

24th Annual Conference

**International Association for Impact Assessment**

24-30 April 2004 Vancouver, Canada

# Whose business is it?

**Impact Assessment for Industrial Development**



Hosted by the Canadian Affiliates of IAIA

IAIA-Western and Northern Canada Affiliate  
Ontario Association for Impact Assessment  
Association québécoise pour l'évaluation d'impacts

With support from  Government of Canada  Gouvernement du Canada 

Ce document est également disponible en français.



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## Special Thanks

To the many volunteers who have helped make IAIA'04 a tremendous success.

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## Welcome from the Canadian Affiliates

We, the presidents of the three Canadian affiliates of IAIA, warmly welcome you to the 24th annual conference of the International Association for Impact Assessment (IAIA). Ahead of you in this beautiful setting of Vancouver lies an opportunity to share with your colleagues from Canada and around the world the excitement and challenges of the rapidly evolving field of impact assessment. Hear how private sector enterprises are working with governments, Aboriginal peoples and a wide range of stakeholders to implement state-of-the-art impact assessment practices. Learn more about how they are integrating environmental management systems, triple bottom line accounting, adaptive management and sustainability into their day-to-day business practices. Contribute to the discussion of how we can secure a sustainable future for our planet and, particularly, how impact assessment can play an important role in achieving that objective. Share your ideas on how to make impact assessment more effective and efficient. Exchange your knowledge, experience, hopes and wisdom with others.

The principles of impact assessment and sustainable development are increasingly being internalized by Canadians, and are being reflected in the way we do business on a daily basis. For these reasons we are excited about the theme of the conference and delighted to host the world impact assessment community in beautiful Vancouver. Enjoy the conference and its events. More importantly, share with your families and friends the attractions of one of the world's most spectacular cities. Experience our renowned Canadian hospitality and join with us in saying to each and every one of you "Welcome to Canada! Bienvenue au Canada!"



**Bill Ross**

President

IAIA Western & Northern Canada  
Affiliate (IAIA WNC)



**Ginette Lajoie**

President

Association québécoise pour  
l'évaluation d'impacts (AQÉI)



**Ray Lamoureux**

President

Ontario Association for Impact  
Assessment (OAIA)

## Welcome and Introduction to IAIA'04

I am very pleased to welcome you to IAIA'04 here in Vancouver, B.C., Canada. If this is your first experience of an IAIA annual meeting, we can promise you a stimulating and informative time. If you are an "old hand," then I need hardly remind you of the opportunities the meeting presents for networking and for keeping abreast of new thinking, new approaches, and stimulating examples of good practice across the wide field of impact assessment.

The theme this year is very important: if impact assessment is to be effective in helping society to move closer to the goal of sustainable development, business needs to be viewed as a partner in the process, alongside communities and individuals, interest groups and statutory agencies. True to the spirit of IAIA, this is best achieved by openly sharing views, ideas and experiences, so at this meeting we are wanting plenty of communication between all participants! The organisers have done a magnificent job attracting so many people and developing a first rate programme around the central theme of business and impact assessment: let's do justice to their efforts. You may find it useful to look at the suggestions in the programme for navigating your way through the next few days to get the most out of the meeting.

If you are new to IAIA and want to know more about us, come to one of our introductory talks; some of you may also have taken advantage of our new mentoring scheme to help ease you into the community of impact assessors and guide you through the meeting. Please feel free to come up and talk to me during the refreshment breaks: I'm always happy to chat about IAIA and impact assessment, and I'll facilitate your introduction to other participants if that would help! And if, like me, you are making your first trip to this beautiful city, be sure to make some time for looking around. Have a rewarding meeting and a very enjoyable stay.



**Richard Morgan**

President

International Association for Impact Assessment



### ■ Technical visits

Technical visits are on Saturday and Sunday, 24 – 25 April and on Friday, 30 April. Please plan to check in at the registration desk and then assemble in the North Tower, Lobby Level of the hotel at least 15 minutes prior to the departure time of your visit. You must be pre-registered and pre-paid to participate.

#### A. Greenhouse Operation

Saturday, April 24, 12.45–16.30

Host: Canagro Produce Ltd. and the BC Greenhouse Growers' Association

#### B. Hydroelectric Development

Sunday, April 25, 8.15–16.30

Host: British Columbia Hydro

#### C. Roberts Bank Superport Development

Sunday, April 25, 8.45–16.30

Host: Vancouver Port Authority

#### D. Fraser River Estuary and Vancouver International Airport

Sunday, April 25, 8.45–16.30

Host: Fraser River Port Authority and Vancouver International Airport

#### E. Esquimalt Graving Dock (Dry Dock) Victoria Via the Gulf Islands

Friday, April 30, 7.00–19.30

Host: Public Works and Government Services Canada; Parks Canada and National Defence Canada

#### G. Sea-to-Sky Highway Improvement Project and 2010 Winter Olympics Games Venues

Friday, April 30, 8.15–18.00

Host: BC Ministry of Transportation

#### H. Urban Sustainability in Vancouver

Friday, April 30, 8.45–16.30

Host: Jack Bell Foundation

### ■ Poster session

Tuesday 27 April 17.00–18.30

Junior Foyer, Third Level

The poster session offers an opportunity to meet poster authors and to discuss with them questions and issues raised by the posters. Posters will be exhibited throughout the conference. The Best Poster of IAIA'04 and the Best IAPA Paper of 2003–2004 will be announced during this session.

### ■ Practitioners' Forum

- Monday, 26 April 17.30
- Tuesday, 27 April 17.00
- Wednesday, 28 17.00

See the daily schedule for locations.

These sessions are for issues that arise during the conference and that practitioners wish to pursue through informal follow-up discussion. Sign-up sheets will be available at the registration area for you to propose topics for discussions and for individuals interested to sign up for the discussion. Space will be allocated according to demand.

### ■ Simultaneous interpretation

English is the primary language used at IAIA conferences. With the support of the Government of Canada, simultaneous interpretation between English and French will be provided for the opening and closing plenaries, the Theme Forums, and several sessions (see page 19). Most other sessions will be held in English.

### ■ World Bank Group Day

The State-of-the Art of Environmental and Social Impact Assessment (ESIA).

24 April, 9.00–17.00

This seminar provides a comprehensive and practical overview of how the World Bank Group assists its borrowers in carrying out ESIA's on the projects that the World Bank Group agencies are funding. The following aspects will be covered: 1) a description of how ESIA is performed, focusing on actual practice; 2) the policy and guidance framework within which ESIA are prepared and implemented; 3) case studies to provide practical examples of how large and small/medium investments are assessed.

Lunch and a reception from 5:00 to 6:30 p.m. are included. The seminar is free, but pre-registration by 31 March was required.

Organized by the World Bank Group (IBRD/IFC/MIGA)

### ■ Opening reception

#### ■ A West Coast Welcome

Sunday, 25 April, 18.00–20.00

The Great Hall of the Law Courts

The opening reception of IAIA'04 will be held in the elegant surroundings of the Great Hall of the Law Courts of British Columbia. The venue, a seven-storey hall with a glass roof, is a stunning example of West Coast architecture designed by world-renowned Arthur Erickson. The menu will feature delicious West Coast food and drink.

The Great Hall entrance is located at the corner of Nelson and Hornby Streets, just across the street, to the north-west, from the Sheraton. Your IAIA'04 name badge will be necessary for admission, so please check-in at the IAIA'04 registration desk before 18.30. Guests must obtain a complimentary ticket from the IAIA'04 registration desk.

Sponsored by Golder Associates Ltd.



### ■ Conference dinner and party

#### ■ 'Cross Canada Casual

Wednesday 28 April 19.00

The Grand Ballroom of the Sheraton

The business of the week is almost over and this evening's gathering is an opportunity to kick back and have some fun Canadian-style. It will be a casual light-hearted evening with food, music and entertainment that reflects Canadian hospitality. Come to relax and enjoy yourself and be ready to join in! Your Canadian hosts await you for an evening to remember.

Registered delegates are required to wear their IAIA'04 name badge for admittance. Tickets at CAN\$30 or US\$25 may be purchased for guests from the IAIA'04 registration desk on Monday afternoon, 28 April

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## Canada

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- Hardy Stevenson & Associates Ltd.
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- Pottinger Gaherty Environmental Consultants Ltd.
- SEACOR Environmental Inc.
- Vancouver International Airport Authority

# Impact Assessment for Industrial Development — Whose business is it?

The private sector has participated in impact assessment (IA) since its inception. In market economies, project proponents, financiers, designers, constructors, operators and their consultants have now been actively engaged in IA processes for more than 30 years.

Globally, as national economies de-regulate and continue their shift towards market models, the role of the private sector in shaping the world we live in has increased in many ways. Ongoing privatization of the economy has important ramifications on human society and the environment, and is having a profound effect on the field of impact assessment. Impact assessment has matured greatly, and now operates well beyond its original local, project-oriented focus. Impact assessments are undertaken not only at local scales, but also at regional, national, international and even global scales. IA is also being used more strategically, and is now being applied to policies, programs and plans; to complex regional development scenarios; and even to whole economic sectors. Aboriginal or indigenous peoples, non-governmental organizations (NGOs), locally affected individuals and a variety of other stakeholders are playing increasingly important roles in impact assessment. Finally, there are expectations that impact assessment will contribute significantly to worldwide efforts to secure a sustainable future for the human race. Contributing in a meaningful way to sustainability is perhaps the greatest challenge faced by the impact assessment community, and likely will be a major criterion upon which the historical relevance of impact assessment is judged by future generations.

As impact assessment has matured and has broadened its range of parameters and inputs, its practicality and relevance have also been challenged. As a result, it is important to investigate how impact assessment tools can be most effectively used to achieve sustainable development.

The private sector with its long-standing involvement in IA at many levels has much to contribute to the future practice of impact assessment. Its overarching goal of efficient and effective use of limited resources can inform IA processes. Its management expertise can support the execution of impact assessment work in a timely and cost-effective manner. It provides numerous examples of forward-looking and progressive enterprises that are already looking beyond the boundaries of traditional impact assessment. These enterprises are taking bold and innovative steps to internalize sustainability principles in their corporate cultures, and to adjust their systems and procedures.

Accordingly, IAIA'04 is dedicated to the theme: Impact Assessment for Industrial Development – Whose business is it? The conference provides an important international venue for private sector firms, as well as state-owned corporations, to highlight their achievements in impact assessment and in managing for sustainability. The conference also offers a forum for all members of the impact assessment community — be they from the private sector; the public sector; Aboriginal or indigenous communities; non-governmental organizations; or the educational, research and health sectors — to share experiences and insights, and to discuss their respective roles in achieving a sustainable future.

The Program Committee welcomes you to Vancouver and values the new perspectives and breadth of experience each of you bring to this important event. We look forward to hearing from you – and to your participation.

Photo courtesy of Environment Canada

## Saturday 24 April

- 8.00-12.45 Registration** (Junior Foyer)  
Technical visits, training course participants, and World Bank Day participants
- 9.00-17.00 Training Courses**
- 1a. SEA Experience & Practice (Granville)
  2. Designing Effective EIA Training (Beluga)
  3. Interest-Based Negotiation in IA (Vancouver)
  4. SIA Concepts, Process, Methods (Galiano)
  7. Improving EIA Effectiveness (Burrard)
  8. Cumulative Effects: New Practices (Finback)
- 9.00-17.00 World Bank Group Day** (Junior Ballroom)  
See page 4 for information.
- 12.45-16.30 Technical Visit A: Greenhouse Operation**  
Depart from the North Tower, Lobby Level

## Sunday 25 April

- 7.45-18.30 Registration** (Junior Foyer)
- 9.00-17.00 Training Courses**
- 1a. Plan/Programme option (Burrard)
  - 1a. Policy option (Granville)
  - 1b. Policy forum (Granville)
  2. Designing Effective EIA Training (Beluga)
  3. Interest-Based Negotiation in IA (Vancouver)
  4. SIA Concepts, Process, Methods (Galiano)
- 8.15-16.30 Technical Visit B: Hydroelectric Development**
- 8.45-16.30 Technical Visit C: Roberts Bank Port Development**
- 8.45-16.30 Technical Visit D: Fraser River Estuary and Vancouver International Airport**  
All Technical Visits will depart from the North Tower, Lobby Level
- 18.00-20.00 Opening Reception**  
The Great Hall of the Law Courts  
*Sponsored by Golder Associates*

## Monday 26 April

- 8.00-15.30 Registration** (Junior Foyer)
- 7.30-8.30 IAPA Editorial Board** (Parksville)
- 8.30-10.00 Opening Plenary** (Grand Ballroom)  
*Chair: Ginette Lajoie*
- Traditional Welcome: Chief Ian Campbell, a Hereditary Chief of the Squamish Nation
  - Opening Address: The Honourable David Anderson, Minister of the Environment, Government of Canada
  - Opening Address: The Honourable George Abbott, Minister of Sustainable Resource Management, Government of British Columbia
  - Welcome to IAIA: Richard Morgan, President IAIA
- 10.00-10.30 Break** (Grand Ballroom Foyer)
- 10.30-12.00 Opening Plenary** (Grand Ballroom)  
*Chair: Christopher Wood*
- Integrating Climate Change into Impact Assessment: Challenges for Integrity and Credibility: Dr. Bob Page, Vice-president, Sustainable Development, TransAlta
  - Impact Assessment: A Tool for Aboriginal

Development: Dr. Ted Moses, Grand Chief, Grand Council of the Crees

- Impact Assessment and the Mining Industry: Perspectives from Tanzania: Professor Raphael Mwalyosi, University of Dar es Salaam
- 12.00-13.30 Lunch** (Junior and Pavilion Ballrooms)
- 13.30-15.00 Concurrent Sessions** (see page 20)
- 15.00-15.30 Break** (Junior Foyer)  
*Sponsored by British Columbia Environmental Assessment Office*
- 15.30-17.00 Concurrent Sessions** (see page 21)
- 17.00-18.30 IAIA Annual General Meeting** (Grand AB Ballroom)
- 17.30-19.00 Practitioners' Forum** (Beluga, Finback, Orca, Parksville)
- 18.30-20.00 Committee Meetings** (All meet in Grand AB Ballroom)
- Training & Professional Development
  - Affiliates
  - Board Nominations
  - Publications
  - Awards
  - Sections Coordinating
  - Conferences: IAIA'05, SEA-Prague, IAIA Founders

## Tuesday 27 April

- 6.15 Fun Run**
- 8.00-15.30 Registration** (Junior Foyer)
- 8.30-10.00 Theme Forums**
1. Achieving Sustainability: The Role of Impact Assessment (Grand AB Ballroom)
  2. Integrated Assessment of International Trade (Junior CD Ballroom)
  3. Impact Assessment and the Oil and Gas Sector (Pavilion D Ballroom)  
*Sponsored by Gartner Lee Limited and RWDI West, Inc.*
- 10.00-10.30 Break** (Grand Foyer, Junior Foyer)  
*Sponsored by Saskatchewan Environmental Assessment Office*
- 10.30-12.00 Theme Forums**
4. Impact Assessment and International Finance (Junior CD Ballroom).  
*Sponsored by IFC and EDC*
  5. Voluntary Environmental Initiatives - Industry Achievements (Pavilion D Ballroom)
  6. Application of Impact Assessment to Fisheries, Agriculture and Forestry (Grand AB Ballroom)
- 12.00-13.30 Lunch** (Grand Ballroom)  
Presentation of Global Award
- 13.30-15.00 Concurrent Sessions** (see pages 22)
- 15.00-15.30 Break** (Junior Foyer)  
*Sponsored by Anadarko Canada Corporation*
- 15.30-17.00 Concurrent Sessions** (see pages 25)
- 17.00-18.30 Poster Session** (Junior Foyer)
- 17.00-18.30 Practitioners' Forum** (Beluga, Finback, Orca, Parksville)
- 18.30 Dine-Out Vancouver** (Depart from Junior Foyer)

