monitor change and target management and can have advantages over ground-based and remote sensing methods.

Geographic Information Systems in SEA of Development Plans in Ireland

John Fry, Ainhua Gonzalez, Alan Gilmer, Ronan Foley, John Sweeney
This paper presents the observed operational constraints and the perceived benefits of applying a GIS-based methodology to the SEA of land use plans in Ireland.

Integration of Landscape Ecological Concepts in SEA

Sangbum Lee
The integration of landscape ecological concepts in SEA is urgent to consider regional ecological process at policy/planning level. Landscape ecological indices provide useful information to delineate priority conservation habitat.

A Relevant Core Set of Dynamic GIS Indicators for SEA Processes

Giuseppe Magro
An innovative framework of GIS indicators for advance SEA process. The presentation introduces a formal description of the methodology for obtaining dynamic GIS indicators and an example of their applications.

Visual Impact Assessment: Integrating Landscape Analysis with Community Values And Town Planning

Alan Chenoweth
A 2-stage approach to landscape evaluation incorporating community input is recommended as a robust basis for planning and impact assessment, integrating the best features of several competing approaches currently in use

EXECUTIVE BOARDROOM

CS1.14 Welcome to IAIA!

Topic Stream: Learning and Professional Development
Chair: Rita Hamm (IAIA)
Format: Presentations followed by Q&A session

This session is for any delegate who wants to know more about the IAIA organization, its history, and how it works. Anyone interested in becoming more involved in IAIA leadership or promoting IAIA in their home base should find this session to be especially helpful and interesting.

MEDIA ROOM

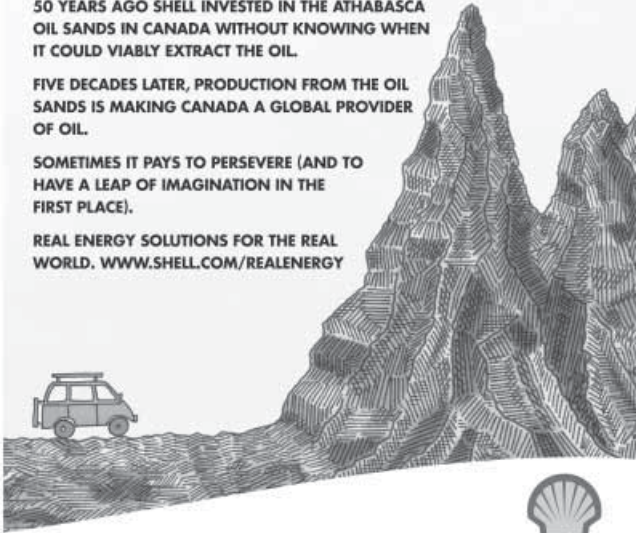

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Concurrent Session 2 • Wednesday 7 May • 14:00-15:30 pm

CS2.1 Asian SEA, EIA and Sustainability Assessment: EIA and Practices

Topic Stream: Regional Perspectives

Chairs: Kii Hayashi, Young-Il Song

Format: Paper session

This session invites experiences, good practices and lessons learned in Asian EIA system and practices. It is a meaningful follow-up of "SEA/EIA development and cases in Asia" held in IAIA06 and the "Asian SEA, EIA and Sustainability Assessment" session at IAIA07.

Implication from World EIA Practices for Future Revision of Japanese EIA System

Kii Hayashi

The Japanese EIA law was enforced in 1999. After ten years, the EIA law is planning to be revised. The study focuses on getting implication from other countries for Japan.

EIA and Pan Korea Grand Waterway

Jong Ho Lee, Suh-Sung Yoon, Tae Geun Kim, Sang Pyo Hong

Pan Korea Grand Waterway is the hottest issue, therefore, this study tries to strengthen the

role of SEA and EIA on the political process for the future Korea.

A Comparative Study of EIA Systems and SEA Requirements in China and Japan

Jing Du, Sachihiko Harashina, Fenglin Yang

SEA as an important assessment tool for integrating environmental issues into decision making at a strategic level and should be promoted in both China and Japan based on existing EIA systems.

Seeking Alternative Process for the Location of Industrial Complex

Jong-Gwan Jung and Sang-Wook Han

Concerned stakeholders from among the central governments and local communities disputed the most reasonable way to solve the controversial location of industrial complex issue in the region.

Bleaching Hong Kong's Victoria Harbour: Desirable Outcome of EIA Study?

Albert Koenig

An EIA Study on disinfection facilities for Hong Kong's Harbour Area Treatment Scheme will be discussed, emphasizing technical, ecological, economic, and political aspects surrounding this mega-sized chlorination project.

EIA and CDD in Indonesia: Challenges and Opportunities of the Emerging Trend

Viviane Rambe

The traditional EA instrument is not the best option for safeguarding the environment in CDD operation due to some major challenges. Opportunities beyond the traditional EA instruments are needed.

MEETING ROOM 1

CS2.2 EIA Requirements in Relation to the Development Process

Topic Stream: International Development

Chairs: David Atkins, Meg Taylor

Format: Paper session

EIA is ideally a tool to assure an orderly balance between socio-economic growth and environmental protection. This session will explore whether EIA systems in different countries are situated in the development process in such a way as to truly provide a more effective tool for balancing socioeconomic growth and environmental protection.

Concurrent Sessions

Concurrent Session 2 • Wednesday 7 May • 14:00-15:30 pm

The EIA Process and Urban Water Supply Projects in Ghana

Regina Aikins, Seth A. Larmie

The presentation will describe the urban water supply situation in Ghana, including government interventions, statutory requirements for development projects, and conflicting situations arising from societal/political pressures and the EIA process.

EIA as a Tool for Facilitating Sustainable Development in a Growing Economy

Marta Henriques, Madalena Dray, Stuart Heather-Clark, Wynand Blignaut, Albert De Jong, Natasha Aragão

A best practice EIA for an offshore hydrocarbon exploration project in a pristine conservation and tourism area is discussed as a tool for facilitating sustainable development in a growing economy.

The Challenges of Balancing National Development and Environmental Protection

Lwanda Kahongo

The presentation will focus on national development plans in Zambia and mechanisms put in place to deal with the negative environmental consequences of development.

Making Sense out of Chaos: Capacity Needs Assessments in Developing Countries

Bryony Walmsley, Peter Tarr

This paper presents the methodology used to conduct capacity needs assessments for IA in post-conflict developing countries, including causal chain analyses, and the identification of optimum interventions.

MEETING ROOM 2

CS2.3 Participation, Contention and the Practice of Impact Assessment

Topic Stream: The State of the Art of Impact Assessment, Community & Stakeholders
Chair: John Devlin (Public Participation Section)
Format: Meeting place

When conflict arises during an environmental assessment, how can it be most effectively recognized and integrated into the process? This session will explore contention in environmental assessment through cases of off-shore oil exploration in Mozambique, land acquisition in China, community relocation in the Dominican Republic, and community involvement in Southern Australia.

Adding Value to the EIA Process through Stakeholder Engagement

Madalena Dray, Stuart Heather-Clark, Marta Henriques, Wynand Blignaut, Jeremy Gotwals, Natasha Aragão, Albert de Long

The establishment of a stakeholder forum and peer review were an integral part of an EIA stakeholder engagement strategy which facilitated the "social license to operate" for a proposed off-shore exploration project in Mozambique.

Land Acquisition in China: Livelihood Risks in Plantation Communities

Marilyn Beach

This paper presents case studies of livelihood impacts of the plantation industry in southern China. It offers an approach to working with communities and describes communication techniques, public participation approach and methodology.

Public Mobilization in a Sanitation and Water Project in Dominican Republic

Frederic Faustin

The paper describes how public participation was integrated in the social and environmental feasibility study, which allowed us to identify institutional and community partners that could collaborate in the participative process.

Formal vs Informal Participatory EIA Methods: A South Australian Case Study

Beverly Clarke

Analysis of South Australia's EIA system suggests that formal public engagement methods have limited influence over decisions. This paper reviews case studies illustrating formal vs informal participation methods and their relative effectiveness.

MEETING ROOM 3

CS2.4 Corporate Stewardship and Risk Management: Impact Assessment Follow-up Using EMS

Topic Stream: Corporate Perspectives
Chair: Debra Zanewich (Corporate Stewardship and Risk Management Section)
Format: Paper session

This paper session will focus on case studies using environmental management systems as a tool to follow-up on commitments made in impact assessment reports, permits, and other legal agreements. The case studies will demonstrate the importance of environmental management plans.

A Case Study on Acquiring Meaningful Post-Project Impact Assessment Feedback

Chandrashekhar Moghe, Dilip Ramteke, Satish Wate

Significance of Post Project Environmental Monitoring (PPEM) as one of the Impact Assessment Feedback Mechanism has been reviewed with a case study of township and area development project in India.

Managing Impacts/Modifying Mitigation Measures on a PPP Project in South Africa

Mark Freeman

Key mechanisms to identify environmental shortcomings associated with Public-Private-Partnerships (PPP) projects such as Gautrain (South Africa) include: Design Reviews, Specialist Monitoring/Auditing, Community/Media Involvement, and Ongoing EMP Revision.

Assessment of the Diffusion of Best Management Practices in Tanzania

Madaka Tumbo, Basilio Verduzco, Sergio H. Contreras

Lack of information regarding BMP, inadequacy of pollution management training, and lack of corporate environmental policy are among the major factors that contribute to poor awareness of BMP and its diffusion in Tanzania.

An Urgent Need for Corporate Responsibilities in Environmental Management: Some Pilot Cases in Ethiopia

Asferachew Abate

EIA enforcement is weak in Ethiopia. Corporations can play significant role in mitigating damages resulting from poor EIA. This paper investigates the potential of corporations to make their business green.

MEETING ROOM 4

CS2.5 Institutional Capacity Building: How to Deal Effectively With People in the Community on Contentious Projects

Topic Stream: Community & Stakeholders
Chairs: Sally Pickard, Paul McLeod
Format: Panel discussion

Increasingly, private and public institutions are recognising the need to adopt risk-oriented, participatory communications techniques. This session will discuss directions in social risk management that are emerging as normal business practice. The panel will present case studies that demonstrate practical application of skills in risk assessment and environmental impact assessment.

Overview of Social Risk Management and Impact Assessment

Paul McLeod

Social Acceptance of Community Engagement in Australian Plantation Management

Lain Dare, Jacki Shirmer, Frank Vancley

The social acceptance of CE processes is essential for legitimate outcomes. Recommendations for improving plantation forestry CE are given including information sharing, informal and formal outcomes and fostering staff relationships.

After the 2004 Tsunami: The Role of Community EIA in Post-Disaster Recovery

Harry Spaling

This paper explores the sustainability of local reconstruction projects following the 2004 tsunami relating to managing environmental resources and presents a case study of housing reconstruction in Indonesia.

Using Limits of Acceptable Change (LAC) To Set Wetland Management Priorities

Sabrina Genter

Application of the Limits of Acceptable Change (LAC) planning process in setting wetland management priorities on the Gngangara Mound in Western Australia.

Panel member

Alexandra Blood

MEETING ROOM 5

CS2.6 Improving Professional Practice: The Role of Accreditation/Certification

Topic Stream: Learning and Professional Development

Chair: Bill Haylock (EIANZ)

Format: Panel discussion

What are professional standards in environmental practice? What are the roles of ethical codes, certification and professional standards in delivering improved practice and better enhanced environmental outcomes? If we can create standards that are acceptable to the whole community, governments, and the profession, we will deliver a credible profession resulting in better environmental outcomes on the ground.

Panelists

Karlheinz Spitz (Germany and Indonesia)

Bryce Skarratt (Australia)

Alan Chenoweth (Australia)

Bill Ross (Canada)

Susie Brownie (South Africa)

MEETING ROOM 6

Sponsored by DEWHA

CS2.7 Excellence in Marine and Coastal Impact Assessment: Dredging Focus

Topic Stream: Sectoral Perspectives

Chair: Jim Stoddart

Format: Paper session

The booming mineral resource sector has created a booming global dredging industry for deeper and wider navigation channels. In some cases the proposed dredging has environmental impacts on corals, seagrasses and threatened species. This session will present the most up to date information that will lead to improved planning, monitoring, and management of dredging.

How Far Should We Push Precision in Monitoring Coral Reefs?

Jim Stoddart

Requirements to detect very small changes in coral communities during validation of impact assessments make it hard to separate impacts from natural processes.

Habitat Tolerance and the Assessment and Management of Marine Impacts

Riku Koskela

Environmental impacts of marine and coastal construction can be mitigated when understanding of physical constraints and biological tolerances is used in a targeted monitoring program designed to trigger management response.

Dredging Near Sensitive Marine Environments: Quantifying Sediment Plume Impacts

Tom Foster

Describes modeling techniques.

Managing Environmental Quality: A Framework For EIA In WA Coastal Waters

Kevin McAlpine, Ray Masini, Cameron Sim

An environmental quality management framework is developed and applied to the marine waters of Western Australia for predicting and managing environmental risk associated with proposed discharges to the marine environment.

Environmental Impact Assessment of Large-Scale Marine Dredging Proposals

Ray Masini, Cameron Sim, Kevin McAlpine

Outlines the challenges associated with the EIA of large-scale dredging projects in WA and presents an ecologically- and spatially-based framework for describing impacts and approvals.

Modeling Tools in Marine and Coastal Impact Assessment

Maarten Kuijper, Paul Erftemeijer

Impact assessments carried out in these marine and coastal areas fall short of any quantitative estimate of the magnitude and extent of impacts. A range of techniques are discussed to reduce the inherent uncertainty of impact assessment

MEETING ROOM 7

CS2.8 Application of SEA and the EU SEA Directive (1)

Topic Streams: Strategic Environmental

Assessment, Regional Perspectives

Chair: Ralf Aschemann

Format: Paper session

Four years ago the EU SEA Directive entered into force. Thus, it's time to do a first inventory of the experiences made and lessons learned when applying the Directive. Moreover, general SEA application issues will be reflected as well like predicting effects, cumulative effects, the environmental report and the sustainable development context.

Application of the SEA Directive in the UK: Is It Having an Effect?

Tanya Burdett

SEA in the UK is contributing to plan sustainability, transparency of process, and engagement of a range of stakeholders early in the decision making process, but there's room for improvement!

Cumulative Effects in SEA: The UK Perspective

Alex White

The assessment of cumulative effects in the UK is not always dealt with in a comprehensive and coherent way. This paper discusses current practice and possible solutions.

Using SEA to Mainstream Sustainable Development: The Scottish Example

Anthony Jackson, Barbara Illsley

The Scottish extension of SEA to all public sector policies, plans and programmes is assessed, and its use of a Gateway to administer the system and mainstream sustainable development is evaluated.

What Happens Next? Predicting Effects in SEA

Alex White

The consideration of significant effects in SEA can sometimes be convoluted and abstract. This paper discusses current problems and invites discussion of possible solutions.

MEETING ROOM 8

CS2.9 Cultural Heritage and Impact Assessment (1)

Topic Stream: Cultural & Indigenous Issues

Chairs: Arlene Fleming, Julio de Jesus

Format: Paper session (followed by workshop in next session)

Environmental Impact Assessment and Strategic Environmental Assessment require an integrated analysis of biophysical, social and cultural heritage impacts of development projects or strategies. The cultural heritage component often is weak. Paper presentations in this session will provide suggestions for improvement, providing input into a workshop to draft Best Practice Principles for Cultural Heritage Impact Assessment.

Cultural Impact Assessment in Urban Planning: A Sketch for a Framework

Timo Heikkinen

The presentation considers the cultural dimension of social impact assessment in urban and regional planning and sketches a framework for cultural impact assessment in this context.

Cultural Heritage in Norwegian EIA and SEA: Policy and Practice

Inge Lindblom

The paper focuses on challenges and potential for improvements in EIA and SEA in light of the Norwegian policy and practice on cultural heritage.

Integrating Cultural Landscape Approaches into Cultural Heritage Impact Assessment

Stephen Brown

A set of cultural landscape principles, developed for application to protected area landscape management in New South Wales, Australia, will be presented for consideration in preparing Best Practice Principles.

Maori Cultural Impact Assessment and Mapping

Antoine Coffin

This presentation explores the challenges of Maori cultural impact assessments prepared by indigenous peoples of Tauranga, New Zealand, to avoid the degradation and destruction of cultural resources.

Integrating Cultural Heritage Issues with Environmental Impact Assessments: Problems and Solutions

Robert de Jong

Assessing problems associated with terminology, legislation, coordination, processes, planning, awareness and capacity could inform policies, plans and other solutions aimed at integrating cultural heritage with environmental impact assessment processes.

Understanding the Nuances of Cultural Heritage for Impact Assessment

Richard Akoto

Intricacies of cultural heritage in view of impact assessment and a framework for a typical project are presented as follows: valuation tools; negotiation approaches; and sustainable implementation.

MEETING ROOM 9

Concurrent Sessions

Concurrent Session 2 • Wednesday 7 May • 14:00-15:30 pm

CS2.10 Planning for Sustainability

Topic Stream: Strategic Environmental Assessment
Chair: Andrea Jardine-Orr
Format: Paper session

Sustainability is recognized as central to planning at all levels yet is difficult to implement. The session discusses international experience in the introduction of sustainability measures within national, state and local government and their agencies.

Introducing Sustainability Assessment in Flanders, Belgium

Jean Hugé, Luc Hens
The introduction of sustainability assessment in Flanders is part of the institutionalisation process of sustainable development as a guiding policy principle. Sustainability assessment is presented both as a process and as a tool fostering the gradual transition towards a more sustainable future.

If You Fail to Plan, You Plan to Fail

Ruth Massey
This paper investigates the South African Western Cape Provincial Government's Spatial Development Framework (WCPSDF) and the integration of planning and environmental sectors in process and practice.

Towards Sustainability Assessment in the Western Australian Planning System

Andrea Jardine-Orr, Bryce Bunny
The paper explores how sustainability principles, criteria and assessment can provide a framework to influence decision-making at different levels within the planning system in Western Australia.

Piloting Sustainability Appraisal on PPP in New Zealand

Martin Ward, Mark Dacombe, Bob Frame
Sustainability Appraisal at policy and programme level requires situation specific approaches and careful trialling to gain policy makers acceptance and political buy-in.

Adapting Sustainable Development Indices to Local Level in Flanders, Belgium

Kristof Vlaeminck
In order to develop guidance for locally adapted sustainable development indices, the strengths and weaknesses of each index will be discussed, while focussing on their suitability for decision-making at the municipal level.

MEETING ROOM 10

CS2.11 Retooling EIA for Optimizing Biodiversity Conservation in Development Decisions

Topic Stream: Biodiversity
Chairs: Asha Rajvanshi, Vinod Mathur (Biodiversity & Ecology Section)
Format: Paper session

An important challenge that confronts the EA community is to improve the EIA practice for mainstreaming biodiversity in development. This session aims at providing a platform to EIA professionals for sharing tools and methodologies that can significantly influence EIA's functional role of informing, influencing and integrating biodiversity in decision processes.

The Approach to Field Investigations of Vertebrate Fauna in Environmental Impact Assessment

Mike Bamford, Wes Bancroft, Mandy Bamford
Faunal investigations during environmental impact assessment should involve targeted investigations on significant species, significant habitats, ecosystem processes, patterns of biodiversity and collection of baseline data, rather than detailed inventory surveys.

Best Practice in Terrestrial Vertebrate Fauna Assessments for EIA's

Graham Thompson, Scott Thompson
This presentation will draw on five years of research in Western Australia and outline the authors' view on what is best practice in terrestrial fauna assessments

The Need to Retool Australian EIA to Conserve Biodiversity Impacted by Forestry

Tom Baxter
In 2007, legislative amendments and court judgments prevented Australian EIA considering adverse impacts of most forestry operations. This enabled 50-year approval of Gunns Limited's pulp mill. The law needs reform.

To Facilitate the Incorporation of Biodiversity in Impact Assessments in Sweden

Ulf Sandstrom
A matrix of the levels of biodiversity in combination with composition, structure and key processes applied in the EIA process would improve the incorporation of biodiversity values in impact assessment.