## Wednesday 28 April

- 8.00–15.30 **Registration** (Junior Foyer)
- 8.30–10.00 **Theme Forums**
- Impact Assessment and the Electricity Sector (Pavilion D Ballroom)  
*Sponsored by Hydro-Québec and SEBI and  
SNC-Lavalin Inc.  
Génivar Inc.  
Nove Environnement Inc.  
Tecsult Inc.  
Le Groupe S.M. International Inc.  
Dessau-Soprin Inc.*
  - Industry Perspectives on Biodiversity and Impact Assessment (Grand AB Ballroom)
  - Infrastructure Development: An Opportunity to Advance Sustainability (Junior CD Ballroom)
- 10.00–10.30 **Break** (Grand Ballroom Foyer, Junior Foyer)
- 10.30–12.00 7. Impact Assessment and the Electricity Sector - continued (Pavilion D Ballroom)  
*Sponsored by Hydro-Québec and SEBI and  
SNC-Lavalin Inc.  
Génivar Inc.  
Nove Environnement Inc.  
Tecsult Inc.  
Le Groupe S.M. International Inc.  
Dessau-Soprin Inc.*
- 10.30–12.00 **Concurrent Sessions** (see page 26)
- 12.00–13.30 **Lunch** (Grand Ballroom)
- 13.30–15.00 **Concurrent Sessions** (see page 28)
- 15.00–15.30 **Break** (Junior Foyer)  
*Sponsored by BC Hydro*
- 15.30–17.00 **Concurrent Sessions** (see page 30)
- 17.00–18.30 **Section Meetings**
- Biodiversity & Ecology (Junior B)
  - Environmental Management Systems (Junior A)
  - Indigenous Peoples (Junior A)
  - Health Impact Assessment (Burrard)
  - Integrated Assessment of Trade (Port McNeil)
  - Urban (Port McNeil)
  - SEA (Port Alberni)
  - Disasters & Conflict (Galiano)
  - Environmental Legislation, Policies & Institutions & Impact Assessment (Vancouver)
  - Public Participation (Port Hardy)
  - SIA (Granville)
- 17.00–18.30 **Practitioners' Forum** (Beluga, Finback, Orca, Parksville)
- 19.00 **Conference Dinner and Party – 'Cross Canada Casual** (Grand Ballroom)  
Presentation of IAIA Rose-Hulman and Individual Awards  
*Sponsored in part by Government of Canada  
Hardy Stevenson and Associates  
Hemmera Envirochem  
Pottinger Gaherty Environmental Consultants Ltd.  
SEACOR Environmental Inc.  
Vancouver International Airport Authority*

## Thursday 29 April

- 8.00–11.00 **Registration** (Grand Foyer)
- 9.00–10.30 **Closing Plenary** (Grand Ballroom)  
*Chair: Bob Connelly*
- Follow-up on Marrakech Declaration and Action Plan: Peter Leonard
  - Conference Review: Bill Ross, Chair Program Committee
  - Awards and Recognition: Hussein Abaza, Chair, IAIA Awards Committee
- 10.30–11.00 **Break** (Grand Ballroom Foyer)
- 11.00–12.00 **Closing Plenary** - continued (Grand Ballroom)
- President's Address: Richard Fuggle, President, IAIA
  - Invitation to IAIA '05: Charlotte Bingham and Wes Fisher
  - Invitation to IAIA SEA-Prague: Jiri Dusik, Simona Kosikova, Martin Smutny, Marti Miroslav, Vladimir Zdrzil
  - Close of IAIA '04 Conference: Richard Morgan and Richard Fuggle
- 14.00–16.00 **Council Meeting** (Junior D Ballroom)

## Friday 30 April

- 7.00–19.30 **Technical Visit E: Esquimalt**
- 8.15–18.00 **Technical Visit G: Sea-to-Sky**
- 8.45–16.30 **Technical Visit H: Vancouver**  
All Technical Visits will depart from the North Tower, Lobby Level

# Theme forums agenda

Theme Forums will bring together the various aspects of impact assessment, examine how they apply to various sectors and issues, and open discussion around the question "Impact Assessment for Industrial Development - Whose Business Is It?". These forums will be integrative in nature and will tie together the various threads of impact assessment as they pertain to a specific sector or broad topic.

Each Theme Forum will deal with a key economic sector or an important facet of impact assessment. More detailed exploration of aspects introduced in Theme Forums will take place in subsequent Concurrent Sessions.

Theme Forum topics to be discussed at IAIA'04:

- Achieving Sustainability: the Role of Impact Assessment
- Integrated Assessment of International Trade
- Impact Assessment and the Oil and Gas Sector
- Impact Assessment and International Finance
- Voluntary Environmental Initiatives: Industry Achievements
- Application of Impact Assessment to Fisheries, Agriculture and Forestry
- Impact Assessment and the Electricity Sector
- Industry Perspectives on Biodiversity and Impact Assessment
- Infrastructure Development: An Opportunity to Advance Sustainability

## Notes

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and

SNC-Lavalin Inc.

Génivar Inc.

Nove Environnement Inc.

Tecscult Inc.

Le Groupe S.M.  
International Inc.

Dessau-Soprin Inc.

**Tuesday 27 April**  
**8.30-10.00**

## GRAND AB BALLROOM

### 1.0 Achieving Sustainability: The Role of Impact Assessment

Chair: J. Ashley Nixon

Conceptualising Sustainability Assessment: Three Models and a Case Study  
Jenny Pope

Progressing Toward Sustainable Development Through Reflexive Processes  
Brenda Kenny

Implementing Sustainable Strategies for Rural Land Use Planning and Resource Management of Publicly Owned Assets: An Analysis of Environmental Assessment Systems Being Developed by British Columbia Ministry of Sustainable Resource Management  
John Curry, Tony Jackson

Using Public Participation During an EIA to Guide Industry to Sustainable Development  
Tisha Greyling

## JUNIOR CD BALLROOM

### 2.0 Impact Assessment of International Trade: Whose Business Is It?

Chair: Clive George

Panelists:

Carlos Muñoz (Director General for Research on Environmental Economics & Policies, National Institute of Ecology, Mexico)

Scott Vaughan (Director, Unit for Sustainable Development & Environment, Organization of American States)

Rachel McCormick (PhD Candidate, University of Calgary)

Eric Peters (Directorate General of Trade, European Union)

## PAVILION D BALLROOM

### 3.0 Impact Assessment and the Oil and Gas Sector

Co-Chairs: Todd Zimmerling, Kathy Preston

Towards An Environmental Impact Assessment for the Mackenzie Gas Project: Opportunities, Challenges and Lessons Learned  
Alan J. Kennedy, Jeffrey Green, Gordon Rozon

Social Impact Assessments: A Case Study of the East-West Natural Gas Pipeline in China  
Eleanor Gill

Gulf of Mexico Challenges  
Harry Luton, Diane Austin

Developing Best Practices of EIA for the Oil and Gas Sector: The Need and Importance of Closer Cooperation between Canada and Kuwait  
Fatima Al-Abdali, Sami Al-Yakoob, and M. Husain Sadar



**Tuesday 27 April**  
10.30–12.00

JUNIOR CD BALLROOM

## 4.0 Impact Assessment and International Finance

*Co-chairs: Glen Armstrong, Art FitzGerald*

The Equator Principles: 20 Major Commercial Banks Commit to IFC's Environmental and Social Requirements—The Impact on Project Financing  
*Andre Abadie*

IFC's Approach to Environmental Assessment of Projects  
*Peter Neame, Ron Anderson*

Multilateral Development Banks Are Moving to a Common Framework for Environmental Assessment - The Importance of This Initiative to Environmental Assessment by International Financial Institutions and Signatories to the Equator Principles  
*Stephen Lintner*

Export Credit Agencies Adopt Environmental Requirements for Private Sector Projects—A Significant Impact on Project Financing  
*Arthur FitzGerald*

PAVILION D BALLROOM

## 5.0 Voluntary Environmental Initiatives - Industry Achievements

*Chair: Kathryn Harrison*

The Shifting Paradigm of Impact Assessment: The Emergence of Voluntary IA and Mitigation  
*John Dauvergne*

Should You Trust Voluntary Initiatives: Verification of Canadian Chemical Companies Under Responsible Care  
*Philip Byer*

The Canadian Industry Program for Energy Conservation (CIPEC): The Dynamics of a 28-Year Energy Efficiency Partnership Between Government and Industry  
*Philip Jago*

GRAND AB BALLROOM

## 6.0 Application of Impact Assessment to Fisheries, Agriculture and Forestry

*Chair: Hussein Abaza*

An Overview of the Application of EIA to Fisheries, Agriculture, and Forestry  
*Patrick Duffy, Laura Russo*

*Panel comments:*

Peter Duinker, Forestry; Tom Boivin, Fisheries; Patrick Duffy (tentative), Agriculture  
Interactive moderated discussion with forum attendees.

**Wednesday 28 April**  
8.30–10.00

PAVILION D BALLROOM

## 7.0 Impact Assessment and the Electricity Sector

### Part 1: Electricity and Development: The Role of Impact Assessment

*Chair: Peter Leonard*

The Outlook for Electricity and Development: Role of IA  
*Linda Ghanimé*

Energy, Electricity and Poverty: Challenges Ahead and the Role of IA  
*Eric Brusberg*

Perspectives et expériences récentes en pays en voie de développement  
*Sibi Bonfils*

Examples of Electrical Industry Contributions: The IHA Guidelines for Sustainability Assessment  
*Andrew Scanlon*

Discussion on the Role of Impact Assessment in the Electricity Sector: Effectiveness and Future Perspectives  
*Luis E. Montañez-Cartaxo, Linda Ghanimé, Eric Brusberg, Sibi Bonfils, Andrew Scanlon*

Review and conclusions  
*Mary Deming*

GRAND AB BALLROOM

## 8.0 Industry Perspectives on Biodiversity and Impact Assessment

*Chair: Heidi Klein*

Integrating Business Process and Biodiversity Conservation  
*Roger Creasey for Sachin Kaplin*

Impact Assessment in the Convention on Biological Diversity and Other Multilateral Environmental Agreements  
*Robert Höft*

The Biodiversity Assessment Framework: Biodiversity and Corporate Social Responsibility  
*Roel Sloodweg*

JUNIOR CD BALLROOM

## 9.0 Infrastructure Development: An Opportunity to Advance Sustainability

*Co-Chairs: Mary Ellen MacCallum, Malcolm Smith*

Promoting Sustainable Infrastructure Development in Canada: The Institutional Framework of Infrastructure Canada  
*Cecile Cleroux*

Comparing the German, Danish, and Dutch Institutional Structures for Investment in Transport Infrastructure and Devising the Ideal Model by Consulting Experts and Practitioners  
*Martin de Jong*

Integrating Sustainability in Regional Infrastructure Development  
*Greater Vancouver Regional District (TBA)*

Sustainability and Infrastructure Development Case Study  
*Patrick Condon*

**Wednesday 28 April**  
10.30–12.00

PAVILION D BALLROOM

## 7.0 Impact Assessment and the Electricity Sector

### Part 2: New Ways of Working with Indigenous People in Northern Québec: The Eastmain 1 & Eastmain 1A- Rupert Diversion Hydropower Projects

*Chair: Peter Leonard*

New Ways of Working with Indigenous People in Northern Québec: A Community and Stakeholder's Perspective  
*Billy Diamond*

New Ways of Working with Indigenous People in Northern Québec: A Proponent's Perspective  
*Philippe Mora*

A New Approach to Indigenous Participation in the Environmental Assessment of a Major Hydro Development  
*Carole Lévesque, Ginette Lajoie*

## 1. Achieving Sustainability: The Role of Impact Assessment

Chair: J. Ashley Nixon

In order to be a meaningful and worthwhile endeavour, impact assessment should contribute significantly to worldwide efforts to secure a sustainable future for the human race. This will likely be one of the most important criteria upon which the historical relevance of impact assessment is judged by future generations.

This theme forum will examine the connection between impact assessment and sustainability, and will seek to identify whether and how impact assessment has made a difference. It will explore ways in which the effectiveness of impact assessment in achieving sustainability objectives could be enhanced. It will also look at the ways in which impact assessment and related tools (e.g., environmental management systems, triple bottom line accounting, adaptive management) are being used by organizations in the day-to-day conduct of their businesses. It will explore how these evolving tools can be most effectively used to achieve a sustainable future.

This theme forum will provide an important jumping off point for a wide range of topics that will be pursued in detail in subsequent sessions.

## 2. Impact Assessment of International Trade

Co-Chairs: Clive George, Bernice Goldsmith, Thomas Gilmore

The theme forum will bring together the various thematic aspects of impact assessment of international trade, and open the discussion around the question "Whose business is it?" Two key themes are to be explored during the theme forum and pursuant concurrent sessions: i) how the various approaches to impact assessment of international trade inform the negotiation process and associated policy responses (i.e., how is decision-making affected?); and ii) the role of various players in the assessment process, notably government officials and the public.

The subsequent sessions related to this theme will include:

- A joint workshop of the Biodiversity & Trade Sections to consider the preliminary discussion paper, "Assessing the Biodiversity Impacts of Trade: Principles and Practice."
- A session on Country/Regional Approaches to Impact Assessment of Trade. This session will provide the context for undertaking impact assessment of trade by comparing and contrasting the different key approaches currently in use, and explore the future directions of this work.
- A session on Country Studies and Capacity Building Initiatives in Impact Assessment of Trade. This session will explore the interests and specific needs of developing countries with regard to designing and implementing appropriate national processes for impact assessment of trade.
- A session on Impact Assessment of Trade Liberalization and Multilateral Environmental Agreements. This session will examine how impact assessment of trade and multilateral environmental agreements (MEAs) can be mutually supportive.
- A session on Public Consultation, Corporate Responsibility and Technical Analysis in Impact Assessments of Trade. In keeping with the theme of IAIA - "Whose business is it?" – this session will explore the relationships between public consultation, corporate responsibility and technical analysis in impact assessments of international trade agreements, national trade policy and corporate trade policy.

## 3. Impact Assessment and the Oil and Gas Sector

Co-Chairs: Todd Zimmerling, Katherine Preston

Sponsored by Gartner Lee Limited and RWDI West Inc.

The oil and gas sector is a global leader in the application of impact assessment. Yet its detractors often claim that impact assessment processes are still not rigorous enough to prevent unsound projects. Its supporters, on the other hand, often protest that the sector is over-regulated and unfairly subjected to greater scrutiny than are other industrial sectors.

The discussions of impact assessment in the oil and gas sector will cover several areas:

- Project-specific experience and "lessons learned"
- Community impacts
- The application of traditional knowledge
- Advances in the impact assessment process
- Regional strategic environmental assessment
- Other technical areas of interest

Offshore oil and gas exploration and development experience will be highlighted during the sessions. Case studies illustrating both Canadian and international experience will be featured.

## 4. Impact Assessment and International Finance

Co-Chairs: Glen Armstrong, Arthur FitzGerald

Sponsored by International Finance Corporation and Export Development Canada

Increasingly, international financial institutions are using the instrument of environmental and social impact assessment (IA) to manage environmental and social risk on projects they finance as well as to improve investment quality and sustainability. For multilateral and bilateral development finance institutions, export credit agencies and commercial banks, impact assessment is becoming integral to prudent project financing.

Since June 2003, 20 of the largest commercial banks, involved in over 74% of international development lending, have adopted the Equator Principles, which commits them to:

- Screen and categorize projects for environmental and social risks
- Assess social and environmental impacts accordingly
- Manage potential impacts pro-actively and transparently
- Covenant environmental and social requirements in loan documentation

Policies and procedures under the Equator Principles have been adopted from the environmental and social review process established by the International Finance Corporation (IFC)-the private sector arm of the World Bank Group. Similarly, export credit agencies which are members of the Export Credits Group of the Organisation for Economic Co-operation and Development (OECD) have agreed on the "Common Approaches on Environment and Officially Supported Export Credits," requiring each export credit agency to apply the same environmental requirements to their investments. As well, the multi-lateral development finance institutions are also working to harmonize their environmental and social assessment requirements.

This theme forum will be one of the first international events to focus specifically on the use of impact assessment by the international finance community. It will be an important opportunity for international finance and impact assessment practitioners to meet, to share experiences, and to learn how these new initiatives are unfolding.

Topics in this theme forum will include the latest information on the application of the Equator Principles, the status and future of the OECD's "Common Approaches on the Environment," financial institution processes for implementing IA, integrating IA into financial decision-making, the corporate reputational benefits of IA, and IA as a financial risk management tool.

## 5. Voluntary Environmental Initiatives-Industry Achievements

*Chair: John Dauvergne*

Over the past decade, Canadian industry has reduced its ecological footprint and improved the environmental sustainability of its operations. When a company or sector commits to environmental sustainability, it typically commits to adopting best practices and exceeding regulatory standards. As well, it usually concerns itself with the ends of legislation and public policy, ends such as preventing pollution, protecting biodiversity and reducing greenhouse gas emissions. Corporate goals and behaviour are impacted and companies seek out cost effective risk reduction and win-win opportunities that simultaneously improve environmental and competitive performance.

Impact assessment leading to the mitigation of adverse environmental effects tends to be linked to formal processes and legislation. However, it is becoming apparent that most of the real improvement in industry's environmental performance is the result of initiatives undertaken voluntarily. This theme forum and related concurrent sessions will look at what has been achieved voluntarily through such frameworks and initiatives as Responsible Care (chemicals), Sustainable Forest Management (forest products), Towards Sustainable Mining (mining and metals), Environmental Commitment and Responsibility (electricity) and similar initiatives underway in countries other than Canada. It will look at voluntary industry-government partnerships like the Canadian Industry Program for Energy Conservation (CIPEC) and the U.S. Green Lights Programme. It will examine what drives industry's participation in these programmes and review what has been achieved.

A number of important questions will be addressed:

- Are some sectors evolving environmentally responsible governance frameworks and moving toward self-regulation as a means of ensuring continued access to resources?
- How successful have various sustainability initiatives and approaches been in engaging large industry and small and medium-sized enterprises, believed to account for about 60% of business pollution and waste?
- How can public policy better support development of voluntary sustainability initiatives?
- How can voluntary sustainability initiatives and frameworks be applied internationally in market economies?

## 6. Application of Impact Assessment to Fisheries, Agriculture and Forestry

*Chair: Patrick Duffy*

During the first thirty years of its existence, impact assessment has focused on physical projects. For the most part, fisheries, agriculture and forestry have not benefited from systematic impact assessment. These sectors have been largely excluded from impact assessment policies and practices in most national, provincial and state jurisdictions worldwide, including those of Canada. Moreover, the Food and Agriculture Organization of the United Nations (FAO) does not have an EIA policy and procedure, although it is responsible for these three sectors in the UN system.

During the same period, soil, land and water, and the resources they support, have continued to be used inefficiently or have significantly deteriorated, while poverty and income disparities have grown.

Impact assessment could have played an important role in addressing the problems that have been encountered. Recent impact assessment work has demonstrated that this tool has important potential to predict and mitigate negative effects for projects and practices in the fisheries, agricultural and forestry sectors.

The theme forum and related sessions will:

- Take stock of the status quo of environmental protection and impact assessment in the three sectors. What has been achieved? What are the issues and the lessons learned?
- Provide examples of successful applications of impact assessment to the sectors, and of gaps and obstacles to a wider beneficial application of impact assessment.
- Make recommendations on the way forward to usefully broaden the application of impact assessment to fisheries, agriculture and forestry.

## 7. Impact Assessment and the Electricity Sector

*Chair: Peter Leonard*

*Sponsored by Hydro-Québec & Société d'énergie de la Baie James (SEBI) and  
SNC-Lavalin Inc.  
Génivar Inc.  
Nove Environnement Inc.  
Tecsult Inc.  
Le Groupe S.M. International Inc.  
Dessau-Soprin Inc.*

The Electricity and Impact Assessment Forum will be organized around two themes. The first part, from 8.30 until 10.00, will provide a forum for presentations and a panel discussion on Electricity and Development: The Role of Impact Assessment.

An overview of energy and electricity development requirements for the next decades will be provided as a background for reviewing the enormous challenges ahead for impact assessment. To put electricity and development issues in further perspective, the growing need to facilitate access to electricity for all and the role of electricity in development will be discussed. Speakers and panelists representing international development organizations, such as the United Nations Development Program (UNDP) and the World Bank Group, the electricity industry organizations, such as the International Hydropower Association (IHA) and electrical utilities from developed, emerging and developing countries are invited to share their thoughts and recent experiences with the audience in order to provide answers to questions such as: What will be the role of Impact Assessment? How can Impact Assessment effectively influence the decision making process and provide a better roadmap for sustainable energy development?

What changes or improvements are required to meet the challenges laying ahead of us in the electricity sector?

The second part of the Electricity and Impact Assessment Forum, from 10.30 until 12.00, will focus on an ongoing impact assessment taking place in Canada: “New Ways of Working with Indigenous People in Northern Québec: The Eastmain-1 & Eastmain 1-A-Rupert Diversion Hydropower Projects.”

Following several years of meetings and discussion, Hydro-Québec and the Cree of Eeyou Istchee signed the Boumhounan Agreement in early 2002 for the hydroelectric project in northern Quebec, Canada. Under the agreement, the project is subject to the environmental and social protection regime outlined in the James Bay and Northern Quebec Agreement as well as to applicable environmental legislation in Québec and Canada. In this context, representatives from the Cree of Eeyou Istchee, the Société d'énergie de la Baie James, researchers, as well as engineering and environmental consultants involved in the ongoing project and its environmental and social assessment (E&SIA) will be invited to share their experiences with the forum participants either as speakers or as panelists.

The Boumhounan Agreement differs from previous agreements with the Cree in that it was signed before the E&SIA process began and in that it provides financing and establishes mechanisms for the Cree to develop their own capacity to conduct the E&SIA jointly with Hydro-Québec and to incorporate their knowledge in the process. A Cree/Hydro-Québec Feasibility Study Group was set up. Full-time Cree representatives and coordinators were hired and offices were opened in Cree communities. Throughout the process, the Cree have been assisted by specialists and, when necessary, by lawyers.

Considerable efforts have been made to ensure that the Cree are fully involved in every step of evaluating the impacts of the project and the decision making. The second part of the Electricity and Impact Assessment Forum is intended as an opportunity to share this ongoing experience with participants.

### 8. Industry Perspectives on Biodiversity and Impact Assessment

*Chair: Heidi Klein*

Biodiversity is climbing the business agenda around the world. From the extractive industries to resource-based industries and the financial and insurance sectors, biodiversity is becoming an increasingly important issue. Impact assessment has long been an industry tool, but has traditionally not provided the specific information and guidance necessary to identify and manage impacts—both positive and negative—on biodiversity. But the situation is changing—as industries and companies are recognising the importance of biodiversity and moving to ensure that it is integrated substantively into impact assessment processes.

This theme forum and related sessions will focus on the business case for biodiversity and highlight progress made through guidelines and practice in integrating biodiversity into corporate and industry impact assessment practices. They will also identify gaps and needs in these processes and practices.

In addition, lessons learned from the IAIA Capacity Building in Impact Assessment Project will be brought forward to build the understanding of the biodiversity and impact assessment work being done. This project has made significant progress in building the capacity of impact assessment practitioners in integrating biodiversity issues.

### 9. Infrastructure Development: An Opportunity to Advance Sustainability

*Co-Chairs: Malcolm Smith, Mary Ellen MacCallum*

The development of infrastructure – including transportation systems, water and waste water systems, buildings, communications systems etc. – plays a significant role in determining the sustainability of communities. The decisions made in planning, building and operating such infrastructure influence environmental quality and quality of life, influence economic development opportunities, and pose difficult fiscal decisions for communities. Moreover, the impact of decisions made in infrastructure development—good and bad—remain with communities for the life of infrastructure, and beyond, as infrastructure influences patterns of growth and development.

As such, decisions made with respect to infrastructure development are critical opportunities to maximize progress towards sustainability objectives. At the same time, such decisions are complex as they must balance competing social, economic and environmental objectives and meet the needs of a diversity of interests (i.e., multiple orders of government, public, private sector).

This theme session will focus on different tools and approaches for integrating sustainability into decision-making processes that support infrastructure development.

The forum will include a number of speakers who will set the stage for a discussion on how sustainability considerations can be integrated into infrastructure development decision-making processes.

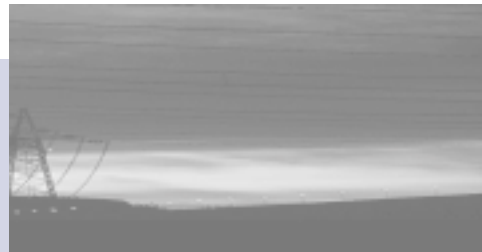


Photo courtesy of BC Hydro



## 10. Capacity Building: Follow-Up on the Marrakech Declaration

*Chair: Jean-Roger Mercier*

An important outcome of IAIA'03 was the Marrakech Declaration, which reaffirmed IAIA's commitment to building impact assessment capacity. It also committed IAIA to developing an action plan that would provide a coherent and coordinated approach to fulfilling its commitment.

This workshop will continue the process of developing IAIA's action plan for implementing the Marrakech Declaration. The workshop will explore the role that IAIA could play in improving the professional practice of impact assessment; in disseminating information about available professional training; in supporting institutional capacity building; and in the general promotion of impact assessment.

The chairpersons of IAIA'03 will lead the workshop. Their objective is to leave Vancouver with a working plan for commencing implementation of the Marrakech Declaration in the upcoming year.

## 11. Impact Assessment of Infrastructure Projects

*Chair: Malcolm Smith*

Developing and developed countries alike are very actively engaged in the creation, expansion and replacement of basic infrastructure vital to supporting their social, environmental, and economic goals. Worldwide, both the private and public sectors are undertaking numerous water supply, wastewater management, and solid and hazardous waste management projects. Impact assessment plays an important role in ensuring that these essential infrastructure projects are implemented in ways that support sustainable development.

This session will identify key issues, relevant experience, methodological and technical innovations, key stakeholder concerns, participation strategies, ongoing challenges, lessons learned, and proposed ways forward.

## 12. Impact Assessment and NEPAD: Environment, Poverty and Development in Africa

*Chair: Jean-Philippe Waaub*

Recently certain important initiatives, including the Poverty Reduction Strategy and the New Partnership for the Development of Africa (NEPAD), have been launched on the African continent. It is essential to consider the environmental issues related to those initiatives. In this context, it is important to discuss problems that have been identified in individual impact assessments in individual countries.

Development must take into account the three main types of environmental problems that are affecting the African continent:

- human health problems (hygiene, parasitic diseases, armed conflict, etc.)
- degradation of ecosystems and loss of biodiversity
- global environmental problems (depletion of the ozone layer, climate change)

More than any other region in the world, Africa is affected by the convergence of all three of these types of environmental problems, and by the immense challenges that they pose to its society. Taking environmental factors into account, particularly through the mechanism of impact assessment, can and must play a key role in economic development. This session will provide an opportunity to address the major questions concerning impact assessment in relation to those initiatives.

### 13. Corporate Social Responsibility, Impact Assessment and Sustainable Development

*Chair: Christiane Gagnon*

In this era of globalization, decreasing government intervention in the economy, and increasing influence of local communities and special interest groups, how should corporate social responsibility be defined? Can the concept of corporate social responsibility lead to better impact assessment, better management of the environment and stronger communities?

There are arguments that corporate performance should be judged not only on the basis of economic success, but also on the basis of success in protecting the environment and supporting community values and aspirations, in accordance with the evolving principles of sustainable development.

This session will explore whether initiatives related to corporate social responsibility should be limited to encouraging deregulation, enhancing corporate image, creating good relations with communities affected by corporate operations, and deflecting the criticism of opponents. It will discuss whether corporate social responsibility initiatives should also address the fundamental questions at the core of the sustainability debate, namely, those related to the interdependence of economic activity, the environment and human social systems.

### 14. Impact Assessment and Decision Making

*Co-Chairs: Wil Thissen, Hans de Bruijn*

This session will focus on the relationship between impact assessment and real-world decision making. Barriers that impede the effectiveness of impact assessment as a decision-making tool will be examined. These include:

- the involvement of a multiplicity of parties in decision making
- the contestable nature of information provided in impact assessments
- the capriciousness of the decision-making process

The session will address the following aspects:

1. Analysis and understanding. What is the nature of the relationship between impact assessments and decision making? What are the reasons that the impact assessment tends to have a limited effect on real-world decision making? What conditions favour or impede successful outcomes?
2. Design. What can be done to make impact assessment a more effective decision-making tool in the real world?

### 15. Impact Assessment and the Transportation and Communication Sectors

*Chair: Mary Ellen MacCallum*

Developing and developed countries alike are very actively engaged in the creation, expansion and replacement of transportation and communication infrastructure vital to supporting their social, environmental, and economic goals. Worldwide, both the private and public sectors are undertaking numerous road, rail, public transportation, airport, port, and telecommunication projects. Impact assessment plays an important role in ensuring that these essential projects are implemented in ways that support sustainable development.

This session will identify key issues, relevant experience, methodological and technical innovations, key stakeholder concerns, participation strategies, ongoing challenges, lessons learned, and proposed ways forward.

### 16. Industry and CIPEC: Making Progress in Achieving Kyoto Objectives

*Chair: Betty Hansen*

A unique voluntary partnership between Canadian Industry and Natural Resources Canada (NRCan) Office of Energy Efficiency (OEE), the "Canadian Industry Program for Energy Conservation (CIPEC)," is responsible for promoting effective energy management as a means of improving economic performance while helping Canada meet its climate change objectives. CIPEC industries embrace the innovative development, adoption and adaptation of new methods and technologies. Improved financial performance is often a by-product of these innovations.