Trade-Offs: Restoring A RAMSAR Wetland and Its Impact Risk on Marine Habitats

Tilo Massenbauer, Steven Thomas, Gabriel Martinez
The quest for economic prosperity often results in environmental impact. Managing these impacts can result in an activity benefiting one biodiversity asset and impacting another. How to make such trade-offs?

Long-Term Compensatory Measures in EIA: Agri-Environmental Schemes in An Airport

Juan Jose Oñate, Francisco Suárez, Israel Hervás, David Pérez
Implementation of compensatory measures in the form of agri-environmental measures is hindered by both their large spatial and time spans.

MEETING ROOM 11

CS2.12 Environmental Governance and the Politics of Environmental Assessment (1)

Topic Stream: Governance
Chair: Tabatha Wallington
Format: Paper session

The idea of environmental governance implies a shift towards decentralized and collaborative approaches to environmental assessment (EA). Drawing on examples from several countries, the papers in this session explore the changing values associated with public involvement in EA, as well as the wider relationship between EA and its socio-political context.

Getting Around the "Me" Syndrome: A Guide for Proponents and Consultants

I-Lyn Loo
Effective stakeholder consultation facilitates better informed outcomes and improved timelines. The influence of intangible factors (e.g., public perception, "not in my back yard" syndrome, etc.) in EIA will be investigated using WA examples.

Desalination Plants and Their Social Impacts: A Case Study

Suzanne Brown, Jo Madin
Social impacts (perceived and real) due to the construction and operation of a proposed large reverse osmosis desalination plant at Binningup, WA, are described, and their management discussed.

The New Airport of Lisbon: The History of a Decision-Making Process

Miguel Coutinho, Maria Rosario Partidário
The Portuguese government reversed its decision about the location of the new airport of Lisbon based on the conclusions of two strategic assessment studies that will be described in this paper.

SEA of Four Government Bills: The Influence of Public Involvement on the Political Process

Lone Kørnøv
How and to what extent does public involvement influence the formal political debate and the decisional outcome related to four cases with SEA of government bills?

MEETING ROOM 12

CS2.13 Health Impact Assessment of Dams: An Update of the Situation

Topic Stream: Social & Health Impacts
Chair: Peter Furu (HIA Section)
Format:

WHO HIA capacity building will be discussed. We will hear an interim review of the Nam Theun 2 hydroelectric project, including results of the Health Checks Survey. The predictive power of the pre-project HIA will be discussed as well as interventions to improve health.

e-learning – A New Approach In Health Impact Assessment Capacity Building

Peter Furu, Robert Bos, Heike Koch, Michael Weise, Tanja Schweing
Paper/presentation will cover the concept and principles behind the e-learning approach to HIA capacity building, and examples of the format from the six modules.

Nam Theun 2 Hydroelectric Project, Lao PDR: Interim Evaluation and Update of HIA

Gary Krieger, Burton Singer, Tobias Erlanger, Peter Odermatt, Juerg Utzinger

An interim review of the Nam Theun 2 hydroelectric project will be presented, emphasizing the predictive power of the pre-project HIA. Lessons for long-term monitoring in future development projects will be discussed.

Mitigation of Health Impacts on a Resettled Population in Lao PDR

Pany Sananikhom, Surinder Kaul, Silavong Aeoudom, Lattanavong Lattavanh

The results of the Health Checks and Survey conducted by Nam Theun 2 Health Team will be discussed. Important interventions to improve health will be examined and early results presented.

EXECUTIVE BOARDROOM

CS2.14 Integrating Risk and EIA

Topic Stream: Tools and Techniques

Chair: Trevor Blake

Format: Workshop

Three practitioners will outline their experience in using risk assessment tools to support impact assessment, especially EIA. A discussion and exchange amongst participants in the session will then follow in relation to the assessment and management of risk events as part of integrated systems for decision-making.

EPRA: A Tool for Integrated Risk and Impact Assessment in Business Development

Sigurd Juel Kinn

A methodological approach and web-based IT tool for integrated assessment and management of key health, safety, security and environmental issues, together with business integrity and social responsibility issues, will be described.

Use of Risk Assessment in EIA: Support Player or Main Event?

David Hyett

Paper examines use of risk assessment (RA) in EIA for the Channel Deepening Project in Victoria, Australia. Issues associated with applying RA in this EIA process and more generally will be discussed.

Implementing a Risk-Based Approach to EIA in Victoria, Australia

Trevor Blake

Potential for use of a risk-based approach at different stages of the EIA process are discussed in the context of the formal system and current practice in Victoria, Australia.

MEDIA ROOM

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Concurrent Sessions

Concurrent Session 3 • Wednesday 7 May • 16:00-17:30 pm

CS3.1 Asian SEA, EIA and Sustainability Assessment: SEA System and Practices

Topic Stream: Regional Perspectives
Chairs: Young-il Song, Kii Hayashi
Format: Paper session

This session invites experiences, good practices and lessons learned in Asian SEA system and practices. It is a meaningful follow-up of "SEA/EIA development and cases in Asia" held in IAIA06 and the "Asian SEA, EIA and Sustainability Assessment" session at IAIA07.

Integration of SEA and SD for Sustainable Society

Young-il Song, Ho-Seok Kim

It reviews the concept of SD, SEA, and key elements of SEA for accessing sustainability. It is ultimately aimed at helping practitioners understand the role of SEA for achieving sustainability.

The EclA of Urban Development Policies: A Case Study of Rizhao City, China

Shujun Wang, Daqian Wu, Jian Liu, Lijun Ren, Renqing Wang, Yutao Wang

The urban development policies of Rizhao City have influenced the biodiversity, population structure, habitats and ecosystem services of the terrestrial and marine ecosystem locally and regionally.

Studying on Relationship with Macro Environmental Strategy and SEA

Haoyun Huang

China's environmental protection work realizes that sustainable development is very important to China, similarly to the world environment and development. Strengthening environmental management is the most important work.

Research on Strategic Environmental Assessment of Urban Micro Environment Chargement

Hongyu Wang, Zhe Ma and Weihua Liang

Strengthens the urban environment supervisory work unceasingly, serves economic development, realizes the economy to be prosperous and powerful, and improves the environment.

MEETING ROOM 1

CS3.2 How Can Impact Assessment Enhance Benefit Sharing with Local Communities?

Topic Stream: Community & Stakeholders
Chairs: Peter Leonard, Navin Rai
Format: Paper session

This session follows on from theme forum 2.2 in exploring ways in which benefits from major projects can be shared with the communities directly affected by them.

Local Economic Development as a Theoretical Framework for EIS

Dora Carías

Local Economic Development was used as the theoretical framework for the Reventazón hydroelectric project's EIS. This framework justified the project owner's promotion of local development strategies.

Benefit Sharing, Public Participation in NR Management: The Case of 3 PAs

Mesfin Admasu

In order to realize positive impacts in natural resources management community members' participation has to be supported by benefit sharing.

Social Conflicts Resolution in Development of Mining Basins in Serbia

Tamara Maricic

Importance of public involvement in planning (and EA) of mining basins for resolving potential social conflicts between mining companies and local communities. Example: relocation of settlements in Kolubara Mining Basin.

Does the EIA Process Facilitate the Siting of Locally Unwanted Landuses in Compact Cities? The Case of Hong Kong

Kin Che Lam, Lai Yan Woo

The paper examines the role and limitations of EIA process in siting of locally unwanted landuses in Hong Kong. There is scope to enhance the scope and public engagement strategy.

MEETING ROOM 2

CS3.3 Climate Change Responses

Topic Stream: Climate Change
Chairs: Niall Enright, Dianne Buchan
Format: Paper Session

How do we measure the effectiveness of our climate change efforts at international, national, and organization level? How are individuals responding to the challenges and risks that mitigation and adaptation pose and what are the drivers to change behaviour? Practitioners from 4 continents will address these important questions.

Impact Assessment and Global Discourse

Jae Seok Yun, Kukmin Daily

An Interjurisdictional Review of the Effectiveness and Challenges of EIA Greenhouse Gas Assessment

Tristy Fairfield

This paper reviews the EIA processes for assessing greenhouse gas emissions in multiple jurisdictions and evaluates their effectiveness in enabling GHG emission reduction targets to be met.

Evaluating Climate Change Mitigation: Practical Tools to Inform Decision-Makers

Niall Enright

A review of a number of practical techniques available which enable the impact of complex climate change mitigation projects to be objectively assessed, and key decision-makers informed.

Local Policies and Actions on The Global Warming Issue: The Case Of San Luis Potosi, Mexico

Jaime Martinez Garcia, Viridiana Urbina Ortiz, Cynthia Luna Teran, David Vega Niño, Gerardo Castañon Nieto

A study on 400 households from a Mexican city was conducted to identify the degree of information, attitudes and policy options on the local contribution of vehicle emissions to global warming.

Measures with Meaning: Achieving Sustained Personal Responses to Climate Change

Dianne Buchan

Demonstrating results and the ease with which success can be measured are fundamental factors in bringing about behaviour change. This poses significant challenges for climate change and for impact assessment.

Adaptation Mechanism of Local Communities to Climate Change In Morocco

Abdelali Laamari, Hassan Benaouda, Mohamed Boughlal

Climate changes, natural resources degradation, risk behavior, adaptation mechanisms.

MEETING ROOM 3

CS3.4 Innovations in Participation: World Café for Impact Assessment Effectiveness

Special Sessions: Innovations in Participation
Facilitator: Janette Hartz-Karp

This is the second in of the special sessions offering an opportunity to experience an innovative participatory decision-making process. Building on Tuesday's 21st Century Dialogue, this session will guide participants deeper into the issue of impact assessment effectiveness using a World Café format (see page 20 for more information about World Café).

MEETING ROOMS 4 & 5 (COMBINED)

Sponsored by BHPBilliton

CS3.6 Environmental Careers Seminar

Topic Stream: Learning & Professional Development
Chair: tba
Format: Panel discussion

The Environmental Career Center (ECC) will coordinate the third annual IAIA Environmental Careers Seminar. Come to this session ready with your questions on what it takes to prepare for, enter and advance in a rewarding career of protecting the environment. The panel of experts includes four environmental employers who are currently seeking staff and/or who have the knowledge and passion for helping others gain employment.

MEETING ROOM 6

CS3.7 Excellence in Marine and Coastal Impact Assessment: Industry Focus

Topic Stream: Sectoral Perspectives
Chair: James Monkivitch
Format: Paper session

Which industries have significant impacts on marine and coastal environments and which are sustainable and best practice? International experts on oil spills, coral transplantation, and sea cage aquaculture will discuss best practice monitoring, risk and strategic environmental assessment and communication to achieve sustainable economic, social and environmental outcomes across a range of industrial sectors.

EIA for Sustainable Tourism: A Case Study from the Great Barrier Reef Marine Park

James Monkivitch

Presents the EIA process highlighting key elements and providing summary pilot study

results demonstrating the value of EIA and application of evidence based guidelines in managing valuable natural resources.

Environmental Assessment in the Oil Spill Accident Sites

Jong-Gwan Jung, Gab-Sue Jang

Accidents from oil spills occur and shoreline assessment techniques SCAT (Shoreline Cleanup Assessment Techniques) and data management system may be used to estimate the extent of damages.

EIA at a Range of Spatial Scales: Managing Shipping in the Great Barrier Reef

James Monkivich

Presents the EIA process and value for managing shipping in the Great Barrier Reef, highlighting key elements, the range of spatial scales, from international to site specific and collaborations required.

Establishing Sustainable Capacity Thresholds for Tropical Seacage Aquaculture

David McKinnon, Lindsay Trott, Halmar Halide, Richard Brinkman, Dan Alongi, Rachman Syah, Britta Schaffelke

A multidisciplinary approach is used to quantify the environmental effects of tropical finfish cage culture and to provide a decision support system for regulation of this rapidly expanding industry.

Environmental Impact Assessment of a Major Military Exercise in a World Heritage Area

Colin Trinder

The presentation will outline how the process for considering environmental impacts for a major defense exercise and present some of the results.

MEETING ROOM 7

CS3.8 Application of SEA and the EU SEA Directive (2)

Topic Stream: Strategic Environmental Assessment, Regional Perspectives

Chair: Ralf Aschemann

Format: Paper session

This is the second of two sessions exploring lessons learned in the application of the EU SEA Directive, which entered into force four years ago, as well as general SEA application issues like predicting effects, cumulative effects, the environmental report and the sustainable development context.

Matching EU Directives: The Application of SEA in a Water Framework Directive

Malin Larsson, Monica Hammer, Berit Balfors

How can a water district in Sweden avoid duplication of work when assessing a program of measure that aims to improve the quality of water? Collaboration strategy and effective connection.

Relating Environmental Accounting Indicators and SEA: The Case of Energy Policy

David Pereira, Juan J. Oñate, Andrés Rodríguez Alarcón

We explore the relationships between indicators for the assessment of progress towards sustainable development and strategic environmental assessment (SEA) procedures and methodologies, using the energy policy as a case study.

Do SEA Reports Help the Drive For Environmental Justice?

Anna McLauchlan, Elsa João

This paper evaluates SEA's potential to contribute to environmental justice through an examination of the quality, comprehensiveness and clarity of Scottish environmental reports completed from July 2004 to February 2008.

Environmental Policy in South-Eastern Europe-Sustainable Development

Gani Berisha, Naim Alidema

To strengthen institutional structures to allow full integration of environmental and developmental issues at all levels of decision-making, a national strategy for sustainable development has to be developed and implemented.

MEETING ROOM 8

CS3.9 Cultural Heritage and Impact Assessment: Workshop (2)

Topic Stream: Cultural & Indigenous Issues

Chairs: Arlene Fleming, Julio de Jesus

Format: Short presentations followed by workshop

Environmental impact assessment and strategic environmental assessment require an integrated analysis of biophysical, social and cultural heritage impacts of development projects or strategies. The cultural heritage component often is weak. This workshop will draw upon presentations made in the previous session to draft Best Practice Principles for Cultural Heritage Impact Assessment.

Standards of International Cultural and Financial Institutions for Cultural Heritage

Arlene Fleming

Standards of international cultural organizations, including UNESCO and ICOMOS, and those of development institutions, will be summarized and considered prior to drafting Best Practice Principles for Cultural Heritage Impact Assessment.

Cultural Heritage, Impact Assessment and the Council of Europe Conventions

Julio de Jesus

The Council of Europe conventions on cultural heritage, landscape and protection of minorities and cultural diversity are important references for the definition of Best Practice Principles for Cultural Heritage Impact Assessment.

Determining Significance and Measuring Impacts to Guide Development at World Heritage Sites

Ron van Oers

World Heritage Sites are threatened by development projects in their environs, prompting UNESCO member states to request principles and guidelines for protecting and managing sites within the development context.

MEETING ROOM 9

CS3.10 Environmental Assessment and International Development: Learning About How to Make EA Work in Differing Development Contexts

Topic Stream: International Development

Chair: David Annandale

Format: Paper Session

In this session we will be introduced to how we are learning about EA and how our generic understanding about how EA "should work" is being supplemented by experiences from different jurisdictions. The session also focuses on how these context-specific lessons are informing attempts to build stronger capacity in developing countries.

Hydropower Plants in Mexico: Social and Environmental Challenges

Francisco Hernandez Alvarez, Guillermo Zúñiga Gutiérrez

This presentation will examine the issue of "big projects" as elements for promoting regional sustainable development including social and environmental impact assessment as tools for promoting integrated projects.

Equivalence of Country EA Systems and the World Bank Safeguards

Julieta Pisanty-Levy

This presentation focuses on a case study about the equivalence between Mexican Environmental and Social Assessment Systems and World Bank safeguards, including a brief description of the methodology used.

Grassroots Communities and Impact Assessment: Influencing Environmental Decisions

Douglas Ouma

By implementing the Wajir code of conduct, the crossborder communities in Eastern Africa have reduced social and transboundary conflicts, increased income and cross border trade, and improved the local economy and local governance.

Capacity Development Opportunities in Developing Countries

Anna Axelsson

SIDA's Helpdesk for Environmental Assessment supports capacity development in EA in developing countries and is seeking to liaise with networks and organisations that are implementing change projects and processes for improved environmental management.

MEETING ROOM 10

CS3.11 Biodiversity in Impact Assessment: Tools and Techniques

Topic Stream: Biodiversity

Chairs: Arend Kolhof, Susie Brownlie (Biodiversity & Ecology Section)

Format: Paper Session

The growing recognition of the vital importance of biodiversity has been well captured in global conservation agendas. Efforts are being made in different countries to adopt innovative tools and technologies to reduce the impacts of development projects on biodiversity. This session is aimed at sharing experience from different countries.

Concurrent Sessions

Concurrent Session 3 • Wednesday 7 May • 16:00-17:30 pm

The Cumulative Effects Of Resource Exploitation Activities on Marine Biodiversity along the Niger Delta Coast Of Nigeria

Mohammed Hamadina, Elijah Ohimain
Niger Delta is a hub of resource exploitation, which affects marine wildlife adversely. This paper addresses cumulative effects of activities on marine wildlife in the Niger Delta.

Cooperative Model within the Local Community for Endangered Plant Species

Heung-Lak Choung, Dong-Ok Lim, Hyun-Woo Lee
When the ecological information on endangered plant species was shared with the local community, builders and residents showed great interest and displayed a will to help with conservation efforts.

A Case Study of the First Application of Habitat Evaluation Procedure to Japan

Akira Tanaka
The first application of quantitative Habitat Evaluation Procedure to an EIA in Japan proved it contributes to create substantial mitigation measures for wildlife habitat conservation though HEP team's discussions.

Tree Species' Characteristics That Influence Vulnerability to Climate Change

Gordon Hickey, Craig Nitschke
An analysis of the driving variables that determined individual tree species' vulnerability and/or resilience to predicted climate change in the Central Highlands region of Victoria, Australia.

Scale Sensitivity of Species Distribution Models for Conservation Planning

Changwan Seo, James Thorne, Lee Hannah, Wilfried Thuiller
Conservation planners should consider the potential disconnect between scales at which global climate model outputs are derived and the scales at which species experience their environment for planning future refugia.

MEETING ROOM 11

CS3.12 Environmental Governance and the Politics of Environmental Assessment (2)

Topic Stream: Governance
Chair: Tabatha Wallington
Format: Paper session

The idea of environmental governance implies a shift towards decentralised and collaborative approaches to environmental assessment (EA). Drawing on examples from several countries, the papers in this session explore the changing values associated with public involvement in EA, as well as the wider relationship between EA and its socio-political context.

Getting an Outcome, But Whose Outcome?

Bryce Skarratt
An approvals focused outcome may not be the best outcome for all stakeholders. A more holistic approach to impact assessment from concept to decommissioning will result in better outcomes.

Community and Environmental Planning: Scottish and NZ Perspectives

Anthony Jackson, Jennifer Dixon, Barbara Illsley
The paper considers whether emerging community planning processes in Scotland and New Zealand can offer strategic tools for sustainable development and complement statutory environmental planning processes including SEA.

Managing the Oil Palm Boom: Assessing the Effectiveness of Environmental Governance Approaches to Agro-industrial Pollution in Indonesia

John McCarthy, Zahari Zen
This paper examines the effectiveness of governance approaches in addressing the failure of legal instruments to control the widespread pollution associated with the currently booming plantation sector in Indonesia.

The New World Order and Impact Assessment

Jim Singleton
The paper addresses the implications of the new world order in the form of the open info-sphere revolution and the power of the Web-2 for global participation in impact assessment.

MEETING ROOM 12

CS3.13 HIA Guidance and Standards (1)

Topic Stream: Social & Health Impacts
Chair: Ben Harris-Roxas (HIA Section)
Format: Paper Session

HIA is maturing as a discipline and guidance and standards for its practice are assuming an increasing importance. Four speakers will present different perspectives including extractive industries in polar climates, HIA in new EU member countries, quantification of effects and capacity building issues.