CIPEC industries target, track, report on and celebrate improvements in energy efficiency and the resulting affect on GHG emissions on an annual basis. The program provides tools and services to help industries realize their energy management and GHG reduction objectives. CIPEC's success as a unique voluntary partnership between industry and government is of international interest as a model for market economies.

This session will feature presentations from members of CIPEC: Unilever and the Forest Products Association of Canada, and from OEE/NRCan, discussing:

- How industry assesses, measure, monitors and tracks its energy efficiency improvement and the resulting impact on GHGs
- CIPEC as a successful model for voluntary industry and government partnerships for international market economies
- Lessons learned by industry in increased efficiencies and effectiveness which can inform the private impact assessment professional
- Changing industry roles in impact assessment

### 17. Tourism, Recreation and Impact Assessment

*Chair: Bette Beswick*

People like to play. Recreation, tourism and special entertainment events are components of the "fun" industry, which is a major generator of economic activity throughout the world.

Pursuits like ecotourism typically occur in areas such as national parks where protection of the environment is paramount. Major international sporting events, like the Olympic Games to be held in the Vancouver area in 2010, create "legacy" facilities which create impacts in their own right, and which may spur further post-games development. Sporting events at this global scale also raise the profile of their venue, which may stimulate further development activity. Other types of events, like rock concerts or traveling exhibits, may involve intensive use of a site for a short period of time, and may require the installation of temporary infrastructure and services for a large number of people.

The purpose of this session is to examine the environmental and social impacts of the "fun" industry. Aspects to be considered include the following:

- management policies to guide event selection and regulation
- social and environmental planning initiatives related to managing recreation, tourism and special events
- balancing property rights, security, economic opportunity, protection of the environment and protection of human society
- case studies of environmental and social impacts of recreation, tourism and special events

## 18. Cumulative Effects Assessment

*Co-Chairs: Roger Creasey, Lisa Fischer*

*Sponsored by AXYS Environmental Consulting Ltd.*

Many jurisdictions require that impact assessments address cumulative effects, which are commonly defined as the effects of a proposed project in combination with the effects of other human activities. Some of these jurisdictions provide guidance on how to assess such effects. Notwithstanding this, there is considerable debate as to what constitutes an appropriate cumulative effects assessment (CEA).

Often there are significant differences among (a) what is desirable, (b) what is feasible, (c) what is actually done and (d) what regulators expect. Such differences may pertain to a specific discipline (e.g., ecological or human health impact and the effects of multiple stressors), or they may pertain to the integration of inputs from a number of disciplines contributing to an assessment.

The objective of the session is to advance the practice of CEA towards a better understanding of what is feasible in characterizing cumulative effects, and how well current approaches to CEA are meeting the needs of industry, regulators and other stakeholders.

## 19. Impact Assessment Follow-up

*Co-Chairs: Jill Baker, Angus Morrison-Saunders, Jos Arts*

The primary objective of the workshop will be to identify and discuss pertinent experiences in impact assessment follow-up, with particular emphasis on the use of follow-up in various industrial sectors. There will be ample discussion for exploration of follow-up from many other perspectives.

Because proponents are normally responsible for implementing environmental management plans that flow from impact assessments, the results of follow-up programs are of particular importance to them. Moreover, follow-up is a key element of industry-led approaches (e.g., ISO 1400).

The workshop will provide a forum for discussion of IA follow-up in various disciplines of assessment including environmental, social and strategic environmental assessment. The workshop will start off with discussions focusing on theoretical ideas and regulatory frameworks for IA follow-up. It will include a number of case studies from around the world based on IA follow-up in various industrial sectors. It will also provide information regarding various techniques that can be used for follow-up, and will conclude with discussion of principles for follow-up.

## 20. New Methods for Impact Assessment and Other Technology Futures Analyses

*Chair: Alan Porter*

European and American researchers have been working on an initiative to advance the methodology of technology futures analysis (TFA). Technology futures analysis aims to integrate aspects of impact assessment, national and regional foresight exercises, competitive technological intelligence, and technology forecasting and road-mapping. These disciplines share a number of comparable approaches and concerns.

Activities to date have illuminated the important role of process management in conjunction with TFA analytical efforts. Serious attention to processes (e.g., engaging key stakeholders in analyses) can significantly affect outcomes.

The primary focus of the TFA initiative is to stimulate attention to the advancement of methodology. We will share important drivers such as the significant changes associated with "emerging technologies" (the progression from industrial to information to molecular technologies).

These changes necessitate the development of new methodologies. A number of novel approaches are being proposed to take advantage of electronic information resources, new understanding of chaotic regimes, and more interactive modes (e.g., scenario simulation and gaming).

The workshop will present some of the latest thinking and then invite suggestions from various impact assessment perspectives on candidate methodologies and process management approaches.

## 21. New Impact Assessment Methods

*Chair: Tom Hoban*

This session will include a variety of papers examining the development of new methods for practicing impact assessment.

Discussions will consider topics such as web-based portals, rapid analysis, environmental monitoring, problem structuring methods, and adaptive IA approaches. Particular attention will be paid to the integration of social and environmental impact assessments.

## 22. Stakeholder Involvement and Risk Management

*Chair: William McMillan*

In this session, we will examine the role of stakeholder involvement in impact assessment. Presenters will examine the relationship between stakeholder involvement and risk management. Several case studies will be presented. In some, the value of stakeholder involvement in addressing potential investment risks associated with projects will be demonstrated. In others, the value of stakeholder communication in diminishing risks to human or environmental health will be discussed. In some cases, the potential for stakeholders to become a risk to the project will be described. In most cases, we will be talking about what has become a hot internet topic: corporate social responsibility. This timely session will assume that stakeholder involvement has a firm place in impact assessment and will provide an excellent opportunity to learn from the initiatives of major corporations and agencies.

## 23. Environmental Management Systems

*Chair: Debra Zanewich*

An Environmental Management System (EMS) is a structured process for integrating environmental considerations into an organization's overall management system to help ensure it is on track in meeting its environmental commitments. Policies, procedures, and resources committed to meeting environmental requirements are all part of an EMS.

As well as providing focus, an EMS can be used as a systematic framework for tracking environmental objectives. An EMS can be structured to include and build upon the evaluation, assessment, monitoring, reporting, reviewing and other management activities associated with impact assessment. As EMS can be utilized as a mechanism to provide feedback loops in an organization as well as provide follow-up for impact assessment.

This year's conference theme is Impact Assessment for Industrial Development – Whose Business Is It? This theme will serve as an excellent focus for sharing practical experiences in linking IA and EMS. Aspects to be explored include linking EMS with project impact assessment by developing an EMS during the planning stages of a project, and integrating EMS and IA during operations. EMS application in mining, military, industrial planning, and other industry settings will be presented.

## 24. Health Impact Assessment

*Co-Chairs: Lea den Broeder, Suphakij Nuntavorakarn*

Health Impact Assessment (HIA) is a discipline that has developed rapidly over the past ten years. Health impacts are now routinely considered in project-level impact assessments. This has encouraged the integration of HIA with the other fields of IA. Environmental health knowledge has been developing. Methodologies for integrating Health and SIA are being explored. Moreover, health is explicitly addressed in SEA (e.g. the UN-ECE SEA Protocol, 2003). Last but not least, HIA is also being carried out as a stand-alone process or exercise in different forms, for instance, assessing health consequences of government or municipal programmes related to such diverse areas as transportation, housing, agriculture, energy, and tax systems.

Various important issues and topics will be discussed in the HIA sessions. Several approaches and practices will be presented and discussed in the HIA Kaleidoscope. Another session will be devoted to the topic on recent HIA instruments and techniques. The integration of HIA and the other fields of IA are dealt with in the session on HIA and EIA, and the Joint Workshop on HIA and SEA. Also, a workshop has been arranged to discuss issues related to access to robust evidence on HIA.

As the body of experience in HIA grows, the HIA Evaluation session reflects the need for evaluating tools, procedures and linking them to the issue of capacity building. Moreover, an extra workshop is arranged to develop the framework for HIA Evaluation. Finally, there is a need for internationally accepted HIA guidelines and hence, a session is set for discussing the International HIA Principles and Practices.

## 25. Strategic Environmental Assessment

*Chair: Thomas Fischer*

Strategic Environmental Assessment (SEA) has been a key focal point of discussion at many past IAIA conferences and this tool continues to evolve in terms of its usefulness, practicality and applicability in achieving environmental sustainability. SEA continues to gain importance internationally as a response to the limitations of traditional project based EA approaches in mainstreaming environmental and social issues into the development process.

Discussion of SEA in Vancouver will center on the following 10 key themes:

1. SEA and sustainability planning
2. SEA methods and techniques
3. SEA in the EU
4. SEA theory
5. SEA and the private sector
6. Introduction of new SEA systems
7. SEA in development co-operation
8. Sustainability Assessment
9. Integration of SEA and decision making
10. Integration of environmental, social and economic aspects in SEA

These themes reflect a range of important SEA aspects that weren't discussed in any great depth in previous years. This clearly reflects the rapidly broadening scope of SEA application and research world-wide.

## 26. Urban Impact Assessment

*Chair: Markus Eggenberger*

Urban areas provide increased economic opportunity, access to education and delivery of social services. On the other hand, many urban dwellers experience great poverty and hardship. Local authorities are challenged by requirements of national and international policies and by deteriorating social and environmental conditions that

render cities inefficient. Industry and investment decisions have an increasing impact on urban development. Sustainable urban management and development have become a collaborative initiative, at the same time necessitating and fostering decentralisation, participation and public-private partnership.

Urban problems are of great concern to both developing and developed countries. With half the world's population already living in urban areas, urbanisation is certainly one of the most important factors affecting the sustainability of human society. Key issues on the urban agenda are human shelter, social development and eradication of poverty, environmental management, economic development, good governance and international cooperation.

Government, civil society (including NGOs) and private industry must develop the necessary capacities to understand and deal with development needs, to improve their abilities to solve problems related to the key issues, and to define and achieve objectives and perform necessary functions within the urban system.

This session will provide a forum for the exchange of experiences in developing necessary capacities for sustainable urban management and development.

## 27. Impact Assessment of Disasters, Accidents and Conflicts

*Co-Chairs: Charles Kelly, Michel A. Bouchard, Martin Petersen*

Natural disasters, industrial accidents and conflicts pose important challenges to society and sustainable development. They may result in significant loss of human life, loss of livelihood, and damage to the natural and built environment. Natural disasters and industrial accidents typically have serious environmental repercussions. Conflicts are often associated, directly or indirectly, with natural resource issues. Moreover, all three types of occurrences are linked intimately to, and often are the direct result of, human actions. Yet despite their dramatic effects on the environment and on human life and society, these types of occurrences have received little attention from the impact assessment community.

## 28. Environmental Legislation, Policies and Institutions and Impact Assessment

*Co-Chairs: José-Luis Salazar-Máñez, Nightingale Rukuba-Ngaiza, Susan Waters*

The instruments chosen to address environmental and social impacts of projects are critical to the success of impact assessment. Ongoing improvement of instrument design and implementation is necessary to meet the environmental, social, economic, cultural and health assessment challenges of today and the future.

Increasingly, industries argue that legislated approaches are over-used. They often advocate instead voluntary approaches that may include a mix of environmental management systems, third party or internal environmental audits, environmental standards (e.g., ISO, EMAS in the European Union), corporate self-reporting, environmental information and economic instruments.

Although legislated approaches have been proven effective for certain sectors, they have been less effective for others. Similarly, the effectiveness of legislated approaches varies greatly from one country to the next. In some developing countries where strong enforcement of environmental laws is lacking, industrial corporate social responsibility initiatives and the voluntary application of industrial ecology have proven necessary for environmental protection and the conservation of natural resources. These instruments have complemented legislatively-based approaches to ensure that impacts are appropriately assessed and mitigated.



## 29. Public Participation

*Chair: Des Connor, with the assistance of Pierre André and Bert Enserink*

*Sponsored by Vancouver International Airport Authority*

Without informing and involving the public effectively, neither industry and business nor the public sector can hope to prepare valid and reliable impact assessments. This session, building on last year's one in Marrakech, features presentations and discussions on:

- **Best Practices in Public Participation.** Pierre André of the Université de Montréal and Bert Enserink of the Technology University of Delft led a discussion of this subject last year and are preparing a short discussion paper.
- **Challenges in Public Participation.** This topic generated a lively and productive discussion at the last conference which we will continue with the leadership of Profs. André and Enserink.
- **Public Consultation in Afghanistan and Iraq: Opportunities, Strategies and Approaches.** Are there some lessons to be learned from the departure of the British Raj from India and Africa after World War II? What can we derive from how the British government dealt with "the troubles" in Northern Ireland? What role might third parties play in bridging the gap between the residents and the occupiers fostering trust for national reconstruction? What other ideas are worth exploring to work towards social development and enduring peace?
- **Case studies of public participation in impact assessment, especially in the private sector.**
- **Other papers on capacity-building, evaluation, cultural adaptation and other aspects of public participation.**

## 30. Social Impact Assessment

*Chair: Jose Manual Palma-Oliveira*

There are rarely opportunities to apply rigorous Social Impact Assessment (SIA) methodologies to industrial projects. National legislative and regulatory frameworks seldom require it. Political, economic and timing factors often do not favour it. Problems in coordinating engineering, environmental and SIA work often exist. Moreover, industrial enterprises are often disinclined to become involved in social issues.

The challenge is to undertake SIA that contributes both to identifying and addressing legitimate issues of people potentially affected by a project and to minimizing social and consequent financial risk to project proponents.

The purpose of this session is to explore the application of SIA in constrained contexts. Topics for discussion include:

- comparisons of theoretical approaches, national legislation, international best practice and industry (corporate) sustainability policy
- social risk and SIA
- consultation, monitoring and evaluation processes as supplements to front-end data gathering and analysis
- case studies that demonstrate successful innovation or that analyze failure and its consequences

## 31. Social Impact Assessment and Offshore Oil and Gas

*Chair: Rodney Cluck*

*Sponsored by Minerals Management Service, U.S. Department of the Interior*

This session discusses social impacts of offshore oil and gas development on human communities in the Gulf of Mexico and Alaska. It addresses the analysis of impacts under the National Environmental Policy Act (NEPA), and focuses primarily on social effects as opposed to economic or psychological ones.

First, we discuss the "classic SIA model," the original boomtown model that established the underlying issues, questions, and logic that shape most energy-related socioeconomic assessments. We show that, at the core of this model, project-induced demographic change drives other project-related socioeconomic effects. Second, we describe significant differences between classic model assumptions and the actual demographic consequences of the Gulf of Mexico's and Alaska's oil industry. We show that the industry's effects have been large, long term, widely distributed, based on laws and fiscal policies and locally variable and that they are inadequately addressed by the project-oriented classic SIA model. Third, we return to the classic model and conclude that none of its basic assumptions fit OCS regional realities and that the model is incapable of addressing situations with the magnitude, longevity, or complexity of that faced by social impact assessment in the Gulf or Alaska.

This discussion concludes by outlining a strategy for addressing the kinds of assessment problems faced by MMS and by many other federal agencies charged with similar responsibilities.

## 32. Incorporating Weather and Climate Forecasts into Energy Production and Management: Economic Benefits, Impact Assessments and Power Industry Applications

*Chair: Mary Altalo*

The session will examine the effects of weather and climate uncertainties on energy production and management, and the potential net benefits of improved forecast information for decision-making. Novel methods for evaluating the impacts (economic, environmental, social, among others) of using forecast information will be presented. Results from case studies suggest that skillful forecasts can enhance overall economic performance, reduce environmental impacts, and improve energy reliability and security.