Developing an HIA Methodology for Projects in Polar Climates

Gary Krieger
Polar climates present a unique set of community health issues for extractive industry projects. The development of an appropriate HIA methodology for the polar environment is presented.

Methods to Quantify Determinants for Health Objective Goals

Ulf Lindblom
Describes a model to make the assessment of health-objective determinants step by step with quantitative methods and to quantify health-effects in for example a HIA.

Addressing the Social Determinants of Health through Health Impact Assessment Methods and Strategies

Matt Soeberg, Marco Martuzzi
This paper sets out a framework for systematically addressing social determinants of health in HIA with a particular focus on new EU member countries.

Health Impact Assessments in New Projects: What Are They and What Can They Do?

Mark Divall, Francesca Vilianni
Health impact assessments are increasingly important for development projects, but

understanding and expectations differ widely. Experiences from recent HIAs highlight the need for better guidelines and training on timing/methods.

EXECUTIVE BOARDROOM

CS3.14 Impact Assessment in the Energy Sector

Topic Stream: Sectoral Perspectives
Chair: Rocio Diaz-Chavez
Format: Paper Session

This session aims to bring together practitioners working in all fields of the energy sector (conventional and renewable) and discuss the contributions of Impact Assessment in practice through case studies using different tools and methodologies (e.g. IA, EA, SEA) for planning and assessment.

Maximising Sustainability in a Coal-Fired Power Station

Jenny Becher, Stephen Jones, Sonia Finucane
A discussion of the key considerations for the maximisation of sustainability in a coal-fired power station using the Coolimba Power Project as a case study.

Evolving Impact Assessment Practice for UK Nuclear Power Station Projects (old and new)

John Glasson
"Out with the old and in with the new"—this paper explores the evolving impact assessment procedures and practice in the UK for both decommissioning and new-build nuclear projects.

Strategic Environmental Assessment for Indian Petroleum Refining Sector

Pawan Labhasetwar, Chandrakant Moghe, Satish Wate, Rajesh Gupta
This paper presents the data collected onsite and offsite for the refineries in India beside analysis of policies related to Indian petroleum refining sector which were used for SER and SEA.

Evolution of Impact Assessment in the National Power Company of Mexico

Guillermo Zúñiga Gutiérrez, Francisco Hernandez Alvarez
Environmental impact assessment evolution for electrical projects in Mexico. Environmental issues for taking decisions about new electrical facilities. Promoting regional sustainable development.

Evaluating the Effectiveness of Environmental Assessment (EA) for Wind Energy

John Phylip-Jones, Thomas Fischer
Evaluation of benefits of EA application in relation to wind energy policies, plans, programmes and projects in the UK and Germany, highlighting the EA influence on spatial planning of wind energy proposals.

Affordable Energy: Recovered Waste Oil to the Rescue

Aaron Asante-Addai

MEDIA ROOM



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Concurrent Session 4 • Thursday 8 May • 08:30-10:30

CS4.1 Oil for Development Workshop: Building a Global Network

Topic Stream: Oil for Development
Chairs: Peter Croal, Arne Dalfelt
Format: Workshop

Oil and gas development activities affect people, positively and negatively. These impacts go much further than those the industry normally considers. These are impacts on indigenous people, local communities and their economy, biodiversity and species survival, long term climate effects and many more. This session will discuss the desirability of forming a global network for the sharing of information relating to social and environmental impacts associated with oil and gas exploration and development.

International Cooperation and Impact Assessment as a Tool to Strengthen Governance and Corporate Social Responsibility in the Oil and Gas Industries

Terje Lind

Public Participation in Impact Assessment and the Involvement of Indigenous People.

Peter Croal

Experiences from Building an Impact Assessment Capacity Building Network in Africa

Arne Dalfelt

IAIA09 in Accra, Ghana: Networking Opportunities with the Local Oil and Gas Industry

Jonathan Allotey

MEETING ROOM 1

CS4.2 EIA/SEA Teaching and Education

Topic Stream: Learning and Professional Development
Chairs: Luis E. Sánchez, Sachihiko Harashina
Format: Paper Session

The session focuses on sharing experience in teaching EIA/SEA at both undergraduate and graduate levels. In this first session, papers will be presented on a variety of topics related to teaching approaches and course contents. This will be followed by a later workshop.

Teaching EIA - From Theory to Practice and Classroom to Internet

Larry Canter

The evolving topics and modes of EIA teaching are described, including the use of e-learning. Lessons include the need for analysis and synthesis, use of scientific information, case studies.

Lecturing EIA and SEA Particularly In Non-Environmental Engineering Courses

Maria Partidário

Education on EIA and SEA in non-environmental oriented courses. Teaching techniques, content and structure of courses and how students are motivated to the themes of EIA and SEA.

Teaching EA: How to Achieve the Balance of Knowledge and Skills

Olena Borysova

How to make a university system that has excelled in discipline-specific investigations of basic science, but has not put an emphasis on interdisciplinary thinking and problem solving, fit for EA graduate teaching?

EIA Teaching at the University of São Paulo: Evolving Approaches to Different Needs

Luis Sánchez

The paper explores differences between teaching EIA to different audiences, focusing on the needs of undergraduate students. Course outline and practical activities are presented and related to intended skills development.

Engaging Students in Environmental Impact Assessment Scoping Processes

Leonard Ortolano

Approaches to teaching scoping at Stanford University in California involve having students prepare *ex ante* terms of reference for a past project and comparing results with actual outcomes and with an *ex ante* TOR prepared by computer.

Integrated SEA Capacity Development: Case Studies from International Development Cooperation

Frida Arounsavath, Anna Francis

Three case studies on integrated SEA Capacity Development—from Vietnam, China and

Concurrent Sessions

Concurrent Session 4 • Thursday 8 May • 08:30-10:30

international training programmes—are presented, using Sida's strategy on capacity development as a conceptual framework.

How to Carry Out Successful Training in an International Context

Sandra Rihm

Training for knowledge sharing is important for dissemination of your environmental assessment experience. In this paper you have the opportunity to learn from our extensive experience in international EA training.

MEETING ROOM 2

CS4.3 Dimensions of IA Effectiveness

Topic Stream: Effectiveness

Chairs: Richard Morgan, Bobbi Schijf

Format: Practitioner Exchange

Effectiveness is a multifaceted concept, and all dimensions need to be brought together if we are to understand the influences on IA. Short presentations address institutional/procedural issues, guidance and quality control, effectiveness of specific forms of IA, and learning from practice, and future options for IA.

More Effective EIA in Developing Countries: Requirements for EIA Systems that Work: An Example from Yemen

Arend Kolhoff

The national context influences EIA systems performance and EIA effectiveness. The linkages between the context and EIA system performance are identified and illustrated based on research in Yemen.

Examining Models of Effectiveness for Environmental Impact Assessment, with Focus on Climate Change

Vong Sok

The purpose of this research is to investigate existing EIA theoretical frameworks from various nations and organizations with focusing on climate change and to develop practical models for ensuring the effectiveness of EIA implementation.

Evaluating Environmental Performance in the North Sea: A Review of the Quality of Regulatory Environmental Assessment Processes and Procedures

Adam Barker, Carys Jones

Based on the review of Environment Statements submitted for oil and gas projects for between 2002-2005, this paper considers the adequacy of EIA provisions in the North Sea.

When and Why EIAs Have Been Made In Sweden: A Baseline for Effectiveness Progress

Johan Rodéhn

Are EIAs carried out when they really can affect activities? An investigation made by the Swedish EIA-centre showing when and why EIAs have been made will be presented.

Development Assistance For Environmental Assessment: How Do We Find Out If It Is Working?

Bobbi Schijf, Arend Kolhoff, Ineke Steinhauer

EIA effectiveness mapping is a smart tool assessing the quality of the EIA regulatory framework in a country and compliance in practice. It has been applied in 10 African countries.

Effects and Lessons of Environmental and Social Consideration of JICA

Takehiko Murayama

Through activities of a third-party review committee, the effects and lessons of the revised guideline of Japan International Cooperation Agency will be provided.

Decentralized Management of EIA and Quality Control

Arne Tesli

EIA effectiveness and quality control. National standards and criteria for triggering EIA in different settings, and efficiency of these elements in the quality assurance. The role of the municipality.

Local Authority Guidance for Impact Assessment in New Zealand

Ben Varkalis, Richard Morgan

Each local authority produces guidance on impact assessment for their own area: we look at the quality and variation in this guidance, and the implications for practice across the country.

Modernizing EIA Implementation in the United States: A Status Report

Anne Miller, Horst Greczmiel

Several recommendations were selected by the Council on Environmental Quality for immediate implementation. Three products have been completed and an additional four should be out by the end of 2008.

The Effectiveness of Health Impact Assessment

Teresa Lavin, Owen Metcalfe

This paper reports the outcomes of a recently concluded EU funded project whose aim was to map the use of HIA, evaluate its effectiveness and identify factors for successful implementation.

Evaluating the Impact and Effectiveness of HIA: A Conceptual Framework

Ben Harris-Roxas, Judy Proudfoot, Vanessa Rose, Lynn Kemp, Elizabeth Harris

This presentation reports on a study that was undertaken in order to develop a conceptual framework that reflects the range of impacts of HIA and the factors influencing its effectiveness.

An Evaluation of the Effectiveness of Ecological Impact Assessment in Hong Kong's EIA Process

Cho Nam Ng

This paper attempts to evaluate the effectiveness of ecological impact assessment in Hong Kong through reviewing EIA reports, case examples, and interviewing various stakeholders from academics and conservation groups.

Lessons Learned From an Internal Audit of SEA Practice

Davin de Kergommeaux

An internal audit of SEA practices revealed opportunities for practitioners to audit-proof their work through establishing and following clear criteria for timing of SEAs and content of SEA reports.

Sources of Difficulties of Introducing SEA into a Society: The Japanese Case

Sachihiko Harashina, Takuya Sugimoto, Takashi Shimizutani

To see the current trends of SEA in Japan, the process of creating the common guideline and

the results of a panel survey between 2002 and 2006 will be analyzed.

Assessing the Effectiveness of Environmental Mitigation Measures

Nikki West, Lisa Carr

Using construction environmental management experience to recommend more meaningful, practicable and effective environmental mitigation measures in EIA.

Impact Assessment: The State of the Art, Science, and Craft

Charlie Wolf

The state of the art, science, and craft of impact assessment can be estimated and advanced in regard to four categories of field structure: theoretical, methodological, institutional, and professional development.

MEETING ROOM 3

CS4.4 Innovations in Participation: Open Space for Impact Assessment Effectiveness

Special Sessions: Innovations in Participation

Facilitator: Janette Hartz-Karp

This is the third and final of the special sessions offering an opportunity to experience an innovative participatory decision-making process. Building on Tuesday's 21st Century Dialogue and Wednesday's World Café, this session will continue the creative discussion on impact assessment effectiveness using an Open Space approach (see page 20 for more information about Open Space).

MEETING ROOMS 4 & 5 (COMBINED)

Sponsored by BHPBilliton

CS4.6 Beyond Impact Assessment: The Integration of Social Concepts in Organizational Decision-Making and Culture

Topic Streams: Corporate Perspectives, Social & Health Impacts

Chairs: Sheridan Coakes, Geoff Syme

Format: Workshop and Panel Discussion

The institutionalization of social and sustainability practice within public and private sectors remains an ongoing challenge. The triple bottom line, corporate social responsibility, social assessment and community engagement narrative is firmly entrenched, but their application and integration remain piecemeal. This session explores barriers and facilitating factors that may affect institutionalization of 'the social'.

Implementing the Social Dimension of ESHIA at Chevron

Anthony DiNicola, Jonathon Lilien, Nadeem Anwar

This paper describes issues Chevron has encountered in implementing the social dimension of ESHIA, such as increasing awareness and experience with SIA and solutions developed to overcome them.

Progress and Problems in Shifting to Sustainable Business: OneSteel Whyalla Steelworks (2004-2007)

Scott Phillips

An adapted multi-source feedback methodology was used to research and assess the effectiveness of sustainability initiatives undertaken by a leading Australian steel manufacturer, OneSteel, over a period of four years (2004 to 2007).

Into the Deep End: Effectiveness of Institutional Impact Assessment in the UK

Tanya Burdett, Alex White

This paper will outline areas where UK practice has been successful in integrating SEA-type principles into institutions including assessment of the effects of new policies and legislative proposals.

Implementation of HIA on a Local Level

Mette Fredsguard

The paper describes how the Municipality of Soenderborg is implementing the principles of HIA and what issues emerged during the process. It considers this example in light of the Swedish County Council experience.

Sources of Concern During and After Impact Evaluation: Changes in Social Perspective

Maria Valenzuela-Varela

Surveys conducted during and after impact evaluation are used to analyze changing social perceptions regarding a large hydroelectric project in Western Mexico at a community level.

MEETING ROOM 6

CS4.7 Impact Assessment Feedback Mechanisms

Topic Stream: The State of the Art of Impact Assessment

Chairs: David Atkins, Meg Taylor

Format: Paper session

Impact assessment is meaningful only if feedback mechanisms to evaluate actual impacts are implemented. The effectiveness of proposed measures in preventing and mitigating actual project impacts may only be assessed at the project monitoring stage, and monitoring provides the necessary feedback to ensure project performance and compliance with IA criteria.

Improving Project Accountability: Participatory Monitoring in China

Daniel Gibson, Elisa Xiao, Chaogong Wang

In a China pilot program, participatory monitoring of environmental and social impacts has improved accountability to the affected public, while also improving the efficiency of project implementation.

Application of an Adaptive Management Approach for a Marine Seismic Survey

Jeremy Colman, Cameron Grebe

This paper presents an overview of the adaptive management programme implemented for a seismic survey in a coral reef environment.

Much Ado about Monitoring: Claims and Findings of SEA Monitoring in Regional Planning

Marie Hanusch

The paper explores the task of SEA monitoring by means of case studies of regional plans in Germany and England.

Closing the Loop: Embedding Monitoring in the Plan Making and Review Process

Tanya Burdett

SEA monitoring is most effective when embedded within existing regimes, and as proposals are developed throughout assessment using objectives, targets and indicators. Clear responsibility and reporting are also imperative.

Keeping One Step Ahead: Streamlining Compliance Data

Piers Higgs, Sam Nelson

This presentation will present a range of strategies that can be used to streamline data collection, reporting, analysis and auditing for EIA compliance.

Standard Operating Procedures (SOPs) of National Environmental Specimen Bank and Impact Assessment

Myungjin Kim

This talk presents the National Environmental Specimen Bank of Korea and its application to impact assessment.

MEETING ROOM 7

CS4.8 Strong EIA Lessons for Agriculture, Forestry and Fisheries

Topic Stream: Sectoral Perspectives

Chairs: Patrick Duffy, Michael Koech

Format: Paper Session

This paper session will feature findings from four nations. The analyses furnish a background to harness EIA and follow up to create solutions to issues in Agriculture, Forestry and Fisheries.

Environmental Values of Agriculture in Periurban Areas Shown by Environmental Impact Statements

David Pereira, Jara Vicente, Elena Gamboa, Blanca Ocon

We explore the environmental and cultural values of agriculture in Madrid and Barcelona (Spain) peri-urban areas through an analysis of environmental impact statements.

Impacts of Urban Agriculture on Biodiversity: Implications for the City of Nairobi

Michael Koech

Examples of significant impact of agricultural activities on biodiversity are presented. Issues analyzed include balancing urban agricultural development with conservation of biodiversity among others. Mitigation measures and recommendations are discussed.

Environmental Impact Assessment of Slash and Burn Agriculture in Central Nepal

Vivek Dhar Sharma

This paper tries to highlight the socio-economic and environmental impact of transformation of slash and burn land practiced by indigenous Chepangs and Tamangs to agro-forestry with SALT technology.

HIA of Changing Fruit and Vegetable Supply Chains after Thai-Chinese FTA

Decharut Sukkumnoed, Rungthip Sukkumnoed,

Duangjai Rungrojcharoenkit, Nuntana Sabrum

The impacts of FTA beyond the flow of trade. Without proper protective and supportive mechanisms, FTA would not yield the health benefits for Thai fruit and vegetable farmers and consumers.

MEETING ROOM 8

CS4.9 Impact Assessment in the Mining Sector

Topic Stream: Sectoral Perspectives

Chair: Sonia Finucane

Format: Paper Session

As impact assessment in the mining sector evolves, more attention is being given to better integration of environmental, social, economic and governance factors. This session explores the way in which factors such as sustainability, socio-economic issues (including health risks) and site closure are being incorporated into ESIA in a number of countries around the world.

Environmental Law and Mining Sector in Mauritania

Ingo Baum, Mohamed Taleb Abeidi

The legal and institutional frameworks of EIA assessment in Mauritania's mining sector are discussed along with its strengths, shortcomings and emerging perspectives.

Dilemma of Balancing Technical and Development Policy Issues in Artisanal Mining

Oyunbileg Purev, Jonathon Hobbs

This paper considers the need for a more integrated and strategic approach if real development can be achieved in the process of converting Mongolia's natural capital into more sustainable land use opportunities.

Health and Environmental Assessment of the Mining Projects in the Canadian North

Carolyn Dunn

Mining in the Canadian North is growing. This paper examines the human health effects of traditional foods contamination and explores the issues and techniques to be included in assessments of proposed mines in this region.

Hammerstone Project: A Limestone Quarry in the Heart of the Canadian Oil Sands

Janet Bauman

This paper discusses the evolution of the Hammerstone Project and highlights the timeframe and challenges faced by a limestone quarry in a regulatory process geared towards oil sand operations.

Uranium Industry Environmental Assessments: Challenges, Successes and Future Opportunities

Glen White, Erika Ritchie

Environmental assessment processes have proven to be both an unpredictable and lengthy burden for the Canadian uranium mining industry. Challenges and solutions relating to efficiency, communication and process are discussed.

Developing Opportunity from Mine Liability: Sharing Environmental Value

Nigel Beck, Garth Batchelor

This paper considers the feasibility of treating and reclaiming excess mine water for re-use by municipal, mining and industrial users and release of treated water to rivers to meet ecological requirements.

Beyond Impact Assessment to Closure Planning at Namdeb Land Operations in Southern Namibia

Paulo Shipoke, Kevin Franklin, Alyson Warhurst

An overview of the evolving Namdeb mine closure plan, monitoring and risk management framework is presented in this paper. The

Concurrent Sessions

Concurrent Session 4 • Thursday 8 May • 08:30-10:30

paper builds on existing socio-economic and environmental baseline and impact assessment reports.

MEETING ROOM 9

CS4.10 Key Issues Facing HIA Practice

Topic Stream: Social & Health Impacts
Chair: Lea den Broeder (HIA Section)
Format: Paper Session

The application of HIA methods: transport-related health effects and its use in cost-benefit analyses, strategic environmental assessment and health, role for HIA in situations without legislative support, health inequalities in New Zealand, and important opportunities created by the International Finance Corporation requirements for focus on community health.

Building Capacity for Impact Assessment in the Absence of Legislative Mandates

Teresa Lavin, Owen Metcalfe

This presentation explores the development of HIA in situations where it doesn't have legislative support. It assesses progress made and maintains that science, art and more are required to travel this road.

Guideline for Health Impact Assessment of Transport

Brigit Staatsen, Elise van Kempen, Sonia Kahlmeier
A guideline has been developed for assessment of transport-related health impacts. This can be used in cost-benefit analyses. The guideline will be part of a toolbox on transport and health.

Integrated Procedures to Aim for Sustainable Development: HIA Into SEA

Federica Marangoni, Marco Stevanin, Lilliana Cori
We can achieve sustainable development through flexible integration of environmental and health assessment methodologies. SEA and HIA integration allows comprehensive context perception (environmental, socioeconomic, health, cultural aspects).

Health Impact Assessment as a Tool to Address Ethnic and Socioeconomic Health Inequalities in New Zealand

Matt Soeberg, Paula Hawley-Evans

Ethnic and socioeconomic health inequalities are an important focus for population health in New Zealand. The development and implementation of HIA guidelines are an important tool for addressing these inequalities.