Through detailed case studies involving power generating organizations, energy distributors, and government agencies, the effects of weather and climate variability on the energy sector have been calculated, using load forecast models and evaluations of load forecast error associated with specific weather and climate events. These studies employ forecasts for varying lead times (e.g., 0-7 days; 0-14 days, seasonal), different protocols (e.g., ensemble forecasts), and different weather and climate events, resulting in an overall evaluation of the benefits and costs to the energy sector.

In addition to translating the forecast information into economic net benefits, results from these studies can be used in environmental and sustainability measures as increases in the efficiency of energy production and distribution can decrease adverse impacts on the environment.

The session will focus on the following areas: (1) case studies, (2) impact assessments and methodologies, and (3) lessons learned.

### 33. Climate Change and Impact Assessment

*Chair: Miles Scott-Brown*

Climate change has been recognized by all levels of government, and increasingly the public and other stakeholders, as an important global environmental issue requiring coherent and effective action. However as of yet, aspects of climate change have not been formally incorporated into the environmental assessment process. Papers in this session will consider how climate change is being integrated into the impact assessment process in Canada and the U.K. An analysis is presented as to how climate change is being incorporated by the World Bank with other evolving IA tools as a means for poverty alleviation and ensuring sustainable development in the developing world.

### 34. Impact Assessment and the Mining Industry

*Co-Chairs: Luis Sánchez, Alonso Zarzar, Susan Ross*

Environmental impact assessment (EIA) in the mining industry has been important in dealing with mine impacts such as acid rock drainage, the use of toxic chemicals for mineral processing and large residual waste rock piles. These days impact assessment tools such as environmental management systems, adaptive environmental management, better public consultation and more effective environmental regulation have reduced mining impacts where they have been effectively used. Mine "design for closure" is a technique in growing demand and of obvious value for sustainability of mining operations.

The session will examine the application of these and other impact assessment tools in the mining industry applied over the life cycle of mining projects. The intent is to find those impact assessment tools that are most effective and efficient. Some of the issues to be discussed include:

- evolving standards and expectations for impact assessments of mining projects
- the balance between any rights of communities to reject new mining development and the potential for national economic impact
- designing for closure and closure planning for sustainable development subsequent to the exhaustion of the resource
- case studies that demonstrate successful innovation in mining impact assessment

### 35. Welcome to IAIA

*Chair: Rita Hamm*

This session is for all new or prospective Board members, for anyone interested in participating in IAIA as a Committee member, Section member, or liaison, and for any member who wants to know more about the organization, its history, and how it works.

### 36. Strategy for Building Capacity in Environmental Assessment and Management in Africa

*Chair: Peter Tarr*

Since 1995, Africans have been involved in a lengthy process of consultation in an attempt to develop a strategy for building capacity in Environmental Assessment and Management (EA&M).

The need for a Pan-African strategy has been identified by many stakeholders at many levels:

- Government leaders at the 1995 African Ministers Conference for the Environment (AMCEN) stressed the importance of applying EA in development planning processes and for improving the capacity of human resources to administer, guide, review and implement the results of EA studies.
- Donors and development agencies who fund most of the training activities are conscious of the need to adopt a more programmatic approach towards training, rather than the current, rather ad hoc way.
- People who have undergone training need a depth of knowledge and a range of skills in order to better do their jobs and increase their influence in decision making processes.

The strategy stresses the need to link EA&M to high level political initiatives (e.g., NEPAD), to strengthen existing and emerging networks and institutions and to achieve a balance between knowledge and practical skills. The strategy also seeks to improve the framework conditions in Africa, including awareness about the value of EA&M to sustainable development, political commitment to EA&M, the implementation of locally-relevant policies and laws and the involvement of all stakeholders in the process.

This session will launch the EA&M capacity building strategy and set out a program of action that will be followed. It is hoped that this strategy will encourage African governments to help create more favourable frame conditions and for donor and development partners to support the programmes and projects related to the implementation of the strategy.

# Concurrent sessions overview

	Monday 26th 13.30-15.00	Monday 26th 15.30-17.00	Tuesday 27th 13.30-15.00	Tuesday 27th 15.30-17.00	Wednesday 28th 10.30-12.00	Wednesday 28th 13.30-15.00	Wednesday 28th 15.30-17.00
Grand AB*			Environmental	Biodiversity Legislation 28.4	8.3		
Junior CD*			SEA 25.3	SEA 25.4	SEA 25.9	Corporate Social Responsibility 13.1	Corporate Social Responsibility 13.2
Pavilion D*			NEPAD 12.1	NEPAD 12.2	Electricity 7.0	Electricity 7.3	Electricity 7.4
Junior A			SEA 25.8	Finance 4.1	Mining 34.1	Mining 34.2	Mining 34.3
Junior B			Health IA 24.3 15.4	Transport & Communication	Urban 26.3	Biodiversity 8.4	Biodiversity 8.5
Port Alberni	Transport & Communication 15.1	Transport & Communication 15.2	Transport & Communication 15.3	Follow-up 19.1	Follow-up 19.2	Follow-up 19.3	Follow-up 19.4
Port McNeill	Biodiversity 8.1	Oil & Gas 31.1	Oil & Gas 3.2	Oil & Gas 3.3	Oil & Gas 3.4	Oil & Gas 3.5	Oil & Gas 3.6
Port Hardy	Infrastructure 11.1	Infrastructure 11.2	Infrastructure 11.3	EMS 23.1	EMS 23.2	EMS 23.3	
Parksville	Decision Making 14.1	Decision Making 14.2	Electricity 7.1	Electricity 7.2	SEA 25.5	SEA 25.6	SEA 25.11
Orca	Oil & Gas 3.1	Biodiversity & Trade 8.2	Trade 2.1		Trade 2.2	Trade 2.3	Trade 2.4
Finback	Health IA 24.1	Health IA 24.2	Sustainability 1.1	Sustainability 1.2	Sustainability 1.3	Sustainability 1.4	Sustainability 1.5
Beluga	Stakeholder Involvement 22.1	Welcome to IAIA 35.1	Weather 32.1	Weather 32.2	Disasters 27.1	Welcome to IAIA 35.2	
Granville	SEA 25.1	SEA 25.2	Social IA 30.3	SEA 25.7	Decision making 14.4	Health IA 24.7	Decision Making 14.5
Galiano	Social IA 30.1	Social IA 30.2	Capacity Building 10.1	Decision Making 14.3	Cumulative IA 18.3	SEA 25.10	
Vancouver	Cumulative IA 18.1	Cumulative IA 18.2	Public Participation 29.1	Public Participation 29.2	Public Participation 29.3	Public Participation 29.4	Public Participation 29.5
Burrard	Environmental Legislation 28.1	Environmental Legislation 28.2	Environmental Legislation 28.3	Health IA 24.4	Health IA 24.5	Health IA 24.6	Health IA 24.8
Gulf Islands BC	Tourism 17.1	Tourism 17.2	Fish, Agri & Forestry 6.1	Fish, Agri & Forestry 6.2	Capacity Building 36.1	Capacity Building 10.2	Capacity Building 10.3
Azure	Urban 26.1	Urban 26.2	Voluntary Initiatives 5.1	CIPEC 16.1	Climate 33.1		
Gulf Islands A	New Methods 21.1	New Methods 21.2	New Methods 20.1		Voluntary Initiatives 5.2		

\* Simultaneous Interpretation

**Monday 26th April**  
**13.30-1500**

## ORCA

### 3.1 Impact Assessment and the Oil and Gas Industry

#### Lessons Learned I

Chair: Todd Zimmerling

Sponsored by Gartner Lee Limited and RWDI West Inc.

Regulation of Oil and Gas Exploration and Development on the East Coast of Canada: Early Observations on the CNSOPB Becoming a Full-Fledged CEAA Agency  
Norval Collins, Michael Coolen

Natural Gas Pipeline Route Selection Offshore Nova Scotia as a Mitigation Strategy  
Stephen Fudge, Stephen Sayle, John Auriemma, Michael Koski, Terry Oram

The Change Management Procedure: Lessons Learned on the Chad/Cameroon Oil Export Pipeline Project  
Ron Anderson

Impact on Local Companies and Workers of the Environmental and Social Clauses in Procurement Bidding Documents in a Large Infrastructure Project: the Case of the Chad-Cameroon Oil Development Pipeline Project  
Emmanuel Noubissie Ngankam, Jean-Roger Mercier

## PORT McNEILL

### 8.1 Biodiversity and Impact Assessment

#### Biodiversity and Impact Assessment: Principles

Chair: Helen Byron

New Trends of Ecological Restoration and Impact Assessments in Japan  
Akira Tanaka

Quantitative Biodiversity Impact Assessment: Five Years of Using the Biotope Method  
Lasse Kyläkorpi, Bernt Rydgren

Developing Best Management Practices for Biodiversity Conservation in the Mining Industry  
Robert Prairie

## PORT HARDY

### 11.1 Impact Assessment of Infrastructure Projects

Chair: Malcolm Smith

Assessing the Land Use Impact of Port Privatization Models in European Ports  
Nathan Bowden

Promoting Sustainable Infrastructure Development in Canada: Emerging Program Framework for Environmental Sustainability at Infrastructure Canada  
Keith Grady

Linking Environmental Effects to Health Impacts - A Computer Modeling Approach  
Jennifer Mindell

Integration of SEA with Urban and Regional Planning Related to Total Pollution Load Management System in Korea  
Jong Ho Lee

Practical Proactive Environmental Impact Assessment  
Kevan Van Velzen

## PARKSVILLE

### 14.1 Impact Assessment and Decision Making

Co-Chairs: Hans de Bruijn, Wil Thissen

Modernizing EIA Implementation in the United States

Anne Norton Miller

Common Sense in EIA  
William Ross, Angus Morrison-Saunders, Ross Marshall

The Role of EIA for Decision-making and Formulation of Alternatives - Evaluation of Influence  
Pekka Hokkanen

Adapting IA to Alternative Decision-making Categories  
Einar Leknes

## PORT ALBERNI

### 15.1 IA and Transportation

Chair: Mary Ellen MacCallum

Air Quality Impact Assessment Methodologies for the Sea-to-Sky Highway  
Alex Schutte

Sea-to-Sky Highway and Acid Rock Drainage: A Modeling Approach to Assessment of Potential Environmental Effects  
Neil Mallen, Cheryl Ross

Minnows Get Their Free Way  
Jenine Bothma

Wildlife Roadkill in Major Highways in Korea  
Sang-Don Lee, Byung-Woo Yeom

## GULF ISLANDS BC

### 17.1 Tourism, Recreation and Impact Assessment

#### Special Events

Chair: Bette Beswick

Potential Impacts of Conference  
Michelle Bentzen, Linda Havers, Adam Johnson, Mark Traverso

Environmental Management and Ski Area Design at Sunshine Village Ski Area, Banff, Alberta  
Dave Kerr, Paul Mathews, Chris Chevalier

Environmental Monitoring of the Construction Sites for the Olympic Winter Games "Torino 2006"  
Roberto Mezzalama, Monica Livini, Matteo Massara, Vittorio Salusso

The Kananaskis 2002 G8 Summit - A Case Study in Strategic Assessment and Sustainable Development in a Protected Area  
Bruce F. Leeson

## VANCOUVER

### 18.1 Cumulative Effects Assessment

Co-Chairs: Roger Creasey, Lisa Fischer

Sponsored by AXYS Environmental Consulting Ltd.

A Discussion on the Completion of Cumulative Effects Assessments (CEAs) in the Oil Sands Region  
J.R. Gulley, I. Mackenzie, C. Fordham, J. Smith, C. Duane

Bridging the Gap Between Project Assessments and Regional Development Dynamics  
M. Boyle, H. Dowlatabadi

Cumulative Impact Assessment for Municipal and Regional Planning: An Outline of a Swedish Research Project  
A. Oscarsson, E. Rapaport, H. Wallentinus

Evolving Opportunities for the Collaborative Management of Cumulative Effects: The Oil and Gas Industry in British Columbia, Canada  
G. Hegmann, J. Green, M. Macdonald

## GULF ISLANDS A

### 21.1 New Methods in IA

#### Innovations in Environmental Impact Assessment

Chair: Thomas Hoban

An Adaptive Impact Assessment Approach: The Peace River Project  
Meera Nathwani, Ken Foster, Roger Creasey

Environmental Assessment Information Portal for Southwestern Alberta  
Danah Duke, Michael Quinn, Ken Sanderson

Environmental Monitoring Using Remote Optical Sensing Technology at an Industrial Wastewater Treatment Plant  
Freddie Hall

The Use of Comparative Ecological Risk Assessment as an Impact Assessment Tool  
Isabel Johnson, Nelson Garcia, Steve Friant

Evaluating and Communicating Impact Significance in EIA: A Fuzzy Set Approach to Articulating Stakeholder Perspectives  
Graham Wood, Julia Becker

## BELUGA

### 22.1 Stakeholder Involvement and Risk Management

Chair: William McMillan

Stakeholder Involvement and Risk Management: Managing for Public Good and Investor Confidence  
William McMillan

Impact Assessment of Industrial Projects in Québec: What the Last Eight Years Have Taught Us / L'évaluation environnementale des projets industriels au Québec: qu'avons-nous appris en huit ans ?  
Renee Loiselle

Industrial Mega-Projects: Confronting Community Expectations  
Mark Shrimpton, Keith Storey

IPM Impact Assessment and the Art and Science of Risk Communication  
Abdelaziz Lagnaoui, Emanuel Santi

Strategic Communication for Impact Assessment: Lessons Learned from the IAIA'03 Marrakech Practitioner's Forum and Review of Selected Recent Experiences  
Peter Leonard, Emanuel Santi



## FINBACK

### 24.1 Health Impact Assessment

#### HIA Kaleidoscope

Chair: *Lea den Broeder*

Rapporteur: *Reiner Banken*

Mapping the Use and Context of Health Impact Assessment Across Europe: Methodological Issues and Preliminary Results from a 14-country Study

*Matthias Wismar, Louise Nilunger*

HealthCounts: Relevant Measures of Determinants of Health - Choices Made By Community and Professional Groups in a UK Setting

*Jonathan Mathers, Elaine Cameron, Jayne Parry*

HIA in the Orange Plantations and Its Contribution to Healthy Public Policy in the Agricultural Sector in Thailand

*Nuntana Sabrum, Chomchaun Boonrahong, Bantoon Setthasiraj*

How Urban Environments Can Contribute to Increased Physical Activity

*Manon Penris, Teresa Alleman, Lea den Broeder, Gerard Varela Put*

Health Impact Assessment and The Improvement of Economic Assessment: Reflections and An Initial Proposal from Recent Experiences in Thailand

*Decharut Sukkumnoed, Suphakij Nuntavorakarn, Nuntana Sabrum*

## GRANVILLE

### 25.1 Strategic Environmental Assessment

#### SEA Session 1: SEA and Sustainability Planning

Chair: *Thomas Fischer*

SEA and National Strategies for Sustainable Development

*Aleg Cherp*

The Kiev Protocol on Strategic Environmental Assessment, a Global Tool for Sustainable Development

*Nick Bonvoisin*

Environmental Agency Good Practice Guidelines for SEA

*Gerard Stewart*

## AZURE

### 26.1 Urban Impact Assessment

#### Tools and Methods of Urban Impact Assessment

Chair: *Markus Eggenberger*

Social Impact Assessment in Urban Planning

*Rauno Sairinen*

Local Agenda 21 of Graz City: The Development of Its Indicators

*Ralf Aschemann*

Spatial Planning Guidance for Achieving Sustainable Urban Development

*Habib Alshuwaihat*

EIA as an Integral Tool of an Ecosystems Approach to Urban Development

*Arne Dalfelt*

## BURRARD

### 28.1 Environmental Legislation, Policies and Institutions and Impact Assessment

#### Environmental Legislation, Policies and Institutions and Industrial Development

Co-Chairs: *José-Luis Salazar-Mañez, Nightingale Rukuba-Ngaiza, Susan Waters*

Intelligence from Environmental Regulatory Information: What's Really Available?