HIA Methodologies for Industrial Projects

Gary Krieger

The International Finance Corporation (IFC) has significantly expanded and developed HIA methodology for private sector industrial projects in the developing world. Highlights of these new approaches (e.g., defined set of environmental health areas) will be presented.

MEETING ROOM 10

CS4.11 The Effectiveness of Impact Assessment in Assessing "Big Picture" Environmental Issues

Topic Stream: Effectiveness
Chair: David Hogg (EIANZ)
Format: Workshop

This session reviews traditional impact assessment approaches to determine if they can be refined to achieve better environmental outcomes at a strategic or cumulative level. Are there other approaches which should be applied to complement or replace impact assessment in some situations in order to achieve the best environmental outcomes?

From EIA to SEA and Back: Revisiting the Tyranny of Small Distances.

Juan David Quintero, Miles Scott-Brown

This paper examines the role, development and influence of environmental impact assessment and strategic environmental assessment in managing the impacts of growth and development, and compares their strengths and weaknesses.

Why EIA May Be Considered More of an "Art" Than a "Science"

Adrian Vlok

Determining the acceptability of an impact or project can be far more problematic than defining them in objective scientific terms. This is why EIA may be considered more of an "art" than a "science."

Comparison of Strategic Environmental Assessment in New South Wales and Scotland

Anthony Jackson, Andrew Kelly

This paper compares SEA in New South Wales with the radical approach used in Scotland, and examines the implications for NSW in adopting such a radical solution to environmental policy-making.

A Catchment Approach to Solve Water Supply Demands of South East Queensland and Save the Mary River

Glenda Pickersgill, Steve Burgess, Brad Wedlock, David Kreutz

The EIS for two water supply projects is used to demonstrate how a piecemeal approach has inhibited effective environmental planning on a catchment scale. An alternative catchment-based approach is proposed.

The Bubble and the Big Picture: An Alternative Approach to Delivering Strategic Environmental Assessment

Michael England

An alternative concept in strategic level assessment, the Environmental Bubble, is discussed. This approach delivers more consistent and better environmental outcomes by replacing the mindset of traditional impact assessment.

MEETING ROOM 11

CS4.12 Innovative Methodological Approaches to SIA

Topic Stream: Social & Health Impacts
Chair: Ana Maria Esteves (SIA Section)
Format: Paper session

Practitioners share innovative methodological approaches to SIA with the audience. Research on how to refine and utilise existing knowledge, and best practice in SIA will be discussed.

A Longitudinal, Catchment-Wide, Research Base for Social Assessments

Nick Taylor, Harvey Perkins, Lee Maynard

Social assessment benefits from longitudinal research to understanding the context of planned interventions and unplanned social changes. The Waitaki River catchment, New Zealand, provides an example.

What's the Problem: Clarifying the Purpose of Social Impact Assessment

Gaye Mackenzie, Peter Elliott

This paper discusses why it is important to clarify the purpose of social impact assessments and explores the use of a seven step problem solving model for this purpose.

Urban Regeneration and Impact Assessment for Social Sustainability

John Glasson, Graham Wood

Urban Regeneration and Impact Assessment for Social Sustainability: part of a European Investment Bank project exploring the evolving nature and influence of social factors in urban regeneration project impact assessment.

Best Practice SHIA in the Real World of Contracting

Robert Quigley

This presentation presents experiences of trying to fit HIA best practice into a joint social and health assessment with the usual time and budget pressures.

MEETING ROOM 12

CS4.13 Making SEA an Effective Tool for Strategic Decision-Making

Topic Stream: Strategic Environmental Assessment, Effectiveness
Chair: Fernando Loayza
Format: Paper Session

This session follows on the theme forum on "Making SEA an Effective Tool for Strategic Decision Making." It discusses some of the challenges, key methodological issues and country relevant experience for applying SEA as a tool for informing and influencing strategic decision making.

Chronicles of Narnia: Lessons for Strategic Environmental Assessment

Francois Retief

To ensure the survival of SEA it remains critically important that the concept be understood to fill its niche as an assessment tool, distinctly different from other planning tools.

A Decision-Maker's Tool for Sustainability-Centred Strategic EA

Peter Croal, Robert Gibson, Charles Alton, Susie Brownlie, Erin Windibank

How to summarize sustainability-based SEAs in briefing notes for senior authorities, showing how particular issues have been addressed,

interconnections recognized, alternatives compared, significant trade-offs considered and conclusions justified.

Strategic Environmental Assessment in China: Vision and Challenges

Kim Che Lam

The presentation discusses the environmental challenges faced by China, the need for SEA to assure sustainability, constraints experienced by the assessment profession and the strategy to meet with these challenges.

Mega Industry and Climate Change: Need For a Higher Level SEA

Anne Merrild Hansen, Lone Kørnøv, Klaus Georg Hansen

Greenland is facing significant industrial development. The presentation discusses the related needs for extended environmental considerations on the strategic level.

EXECUTIVE BOARDROOM

CS4.14 Environmental Assessments in the Greater Mekong Subregion

Topic Stream: Regional Perspectives

Chair: Pavit Ramachandran

Format: Workshop

This workshop aims at discussing the use of environmental assessments in the Greater Mekong Subregion. Completed and ongoing assessments

will be presented, providing a background for exploring opportunities to further develop the use of both project and program/planning/policy level environmental assessments in the region.

Strategic Environmental Assessment in the GMS

Pavit Ramachandran, Jorgen Eriksson

This presentation will explore the scope for development of strategic environmental assessments in the Greater Mekong Subregion. Best Practices as well as transboundary aspects will be considered.

Environmental Impact Assessments in the Greater Mekong Subregion: An Opportunity for Greater Environmental Security?

Jennifer Li

In the Mekong region, but not exclusively, environmental insecurity is likely to worsen if environmental assessment practices do not move closer to the standards set by better practices.

SEA of the GMS North South Economic Corridor

Joan Looijen, Jeremy Carew Reid, Jeremy Richardson, Jiao Xi

The SEA of the GMS NSEC is focused on cross-sector and transboundary issues, cumulative effects of transport, tourism and trade developments, alternative development options and capacity building.

Environmental and Social Safeguards Framework (ESSF) For Road Projects in Laos

Phaknakhone Rattana

Using SEA to Catalyze Adaptation to Changing Climates in Mekong Countries

Jay Roop

This paper explores the assessment tools and approaches which need to be built into these budding SEA systems to help governments, private sector and communities respond to climate change.

Socio-Economics and Environmental Concerns in Stung Chinit Irrigation Scheme and Rural Infrastructure Project: Issues and Reflections from a Rapid Assessment

Try Thuon

The paper presents the implication of socio-economics and livelihood, its impact on aquatic resource, wetland livelihood and other consequences such as flooding and pressure on upstream forest clearance, logging and mining.

MEDIA ROOM

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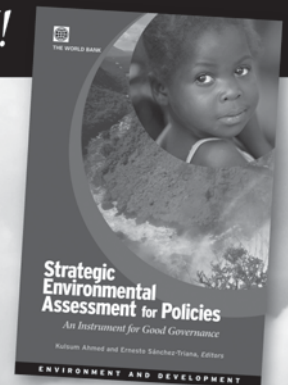
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Concurrent Sessions

Concurrent Session 5 • Thursday 8 May • 11:00-12:00

CS5.1 Alternatives, Decision-Making and Impact Assessment

Topic Stream: The State of the Art of Impact Assessment

Chairs: Eric Markus, Kaarina Stiff

Format: Paper Session

Alternatives are often described as the heart of impact assessment. However, experience shows that alternatives are often underdeveloped in the process. Is the art of policy-making interfering in the rigorous analysis that science would apply to the process? Are the surveys and matrices of science missing the bigger picture?

Lessons from the Handling of Alternatives in Two International Bridge Projects

Eric Markus, Kaarina Stiff

The handling of alternatives in two international projects—the Detroit River International Crossing and the Öresund Bridge—is analyzed and comparisons are made about differences in processes and planning situations.

Environmental Assessments in Long-Term Radioactive Waste Management

Cassandra Wesolowski

This research addresses tiered environmental assessments in international long-term radioactive waste management cases, particularly focusing on alternatives, stakeholder involvement and the decision-making process.

MEETING ROOM 1

CS5.2 Participatory Approaches to SIA

Topic Stream: Social & Health Impacts

Chair: Ilse Aucamp (SIA Section)

Format: Meeting place

In this session, practitioners will share some practical experience regarding participatory processes, and new ways of utilizing these processes. After the presentations, there will be time for discussions and members of the audience can share their experiences.

Participatory Social Impact Management

Peter Hoppe

Social impact management and social impact risk form the basis for a new participatory approach that moves significantly beyond traditional community engagement and involvement.

Integrating Qualitative and Quantitative Methods: The Use of Participatory Focus Groups to Interpret Secondary Data in SIA

Jackie Schirmer

This paper examines how statistical data can be analyzed using participatory processes, improving both the quality of the data used and the way data are interpreted in SIA.

Injecting New Wisdom to SIA: The Wisdom of Crowds

Martin de los Rios La Rosa, Vivian Garde

SIA is at a stalemate confronting the customary problems. The future is often predicted by experts. We suggest using the wisdom of the crowds to improve our capacity to predict social impacts.

MEETING ROOM 2

CS5.3 Dimensions of IA Effectiveness Workshop

Topic Stream: Effectiveness

Chair: Richard Morgan

Format: Workshop/discussion

Facilitated discussion of IA effectiveness, drawing on the short presentations in the preceding session of the same name to develop specific conclusions for reporting to the conference closing plenary.

MEETING ROOM 3

CS5.4 The Art and Science of Public Participation in Impact Assessment

Topic Stream: Community & Stakeholders

Chairs: Bert Enserink (Public Participation Section)

Format: Meeting place

In August 2006 we published our international best practices principles for public participation (www.iaia.org/modx/assets/files/SP4%20web.pdf). In this session we will evaluate a number of best practices examples. Do they live up to the principles? The paper presenters will have a discussion with some of the main drafters of the PPBPP.

Does Consultation Support Transparent and Accountable Decision Making?

Anna McLauchlan, Else João, Rebecca Bell

This paper reviews the former, public consultation on the SEA reports, by analyzing responses to consultations on Scottish SEA reports prepared between July 2004 and February 2008.

Assessing the Public Participation Best Practice Principles

Bert Enserink, Loes Witteveen, Rico Lie

In this paper we present and evaluate our practice of mediated representation as applied in the Visual Problem Appraisal AIDS and rural development and use the PPBPP to evaluate our practice.

Good Stakeholder Engagement: It's Not What You Do - It's How You Do It!

Vassie Maharaj

Real examples of good stakeholder engagement in mining authorization projects. Two different countries, Democratic Republic of Congo and Ghana, two different cultures, two different mining companies—why it worked.

Participatory Monitoring as a Means to Prevent and Manage Environmental Conflict

David Atkins

This presentation will highlight the CAO experience with participatory water monitoring in Cajamarca, Peru, and introduce a new guidance document describing the role of participatory monitoring in resolving conflict.

MEETING ROOM 4

CS5.5 HIA Guidance and Standards (2)

Topic Stream: Social & Health Impacts

Chair: Ben Cave (HIA Section)

Format: Roundtable

Health Impact Assessment (HIA) mirrors Environmental Assessment in leading to a report intended to influence decision-making. We are developing a health impact statement review tool and in the round table discussion we will encourage debate, feedback and ideas to strengthen the validity of the tool.

Reviewing Health Impacts Assessments

Mette Fredsgaard, Ben Cave, Alan Bond

We are developing a health impact statement review tool and in the round table discussion we will encourage debate, feedback and ideas to strengthen the validity of the tool.

MEETING ROOM 5

CS5.6 Learning through Environmental Assessment

Topic Stream: Learning & Professional Development

Chair: John Sinclair

Format: Paper Session

The educative and learning potential of EA is now garnering considerable attention from practitioners and scholars, in part due to the potential for projects that better reflect sustainability objectives. This session offers an exciting look at the opportunity for individual and organizational learning outcomes of EA, and the implications of these for EA design.

Developing the Learning Potential of SEA in Spatial Planning

Paola Gazzola

A comparative analysis between the UK, Germany and Italy explores the extent to which SEA facilitates organisational and individual learning. Different countries' unique contextual influences, skills, attitudes, behaviours and inter-institutional understanding are explored.

The Learning Potential of Deliberative Sustainability Assessment

Jenny Pope

Moving towards sustainability calls for fundamental rethinking of "business as usual." The potential for deliberative forms of sustainability assessment to contribute to learning and change at both the individual and collective levels is explored.

Conceptualizing Learning for Sustainability through Environmental Assessment

John Sinclair

The purpose is to share a framework that conceptualizes the relationship among participation, learning and sustainability in an EA context, achieved through considering studies we have undertaken since 1995.

MEETING ROOM 6

CS5.7 Scenarios, Time Horizons and Climate Change in Impact Assessment

Topic Stream: Climate Change, Tools and Techniques

Chair: Elizabeth Wilson

Format: Paper Session

Climate change requires us to consider the long-term impacts of our actions, and to act now to avoid or adapt to future impacts. But EIA has not systematically considered climate change. This session will consider the reasons for this, reviewing the experiences of scenario-based analysis, and generating debate on the scope for using these approaches within impact assessment.

Sustainability Assessment: Challenges of the New World

Jack Krohn

Environmental assessment needs to recognize that impacts and risks affect not just the current environment, but environments in flux in response to external factors over time.

SEA of Water Sector Plans: Inclusion of Climate Changes

Sanne Vammen Larsen, Lone Kørnøv

Overview of the consequences of climate change for water planning, and comments on the inclusion of climate change in the preparation of new water plans and SEAs in Denmark.

Scenario Methods in Strategic Environmental Assessment: A Case Study in China

He Xu, Li-li Tian, Zhi-xi Zhu, Jing Wu

A framework of the scenario-based approaches to transport Strategic Environmental Assessment (SEA) was proposed and applied to SEA for the Road Network Plan of Hubei, Middle China.

MEETING ROOM 7

CS5.8 Strong EIA Lessons for Agriculture, Forestry and Fisheries Workshop

Topic Stream: Sectoral Perspectives

Chairs: Patrick Duffy, Michael Koech (Agriculture, Forestry and Fisheries Section)

Format: Workshop

This workshop will focus on current and relevant applications to AFF and related Biodiversity issues. We will also plot the way forward to encourage increased recognition of the benefits of EIA.

MEETING ROOM 8

CS5.9 Early Market Involvement and EIA: Experience and Practices

Topic Stream: Governance

Chairs: Jos Arts, Charlotta Faith-Ell

Format: Workshop

Market parties are involved more and earlier in planning and EIA processes, as infrastructure procurement moves towards integration of project-design, construction, operation and maintenance. This influences EIA-practice and may provide a source for innovation. Following two short papers, this workshop will provide a forum for discussing recent cases, theoretical concepts, legal and practical issues.

An Introduction to Early Market Involvement and EIA: Experiences and Practices

Jos Arts, Charlotta Faith-Ell, Amanda Chisholm

This paper provides an introduction to the workshop devoted to EIA and early market involvement.

The Role of EIA in Contracting for Road Projects in Sweden

Charlotta Faith-Ell

This paper addresses the issue of EIA in infrastructure planning and its relation to the construction and maintenance phases.

MEETING ROOM 9

CS5.10 Challenges and Solutions in Linear Project Development

Topic Stream: Sectoral Perspectives

Chair: John Morrell

Format: Paper Session

Linear infrastructure such as transmission lines, roads and pipelines has particular social and environmental impact challenges. Such infrastructure affects communities and natural environments located close to linear corridors, while the wider community, serviced by such infrastructure, is largely unaffected. Techniques proposed minimise environmental and social effects of linear infrastructure.

Integrating EIAs into Project Design for Linear or Sparse Developments

Amanda Banks

A risk assessment approach offers opportunities for integrating EIA and SIA into project design, maximising negative impact avoidance. GIS mapping is integral and is an effective tool for stakeholder engagement.

Reducing Impact in Western Power's Transmission Line Projects

John Morrell, Kelly Freeman

The assessment of impacts is one stage in a project timeline. Once assessment has been made, careful management, minimization and engineering solutions can be applied to reduce the scale of impact and provide positive regulatory and environmental outcomes

A Follow-up Study of a 735 kV Transmission Line from a Landscape Perspective

Hélène Letourneau

The environmental follow-up study revealed that the 735 kV transmission line reduces the attractive interest of the Monteregion Hill

landscape and the juxtaposition of the line to the highway appears irrelevant as a siting criteria. Many other lessons are presented.

MEETING ROOM 10

CS5.11 Impact Assessment in the Transport Sector

Topic Stream: Sectoral Perspectives

Chair: Josh Lam

Format: Paper Session

This session presents how impact assessment has served as a useful tool to make scientifically based judgements, to engage stakeholders and influence decision makers towards achieving sustainability. The case studies range from strategic to project-specific assessments, and from Africa to China, covering environmental, social and economic issues.

Environmental Strategy for Road Sector in Mozambique

Deolinda Nunes, Lote Maueia

The presentation will be about the National Roads Administration Environmental Strategy, its environmental performance and the interrelation with other government authorities such as the Ministry for Coordination of Environmental Affairs (MICOA).

Strategic Environmental Assessment for Provincial Road Network Plan: A Case Study from Hubei Province in China

He Xu, Li-li Tian, Zhi-xi Zhu

The technical framework, assessment elements and assessment methods of SEA in provincial road network plan will be introduced, and some experience from transport SEA in China will be discussed.

Involuntary Resettlement in Jardim-Benfica Road

Emilia Tembe

Involuntary resettlement required for this road project in Mozambique will be presented. This involved over 300 Project Affected Persons (PAPs) and their structures.

The Art and Science of EIA in Achieving Sustainability in a Transport Development Project in Hong Kong

Josh Lam, Richard Kwan

This paper will present good practice in EIA and corporate governance in a railway project, for the achievement of environmental sustainability, which permeated all stages of the development, from planning to operation.

MEETING ROOM 11

Concurrent Sessions

Concurrent Session 5 • Thursday 8 May • 11:00-12:30

CS5.12 SEA Practice in Vietnam: Experiences and Lessons

*Topic Stream: Regional Perspectives
Chairs: Nguyen Khac Kinh, Le Hoai Nam
Format: Paper Session*

Since SEA became a legal requirement for a range of strategies and plans in Vietnam, the government and other stakeholders have made their efforts to promote implementation of the new legislation. The purpose of the session is to discuss major achievements, experiences and lessons learned from SEA practice in Vietnam. Presentations will be followed by facilitated discussion.

An Overview of SEA Development in Vietnam

Nguyen Khac Kinh, Le Hoai Nam

The paper gives an overview of SEA development in Vietnam, its strategy and actions to secure success, existing constraints, future challenges and the way forward.

Lessons Learned from Selected SEA Pilots on Sector and Spatial Planning in Vietnam

Niels Juul Busch, Le Hoai Nam

The presentation summarizes experience from SEA pilot projects in Vietnam by addressing these questions: how does the SEA fit into present planning procedures, and how well is the SEA concept understood?

NOTES

MEETING ROOM 12

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CS6.1 Impact Assessment Governance

Topic Stream: Governance
Chair: Heleen Vreugdenhil
Format: Paper Session

This session focuses on impact assessments as a governance and management tool. Insights from practice and theory will be discussed to improve the quality of impact assessments for governance or managerial purposes. Tools and techniques to support the use of impact assessments are presented.

Tension Bows as a Tool to Assess the Impacts of Institutional Change: An Example from Dutch River Management

Heleen Vreugdenhil, Toine Smits, Jill Slinger
 Institutions are often not compatible with ecosystem-based approaches. Adapting institutions causes a shift in barriers and trade-offs. The use of tension bows is a tool to visualize these tensions.

Class Environmental Assessments: A Way Forward for Groups of Projects in South Africa?