*Eric Johnson*

Adopting the Guidelines of the Global Reporting Initiative: What Mechanisms Determine Its Spread Among Firms in Different Countries?

*Martin de Jong, Halina Brown*

Management of Regulatory Indicators and Its Impact Over Industrial Sector in Michoacan State- Mexico

*Arturo F. Pelaez and Guillermo U. Varas*

Effectiveness of EIA and Its Framework in Tanzania: Challenge for Achieving Sustainability

*Alexander Chambi*

## GALIANO

### 30.1 Social Impact Assessment

#### Social Impact Assessment

Chair: *Jose Manuel Palma-Oliveira*

Collaborative Approaches and Strategies for Oil and Gas Impact Management

*Thomas Stubbs*

Vancouver 2010 Olympic Games: Socio-economic Impact Assessment for Hallmark Events

*David Hardy*

Landscape Assessment as a Social Follow-up Tool and an Indicator of Social Acceptability Towards an Industrial Project

*Marie-José Fortin*

Addressing the Social Dimensions of Private Sector Projects

*Debra Sequeira, Edward (Ted) Pollett*

Remote Indigenous Housing in Australia - A Social Assessment

*Andrea Jardine-Orr*

**Monday 26th April  
15.30-17.00**

## ORCA

### 8.2 Biodiversity and Trade (Joint Session)

#### Joint Workshop: Assessing the Biodiversity Impacts of Trade: Principles and Practice

Facilitators: *Clive George, Helen Byron, Bernice Goldsmith*

Discussion of "Assessing the Biodiversity Impacts of Trade: Principles and Practice." Paper is available on the IAIA Conference Web site: [www.IAIA.org](http://www.IAIA.org) > Conference

## PORT HARDY

### 11.2 Impact Assessment of Infrastructure Projects

Chair: *Malcolm Smith*

Lessons Learnt in Addressing Environmental Issues of Infrastructure Development in the Water Industry: A Case Study in KwaZulu-Natal, South Africa

*Lyn Archer*

Impact of School Construction Projects by Canadian NGOs in Nicaragua

*Mary Anne Connell*

EIA for Canada's Largest Greenfield Water Filtration Plant

*Mark Ferguson*

Generation Rate of Construction and Demolition Debris Due to Construction Activities

*Hi Sun Lee*

## PARKSVILLE

### 14.2 Impact Assessment and Decision Making

Co-Chairs: *Hans de Bruijn, Wil Thissen*

Is IA Effective in Influencing Policy Makers?

*Marleen Bekker*

Evaluating the Effectiveness of EIA

*Mat Cashmore*

Moving the EMP from the Shelf to the Field in Shell Petroleum Development Company, Nigeria

*OJ Dada*

Designing SEA to Fit Decision Making

*Maria Rosário Partidario*

## PORT ALBERNI

### 15.2 IA and Transportation

Chair: *Mary Ellen MacCallum*

Reviewing the Quality Environmental Impact Statements: A Case Study on Roads Construction in a Spanish Region. Part II

*Eduardo Peris Mora, Luis Victor Fernández Velasco*

Developing Indicators for Monitoring Sustainable Transport and Mobility

*Rik van Grol, Warren Walker*

Transportation Issues in Impact Assessment in Nunavut, Canada

*Janice Traynor, Robyn Abernethy-Gillis*

Applying the Systems Approach to Sustainable Transport and Mobility

*Warren Walker, Adnan Rahmen, Rik van Grol, Lisa Klautzer*

## GULF ISLANDS BC

### 17.2 Tourism, Recreation and Impact Assessment

#### Special Events

Chair: *Bette Beswick*

Using a Class Screening Approach to Facilitate Environmental Assessments of Private Sector Proposals in National Parks in Canada

*Katherine Cumming, Neils Gilson*

Sustaining an Important Gift from the Ice Age

*Shirley Conover*

Assessing the Potential of Nature-Based Tourism as an Economic Development Opportunity for Rural North Dakota

*F. Larry Leistritz, Nancy M. Hodur, Dean A. Bangsund*

EIA in the Tourism Sector in Egypt  
A.G. Abul-Azm, M. Hassanein  
Whose Waste Is It Anyway?  
Ric Bland

## VANCOUVER

### 18.2 Cumulative Effects Assessment

Co-Chairs: Roger Creasey, Lisa Fischer  
Sponsored by AXYS Environmental Consulting Ltd.  
Environmental Impact Assessment as a Management Tool for Protected Areas  
A. Mendoza-Duran  
The Assessment of Cumulative Effects in a Developing Country Context: The Case of South Africa  
A. van der Walt, C.E. Jones, S.A. Jay  
The Impotence of Cumulative Effects Assessment in Canada: Ailments, and Ideas for Redeployment  
P. Duinker, L.A. Greig

## GULF ISLANDS A

### 21.2 New Methods in Impact Assessment

**Integrating Social and Environmental Impact Assessment**  
Chair: Thomas Hoban  
Rapid Analysis  
Leonardo Marotta  
Integrating Social and Environmental Impact Assessment: A Proposal  
Hobson Bryan  
What Makes Risk Analysis a Successful Business...  
Can Lessons for Impact Assessment be Learned?  
Jean-Michel Attlan, Jean-Roger Mercier, Glenn Morgan  
ESIA - More Than a Tick in the Box?  
Ben Witchalls, Robert Finney  
Problem Structuring Methods for Technology Futures Analysis  
Scott Cunningham

## FINBACK

### 24.2 Health Impact Assessment

**HIA and EIA**  
Chair: Martin Birley  
Rapporteur: Peter Furu  
Trends in the Environmental Impact on the Health Burden in The Netherlands: 1980, 2000 and 2020  
Anne Knol, Brigit Staatsen, Caroline Ameling  
An Inclusive Framework for Environmental Impact Assessment  
Jane Gurney, Nonita Yap  
Addressing Human Health Impacts in EIA: Observations from Case Studies from Northern Canada  
Bram Noble, Jackie Bronson  
Human Health Considerations in the Environmental Assessment of Nuclear Facilities in Canada  
Anar Baweja, Diane McClymont Peace, Bliss Tracy, Jeff Davis  
Roles of Health Impact Assessment and the Potash Mining Project  
Nusaraporn Kessomboon, Pattapong Kessomboon  
Incorporating Health Indicators into Environmental Impact Assessment  
Carolyn Dunn

## GRANVILLE

### 25.2 Strategic Environmental Assessment

**SEA Methods and Techniques**  
Chair: Thomas Fischer  
Innovative Trends in Strategic Environmental Assessment in the United States: Federal Land Management Agencies Are Leading the Way  
Ron Bass  
Processing of Environmental Fuzzy Information (PEFI)  
Driss Zakarya, Jafar Boulejouch  
Proposition of an Analysis Grid for SEA Processes  
Nathalie Risse, Juan-Philippe Waaub, Philippe Vincke  
From Policy to Practice: Recent Developments in the Evolution of Policy Assessment at the Federal Level in Canada  
Greg Wilburn  
IA of Scale Choices  
Sonja Karstens

## AZURE

### 26.2 Urban Impact Assessment

**Urban Planning and EIA**  
Co-Chairs: Markus Eggenberger, Ralf Aschemann  
The Role of Developers in Implementing Low Impact Urban Design in Housing Developments in Auckland  
Viv Heslop  
The Quality in EIA Concerning Detailed Development Plan (DDP)  
Inger Olausson  
The Impacts of Human Activities on the Urban Atmospheric Environment  
Hyoun-Young Lee

## BURRARD

### 28.2 Environmental Legislation, Policies and Institutions and Impact Assessment

**International, Regional and Comparative Contexts**  
Co-Chairs: José-Luis Salazar-Mañez, Nightingale Rukuba-Ngaiza, Susan Waters  
Implementation of the United Nations Economic Commission for Europe Convention in a Transboundary Context Through Regional Guidelines  
Liz Smith  
Environmental Assessment Mainstreaming - Promoting and Facilitating Investment, Sustainable Development and Compliance (Findings from a Study of Californian and Ghanaian Environmental Laws)  
Yaw Amoyaw-Osei  
New Zealand's Resource Management Act- Lesson for Hong Kong?  
Michael Cheung  
Recent Developments for EIA Implementation in Turkey: Establishing EIA Center and Sectoral Approximation Strategy  
Ali Albayrak

## GALIANO

### 30.2 Social Impact Assessment

**Social Impact Assessment**  
Chair: Jose Manuel Palma-Oliveira  
The Significance of Social and Economic Impacts  
David P. Lawrence  
Comparative Analysis of Impacts of Two Forms of Local Ownership  
Jeji Varghese, Naomi Krogman  
Critical Exposé of Local Ownership  
Jeji Varghese, Naomi Krogman, Tom Beckley, Solange Nadeau  
Social Assessment of Hydroelectricity Development in New Zealand  
Nick Taylor, Wayne McClintock, Gerard Fitzgerald  
The Evaluation of SIA Indices for Dam Project Using Delphi Technique in Korea  
Jakon Koo, Muchoon Lee

## PORT McNEILL

### 31.1 Social Impact Assessment and Offshore Oil and Gas

Chair: Rodney E. Cluck  
Sponsored by Minerals Management Service, U.S. Department of the Interior  
Social Impact Assessment and Offshore Oil and Gas in the United States  
Rodney E. Cluck  
Social Impact Assessment and Offshore Oil and Gas in the Gulf of Mexico Region  
Kimberley Cook  
Weighing the Consequences: Engaging British Columbia Communities in Offshore Petroleum Assessment  
Kelly M. Vodden  
Implications of a Paradigm Shift: The Case of Oil Development in Alaska  
John Petterson

## BELUGA

### 35.1 Welcome to IAIA

Chair: Rita Hamm, IAIA CEO  
This session is for all new or prospective Board members, for anyone interested in participating in IAIA as a Committee member, Section member, or liaison, and for any member who wants to know more about the organization, its history, and how it works.

**Tuesday 27th April**  
**13.30 - 15.00**

## FINBACK

### 1.1 Achieving Sustainability

**Approaches to Sustainability Assessment (1)**  
Co-Chairs: J. Ashley Nixon, Jenny Pope  
Sustainability Assessment: Basic Components of a Practical Approach  
Robert B. Gibson  
Strategic Impact Assessments in the Energy Industry: A Comparison with Strategic Environmental Assessment and Sustainability Appraisal  
Monique de Wit

Sustainability Assessment for Projects and Other Business Decisions in Shell Canada  
*J. Ashley Nixon, Meera Nathwani*

Implementing Sustainable Development Using the Publicly Accountable Development Model  
*Ken Banister, Tristan Goodman*

The Water Use Planning Process at BC Hydro: Balancing Water Usage in a Sustainable Way  
*Daryl Fields, Kevin Conlin*

## ORCA

### 2.1 Impact Assessment of International Trade

#### Country/Regional Approaches to Impact Assessment of Trade

*Chair: Rachel McCormick to provide an overview of different approaches currently in use and to moderate the panel discussions.*

**Objective:** The session will provide the context for undertaking impact assessment of trade by comparing and contrasting the different key approaches currently in use, and explore the future directions of this work.

*Presenters/discussants:*

Bill Kennedy (Executive Director, Trade and Environment Program, North American Commission on Environmental Cooperation) to provide comments on the CEC work on assessing the environmental effects of NAFTA  
David Brooks (Director for Natural Resources Policy and Environmental Reviews, Office of the United States Trade Representative) to provide an overview and update of the US process for undertaking environmental reviews of trade agreements.

Eric Peters (Directorate General of Trade, European Union) to provide an overview and update of the EU process to conduct Sustainability Impact Assessments (SIA) of trade.

Thomas Gillmore (Policy Advisor, Environmental Policies and Sustainable Development Division, Foreign Affairs Canada) to provide an overview and update of the Canadian process to conduct environmental assessments of trade negotiations.

## PORT McNEILL

### 3.2 Impact Assessment and the Oil and Gas Industry

#### Community Impact and Traditional Knowledge

*Chair: Kathy Preston*

*Sponsored by Gartner Lee Limited and RWDI West Inc.*

Cumulative Community Impacts of Offshore Oil and Gas Activity in Southern Louisiana  
*Diane Austin*

Community Benefits from Offshore Petroleum Activity  
*Mark Shrimpton, Keith Storey*

Traditional Knowledge and the Impact Assessment of a Gas Gathering System  
*Frank Kotchea, Derek Melton, Terry Forkheim*

Impact Assessment from a First Nations Perspective: Review of a Proposed LNG Facility  
*Susan Wilkins, Michael Shum, Randall Lewis*

## AZURE

### 5.1 Voluntary Environmental Initiatives

#### Voluntary Environmental Initiatives

*Chair: John Dauvergne*

Conducting Impact Assessment Because It Is The Right Thing To Do: The Waterton Seismic Project 2003

*Roger Creasey, Bette Beswick*

Who Says Command-and-Control Doesn't Work?

Case Studies of Corporate Environmental Performance and Public Policy in Taiwan  
*Nonita T. Yap*

A Comparison of Archival Versus Perceptual Measurement of the Impact of Voluntary Environmental Instruments on Corporate Environmental Performance  
*Angus Morrison-Saunders, David Annandale, Michael Hughes*

## GULF ISLANDS BC

### 6.1 Fisheries, Agriculture and Forestry

*Chair: Tom Boivin*

Brief introduction of the afternoon program and tie-in with the morning forum.