Olubunmi Raji, Richard Hill
 Class environmental assessment.

Integrated Impact Assessment for Explaining Differential Impact of Watershed Development Projects

Pradeep Mishra, Rakesh Saxena
 The paper highlights the integration of non-economic approaches to cost-benefit analysis for assessing impact of watershed project. It provides insights into how organizational processes and stakeholders make differential impacts.

Maslow and the Art of Mastering EIA Projects

Roel Nijsten, Annelies De Ridder, Jos Arts, Paul Jongejan
 This paper reveals the key success factors for EIA project management, which were identified in a large scale screening of 75 road infrastructure projects in the Netherlands. The key to success: MASLOW!

MEETING ROOM 1

CS6.2 Mainstreaming Biodiversity in Environmental Assessment: What Have We Learned?

Topic Stream: Biodiversity
Chairs: Vinod B. Mathur, Asha Rajvanshi
(Biodiversity & Ecology Section)
Format: Paper Session

In the face of rapid quest for economic development and largely ineffective institutional framework, efforts for mainstreaming biodiversity in development are urgently needed. Creating enabling environment and building capacity to conduct biodiversity-inclusive impact assessment are critical ingredients. This session will bring in select practitioners to share their perspectives and experiences.

Biodiversity Mainstreaming and EIA: Art, Science or Myth

*Charl de Villiers, *Susie Brownlie, Jeff Manuel*
** Winner of the 2008 President's Bursary*
 This paper presents the experiences of the Botanical Society of South Africa in advocating biodiversity mainstreaming in EIA in the Cape Floristic Region, a global biodiversity "hotspot."

Optimizing Biodiversity Conservation: Local Training Needs In Western China

Yang Shao, Marilyn Beach
 The paper introduces Training Needs Assessment in western China to discuss training needs and creating a more conducive policy environment to give EIAs more strength in the decision-making process.

Integration of Biodiversity in SEA: Overview of Good Practice Cases

Arend Kolhoff, Bobbi Schijf
 A summary of fifteen SEA good practice cases (world wide) are presented, distributed in the form of a booklet, in which valuation of ecosystem services have been applied successfully.

Mainstreaming Biodiversity Conservation in Development Planning

Vinod Mathur, Asha Rajvanshi
 Mainstreaming biodiversity conservation in development planning continues to be an uphill task. Proactive planning using modern technologies to evaluate conservation significance of sites can assist in reducing conservation-development conflicts.

Integration of Biodiversity in EIA: Impediments, Opportunities and Surprises

Asha Rajvanshi, Vinod Mathur
 The outcome of biodiversity-inclusive impact assessments in India is a mixed bag of experiences that portray different types of challenges, opportunities and surprises for harmonizing development and conservation goals.

MEETING ROOM 2

CS6.3 Overcoming Barriers to Best Practice Impact Assessment

Topic Stream: The State of the Art of Impact Assessment
Chair: Bryce Skarratt (EIANZ)
Format: Paper session

There are many barriers to the implementation of best practice in impact assessment, including proponent reluctance, lack of appropriate legislative or policy requirements or simply because the processes are not well understood. This session is intended to examine the benefits a best practice approach can deliver and how these barriers have been overcome.

Integrating Strategic Assessments: What Works and Is It the Right Approach?

Tanya Burdett, Alex White
 Sustainability appraisal in the UK, incorporating SEA and other assessments, provides an opportunity for better informed decisions and working towards sustainable development.

Protecting Water Quality in Sydney's Drinking Water Catchments by Impact Assessment

Malcolm Hughes
 This paper examines the best practice impact assessment that has been applied to protect and enhance the quality of water in the catchments providing drinking water to Sydney.

Incorporating Lessons from Nam Theun 2 Hydropower Project into EIA in Lao PDR

Kate Wallace, Phakkavanh Phissamay, Nigel Murphy, Nanong Khotpathoum
 Nam Theun 2 HPP is widely touted as a model of sustainable development. Here we explore how lessons learned from this project have been incorporated into EIA in Lao PDR.

Possibilities for SEAs to Contribute to Sustainable Hydropower Development

Amanda Banks
 India has an ambitious hydropower development program planned to meet rising demand and a recent study showed that new SEAs and improved EIAs will be important for sustainable development outcomes.

The Integral Role of Indicators in the Practice of EIA

Larry Canter, David Turner
 This presentation highlights the need to describe the rationale for the use of environmental and social indicators as a foundation for focused and cost-effective impact studies.

ESHIA for Mining and Oil and Gas Projects: The Latest Trends

David Snashall
 An overview of some of the latest trends emerging in ESHIA practice as resource companies seek to access difficult locations and manage diverse stakeholders needs.

MEETING ROOM 3

CS6.4 Working with Communities: Finding Common Ground

Topic Stream: Social & Health Impacts, Public Participation
Chair: Ilse Aucamp (SIA Section)
Format: Panel discussion

This session will be an open discussion forum inviting Public Participation, HIA and SIA practitioners to share and discuss strategies for approaching and working with "the public" and communities. The aim is to share lessons learned, and find a common ground between PP, HIA and SIA and to discuss some case studies. The role of different professionals in different stages of the process will be discussed, as well as how these three processes can support and enhance each other.

MEETING ROOM 4

Concurrent Sessions

Concurrent Session 6 • Thursday 8 May • 16:00-17:30

CS6.5 OECD DAC Task Team on SEA: Progress and Planning Seminar

Topic Stream: Strategic Environmental Assessment, International Development
Chairs: Jon Hobbs, Barry Dalal-Clayton
Format: Panel discussion

The seminar will: (a) review progress in the OECD Task Team's ongoing work - implementing its 2006 Guidance, advocacy, training and developing special Advisory Notes on SEA links to key topical challenges (e.g., climate change), and (b) plan, scope and design a major workshop at IAIA09 workshop in Ghana on SEA experiences from the aid effectiveness and harmonization perspectives.

MEETING ROOM 5

CS6.6 Teaching Impact Assessment: Educating Future Professionals

Topic Stream: Learning & Professional Development
Chair: Luis E. Sánchez
Format: Roundtable

The session focuses on sharing experience in teaching EIA/SEA at both undergraduate and graduate levels. In this second part, experienced academics will debate the present and future of impact assessment education.

Panelists

Bill Ross, University of Calgary, Canada
Virginia Bettini, Università IUAV of Venice, Italy
Sachihiko Harashina, Tokyo Institute of Technology, Japan
Richard Morgan, University of Otago, New Zealand
Angus Morrison-Saunders, Murdoch University, Perth, Australia

MEETING ROOM 6

CS6.7 The Practice of SEA

Topic Stream: Strategic Environmental Assessment
Chair: Maria Partidário
Format: Paper Session

Five presentations will address practical cases of SEA. Three cases express real-life application and two cases result from reviews undertaken in the context of academic research. The SEA cases reflect multiple scales and themes, ranging from urban redevelopment to municipal planning, public engagement and dialogue approaches in trade agreements.

Application of SEA to Urban Redevelopment: A Case Study in California

Ryo Tajima, Yuki Shibata, Sachihiko Harashina
An urban redevelopment case in Sacramento, California, was analyzed in this study. The presentation will focus on the program EIR procedure and discuss the direct and indirect effects of it.

Greening Municipal Strategic Development Plans in Honduras

Maria Delfina Flores, Martha Pérez de Madrid Utrilla, Axel Olearius, Juan Palerm
In 2008, ten municipalities in Honduras will update their Municipal Strategic Development Plans and include tools of SEA and land use planning. What are key challenges of the process?

Integrated Approach of SEA in Washington State, U.S.

Yuki Shibata, Ryo Tajima, Sachihiko Harashina
We examine the growth management policy-making process in Washington State which interlinks plan-making process and environmental reviewing process in order to clarify the strategy for public involvement.

Communicating SEA to Decision-makers in Transitional Country: Crimea, Ukraine

Olena Borysova
Experience of SEA application for the Crimea Regional Development Strategy is hoped to clearly demonstrate to the decision-makers the benefits of cross-sectoral integrative participatory approach and thus improve strategic decisions.

SEA for the Association Agreement between Central America and the European Union

Ineke Steinhauer, Marta Perez
SEA can contribute to the trade agreement between Central America and the European Union, providing a constructive dialogue between the environment sector and negotiators on environmental opportunities and risks.

MEETING ROOM 7

CS6.8 Australian Public Policy and Environmental Law

Topic Stream: Regional Perspectives, Governance
Chair: Mark Flanigan
Format: Paper Session

The aim of this session is to provide an overview of developments in environmental policy formation in Australia and a discussion of emergent and potential directions in Australian environmental law and policy. The adequacy of current social impact assessment of Government Policies that produce significant economic change will also be considered.

The Changing Role of the Private Sector and the Community in Developing Policy

Gordon Hickey
Discusses the changing role of the private sector and the community in developing environmental policy in Australia. It will consider the implications of this change for environment-related policy and regulation.

Strategic Approaches Under The Australian Government's EPBC Act

Mark Flanigan
Australia's premier environment and heritage legislation, the Environment Protection and Biodiversity Conservation Act 1999, contains a number of mechanisms that provide for a strategic approach to the protection of national environmental matters.

Addressing Climate Change through Impact Assessment: A Legal Perspective

Sara van den Hoogen
The proposed inclusion of a climate change trigger in the Environment Protection and Biodiversity Act 1999 (Cth) which will require new projects to be assessed for their climate change impact will be explored.

Re-Assessing the Public Interest Impacts of Major Economic Policy Change in Australia: The Dairy Example

Dee Margetts
Research into Australia's dairy industry indicates an urgent need to revisit the largely untested assumptions of public interest which drove the introduction of National Competition Policy in 1995.

MEETING ROOM 8

CS6.9 Environmental Intelligence and Disaster/Crisis Related Environmental Assessment: An Emerging Concept

Topic Stream: Governance
Chair: Charles Kelly
Format: Paper Session

Environmental governance tools are designed for normal situations. Disasters and crises require another approach, focusing on the quick identification of critical impacts and actions. Crisis-focused impact assessment tools need good environmental intelligence, an emerging concept. The session explores the role of environmental intelligence before, during and after disasters and other crises.

The Role of EIA in Flood Mitigation: Landuse Planning and Management Perspective

Juchul Jung

Environmental Intelligence and Crisis Situations

Charles Kelly
Defining links between tools used to conduct environmental impacts in crises and exploring how improved environmental intelligence can lead to better assessments and reduced negative impacts.

MEETING ROOM 9

CS6.10 Impact Assessment in Spanish-Speaking Countries: Using IAIA to Improve It

Topic Stream: Regional Perspectives
Chair: Iñigo M. Sobrini
Format: Workshop

Impact assessment is consolidated in every Spanish-speaking countries in Spain and South and Central America. There is much work to do in capacity building in some of these countries, work that could be conducted through IAIA. The creation of more new IAIA Affiliates will be very interesting, the same as a network of practitioners which does not currently exist. This session will give all the Spanish-speaking delegates a chance to know each other and start working together, and maybe start thinking about forming a future IAIA Branch.

MEETING ROOM 10

CS6.11 Impact Assessment in the Energy Sector: The Case for Biofuels

Topic Stream: Sectoral Perspectives

Chair: Rocio Diaz-Chavez

Format: Paper Session followed by panel discussion

The aim of the session is to bring together practitioners working in the energy sector and discuss the contributions of Impact Assessment in practice with special emphasis on biofuels. Biofuels is currently a highly debated topic where there is need to use different tools and methodologies (e.g., IA, EA, SEA) for planning and assessment.

Considerations for the Sustainability Assessment of Biofuels

Rocio Diaz-Chavez

This paper presents a framework that reviews and assesses the main sustainability issues addressed in the use of biomass resources for biofuels production following European and international initiatives.

Bioenergy and Biofuel Strategies and SEA: Training Approach by GTZ/InWEnt

Axel Olearius, Alfred Eberhardt

Strategies for improved use of bio-energy, in general, and bio-fuels, in particular, are increasingly discussed. The German Technical Cooperation developed a seminar module on bio-fuels.

Guidance for an Effective Biodiesel EIA

Ahmed Refaat, Shakinaz El Sheltawy

Biodiesel industry needs to be promoted and enhanced. These guidelines are aimed to provide clear and detailed advice on carrying out effective EIA for a biodiesel project.

The Role of EAs in Shaping Policies and Practice for Biofuels in Tanzania

Hussein Sosovele

Agrofuels are becoming important business undertakings. Concerns about their effects have been raised. This paper explores the role of EAs in shaping policies and practice for biofuels development in Tanzania.

Fueling for Health: Strategic HIA of Thailand's Biofuel Policy Options

Decharut Sukkumnoed, Suphakit Nuntavorakarn

This paper presents different policy options for biofuel development and analysed strategic health impacts of these policy options.

MEETING ROOM 11

CS6.12 Minimizing Impacts and Impact Assessment in the Water Sector

Topic Stream: Sectoral Perspectives

Chairs: David Luketina, David Chubb

Format: Paper Session

This session focuses on integrating natural resource management and engineering outcomes in the water sector. It includes avoiding impacts through minimizing infrastructure failure and using infrastructure to generating water savings to return water to the environment. The other area covered is EIA of water supply infrastructure.

Impacts of SMART Sensor for Effective Aging Infrastructure Maintenance

Risa Morimoto, Chris Hope, Stephan Alberth

This paper presents a forecasting model that assesses the possible impacts of an innovative sensor system SMART Infrastructure™, which provides real-time wireless information about the state of critical infrastructure.

Water Saving Infrastructure: The Challenges and Lessons from the Impact Assessment Process

David Chubb

The challenges and lessons from the impact assessment process of some of the first large-scale structural works projects intended to create water efficiency savings and return water to the environment.

Assessing the Impacts of a Small Earth Dam on Resource-Poor Nomadic Minorities Located in the Downstream Section of the Dam

Mohammed Hamadina, Elsie Hamadina

A dam was constructed across a river that serves as the only source of water for several nomadic households. The impacts of the dam on the downstream minorities were assessed.

Desalination Plants, Energy, and the Marine Environment

David Luketina, Fabienne Faskel

Management of marine impacts (potential and real) due to brine disposal and greenhouse gas emission for large reverse osmosis desalination plants is discussed.

MEETING ROOM 12

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Concurrent Sessions

Concurrent Session 7 • Friday 9 May • 08:30-10:00

CS7.1 Impact Assessment Governance

Topic Stream: Governance
Chair: Heleen Vreugdenhil
Format: Paper Session

The main focus of this session is on assessing impacts of governance. Applying and discussing impact assessments generate new insights in both governance functioning and impact assessments as a tool. Potential improvements for both aspects will be discussed.

Self-/Co-Regulation in South Africa

Amanda Britz
In South Africa, only EIA is a legislated environmental management tool. A self- or co-regulation approach has now been followed with the 4X4 industry, leading to interesting debates.

Impacts of Governance Styles on River Restoration in NW Europe

Heleen Vreugdenhil, Toine Smits, Jill Slinger
Different governance styles used within three river restoration projects in NW Europe have been compared and related to their environmental achievements. This gives insights in the practice of river restoration.

Emerging Spaces: Re-Organization of Spatial Scales and SEA

Ivana Trkulja
The territorial re-scaling has opened up space for producing cross-border metropolitan areas—distinct territorial prototypes—in international affairs, urban planning/SEA and community dynamics.

MEETING ROOM 1

CS7.2 Input to the Third High Level Forum on Development Effectiveness

Topic Stream: International Development
Chair: Stephen Lintner
Format: Open discussion

This special session will provide an informal opportunity for participants to be briefed on the scope and objectives of the “Third High Level Forum on Development Effectiveness” to be held in Ghana in September 2008. The session will also include a discussion concerning the key elements of the Paris Declaration on Development Effectiveness issued in 2005.

MEETING ROOM 2

CS7.3 Incorporating Communities in Environment Assessment

Topic Stream: Community & Stakeholders
Chair: John Devlin (Public Participation Section)
Format: Meeting Place

Private and public institutions are recognizing the need to shift towards more participatory communications and planning techniques. This has led to innovations in how organizations approach stakeholder relations. This session will discuss public participation process design, implementation and reporting for cases from England, Hong Kong, New Zealand and the United States.

Community Involvement for Developing Development Plan Documents in England

Takashi Shimizutani, Sachihiko Harashina
The study evaluates the Statement of Community Involvement (SCI) requirement and examines how the systematized public participation contributes to developing logical options for Core-Strategy through some English cases.

EIA as a Tool in Conservation and Public Engagement in Sustainable Catchment Management

Gigi Chi-chi Lam, Josh Kam-wai Lam
This paper describes how the public participation process was effectively planned and carried out in a drainage project in Hong Kong, leading to sustainable catchment management and benefiting project implementation.

Hong Kong's Innovative Techniques in Public Engagement

Simon Hui
This paper describes Hong Kong's Continuous Public Involvement (CPI) policy which seeks to include the public at all project planning and implementation stages using innovative technology such as 3D interactive models.

Coasts for Sale? The (Mis)management of New Zealand's Coast

Claire Freeman, Christine Cheyne
This paper explores the planning process and the dilemmas created for residents and local government in New Zealand coastal communities pressured by the recent boom in coastal real estate.

Joint Land Use Planning: Learning How to Share Common Ground

Paul Sage
The paper will assess the U.S. Department of Defense Joint Land Use Study (JLUS) program introduced in the mid-1980s to provide community planning assistance to communities affected by military installations.

MEETING ROOM 3

CS7.4 HIA Roundtable

Topic Stream: Social & Health Impacts
Chair: Ben Harris-Roxas (HIA Section)
Format: Roundtable

This roundtable will present participants with scenarios for discussion, each based on HIA practitioners' actual experiences of key issues in HIA practice. Participants will be invited to share their own views and experiences. This session builds on the successful session held at last year's conference in Seoul.

MEETING ROOM 4

CS7.5 Oil and Gas Developments: The Need for Impact Assessment, Capacity Building and Monitoring

Topic Stream: Oil for Development
Chair: Arne Dalfelt
Format: Paper Session

Because of the strong relationship between socio-economic development and environmental issues, oil and gas development and policies are closely related to environmental and social sustainability issues, often giving rise to controversies and conflicts both at global and local scale. Impact assessment has the potential for conflict reduction by providing better and transparent information.

Environmental Assessment, Capacity Building Needs (Training and Competence) and Challenges for Monitoring the Oil and Gas Sector in Uganda

Arnold Waiswa-Ayazika

Preparing an Environmental Audit and Impact Assessment of Ongoing Oil Production Activities in Southern Sudan

Arne Tesli

Impact Assessments of Petroleum Development Projects in Nigeria

Edward Bristol-Alagbariya

MEETING ROOM 5

CS7.6 Community Participation and Sustainability Assessment

Topic Stream: Community & Stakeholders
Chair: Caroline Raphael
Format: Panel Discussion

Community participation is considered a critical element of sustainability assessment. The focus of the session will be to discuss the current community participation techniques used in sustainability assessments in a range of contexts and to discuss amongst practitioners the strengths and weaknesses of these techniques.

Panel members will present their recent work on sustainability assessment and the community participation with a focus on energy and water supply.

Panelists

Caroline Raphael, Ph.D. Candidate, Murdoch University
Janine Barrow, Senior Environmental Planner, Sinclair Knight Merz
John Morrell, Environmental Management Coordinator, Western Power
Suzanne Brown, Project Environmental Manager, Southern Seawater Desalination Project, Water Corporation

MEETING ROOM 6

CS7.7 SIA as a Planning Tool

Topic Stream: Social & Health Impacts
Chair: Ilse Aucamp (SIA Section)
Format: Paper session

SIA as a planning tool will be discussed. Both sides of the coin will be presented: where it was successful, where it failed to reach its potential, and how it was rectified in the end.

SIA in Transport Planning

Ruth Davies

The paper will review the social assessment framework the author has developed for assessing projects using social and strategic policy to provide the context. There will be two case studies.

If We Have a City Plan, Why Do We Still Let Developers Suit Themselves—At a Community's Cost?

James Baines, Nicholas Taylor

Our paper discusses some issues of weak urban planning process, and then describes how an SIA was instrumental in helping to tighten up the planning regime.

SIA Best Practices from the Port Hope Area Initiative, Canada

Eric Advokaat, Cassandra Johnson

This paper provides insights into and lessons learned from a detailed socio-economic impacts assessment conducted for a large-scale Canadian government project to clean up low-level radioactive waste.

SIA and Local Area Planning

Ruth Davies

This paper will discuss SIA in local planning processes including structure planning and development assessment. It will review the experiences of Australian Councils that have implemented SIA policies.

Social Impact Assessment in Regional Land-Use Planning

Timo Heikkinen, Rauno Sairinen

The paper analyzes the contents, methodologies and working practices of social impact assessment (SIA) in regional land-use planning in Finland. The analysis of best practices is based on expert interviews and text analysis.

MEETING ROOM 7

CS7.8 Applications of Impact Assessment Involving Indigenous Peoples

Topic Stream: Indigenous & Cultural Issues

Chair: Bob Tai (Indigenous Peoples Section)

Format: Paper session

This session considers the involvement of indigenous people in the IA process, including issues of participation, capacity building and empowerment. Local knowledge, indigenous value systems and traditional practices are considered as important aspects of the IA process. Applications covered include mining projects, disaster management and forest conservation.

Opportunities and Challenges for Wik and Wik Way People to Participate in the Environmental Impact Assessment for the Aurukun Bauxite Project

Julie Keane

The paper seeks to identify opportunities and challenges for Wik and Wik Way native title holders to participate in the EIA for a green field bauxite mine and export port.

Building Indigenous Governance and Regional Capacity Beyond Impact Assessment

Janina Gawler

A good practice case study of building Indigenous governance and regional capacity beyond impact assessment which reflects a strategic approach by a company and its host community towards social sustainability.

The Role of Local Knowledge in Forest Biodiversity Conservation

Severin Kalonga

The study addresses the role of local knowledge in conservation of forest biodiversity. It aims at informing contemporary approaches to forest biodiversity conservation at national as well as local level.

Memory and Death: Study of Social Organization in the Community of Panabaj

Loreley Fortuny

In October 2005 a mud slide buried Panabaj. Survivors are gathered in a risky area, waiting to be resettled. Analyzing memories is essential in finding solutions for their cultural needs.

MEETING ROOM 8

CS7.9 IA Legislation: Enabling or Disabling Best Practice

Topic Stream: Governance

Chair: John Bailey

Format: Paper Session

The art and science of impact assessment started out in the United States with the groundbreaking National Environmental Policy Act 1969. This legislation has since been followed by a global trickle and then flood of similar Acts. So it can be claimed that our business—the business of IA—was enabled through legislation. However, sometimes legislation is still missing or when present can hinder best practice.

Retrospective Authorization of EIAs: The South African Experience

Ernst Basson

My paper provides a legal view on the controversial practice in South African law to provide retrospective authorization for activities that have already occurred without prior environmental assessment.

The Difference between Law and Law Application in the 3G Infrastructure Roll Out

Stefan Larsson

The paper describes how non-legally acknowledged factors can affect the decision making without this being outspoken, to the loss of environmental concern and public participation.

Croatia's SEA Legislation

Ralf Ashemann

This paper examines whether the SEA provisions of the new Croatian Environmental Protection Act (2007) fully and correctly transpose the requirements of the SEA Directive of the European Union.

The Evolution of Environmental Legislation In Namibia: Formulation Process and Implementation

Teofilus Nghitila

MEETING ROOM 9

CS7.10 SEA Effectiveness

Topic Stream: Strategic Environmental Assessment, Effectiveness

Chair: Rob Verheem, Bobbi Schijf

Format: Paper Session

SEA is not a stand-alone instrument, but should be integrated into existing planning processes. In this session, presenters will reflect on one or more elements that SEA can contribute to planning, report whether SEA was effective in adding these aspects in their case-study experience, and identify factors that improve effectiveness.

Decisive Factors for SEA from the Perspective of Japanese Experience

Kii Hayashi

This study focused on identification of decisive factors for SEA definition for academics, government and consultants by utilizing the AHP (Analytic Hierarch Process) analysis.

How Can SEA Contribute to Better Decision-Making in Strategic Spatial Planning?

Asdis Hlokk Theodorsdottir

This paper seeks to establish key elements that SEA can contribute to strategic spatial plan-making, especially national-level spatial planning, in order to make planning and decision-making more effective.

SEA and Regional Land Transport Planning in New Zealand

Richard Morgan, Paul McGimpsey

Current regional transport planning in New Zealand does not meet the criteria for good practice SEA. We suggest changes that could add value to current processes.

Strategic Environmental Assessment and Hydroelectric Planning in Developing Countries: A Conceptual Framework for Linked EIA-SEA Systems in the Sector

Juan Quintero

A conceptual Integrated Environmental Management System for the hydroelectric sector, linking SEA and EIA at the watershed level, is recommended for hydroelectric planning in developing countries.

SEA: Theory, Practice and Methodology in European and Italian Contexts

Virginio Bettini, Chiara Rosnati

SEA shows significant differences between theory and practice. The cases presented highlight the ineffectiveness of public administration approach and propose an SEA methodology applied to an ancient pilgrim route.

MEETING ROOM 10

Concurrent Sessions

Concurrent Session 7 • Friday 9 May • 08:30-10:00

CS7.11 Valuation of Ecosystem Services

Topic Stream: Biodiversity
Chair: Arend Kolhoff (Biodiversity & Ecology Section)
Format: Paper Session

So far, treatment of biodiversity in environmental assessment has been inconsistent and inadequate. However, there is growing agreement that recognition and quantification of ecosystem services, and involvement of their stakeholders, represents the best opportunity to translate biodiversity in language understood by decisions makers. The challenge is how to express values.

Introduction

Arend Kolhoff
The Netherlands Commission for Environmental Assessment has compiled cases where valuation of ecosystem services had a proven effect on decision making at strategic level. More evidence is highly welcome.

Valuing Impacts on the Natural Environment: Some New Zealand Experiences

Geoff Kerr, Basil Sharp
Choice experiments reveal the importance of environmental attributes, acceptability of mitigation, and money values of environmental characteristics. Distinct classes of responses transcend stakeholder affiliations, and demographic characteristics.

Economic Valuation of Ecosystem Services from Environmental Flows in the Gwydir Catchment, NSW, Australia

Francis Karanja
Environmental flows provide ecosystem services whose value should be incorporated in integrated water resource management. The aim of the study was to value some of these ecosystem services in Gwydir.

Ecosystem Services and Sustainability Appraisal

Uzoma Ojike
Explore the use of multi-agent systems modeling CORMAS as a tool in sustainability appraisal to facilitate stakeholders in the decision making process through an increased understanding of ecosystem services.

Biodiversity Conservation Incentives and the Theory of Planned Behavior

Jo Ann Beckwith, Sarah Clement
How the Theory of Planned Behavior can inform the design of incentives strategies for biodiversity conservation on private property.

Ecological Resources and Function Districts in Lake Wetland of Arid Area

Huarong Zhou Huarong

MEETING ROOM 11

CS7.12 Assimilating Social and Political Processes in Impact Assessment: An African Perspective

Topic Stream: Regional Perspectives
Chair: Robert de Jong
Format: Paper session

This session provides an opportunity for the international impact assessment community to learn from the ways in which impact assessments have been conducted in Africa. It is important to sensitise multinationals, governments, donors, investors, consultants and developers who wish to do business in Africa about certain issues that they should be aware of.

Impact Assessment in Mali and Uganda: Enlisting Local Experts and Engaging Civil Society

Andrew Watson
Existing EIA legislation in many African countries is rigorous and comprehensive but the outcome can be mediocre. Drawing on Malian and Ugandan cases, possible ways of addressing underperformance are described.

Lake Chad Basin: A Transboundary Impact Assessment

Charlie Wolf
Report of "Environmental and Social Risk Assessment (ESRA) in the Lake Chad Basin" to reverse land and water degradation trends in its ecosystem and establish mechanisms for land and water management.

SEA and Public Policy in Ghana

Ebenezer Appah-Sampong

Challenges Facing the Implementation of Botswana Environmental Policy in the Implementation of Major Water Supply Projects

Thatayaone Dedede, Segatsho Shado Ramahobo
Challenges being faced in the implementation of major Water Supply projects in accordance with EIA Act of 2005. Issues that contributed to project delays, benchmarking in projects of similar nature outside the water industry. Map strategic ways of fully complying with the act without hindering project implementation.

Preventing Fatal Flaws in the Impact Assessment Process by Integrating Intangible Heritage Issues

Robert De Jong
Politics and society are interlinked with intangible heritage issues, which, through processes such as public participation, assessing impacts and developing environmental management plans can influence the outcomes of environmental assessments.

MEETING ROOM 12

CS7.13 Meet the Editors

Topic Stream: Learning & Professional Development
Chair: Bill Page, IAPA
Format: Presentations followed by Q&A session

Learn how to get published in an academic journal! The editors and publishers of IAIA's own journal, *Impact Assessment and Project Appraisal* (IAPA), and other major impact assessment journals will provide insights and tips on the journal publishing process and answer your questions on the subject.

EXECUTIVE BOARDROOM



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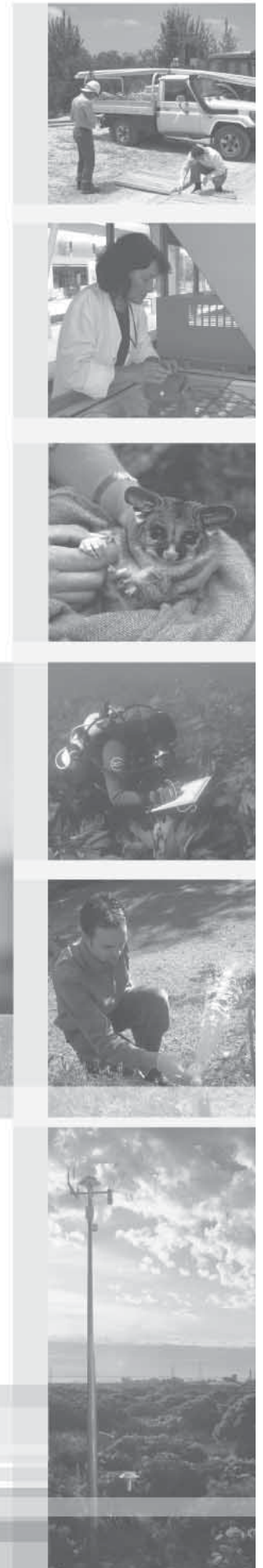
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Posters

Environmental Impact Assessment in Buffer Zones of Protected Areas in Brazil

Andre Andrade

Results of research that had the objective to assess the procedure of impact assessment in buffer zones of protected areas in Brazil.

Sustainability Principles for a Coal Mine and Power Station Project

Jenny Becher, Gillian Lane

Social Impact Assessment: Best Practice and Future Trends

Rabel Burdge

Illustrates the use of social impact assessment at the community and project level to help project proponents, planners, development agents, officials and citizens understand likely future changes in their communities.

Integration of Health in EIA/SEA: Testing a Tool

Lea Den Broeder, Theo van Alphen, Annemiek van Overveld, Anne Knol, Ilse Storm

A Web-based tool to promote the incorporation of health in EIA was tested. Results were positive but more investment is needed for structural integration.

Profiling EIA Professionals in Egypt

Hisham El-Zayat, Ashraf Elsheikh

The key barriers to good EIA practice in Egypt are highlighted through profiling the EIA practitioners and investigating their opinions regarding some issues of the EIA practice in Egypt.

Strategic Approaches Under the Australian Government's EPBC Act

Mark Flanigan

Australia's premier environment and heritage legislation, the Environment Protection and Biodiversity Conservation Act 1999, contains a number of mechanisms that provide for a strategic approach to the protection of matters of national environmental significance.

JETRO Guidelines for Environmental and Social Considerations

Shigeaki Fujisaki, Sachihiko Harashina

The uniqueness of the JETRO Guideline, which came into effect January 1st, 2008, is that it adopts not only SEA/EIA approach, but CSR concept for its environmental and social considerations.

Health Impact Assessment Across Australia

Stephen Green, Ben Harris-Roxas, Patrick Harris, Elizabeth Harris, Dagmar Schmitt, Necia Burford, Jessica McCormick, Dianne Katscherian, Martin Bicevskis, Sue Frendin, Frank Callaghan, Daniel Broderick

Developed in collaboration with each Australian State and Territory, this poster highlights the national diversity of Health Impact Assessment practice, its application, and its evolutionary dependence upon regional context.

Challenges in Implementing EIA/SEA in the Transition Period in Kosovo

Rizah Hajdari, Eleze Krasniqi, Afrim Berisha

Because currently the EIA procedure is almost the only formal tool to protect the environment, Kosovo institutions must apply it effectively and comprehensively.

Improvement of Construction CALS System by Adding Environment Management

Jung In-Su, Lee Chan-Sik, Seo Myung-Bae

While Construction CALS system has many functions such as schedule, cost and safety management, environment management has been neglected. This study aims to add the function of environment management to Construction CALS system.

Challenges Pertaining to the Understanding of Biodiversity and Impact Assessment

Gulalai Ismail

Focus on girl students, capacity building, alliance building, biodiversity, impact assessment and sustainable strategic assessment of policies, biophysical and social effects of development, development and its impact on women's lives.

Preliminary Environmental Impact Assessment of the Introduction of Used Tires as Alternative Fuel in the Cement Industry in R. Macedonia

Filip Ivanov

Background information concerning the manufacture of cement and describing the special characteristics of cement plants, which provide for the safe and effective use of alternative fuels and raw materials. Preliminary EIA is made to estimate if and how, at the same time, some of society's waste problems can be solved in a way which valorises the waste and is beneficial to the environment.

Study on Introducing the Certificate of Expert Practitioner in EIA in Korea

Jae Bok Jung, Im-Soon Kim, Sang-Wook Han

Introducing certificate of expert practitioners in EIA will make EIA in Korea competent and effective. To make a case for its introduction, this study conducted research on EIA in developed countries by literature review and identified needs and roles of expert practitioners in EIA.

Health Impact Assessment and Beyond: Nam Theun 2 Hydroelectric Project, Lao PDR

Surinder Kaul, Pany Sananikhom, Aeoudom Silavong, Lattavanh Lattanavong, Soutsakhone Chanthaphone

HIA and PHAP and developments towards the completion of the Construction Phase of the project.

Hydro-Electric Power Stations in Iceland Less Than 10 MW

Rut Kristinsdóttir, Jakob Gunnarsson

Problems and solutions regarding small-scale hydro power stations in Iceland. Such projects have proliferated in the wake of recent legislative changes.

An Approach to Introduce Biodiversity Components in EIA System in Korea

Young Han Kwon

Sustainable 3G? How SD Was Handled in a Large-Scale Infrastructure Project

Stefan Larsson

The sustainable development handled or non-handled in a large-scale infrastructure project, graphically presented.

Implication of Land Cover Analysis in Regional Land Use Planning

Sangbum Lee

Land cover is essential for regional land use planning. Land cover changes are analyzed in political and watershed boundary basis and the monetary value of forest is assessed.

Health Impact Assessment on Landfill Site Extension in Korea

Young Soo Lee, Sang Ki Choi, Young Ha Kim

HIA on landfill site extension: results showed there are possibilities and a few weak points for successful HIA implementation in Korea.

Involving Communities in Assessing Impacts to Spinner Dolphin Resting Habitat

Jayne LeFors, Lisa VanAtta

NOAA has engaged community groups in Hawaii to participate in monitoring and education/outreach efforts that will assist in assessing impacts of human-caused disturbance to spinner dolphins' resting habitats.

Turtle Watch: Community Contribution to Environmental Impact Assessment

Elaine Lewis, Catherine Baudains, Caroline Mansfield

Community members contributed to a project that investigated the local turtle population. Evidence was obtained that supported the decision-making processes for impact assessment and the management of the wetlands.

From “Death Road” to Environmental

Sergio Mercado Centellas

Critical impacts produced by Cotapata-Santa Barbara road construction (National Park, Bolivia). Not considering in a good way the amount of earth movements in EIA elaboration has consequences.

Challenges of Public Participation in Developing Countries: Case study of Zambia

Nancy Malwa Mushota, Luwitaa Changula, Marc C. Mulenga

The challenges of public participation in Zambia include lack of interest, lack of political will, lack of knowledge and appreciation of environmental issues. Public participation is currently not an effective tool in the Zambian EIA process.

Breaking Kenyan Barriers to Public Involvement in Environmental Impact Assessment

Nick Okello, Wim Douven, Jan Leentvaar, Lindsay Beevers

Sustainable Environmental Management is at stake where mechanisms that restrict public involvement in developing countries exist. What are these barriers and is SEA the bridge to better involvement in Kenya?

Waste Management in Honduras: Sectorial Analysis 2007

Carmen Padilla

Key findings and future perspectives of waste management issues in Honduras, Central America 2007. The document includes a financial, legal, institutional, technical, social, health and environmental chapter.

Environmental Impact of Gold Mining in the Pungwe River

Angelo de Jesus Pereira

The usage of mercury in the river, the erosion caused by gold panning since the protecting upper layer of soil and vegetation is removed are a threat to the ecosystem.

Using DPSIR Framework in Climate Change SEA: Useful Tool for Local Policy Makers

Behzad Raissiyan

Using DPSIR framework in climate change SEA aims to provide digestible information for “policy making” in the form of social-political responses, based on scientific data of biophysical environment.

Effectiveness of Risk-Based and Systems-Based Approach to EIA in Victoria

Geoff Ralphs

Examine and compare some recent examples of how “risk-based” and “system-based” Environmental Impact Assessment (EIA) has been approached and implemented within Victoria.

The Development of a Decision Support Tool in the Form of an EMF for a Selected Area in the National Lakes Area, Garden Route Western Cape

Fatima Rawjee

Equator Principles & IFC Performance Standards Concordant Brisas Gold Mine International ESIA

Viktor Raykin, Don Proebstel, John G. Aronson, W. Wayne Forman, Mehrdad Nazari

AATA developed an I-ESIA for Gold Reserve's mining project in the Guiana Shield (Venezuela) following IFC and Equator Principles guidelines. It incorporates public consultation and features a biodiversity offset.

How to Carry Out a Successful Training in an International Context

Sandra Rihm

International trainings in Environmental Assessment require good preparations and understanding of national differences. This poster presents DHV's extensive knowledge in EA and lessons learned from their training experience worldwide.

Assessment of Impacts Caused by the Inefficiencies of the Waste Management System

Claudia Salazar

Results of a state of the art concerning waste management systems in a developing country: Colombia.

Mozambique on the Road to Sustainability

Paula Santos

Time line of events leading to environmental legal framework in Mozambique. Description of the EIA process in Mozambique. Analysis of potential barriers to EIA in fulfilling sustainability goals in Mozambique.

Environmental Impact Assessment Versus Capacity Development and Training

Vusi Skosana

The impacts of EIA versus capacity and training gaps and how the situation could be if capacity and training initiatives are invested in officials dealing with these EIA processes.

Comparison Study on Noise Reduction Effect by Soundproofing Wall Installation

Hyosung Sun, Youngmin Park

This research is focused on the comparison study about the noise reduction effects by installing soundproofing walls, which includes the noise source distribution having various locations, frequencies, and sound power levels.

Inadequate Environmental Awareness Affecting Public Participation in Republic of Belarus

Alla Sushko

Inadequate environmental awareness contributes to a lack of public interest in resolving environmental issues and a low level of public participation in decision-making in Republic of Belarus.

SEA & EIA: Relationship and Integration

Asdis Hlokk Theodorsdottir

Findings of a project dealing with the relationship between SEA and EIA of projects and analysing opportunities for integration of SEA and EIA.

Fauna Assessments for Linear Corridors

Scott Thompson, Graham Thompson

Linear corridors for railways, pipelines, powerlines and haul roads are an important aspect of EIAs in Australia. This poster describes some alternative methods for undertaking these assessments.