Environmental Impact Assessment and Forest Management in Canada: Current and Future Relationships  
*Peter Duinker*

Squaring the Circle: Assessing the Potential of Biomass in Rural Scotland  
*Barbara Illsley, Bill Lynch, Suzanne McAdam*

National Environmental Policy Act (NEPA) Review of a Habitat Conservation Plan for 13 Aquatic and Terrestrial Species on Montana State Trust Lands  
*Pamela Gunther*

A Canadian Perspective on EIA and Aquaculture Development  
*Mark Curtis, M. Husain Sadar, David Conley*

## PARKSVILLE

### 7.1 Electricity and Impact Assessment

#### Electricity and the Role of Impact Assessment

*Co-Chairs: Luis E. Montañez-Cartaxo, Mary Beard Deming*

*Sponsored by Hydro-Québec & Société d'énergie de la Baie James (SEBJ)*

*and SNC-Lavalin Inc., Génivar Inc., Nove Environnement Inc., Tecsult Inc., Le Groupe S.M. International Inc., and Dessau-Soprin Inc.*

A Comparative Study of Environmental Impact Assessment of Different Types of Hydropower Plants  
*Nader Najmi, Mohammad Reza Zarnekabi*

How Many Wind Turbines Is a Region Able to Tolerate? Consideration Between Supporting Sustainability Objectives and the Assessment of Environmental Effects  
*Sabine Mayer*

Experience with Applying Advanced Air Quality and Health Assessment Methods to Address Public and Agency Concerns about the Effects of Gas-Fired Power Generation on Vancouver Island  
*Wayne Edwards, R.G. Humphries*

## GALIANO

### 10.1 Capacity Building: Follow-up on the Marrakech Declaration

*Co-chairs: Jean-Roger Mercier, Jaafar Boulejiouch, Peter Leonard*

Indigenous Knowledge and Environmental Impact Assessment in Developing Countries: An African Example  
*Seth Appiah-Opoku*

Evaluation de l'impact des eaux usées et industrielles sur le comportement économique et sanitaire de la communauté des Mzamza. Province de Settat. Maroc  
*Abdelali Laamari*

Community-Based Impact Assessment Network for Eastern Africa: Training of Trainers Guide on Community Based Environmental Assessment and Sound Design for Small Scale Activities  
*Tito Joel Kodiaga*

EIA Capacity Building in Africa - Trials, Successes and Errors  
*Arne Dalfelt*

## PORT HARDY

### 11.3 Impact Assessment of Infrastructure Projects

*Chair: Malcolm Smith*

Promoting Sustainable Infrastructure: Some Lessons Learned from Projects Supported by Infrastructure Canada  
*Keith Grady*

Wind Turbines, Threatened Species and EIA - Can They Coexist?  
*Stewart Johnson*

A Study of the Assessment of Open-Dumping Landfill for the Post-Closure Management  
*Hong Sang-Pyo*

EIA: Industry and Energy Developments in Iceland  
*Holmfríður Sigurðottir*

## PAVILION D

### 12.1 Impact Assessment and NEPAD

#### Impact Assessment and NEPAD: Environment, Poverty and Development in Africa (Part I)

*Chair: Jean-Philippe Waaub*

Gouvernance environnementale: examen critique du NEPAD et des DSRP  
*Emmanuel Noubissié Ngankam*

Le rôle de l'évaluation stratégique pour le NEPAD: enjeux et défis  
*Jean-Philippe Waaub*

Le NEPAD et les conflits armés en république démocratique du Congo  
*Nicolas Shuku Onemba*

Des exploitations minières liées aux problématiques environnementales aux programmes routiers, le rôle du WWF dans deux domaines figurant parmi les priorités du NEPAD  
*Lantosoa Ramarojaona*

Liens entre la réduction de la pauvreté et la gestion de l'environnement en Afrique - les défis à relever à l'ACDI au niveau des politiques et les occasions à saisir  
*Jacqueline Bilodeau*

## PORT ALBERNI

### 15.3 IA and Transportation

*Chair: Mary Ellen MacCallum*

Recommendations for the Integration of Strategic Environmental Assessment in the Procedure of the German Federal Transport Infrastructure Plan  
*Wolfgang Wende*

On the Monetary Valuation of Transport Related Environmental Impacts within a Strategic Level of Assessment  
*Elisabete Arsenio*

Strategic Assessment of Biodiesel Growth  
*Eric Johnson*

## GULF ISLANDS A

### 20.1 New Methods in IA

**New Methods for Impact Assessment and Other Technology Futures Analyses**

*Chair: Alan Porter*

*Discussants: Wil Thissen, Scott Cunningham*

This panel/workshop will present some of the latest thinking and invite suggestions from the various IA perspectives on candidate methodologies and process management approaches.

## JUNIOR B

### 24.3 Health Impact Assessment

**Joint Workshop on HIA and SEA**

*Chair: Carlos Dora*

*Rapporteur: Decharut Sukkumnoed*

Towards Integrated Impact Assessment  
*Ben Cave, Salim Vohra, Sean Nicholson*

Towards Institutionalizing Policy Health Impact Assessment in Québec  
*Reiner Banken*

Applying Health Impact Assessment to National Agricultural Policy: The Health Implications of the Common Agricultural Policy in a Country Joining the European Union in 2004

*Karen Lock, Mojca Gabrijelcic, Marco Martuzzi, Peter Otorepec, Aileen Robertson, Ales Kuhar, Paul Wallace, Carlos Dora, Jozica Maucec Zakotnik*

Moving A Step Forward: The Contribution of Strategic Environmental Assessment to the Development of Health Impact Assessment in Thailand

*Suphakij Nuntavorakarn, Decharut Sukkumnoed*

Presentation of the Programme on Health and Environment Linkages Initiatives  
*Coordinated by World Health Organization*

## JUNIOR CD

### 25.3 Strategic Environmental Assessment

**SEA in the EU**

*Chair: Ralf Aschemann*

Implementing the European SEA Directive in Planning: Today's Practice and Tomorrow's Integration  
*Lone Koernoov*

Experiences from Norwegian and Nordic case Studies on SEA  
*Tor Lerstang, Arne Tesli*

Impact Scoring and Aggregation  
*Paul Tomlinson*

Assessment of the Impact of the Strategy of Infrastructure Development in the Opole Voivodeship Between 2003 and 2008 on the Environment as an Example of Meeting the Requirements of the "Strategic Directive" of the European Union  
*Ryszard Kowalczyk, Zdzislaw Stefaniak, Grzegorz Szymanski, Jacek Kichman*

Testing an SEA Methodology in the Energy Sector - The Case of Waste Incineration  
*Mans Nilsson, Goran Finnveden*

## JUNIOR A

### 25.8 Strategic Environmental Assessment

**SEA in Development Co-operation**

*Chair: Jean-Pierre Pelletier*

*Sponsored by Dessau-Soprin Inc.*

The Strategic Environmental Assessment Process - A Case Study of Jamaica  
*Elizabeth Emanuel, Jean-Pierre Pelletier*

SEA in Land Use Planning - Comparing Application in Canada and Trinidad  
*Don McKinnon*

Strategic Environmental Assessment of a Large Rural Development Programme in Ethiopia  
*Bernt Rydgren, Yohannes Afework*

Sectoral Environmental Assessment in Mexico: A Methodological Approach  
*Julieta Pisanty-Levy*

Strategic Environmental Assessment in Korea  
*Kim Myungjin*

## BURRARD

### 28.3 Environmental Legislation, Policies and Institutions and Impact Assessment

**Implementation at the Municipal Level**

*Co-Chairs: José-Luis Salazar-Mañez, Nightingale Rukuba-Ngaiza, Susan Waters*

Mitigation: Paper Promises or Actual Practice?  
*Alan Bond*

Influence of the Environmental Impact Assessment Process of Infrastructure Projects in the Conservation and Study of Cultural and Historical Heritage in Spain from 1990 to 2003  
*Rosa M. Arce-Ruiz*

## VANCOUVER

### 29.1 Public Participation

**Public Participation in Canada I (N = 5)**

*Chair: Des Connor*

*Sponsored by Vancouver International Airport Authority*

Better Stakeholder Involvement Through Multi-Attribute Decision Analysis  
*Andrew Thrift*

After the Project Approval - How to Involve Your Community, Stakeholders and the Public  
*Anne Murray, Simon Robinson*

WIN-WIN-WIN: Three Cases Show the "Magic" of Good Consultation  
*Lee Doran*

Randle Reef Sediment Remediation: Engaging Public Participation  
*Sheila Allan, John Shaw*

EIA and Impact Benefit Agreements: Creative Tension or Conflict?  
*John Donihue, Heidi Klein, Gordon Stewart*

## GRANVILLE

### 30.3 Social Impact Assessment

**Social Impact Assessment**

*Chair: Jose Manuel Palma-Oliveira*

The Guidelines Project  
*C.P. Wolf*

The Canadian Connection  
*C. P. Wolf*

Psycho-Social Monitoring of an Industrial Activity  
*José Manuel Palma-Oliveira*

Psychological and Physical Determinants of Noise Annoyance: The Interaction Between Car and Train  
*José Manuel Palma-Oliveira*

The First SIA of a Development Project on Ainu  
*Masami Iwasaki-Goodman*

## BELUGA

### 32.1 Incorporating Weather and Climate Forecasts into Energy Production and Management: Economic Benefits, Impact Assessments and Power Industry Applications

*Chair: Mary G. Altalo*

Climate Change Impacts on Electric and Natural Gas Utility Asset Operations and Costs  
*Todd D. Davis, Mary G. Altalo*

Economic Impacts of Improved Hourly Temperature Forecasts for Electricity Generators  
*Lorna A. Greening, Dennis Gaushell, Todd Davis*

Leveraging the Information in Ensemble Weather Forecasts for More Reliable Renewable Energy Generation  
*L. A. Smith, J. Broecker, D. Kilminster, L. Clarke*



**Tuesday 27th April**  
**15.30 - 17.00**

## FINBACK

### 1.2 Achieving Sustainability

#### Approaches to Sustainability Assessment (2)

*Co-Chairs: J. Ashley Nixon, Monique de Wit*

Integrated Approaches to Sustainability Assessment  
*William J. Varey*

Technology Assessment: A Framework for Combination of Tools  
*Getachew Assefa*

From Cost to Benefit: Can Sustainability Breathe New Life into Impact Assessment?  
*Lee Doran*

Measuring Sustainable Production  
*David Burdick*

## PORT McNEILL

### 3.3 Impact Assessment and the Oil and Gas Industry

#### Social Impact Assessment and Lessons Learned II

*Chair: Todd Zimmerling*

*Sponsored by Gartner Lee Limited and RWDI West Inc.*

Social Impact Assessment in the Mahakam Delta  
*Anne Morillon, Philippe Lafay*

Lessons Learned from the Environmental and Social Impact Assessment and Mitigation Process for the Baku-Tbilisi-Ceyhan (BTC) Oil Pipeline between the Caspian and Mediterranean Seas  
*Edward Pollett, Patricia Miller, Shawn Miller*

A Comparative Analysis of Environmental Impact Assessment of Coal Bed Methane (CBM) and Steam-Assisted Gravity Drainage (SAGD)  
*Clint Smyth*

## JUNIOR A

### 4.1 International Finance

#### International Finance

*Co-Chairs: Glen Anderson, Peter Neame, Greg Radford*

*Sponsored by International Finance Corporation and Export Development Canada*

IA and Export Credit  
*Greg Radford*

Impact Assessment and International Finance  
*Peter Neame*

Using IA as an Environmental Risk  
*C.R. Heydenreich*

## GULF ISLANDS BC

### 6.2 Fisheries, Agriculture and Forestry

*Chair: Peter Duinker*

Application of Risk Assessment Principles to the Assessment of Impacts on Fish Health from Oil Sands Development: How Safe Is Safe Enough?  
*Stella Swanson, Geetha Ramesh*

Fisheries and Environmental Issues Related to Mini-Hydro Developments in the Mekong River Basin, Lao PDR  
*Thomas Boivin, Amnat Prommasutra, William Harland, Garth Taylor*

Compliance with Fisheries Act Section 35 (2) Authorisations: A Field Audit of Habitat Compensation Projects in Canada  
*Jason Quigley*

Effectiveness of Fish Habitat Compensation in Canada in Achieving No Net Loss  
*Jason Quigley*

Wrap-up discussion for reporting

## PARKSVILLE

### 7.2 Electricity and Environmental Assessment

#### Electricity and the Role of Impact Assessment

*Co-Chairs: Luis E. Montañez-Cartaxo, Mary Beard Deming*

*Sponsored by Hydro-Québec & Société d'énergie de la Baie James (SEBJ) and SNC-Lavalin Inc., Génivar Inc., Nove Environnement Inc., Tecult Inc., Le Groupe S.M. International Inc., and Dessau-Soprin Inc.*

Challenges and Approaches in Environmental Impact Assessments: Wind Turbines and Migratory Birds  
*Andrew Robinson*

Integrating Climate Change Considerations into Environmental Assessments of Hydro-Electric Power Projects in Eastern and Northern Canada  
*Bhawan Singh*

Achieving Ecological Sustainability in the Environmental Assessment Review of Run-Of-River Hydropower Projects in British Columbia, Canada  
*Berni R. Claus*

Developing a Siting Application for Electric Transmission Facilities: Data, Display, Decisions and Documentation  
*Mary Beard Deming, David Hawkins*

## PAVILION D

### 12.2 Impact Assessment and NEPAD

#### Impact Assessment and NEPAD: Environment, Poverty and Development in Africa (part II)

*Chair: Jean-Philippe Waaub*

A Review Package  
*Luke Sandham*

Protection of the Cultural and Ecological Heritage - Seismic Acquisition in the Murzuq Desert in Libya  
*Jacques Miné, Jean-Claude Ringenbach, Francis Clément, Olivier Wattez*

La destruction des écosystèmes forestiers de la province du Bas-Congo (République Démocratique du Congo)  
*Nicolas Shuku Onemba*

L'impact de la production de charbon de bois dans la commune de Lemba (RDC)  
*Nicolas Shuku Onemba*

Rôle des populations locales dans la gestion durable des ressources forestières : stratégie pour leur implication  
*Célestine Mengue*

Capacity Building Project for Public Participation  
*Peter Croal*

## GALIANO

### 14.3 Impact Assessment and Decision Making

*Co-Chairs: Hans de Bruijn, Wil Thissen*

Does HIA Have an Impact on Decision Making Processes?  
*Louise Nilunger, Matthias Wismar*

Healthy Decisions  
*Marleen Bekker*

The Visualization of Impact Assessment  
*Linda Carton*

Challenges in the Use of Traditional Knowledge in EIA  
*Chris O'Neill*

## JUNIOR B

### 15.4 IA and Transportation

*Chair: Mary Ellen MacCallum*

Developments in EIA of National Highway Schemes in the UK  
*Amanda Chisholm, Dean Kerwick-Chrisp,*

Highways Agency Environmental Performance: Above the Waterline  
*Dean Kerwick-Chrisp*

Does Lithuanian Transport Policy Threaten Natural Habitats?  
*Ausra Svarpliene*

Implementation of the European SEA Directive for English Transport Plans  
*Monica Fundingsland, Christopher Wood*

## AZURE

### 16.1 Voluntary Environmental Initiatives—Industry Achievements

#### Industry and CIPEC: Making Progress in Achieving Kyoto Objectives

*Chair: Betty Hansen*

Industry and CIPEC: Making Progress in Achieving Kyoto Objectives  
*Philip Jago*

CIPEC, Climate Change and the Forest Products Industry  
*Paul Lansbergen*

Unilever, CIPEC and NRCAN: Team Achievements, Education and Public Participation in Reducing Energy Use  
*Doug Dittburner*

## PORT ALBERNI

### 19.1 Impact Assessment Follow-Up

#### Session 1: Theory to Practice

*Co-Chairs: Jill Baker, Angus Morrison-Saunders, Jos Arts*

Exploring the Dimensions of EIA Follow-up  
*Angus Morrison-Saunders, Jos Arts*

Environmental Follow-up and Monitoring at Canada's National Energy Board  
*Chris Finley, Alison Farrand, Mieke Vander Valk*

Towards Increasing the Utility of Follow-up in Canadian EIA  
*Keith Storey, Bram Noble*

A Model of Social Impact Assessment Follow-up for Local and Regional Sustainable Development  
*Christiane Gagnon*