Strategic Environmental Assessment of Wuhan Urban Development Plan in China

Lili Tian

Technical framework, assessment elements and indicators of SEA for Wuhan City National Economic and Social Development Plan are presented.

Also see the “Sustainability Assessment of IAIA08” posters prepared by ENV520 Principles of EIA students from Murdoch University.

VOTE FOR YOUR FAVORITE POSTER BY 11:00 ON THURSDAY, 8 MAY!

Technical Visits

A Rottnest Island: Sustainability Initiatives on a Micro-Scale

Located 18 kilometres off the coast of Fremantle. www.rottnestisland.com

A day trip to the island that Western Australians love. There are no tropical palm trees in sight, but its limestone geology and low scrubby



Quokka

bush give “Rotto” a special charm all of its own. Home to the adorable marsupial the quokka (like a tiny kangaroo), Rottnest has a wonderfully laid-back feel, where cars aren’t welcome and people get around by bike or foot, or the occasional bus ride.

The island is an A-class Reserve and demonstrates sustainability on a micro-scale, e.g., power is generated by a wind turbine, which feeds the desalination plant to produce fresh water.

The technical visit commences with a cruise down the beautiful Swan River to Fremantle, followed by a short 30 minute ocean-crossing to Rottnest. The tour on the island includes a walking tour of the historic Settlement area and a bus tour of the sustainable initiatives in place on the island.

Bring your swimming costume and towel if you would like to swim in the in the pristine waters, comfortable walking shoes, a hat and water.

Sunday, 4 May • 08:00-17:30

Min-Max: 5-65 • \$125

Price includes morning and afternoon tea, lunch and boat cruise.

B Biodiversity, Bushwalking and the Urban Fringe

Located 28km east of Perth.

www.naturebase.net>park finder, search: John Forrest; www.swanvalley.com.au

An informative bushwalk with David Newsome (passionate naturalist and Senior Lecturer in Environmental Science, Murdoch University) in one of Western Australia’s oldest conservation areas, the John Forrest National Park. Learn about the extraordinary biodiversity and natural history of this area on the fringe of metropolitan Perth from a real expert, and then partake of a delicious lunch (and local wine if desired) at a winery in the picturesque Swan Valley. Bring sturdy walking shoes, water bottle, a sense of adventure and a good appetite!

Organized by Murdoch University.

Sunday 4 May • 09.00-17:00

Min-Max: 30-45 • \$90

Price includes formal winery lunch.

C Alcoa Mine Site and Rehabilitation

Located 86km south of Perth. www.alcoa.com.au

Pinjarra is a small town on the Murray River, a few kilometres from the coastal centers of Mandurah and Rockingham south of Perth. The region was one of the first settled in Western Australia and has some fine examples of colonial architecture in attractive farming country. It is also the location of Alcoa’s Huntley mine, the largest bauxite mine in the world.

Participants visit the Huntley mine site and learn about all aspects of the bauxite mining process, including the nature of bauxite deposits, government approvals processes, extraction techniques, crushing, stockpiling and transport and large-scale rehabilitation. Alcoa’s award-winning mine rehabilitation and revegetation techniques, which are based upon research carried out at its Marrinup nursery, represent the world benchmark. Twenty-two million tons of bauxite are extracted each year from the Huntley Mine. Millions of jarrah tree seeds fill in the blank spaces.

The visit also includes Alcoa’s Pinjarra alumina refinery where the bauxite is refined through the Bayer process. Participants are taken through the four main steps of the process and also learn about Alcoa’s licensing procedures, accreditations, energy-efficiency initiatives and community involvement programmes.

Please wear closed-in shoes, long trousers and a long-sleeved shirt.

Organized by Alcoa.

Monday, 5 May • 08:00-16:30

Min-Max: 20-80 • \$40

Price includes lunch.

D Industrial Synergies and Desalination Plant

Located 40km south of Perth. www.kic.org.au; www.watercorporation.com.au>water>existing water sources>desalination plant

The Kwinana Industrial Area is the largest industrial complex in Western Australia and is located on the shores of Cockburn Sound, just south of Perth. Cockburn Sound is a sheltered, ecologically sensitive bay that is also important for marine recreation and aquaculture. For these reasons, considerable efforts have been made over the past 20 years to ensure that the adjacent industries perform to the highest environmental standards, enabling industry and the environment to sustainably coexist.

The co-location of diverse heavy, support and infrastructure industries in the Kwinana Industrial Area provides unique opportunities for industry to work together to find innovative and mutually beneficial ways to reduce waste and emissions. Through continuous reviews of input and output data of materials used and emissions produced by individual industries, synergy opportunities are identified, investigated and implemented, through the coordinating effort of the Kwinana Industries Council. Regional synergies promote a shift from a waste disposal system to a reuse methodology, saving energy and cutting emissions. The physical proximity of Kwinana industries allows trading of by-products for reuse and cooperative energy efficiency and water recycling ventures, which would not be feasible if there were significant distances between facilities.

The Perth Seawater Desalination Plant is also located in Kwinana, and is Perth’s largest single source of water, supplying approximately 17% of the city’s water needs. The largest plant in the Southern and Eastern hemispheres, it produces on average 130 million litres of water a day.

Delegates visit operational industrial areas and will need to wear closed-in shoes, long trousers and a long-sleeved shirt.

Photo ID is also required, such as a driver’s license or passport.

Organized by the Kwinana Industries Council.

Monday, 5 May • 08.30-16.30

Min-Max: 15-38 • \$40

Price includes lunch.

E Aboriginal Culture Experience

Located 40km northeast of Perth.
www.naturebase.net >park finder, search:
Walyunga; www.dia.wa.gov.au

This is a unique opportunity to experience Aboriginal heritage, with Aboriginal people, in the natural environment.

This cultural visit is held at Walyunga National Park, which contains one of the many Aboriginal campsites around the Perth area. Located on the banks of the Upper Swan River, this is where Aboriginal people gathered to make stone tools, share stories and ceremonies and live off the local "bushtucker" (food).

In this tradition, our hosts for the day demonstrate how stone tools were made, tell the creation story and teach participants about local bushtucker. The visit includes a 45-minute bushwalk via the ancient bush garden to the archaeological tool-making site.

After lunch, experience face-painting with ochre from the area (the oldest example of mining in the world!), listen to the didgeridoo and learn how to dance the "djitti djitti" (a dance inspired by the local "willy wagtail" bird).

Bring comfortable walking shoes, sunscreen, a hat and water. Our hosts ask you not to bring your mobile phones or even wear a watch!

Organized by Department of Environment and Conservation.

Monday, 5 May • 09:00-16:30

Min-Max: 30-60 • \$90

Price includes morning tea and lunch.

F Urban Renewal

Located in Midland, 17km east of Perth.
www.mra.wa.gov.au

See EIA in action in the historic railway town of Midland, where the Midland Redevelopment Authority is undertaking a major urban renewal of approximately 150 hectares of former railway workshops land.

Environmental remediation associated with past industrial practices on the site is underway in the Workshops Village Precinct. Contaminants include heavy metals, ash, clinker, hydrocarbons, asbestos, cyanide, volatile organic compounds and general waste fill.

The Midland Redevelopment Authority is also preserving the cultural heritage of the Railway Workshops, through conservation works and adaptive reuse of heritage buildings, and creating new development sites to achieve a vibrant mixed-use quarter. The existing heritage buildings have imposed additional constraints—both financial and physical—in the remediation methodology, as has the site's location adjacent to the Helena River. Consultation and communication with the local and indigenous communities has been an important part of the planning and redevelopment process.

Participants look at the vision for the site, see progress to-date, inspect heritage buildings and hear about the implementation of this exciting urban renewal project.

Organized by the Midland Redevelopment Authority.

Friday, 9 May • 13:30-18:00

Min-Max: 20-80 • \$30

Price includes afternoon tea.

G Sustainable Fisheries

Located at Hillarys Boat Harbour, 20km northwest of Perth. www.nmdc.com.au

Participants join the Department of Fisheries on a guided tour of the newly-opened Naturaliste Marine Discovery Centre. The Discovery Centre is part of the WA Fisheries and Marine Research Laboratories, a centre of excellence for world-class research to underpin the ecologically sustainable management of Western Australia's multi-billion dollar fisheries and unique aquatic environment.

The Discovery Centre is an exhibition and learning hub that showcases the variety and wonder of Western Australia's marine and freshwater life, and the issues and science behind the management of the State's aquatic environment and fisheries.

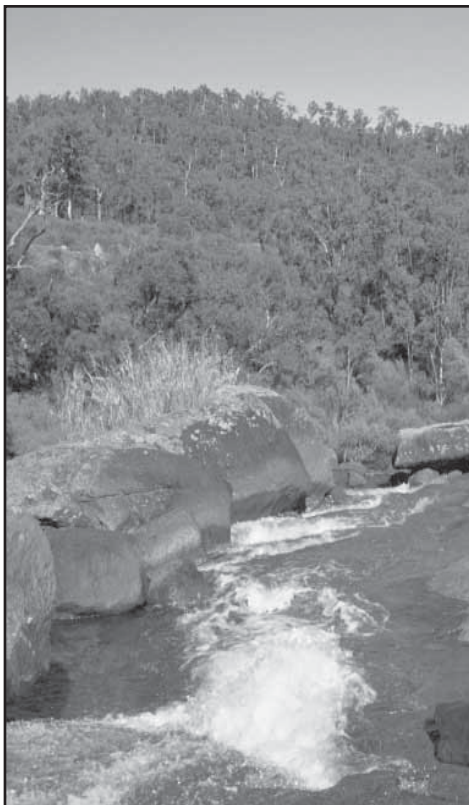
State-of-the-art displays, multi-media and video sequences, interactive exhibits and select aquaria take visitors on a journey down the Leeuwin Current, through the State's marine bioregions, exploring the biodiversity, biology and ecology of WA's aquatic environments and the issues facing their sustainable management.

Organized by Department of Fisheries.

Friday, 9 May • 13:30-18:00

Min-Max: 20-80 • \$30

Price includes afternoon tea.



John Forrest National Park

■ Pilbara Post-Conference Technical Tour

Pre-registered delegates will depart from Perth on Saturday, 10 May, for a once-in-a-lifetime experience touring the extraordinary Pilbara Region of Western Australia. Operated by Global Gypsies Pty. Ltd.

Meet at PCEC Lobby at 07:00 for a timely departure.

Sponsored by BHP Billiton and Woodside.



ABOUT TECHNICAL VISITS

Participants must be pre-registered and pre-paid to participate.

Registrations are accepted on a first-come, first-served basis until the visits reach the maximum number. Registrations are processed in the order that payment is received. Prices are shown in US dollars and include Australian GST. No refunds are issued for no-shows or cancellations after 29 February.

Technical visits depart from the PCEC. Please meet at the IAIA registration desk a minimum of 20 minutes prior to the start time of the technical visit.

Family members of registered delegates are welcome to register for technical visits. Casual clothing and walking shoes are recommended. Please note special requirements on some of the tours.

IAIA Sections

Meet the IAIA Sections!

IAIA is a member-based organization which currently has eleven Sections and a Students and Early Professionals (SEP) group that cover different types and aspects of impact assessment.

IAIA Sections provide opportunities for IAIA members with these mutual interests to share experiences and discuss ideas in an informal setting. Sections provide a forum for active topical debate and for development and promotion of good practice.

IAIA Sections have a chance to meet during each annual conference, and they also have a rolling program of work throughout the year.

The members of the Sections and their activities are the life-blood of IAIA: through the Sections, IAIA members can feed into the organization of each annual conference, publish different materials, and develop new lines of thought.

Why join an IAIA Section?

- Remember: When you pay the non-member conference rate, you automatically become an IAIA member and are eligible to join a Section.
- Sections are a networking forum for IAIA members, where you can meet your colleagues.
- Sections promote your personal professional development.
- Sections develop interesting activities that you may want to join.

Where can I find the Sections at IAIA08?

- The Sections have special tables at the opening reception, where you can informally meet with the Section chairs, find out more about what they do, and join!
- All sessions that have been organized by the Sections are clearly identified in the program.
- Each Section will hold a Section meeting during the conference, which everyone is welcome to attend. See page 7 for meeting time and locations.
- Section chairs are identified by ribbons on their name tags so that you can find them during the conference.

Any questions?

Please contact Lea den Broeder (lea.den.broeder@rivm.nl), the Sections Coordinating Committee chair, or the coordinator of a specific

MAKE A DIFFERENCE—GET INVOLVED IN A SECTION

CURRENT SECTIONS

Agriculture, Forestry and Fisheries: New in 2005, this Section focuses on finding ways and means of increasing and improving the application of EIA to these sectors based on study, research, and input from practitioners. Section coordinator and listserv facilitator: Patrick Duffy (pjbduffy@cs.com).

Biodiversity & Ecology: Ecological impact assessment, biodiversity in impact assessment, ecological compensation and mitigation, impact assessment for protected area establishment and management. Section coordinators: Asha Rajvanshi and Verina Ingram (ar@wii.gov.in and verina_ingram@hotmail.com). Listserv facilitator: Andrea Athanas.

Disasters and Conflicts: Disseminate information on disaster issues and participate in the development of sustainable disaster management strategies. Section coordinators: Charles Kelly and Michel Bouchard (72734.2412@compuserve.com and michel.a.bouchard@cogeoos.com).

Environmental Impact Assessment Law, Policies and Practice: Environmental legislation and its vital role in EA policy and practice. A goal of this Section is to develop links with key legal organisations so that IAIA can play a part in the development of environmental legislation which will promote equitable and sustainable development throughout the world. Section coordinator and listserv facilitator: Jan de Mulder (jan.demulder@bz.vlaanderen.be).

Corporate Stewardship and Risk Management (formerly Environmental Management Systems): Environmental auditing and management. Incorporating auditing and impact assessment into environmental management systems and the development and operation of corporate environmental strategies. Section coordinator: Debra Zanewich (dzanewich@edc.ca). Listserv facilitator: Angela Pinilla Urzola.

Health Impact Assessment: HIA throughout the world, integration of human health concerns into impact assessment, and human health risk assessment. Section coordinator and listserv facilitators: Suphakijn Nuntavorakarn and Ben Cave (suphakijn@yahoo.com and ben.cave@bcahealth.co.uk).

Indigenous Peoples: Indigenous issues in IA, developing guidelines for the recognition and full inclusion of indigenous concerns in all aspects of impact assessment, traditional knowledge, and impact assessment capacity building for indigenous people. Section coordinator: Bob Tai (bob.tai@ecan.govt.nz).

Integrated Assessment of Trade-Related Policies: Promotes publication in IAPA of scholarly and general information on policy development, case studies, methodologies and codes of good practice that enables practitioners in the developed and developing countries to conduct IAs. Section coordinators: Bernice Goldsmith and Rachel McCormick (bernice@encs.concordia.ca and rachel.mccormick@international.gc.ca).

Public Participation: Explore principles and techniques of effective public participation as part of EA. Section coordinators: John Devlin and Dusica Radojicic (jdevlin@uoguelph.ca and dusica.pula@inet.hr).

SEA: All aspects of strategic environmental assessment, development of legislation, and SEA as a tool for cumulative effects assessment, etc. Section coordinator and listserv facilitator: Thomas Fischer (fischer@liv.ac.uk).

SIA: The development of professional good practice in all aspects of SIA, drawing on the experience of SIA practitioners in the private, public and academic sectors around the world. Section coordinator: Ilse Aucamp (ilsea@lantic.net). Listserv facilitator: Frank Vanclay and others.

STUDENTS AND EARLY PROFESSIONALS GROUP

Students and Early Professionals (SEP) is not a formalized Section, but provides a forum for SEPs to exchange ideas and experiences. It is also intended to provide an opportunity to pursue improved SEP involvement in IAIA throughout the year and at IAIA annual meetings. Listserv facilitator: Tracey Nitz.

ALL IAIA08 PARTICIPANTS ARE INVITED TO ATTEND.

WHEN YOU PAY THE NON-MEMBER CONFERENCE RATE, YOU AUTOMATICALLY BECOME AN IAIA MEMBER FOR ONE YEAR!

Council Meeting

Wednesday 7 May • 12:10-13:00 • Meeting Room 9

The IAIA Council serves as an advisory resource to the IAIA Board of Directors. The Council is composed of the Board, all Committee chairs, Section chairs, representatives of Affiliates and Branches, the CEO and Headquarters representatives, and the Conference Program Chair(s) for the current-year conference and any future known conferences. Council meetings are open meetings; all IAIA members are encouraged to attend.

Committee and Section Meetings

Much of the cutting-edge work of IAIA is the direct result of Committee and Section activity. The only chance for Committees and Sections to meet throughout the year is at the annual conference.

Everyone is welcome to attend a Section meeting. See page 52 for a description of the Sections.

If you are interested in serving on an IAIA Committee, please indicate your interest on the member information directory form mailed to you when you pay your membership dues, or indicate your interest online in "Manage My Membership."

IAIA08 IS THE ONLY INTERNATIONAL, INTERDISCIPLINARY, EDUCATIONAL CONFERENCE DEDICATED TO ADVANCING THE ART AND SCIENCE OF IMPACT ASSESSMENT.

ABOUT IAIA

The International Association for Impact Assessment was organized in 1980 to bring together researchers, practitioners, and users of various types of impact assessment from all over the world.

IAIA members number over 2,500 and reside in over 100 countries. IAIA activities are carried out locally and regionally through its extensive network of Affiliates and Branches.

IAIA's Vision: IAIA is the leading global network on best practice in the use of impact assessment for informed decision making regarding policies, programs, plans, and projects.

IAIA's Mission: IAIA provides an international forum for advancing innovation and communication of best practice in all forms of impact assessment to further the development of local, regional, and global capacity in impact assessment.

IAIA's Values: IAIA promotes the application of integrated and participatory approaches to impact assessment, conducted to the highest professional standards.

IAIA believes the assessment of the environmental, social, economic, cultural, and health implications for proposals to be a critical contribution to sound decision-making processes, and to equitable and sustainable development.

Annual General Meeting (AGM)

Thursday 8 May • 12:10-13:00 • Meeting Room 4

This is the annual business meeting of the Association. All meeting participants are encouraged to attend, learn more about the operation of the organization, and ask questions.

2008 AGM Agenda

1. Welcome, introductions, and confirmation of 2007 AGM minutes.
2. • Code of Conduct
 - Bylaws
3. Outstanding Service to IAIA Award: Julieta Pisanty-Levy
4. IAIA 2007/8: What have we done and where are we going?
5. Any debate? Items submitted in writing by members.
6. Have your say: Informal discussion of matters that members wish to raise.
7. Closing remarks.

Notes

Tips and Information

Definition of Terms

Annual Conference: An extended collection of IAIA and IAIA-related events within a week to two-week time frame, including special meetings, technical visits, short courses, and social events.

Annual Meeting: The core of the annual conference; typically 3-4 days devoted to plenaries, concurrent sessions, and IAIA business.

Session: A block of time during which presentations are made on a single topic.

Concurrent sessions: Sessions running in parallel, during which approved papers are presented by authors and discussed by participants.

Paper presentation: The oral summary of a paper within a session.

Poster: Visual presentation of a paper or project by means of graphics, photos, data, and a small amount of text on a display area. Posters are self-explanatory, but poster authors are available to answer questions during the session dedicated to poster viewing.

Paper session: A chaired paper session allows up to 4-5 presentations on a related topic. Depending upon the number of presentations, each presenter is typically allocated 15-20 minutes, including time for specific questions. Ideally, time is also be allocated following the presentations for more general questions and open discussion.

Workshop: A workshop is similar to a paper session except that more time is allocated for general discussion following the presentations. This means that there may only be 2-3 presentations and/or presentations may be shorter.

Panel discussion: Similar to a workshop, except that panel members are invited, and ideally represent different viewpoints on the topic at hand. Following brief presentations, panel members debate issues and respond to questions put forward by members of the audience in a chaired discussion.

Roundtable: Involves a group of individuals, some of whom may be invited, holding an informal discussion on a specific topic or problem, with no formal presentations.

Theme forum: Smaller than plenaries and larger than concurrent sessions, theme forums bring together on a particular topic the various aspects of impact assessment and examine how those aspects apply to different sectors and issues. The Theme Forums on the IAIA08 final program were competitively selected by the program committee based on relevance of topic, quality of content, and selection of speakers.

Practitioner Exchange: Provides an opportunity for up to 8 conference participants to present a brief overview of their work and network with others in the same field.

Meeting Place: Similar to a Practitioner Exchange except that only up to 5 brief presentations are made, with remaining time available for one-on-one or small group discussions between presenters and interested audience members.

Indaba: For issues that arise during the conference and that practitioners want to pursue through informal follow-up discussions. During the morning, participants post potential topics for discussion, and individuals interested in each topic sign up for the related discussion. If a topic generates sufficient interest, space is made available for the discussion to take place in the late afternoon.

Innovations in Participation

- **21st Century Dialogue:** Participants are seated in groups of 10, guided by a table facilitator and connected by a networked computer. Views are input into the computers and analyzed by a Theme Team that identifies emerging themes and priorities which are projected back into the room in real time.
- **World Café:** World Café comprises progressive rounds of conversation among groups of 5-6 participants. Each round lasts 15-20 minutes, after which participants are invited to form new groups and continue the conversation drawing in ideas and comments from earlier discussions. The session concludes with a whole-group discussion.
- **Open Space Technology:** Provides an opportunity for a large group to self-organize into smaller groups, each focusing on a particular aspect of a complex issue. Participants are invited to initiate discussions by nominating topics. Others can then elect to join a discussion that resonates with their own interests and passions, and are free to move between groups as they choose. The larger group, the Open Circle, reconvenes at the conclusion of the session to share experiences.

How to Get the Most from This Conference

- **Inform, prepare, and orient yourself.** Check in early and then take time to walk through the venue to familiarize yourself with locations of activities before the rush of the conference begins. Read through the program carefully and highlight the sessions you want to attend. Read the summaries and prepare questions for the speakers.
- **Make a goal sheet.** Why did you decide to register for this program? What is it you expect to gain? Take a moment to think about your goals. Then clarify them by writing them down in your program. Look over your goal page throughout the conference; it will help you keep your goals focused.
- **Meet other people.** This is an excellent opportunity to expand your network of contacts. Sit next to someone you don't know, even if you've come with a group. Mingle during the breaks. Exchange business cards. Every participant here has a specific area of expertise; find out what it is instead of chatting about the weather. Let us suggest that one of your goals be to meet at least one person each day whom you intend to communicate with again on a business or social basis.
- **Participate!** Ask questions. Make contributions. Actively participate in the exercises. Consider the meeting room to be a "mental gym" where it's okay to run, fall, and get up again. You'll benefit much more by participating in the game than sitting on the sidelines.
- **Relate what you learn to yourself.** Don't settle for "abstract" knowledge. Have your current problems, conflicts and interests foremost in your mind. As you learn new approaches and techniques, relate them to your own situation.
- **Make a commitment to review your notes.** Right now, take out your calendar and make a one-hour appointment with yourself in a few weeks to "retake" the program. Don't put your good ideas away with your notes. And consider reviewing your notes each evening during the conference while your ideas and enthusiasm are fresh.
- **Write a "Dear Boss" letter.** If your boss or company sent you to the conference, thank them with a letter. Include a list of your action ideas based on your action plan and goals - what you intend to do or change as a result of what you have learned. If you paid your own way, still send the letter. It will show how committed you are to your own professional growth.
- **Enjoy yourself.** Start relaxed (rest and rehydrate to help recover from jet lag) and you'll leave refreshed, inspired and recharged. Forget about what's happening at the office. This is your conference. Get all you can out of it.



General Information

Conference Papers and Proceedings

Participants list: A list of pre-registered participants is provided in the delegate packets. A final list of participants will be posted online after the conference.

Proceedings: IAIA will be publishing peer-reviewed papers online following the conference. Preparation of a full paper is optional. For online publication, materials must have been submitted by 31 March. This is the first time IAIA has published proceedings exclusively online and represents another important step in expanding the global impact assessment forums.

Note to Presenters and Attendees

Discussants and individuals presenting papers should arrive at their sessions 5-10 minutes early to allow time to meet the session chair and load presentations onto the computer. As a courtesy to others in the session, presenters and other attendees are requested to attend all papers in the session.

Presentation Equipment

LCD (PowerPoint) projectors and laptop computers are provided in each concurrent session room. Presenters were responsible for making arrangements by 31 March to reserve and pay on their own for any other equipment needed for their presentations.

Presenters load their own files on the laptops provided; this should take no more than 2 minutes. Preferably, PowerPoint files should be saved to CD-ROM or memory stick. If the file is saved to disk, allow some additional time to change the drive in the laptop from CD-ROM to disk. For security reasons, the session rooms and laptops are not available until the break just prior to the start of the sessions. Preparation of files on a Mac computer is not recommended; the venue does not have Apple capabilities. Testing of a Mac presentation on an IBM or HP should have been done prior to arriving at the conference, and Mac presenters must provide their own VGA connectors.

Presenters are solely responsible for any breakdown of equipment they brought with them to PCEC.

Business Services Equipment

Because of high rental costs which would necessarily be passed on to all delegates in the form of higher registration fees, IAIA does not provide copying, printing, computers or other business services on-site. For photocopying or printing, delegates are advised to visit the business office at the PCEC.

Poster Presenters

Poster panels are set up and assigned to each poster presenter. You may hang your poster any time between 09:00 - 17:00 on Monday, 5 May. Posters will be on display until 10:30 on Friday, 9 May, and should be taken down between 10:30-12:30 on Friday. Please note: IAIA, the conference organizers and the PCEC are not responsible for poster materials on display, or posters/cases during the conference or left after 12:30 on 9 May. Check in at the IAIA registration desk for Velcro to hold your poster in place. Preparation

of a full paper is optional. If you have a full paper related to your poster topic, see the information at left in "Conference Papers and Proceedings." The poster session is scheduled for Wednesday, 7 May at 18:00.

Booths/Tables

Set up is from 09:00-17:00 on Monday, 5 May. Take down is 10:30-12:30 on Friday, 9 May. Please note: IAIA, the conference organizers and the PCEC are not responsible for materials on display, or materials left after 12:30 on 9 May.

Display Table and Book Share

A table is provided in the exhibit area for IAIA members to display information, distribute conference papers, or announce/distribute non-commercial items (leaflets, brochures, books, etc.). The purpose of this table is to enhance the exchange of information. No commercial (sales) materials are permitted. Inappropriate materials are subject to removal. IAIA, the conference organizers, and the PCEC are not responsible for items displayed or left after 12:30 on 9 May.

Be sure to visit the book share table as well. Donate a new or recycled book, or take a book if you find one that might not be readily available back home.

Registration and Fees

All conference participants, including delegates, session chairs, invited speakers, organizers, exhibitors and paper and poster presenters, are required to register for the conference at the full, student, or exhibitor registration fee.

Full and student registration fees entitle delegates to attendance at all sessions, coffee breaks, lunches, opening reception, participants list, delegate packet, conference proceedings, and special events, unless an additional fee is noted.

Payment and Refund Policies

Fees are accepted by cash (US \$, Australian \$), MasterCard, Visa, American Express, check, or international money order. Personal checks must be for US\$ drawn on a US bank. Traveler's checks and international money orders must be in US\$.

No registration will be processed without payment unless arrangements were made with IAIA HQ by 16 April.

Registrations after 16 April are accepted on-site only. Official receipts for on-site registration (after 16 April) will be issued by mail after the conference.

IAIA refunds registration fees upon written request received before 29 February. A US\$66 processing fee is retained. After 29 February, no refunds are issued for cancellations or no-shows. Substitutions for paid registrants may be made in writing without penalty. Refunds will be issued after the conference.

Insurance and Liability

The organizing committee and IAIA will not be responsible for medical expenses, accidents, losses or other unexpected damage to property belonging to conference participants, either during or as a result of the conference and during all tours and events.

Name Badges

All conference participants, including speakers and exhibitors, receive a name badge at check-in. The badge is your official pass and must be worn to ensure entry to conference activities.

Meals

Based on the data collected via registration forms, IAIA has estimated a percentage of vegetarian and special meals. This does not guarantee accommodation of individual preference.

Smoking

Smoking is prohibited in all enclosed public spaces, including the Perth Convention Exhibition Centre, restaurants, bars and clubs.

Taxes

A 10% Goods and Service Tax (GST) is included in the price of most goods and services purchased in Australia.

Tourist refund scheme: Australia offers a GST refund to all international visitors for *goods* that are taken as hand luggage as the visitors leave Australia. Refer to www.customs.gov.au/site/page.cfm?u=4646.

Business GST reclaim: Non-resident entities, including government departments and not-for-profits, are entitled to recover the GST paid on any business expense (service) incurred by employees and delegates in Australia. For IAIA08, this includes registration fees of any type, accommodation, meals, transport, professional fees, etc.

GST on sponsorship and like promotional expenses is also reclaimable. Refer to www.GSTreclaim.com.

"Quickpass to the Fastlane"

All conference participants whose registration and fees were received by 29 February were mailed a purple "Quickpass." Look for purple signs designating the Quickpass registration desk and show your Quickpass for express check-in!

Tourist Desk

The City of Perth will host a concierge desk in the PCEC Lobby.

Conference Evaluation

An evaluation form will be sent electronically to all participants following the conference.

Exhibitors

BOOTHS

- **Department of Environment and Conservation**
- **URS**
- **RPS**
- **Creating Community**
- **IAIA09**

TABLES

- **Rabel Burdge (Social Ecology Press)**
- **Book share**

Donate a new or recycled book, or take a book if you find one that might not be readily available back home.

- **Member display**

A table is provided in the exhibit area for IAIA members to display information, distribute conference papers, or announce/distribute non-commercial items (leaflets, brochures, books, etc.). The purpose of this table is to enhance the exchange of information. No commercial (sales) materials are permitted; inappropriate materials are subject to removal.



Re-injecting good sense.

As a bridge to a sustainable energy system, Carbon Capture and Storage (CCS) is a safe and efficient method for capturing and storing millions of tonnes of CO₂ underground for thousands of years. StatoilHydro is a world leader in CCS with experience from the Sleipner field in the North Sea and the In Salah field in the Algerian desert. At our Mongstad refinery, a Carbon Capture and Storage plant is under development that will apply even more advanced technology. StatoilHydro will continue to develop this technology as an important tool for CO₂ reduction for many years to come.

Discover more at www.statoilhydro.com

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Australian Government

Department of the Environment, Water, Heritage and the Arts



The Department of the Environment, Water, Heritage and the Arts focuses on matters of national environmental significance by:

- Advising the Australian Government on its policies for protecting the environment and water resources
- Administering environment and heritage laws, including the *Environment Protection and Biodiversity Conservation Act 1999*
- Managing the Australian Government's main environment, water and heritage programs
- Implementing an effective response to climate change
- Representing the Australian Government in international environmental agreements related to the environment and Antarctica.

For further information

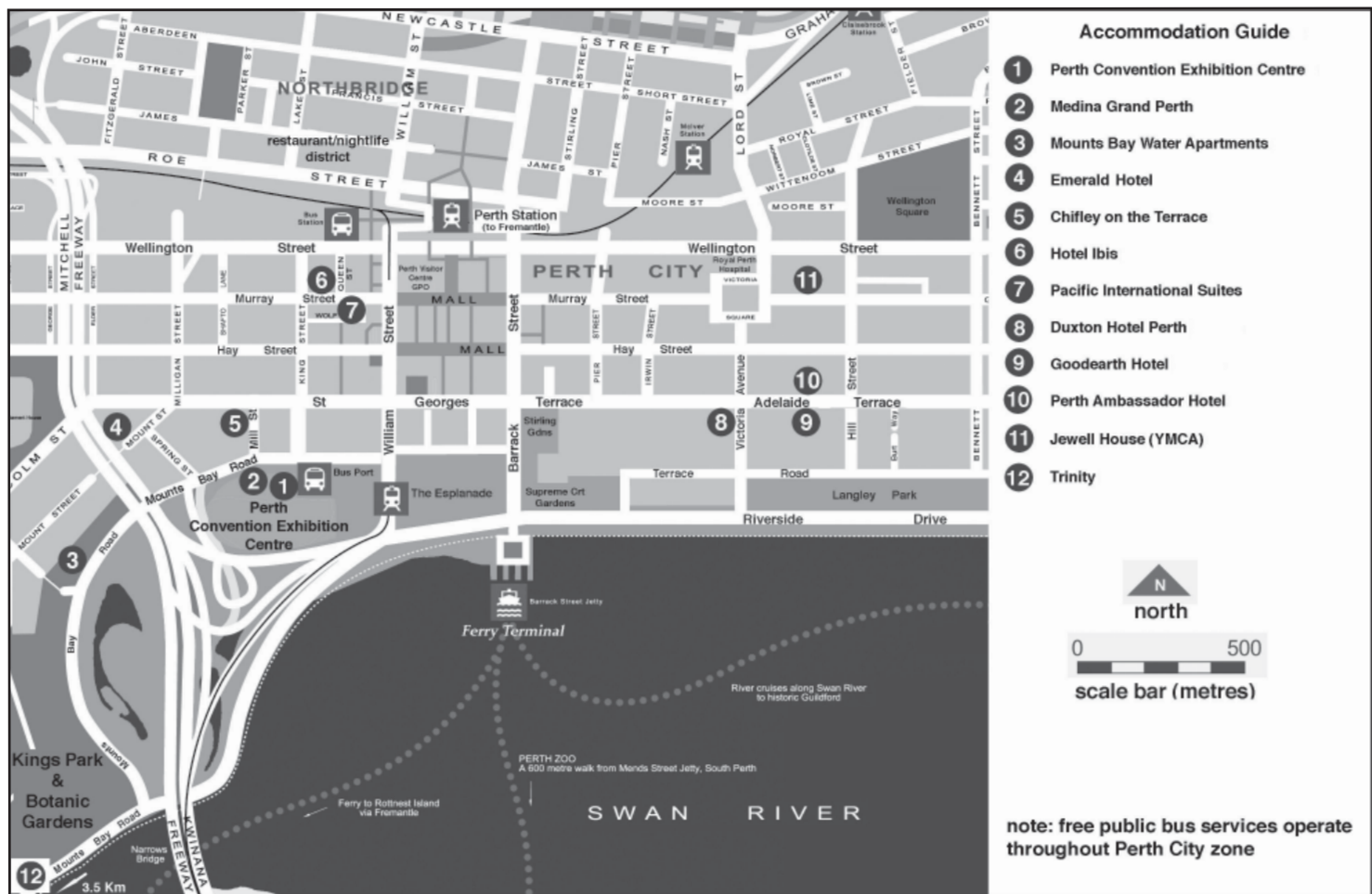
Email: ciu@environment.gov.au

Visit: www.environment.gov.au

Freecall: 1800 803 772

Images: Southern Right Whale - © Dave Watts; Luna Park, Victoria - J. Baker and the Australian Heritage Photo Library; Legless Lizard - Andrew Tatnell; Beach and Hooker Banksia - J. Baker and the Australian Heritage Photo Library.

Conference Hotels



Greening the Conference

Does IAIA practice what it preaches? Yes, and more so every year. IAIA takes the following steps to mitigate the impacts of our conferences:

- Limit printed materials; communicate via e-mail and web to the extent practical and possible
- Contract only with venues that participate in green programs (e.g., hotels that provide a linen and towel reuse program)
- Use bulk servings and pitchers rather than individual bottles
- Use china and silverware rather than disposables
- Provide recycling bins for discarded paper products
- Ask delegates to confirm their attendance at events and functions to reduce waste and leftovers
- Provide evening sustainable dining options
- Encourage delegates to purchase carbon-offset credits for their flights

Specific initiatives at IAIA08 include:

- Perth Convention Exhibition Centre is currently in the process of undertaking the Green Globe Benchmarking program. Green Globe is an internationally-recognized travel and tourism benchmarking program. The company behind Green Globe, EC3 Global, works with organizations to make operational changes and provide environmental management to help the organizations achieve sustainability. More information on this program can be found at www.greenglobe.org.
- The IAIA08 carbon offsets program offers all delegates an opportunity to help to offset their own carbon emissions associated with attending IAIA08, as well as those of other delegates. Details of this "carbon offsets program with a difference" are available on page 3.
- Students from Murdoch University have undertaken a sustainability assessment of IAIA conferences, and have plenty of great ideas for improving the sustainability of future conferences. The best three posters will be displayed in the poster area throughout IAIA08.

Delegates are welcome to make additional suggestions on the IAIA08 conference evaluation form (which will be distributed electronically to delegates following the conference) or by contacting IAIA HQ at any time.

Medina Grand Perth

33 Mounts Bay Road
+61 1300 633 462

Mounts Bay Water Apartment

112 Mounts Bay Rd
+61 8 9486 7998

Emerald Hotel

24 Mount Street
+61 08 9481 0866

Chifley on the Terrace

185 St Georges Terrace
+61 8 9226 3355

Hotel Ibis

334 Murray Street
+61 8 9322 2844

Pacific International Suites

305 Murray Street
+61 8 9347 7007

Duxton Hotel Perth

1 St Georges Terrace
+61 8 9261 8000

Goodearth Hotel

195 Adelaide Tce
+61 8 9492 7777

Perth Ambassador Hotel

196 Adelaide Tce
+61 8 9325 1455

Jewell House (YMCA)

180 Goderich St.
+61 (08) 93258488

Trinity

230 Hampden Road, Crawley
+61 08 9423 9423

ABOUT THE HOSTS



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Our environment, our future



Australian Government
Department of the Environment,
Water, Heritage and the Arts



ENVIRONMENT
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AUSTRALIA AND
NEW ZEALAND



Environmental
Consultants
Association



Murdoch
UNIVERSITY

Department of Environment and Conservation

is a Western Australian government agency that has responsibility for protecting and conserving the State's environment on behalf of all Western Australians. Its key responsibilities include conserving biodiversity and protecting, managing, regulating and assessing the impacts of the use of the State's natural resources.

The Department of the Environment, Water, Heritage and the Arts

is an Australian Government department that focuses on matters of national environmental significance by: advising the Australian Government on its policies for protecting the environment and water resources; administering environment and heritage laws, including the Environment Protection and Biodiversity Conservation Act 1999; managing the Australian Government's main environment, water and heritage programs, implementing an effective response to climate change; and representing the Australian Government in international agreements related to the environment and Antarctica.

Environment Institute of Australia and New Zealand

(EIANZ) is the peak professional body in Australasia for environmental practitioners, promoting independent and interdisciplinary discourse on environmental issues, and excellence in environmental practice. EIANZ launched Australasia's first certification scheme for environmental professionals in 2004, and recently celebrated its 20th anniversary.

Environment Consultants Association (WA)

is the peak professional body representing commercial environmental consultants throughout Western Australia. The Association both represents the interests of its members and promotes development of the environmental industry. Membership of the association is restricted to commercial environmental consultants who possess the appropriate qualifications and length of experience and commit to the ECA Code of Conduct.

Murdoch University was established in 1975 on a large bush and farm campus in the southern suburbs of Perth. It has long specialized in IA education. Two of its key academic units, the School of Environmental Science and the Institute for Sustainability and Technology Policy, are international leaders in research and teaching across the full spectrum of the arts and sciences of sustainability and environmental management.

The organization of IAIA08 is supported by EECW Pty Ltd (www.eecw.com.au).

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IAIA gratefully acknowledges these companies and organizations for their generous financial and in-kind support of IAIA08.

By sharing their resources, these companies and organizations demonstrate their commitment to the environment and contribute to the improvement of impact assessment around the globe.

When you meet a representative of these sponsors, at the conference or in the months ahead, please be sure to thank them for their contribution.

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