SEA Follow-up: Which Way?  
Maria Rosário Partidario

## PORT HARDY

### 23.1 Environmental Management Systems

Chair: Debra Zanewich

Integrating Impact Assessment and Environmental Management: The Vancouver International Airport Authority Experience  
Simon Robinson, Anne Murray

Environmental Management Planning in EIAs for New Industrial Estate Projects in England  
Paul Slinn

Integrated Environmental, Social and Health and Safety Management Systems as a Complement to the ESIA Process  
Peter Neame, Nicolas Flanders

Pollution Prevention Success Stories at Tinker Air Force Base, Oklahoma  
Freddie Hall

## BURRARD

### 24.4 Health Impact Assessment

#### HIA Evaluation

Chair: Roy Kwiatkowski

Rapporteur: Suphakij Nuntavorakarn

What Can the HIA Field Learn from Evaluation Activity in Other Impact Assessment Areas?  
Lorraine Taylor, Robert Quigley

Criteria for Evaluating the Quality of Health Impact Assessments  
Jayne Parry, John Kemm, John Devlin, Margaret Douglas, Rainer Fehr, Juhani Letho, Karen Lock, Mark McCarthy, Paul Marshall, Louise Nilunger, Sandra Nutley, Alex Scott-Samuel, Mathias Wismar

Improving Practice in Impact Assessment - Additional Findings from the Learning from Practice Style  
Robert Quigley, Lorraine Taylor

Building Capacity for Health Impact Assessment in Europe  
Marco Martuzzi

## JUNIOR CD

### 25.4 Strategic Environmental Assessment

#### SEA in the EU

Chair: Ralf Aschemann

SEA and Hydrological Planning: Two Synergetic European Directives  
Natalia Gullon

Implementing the European SEA Directive in Germany - Between "Do-Minimum" and "(Pro-) Active Initiatives"  
Holger Dalkmann

The European SEA Directive: Changes in Spatial and Land Use Planning in Germany  
Thomas B. Fischer

The Use of Principles, Criteria and Indicators in Relation to Strategic Environmental Assessment of Land-Use Plans  
Ingrid Belcakova

Implementation of the SEA Directive in England  
Emma James

## GRANVILLE

### 25.7 Strategic Environmental Assessment

#### Introducing New SEA Systems

Chair: Jiri Dusik

Redesigning the Environmental Assessment System in Korea  
Young-Il Song, Hyun-Woo Lee, Young-Joon Lee, Young-Joon Joo, Joon-Gyu Choi, Sang-Wook Han

SEA and Saemangeum Reclamation Project  
Sang Hoon Lee, Im Soon Kim, Sang Wook Han, Yoon Shin Kim

Strategic Environmental Assessment: Needs and Opportunities in Mexico  
Juan R. Palerm

Strategic Environmental Assessment and State Ecological Expertise: Combining Incompatible?  
Leyli Bektashi

Strategic Assessment of Deepwater Oil and Gas Development in Nigeria  
C.P. Wolf

## GRAND AB

### 28.4 Environmental Legislation, Policies and Institutions and Impact Assessment

#### Implementation and Reform

Co-Chairs: José-Luis Salazar-Máñez, Nightingale Rukuba-Ngaiza, Susan Waters

Revisioning the Place of Public Participation in Environmental Assessment Law  
John Sinclair

Legal Issues Relating to Impact Assessment Processes and Decisions—The Canadian Experience  
Bradley Armstrong

Practical Implementation of Environmental Legislation in a First/Third World Country  
Francois Friend

Common Mistakes in Environmental Impact Assessment and How to Avoid Them  
Ron Bass

## VANCOUVER

### 29.2 Public Participation

#### Public Participation - International Context

Chair: Des Connor

Sponsored by Vancouver International Airport Authority

Integrating Inequalities into Health EIA  
Ben Cave, Salim Vohra (UK)

EIA as a Consensus Building Tool: The Hidden Contribution of EIA to Industry  
Einhua Gonzalez

Enhanced Public Participation in EIA Process in Nepal  
Batu Uprety

EIA System and Practice of Public Participation in the Russian Federation  
Nicole Kovalev

Crossing Borders, Lessons Learned: A Case Study on Public Participation in a Transboundary Context  
Roel Nijsten, Astrid Paulussen

## BELUGA

### 32.2 Incorporating Weather and Climate Forecasts into Energy Production and Management: Economic Benefits, Impact Assessments and Power Industry Applications

Chair: Mary G. Altalo

Climate Forecasts for the Energy Industry: Moving Beyond Weather  
David Pierce, Eric Alfaro, Tim Barnett, Alexander Gershunov, Anne Steinemann

The Impact Enhanced Weather Data and Assessment on the Risk Profile of the Energy Industry  
Monica Hale, Mary G. Altalo

Mainstreaming Environmental Forecast Information into Management Decision Tools in the Power Industry  
Mary G. Altalo, Monica Hale

**Wednesday 28th April  
10.30-12.00**

## FINBACK

### 1.3 Achieving Sustainability Impact Assessment Systems and Sustainability

Co-Chairs: J. Ashley Nixon, John Curry

Achieving Sustainability Through Australia's New Impact Assessment Regime  
Gerard Early

Status of Strategic Environmental Assessment (SEA) Practice in South Africa  
Francois Retief, Nigel Rossouw, Carys Jones, Stephen Jay

Exchanging Alphabet Soup for a Map and a Compass: Pathways to Policies and Programmes for Sustainable Development  
Martin Ward, Alison Dalziel

Integrated Impact Assessment for Achieving Sustainable Development  
Pierre Légaré, Yogesh Vyas, Manon Circé

## ORCA

### 2.2 Impact Assessment of International Trade

#### Country Studies and Capacity Building Initiatives in Impact Assessment of Trade

Chair: Eric Dannenmeier

Objective: The session will explore the interests and specific needs of developing countries with regard to designing and implementing appropriate national processes for impact assessment of trade.

Presenters/discussants:

Scott Vaughan (Director, Unit for Sustainable Development and Environment, Organization of American States) to discuss the OAS-Inter-American Forum on Environmental Law (FIDA)

program to produce National Environmental Assessments of trade agreements, and highlighting recent studies undertaken in Brazil and Argentina.

Hussein Abaza (Chief, Economics and Trade Branch, United Nations Environment Programme), to outline UNEP's capacity building efforts for integrated assessment of trade.

Evelyn Bermudez (Project Manager, Sustainability Impact Assessments, World Wide Fund for Nature-WWF) to provide comments on the WWF work in the EU, the Philippines and Brazil.

Marie-Isabelle Pellan (Legal Affairs Officer, Trade and Environment Division, World Trade Organization) to provide information on discussions in the Committee on Trade and Environment at the WTO on the Doha Declaration (B51) regarding the issue of sustainable development in the context of the ongoing negotiations.

L.Y.Tsai, (Section Chief, Environmental Protection Agency, Chinese Taipei) to comment on a forthcoming APEC Seminar "The Environmental Impact Analysis of Trade Liberalization Measures-Methodology and Case Studies" to be held in Chinese Taipei in early July 2004.

## PORT McNEILL

### 3.4 Impact Assessment and the Oil and Gas Industry

#### Advances in Impact Assessment Process I

Chair: Kathy Preston

Sponsored by Gartner Lee Limited and RWDI West Inc.

Using Environmental Assessment to Understand and Manage the Effects of Oil Sands Development in Northern Alberta  
Laury North

Constraints Mapping at a SAGD Facility in the Oil Sands Region of Northern Alberta  
Kym Fawcett, Ian Gilchrest, Michael Burt

How HIA is Done in Shell's Business  
Martin Birley

Cameroon's Oil and Gas Industry: Controlling Project Environmental Performance Beyond EIA  
Michael Burns

## GULF ISLANDS A

### 5.2 Voluntary Environmental Initiatives

#### Voluntary Environmental Initiatives

Chair: John Dauvergne

Using Life-Cycle Impact Assessment to Assess Environmental Performance in the Electricity Sector: Case Studies in Canada and the U.S.  
Stanley Rhodes

The Electricity Sector: Environmental Commitment and Responsibility  
Valerie Snow

## GRAND AB

### 8.3 Biodiversity and Impact Assessment

#### Biodiversity and Impact Assessment: Strengthening Biodiversity Conservation

Chair: Helen Byron

Strengthening Biodiversity Conservation Through Community Development Projects  
Asha Rajvanshi

Evaluation de la qualite du reseau hydrographique de la region de Meknes (Maroc)  
M'hamed Khaffou

Update on the Capacity Building in Biodiversity and Impact Assessment (CBBIA) project  
Leader: Jo Treweek

## GRANVILLE

### 14.4 Impact Assessment and Decision Making

Co-Chairs: Hans de Bruijn and Wil Thissen

Towards Guidelines for Analytic Support in Multi-Actor Situations  
Wil Thissen

Adapting IA to the Nature of the Decision Process  
Bobbi Schijf

Policy Inquiry Through Impact Assessment: Insights from Policy Analysis  
Tabatha Wallington

EIA Made in the North  
Martin Haefele

## GALIANO

### 18.3 Cumulative Effects Assessment

Co-chairs: Roger Creasey, Lisa Fischer

Sponsored by AXYS Environmental Consulting Ltd.

Cumulative Effects Assessments for Private Sector Projects  
M.Athie

Cultural Cumulative Impact Assessment in Canada's Far North  
A. Ehrlich and S. Sian

Bridging the Gap: The Role of Cumulative Effects Assessment in Strategic Environmental Assessment and Planning  
J. Dixon, T. Jackson

Emerging Issues in Environmental Assessment of Wind Energy Facilities  
A. Lineham

## PORT ALBERNI

### 19.2 Impact Assessment Follow-up Theory to Practice & Techniques

Co-chairs: Jill Baker, Angus Morrison-Saunders, Jos Arts

EIA Follow-up Procedures in Turkey: Current Situation and Future Outlook  
Ali Albayrak, Omer Soylu and Mustafa Aytaç

Rigor of EIA Review and Its Implications on Predicting and Monitoring Impacts in Turkey  
Sherwin Shih and Petr Komers

## "Going Dutch"

Jos Arts

The Role of Project Inspection in the Impact Assessment Follow-up and Monitoring Process. A Case Study of the World Bank Inspection Panel and the Chad Cameroon Oilfield and Pipeline Project.

Miles Scott-Brown, Alberta Ninio, Elliot Fratkan

Integrated Impact Monitoring for Industrial Area: Kerteh Malaysia  
Nuraini Hambali

Proposed Community Based Monitoring of Aquatic and Terrestrial Resources in the Oil Sands Region, Northeastern Alberta for the Mikisew Cree First Nation Development Intervention  
Joseph Wells, Lori Brewer Lawe

## PORT HARDY

### 23.2 Environmental Management Systems

Chair: John Foster

Industrial Responses to the Cleaner Production Program in Jiangsu Province, China  
Hongyan H. Oliver, Leonard Ortolano

How Green is the Scottish Economy? Is there a link between a lack of environmental management systems and a presence within the renewables sector?  
Bill Lynch, Suzanne McAdam

Environmental Management Tools to Improve Theory and Practice  
Dixon Thompson

Methods for the Implementation of Total Water Pollution Management (TWPM) in Chungnam Province, Korea  
Jong-Gwan Jung, Sang-Jin Yi

## BURRARD

### 24.5 Health Impact Assessment

#### The Workshop on "Developing HIA Evaluation Framework"

Chair: Lorraine Taylor

Rapporteur: Alan Bond

Developing a Framework for Evaluating Health Impact Assessment  
Lorraine Taylor, Marleen Bekker, Robert Quigley

Followed by discussion

## PARKSVILLE

### 25.5 Strategic Environmental Assessment

#### SEA theory

Chair: Olivia Bina

Reflection on the Evolution of SEA  
Olivia Bina

Different Meanings of Strategic Environmental Management  
Aleg Cherp

The SEA Effectiveness Criteria and Principles in Italy  
Paola Gazzola

The Converging Evolution of Land-Use Planning and Strategic Environmental Assessment  
*Richard Hill, Richard Fuggle*

Is SEA the Answer to Environmental Degradation in Developing Countries?  
*Ahmad Saeed*

## JUNIOR CD

### 25.9 Strategic Environmental Assessment

**The Search for Sustainability Appraisal - Recent Progress and Future Prospects**

*Chair: Martin Ward*

This session will review a survey of the field recently undertaken by IIED and incorporating the results of several round tables.

The focus at IAIA will be on an interactive discussion, which will emphasize the role of SEA as an entry point to SA, asking what we can gain from moving toward a more integrated approach and what we might lose in terms of safeguards for the environment. This debate also picks up on work being done by the OECD DAC Task Group.

## JUNIOR B

### 26.3 Urban Impact Assessment

**Urban Infrastructure and EIA**

*Chair: Markus Eggenberger*

Les effets structurants et impacts d'infrastructures routières sur la morphologie urbaine et les paysages : le cas des entrées routières à l'île de Montréal

*Michel Gariépy*

Environment and Solid Waste Management in Lagos, Nigeria

*Abraham Adesina Adeyemi*

Urban Planning and Co-Existence in Sweden Or - Who Came First - The Plant or the Village?

*Kerstin Larsson*

## BELUGA

### 27.1 Impact Assessment of Disasters, Accidents and Conflicts

**Crisis Management and Impact Assessment: Is there common ground?**

*Co-Chairs: Charles Kelly, Martin Petersen, Michel A. Bouchard*

Your Assessment of My Needs  
*Charles Kelly*

Boundaries of Peace and the Challenge of Impact  
*Peter Offu*

From Refugees to Regulations  
*Martin Petersen*

Discussion on "Crisis Management and Impact Assessment: Is There Common Ground?"

## VANCOUVER

### 29.3 Public Participation

**Toward Guidelines for Public Participation Best Practices Principles**

*Co-Chairs: Pierre André, Bert Enserink*

*Sponsored by Vancouver International Airport Authority*

This interactive session will review and make suggestions about a draft of the brief PP Best Practices document developed after input from the participants at IAIA'03 (Marrakech); it includes Basic, Operating and Developmental Principles. This initiative was undertaken at the request of the IAIA Council, since PP is an integral part of EA; a revised version will be provided to the Council for its approval.

*Authors: Pierre André, Université de Montréal; Bert Enserink, Delft University of Technology; Des Connor, Connor Development Services Ltd.; Peter Croal, Southern African Institute for Environmental Assessment*

## AZURE

### 33.1 Climate Change and Impact Assessment

*Chair: Miles Scott-Brown*

Incorporating Climate Change Considerations in Environmental Assessments  
*Steve Burgess*

Addressing Climate Change and Its Uncertainties in Impact Assessments

*Phillip H. Byer, Julian Scott Yeaomans*

Incorporation of Adaptation to Climate Change into the EIA Process: Application of a Practitioner's Guide in the Developed and Developing World

*Norval Collins, Jean-Roger Mercier, Alan Bell, Robert Young*

## JUNIOR A

### 34.1 Impact Assessment and the Mining Industry

**Impact Assessment and the Mining Industry**

*Co-Chairs: Luis Sánchez, Susan Ross, Alonso Zarzar*

Improving EIA Process in Developing Countries:

Case Study of the Peru Mining Industry

*W. Holden, P. Garcia, D. Thompson*

SIA and the Mining Industry: Evolving Expectations

*J. Hamilton, R. Barsi*

The Value of Early Social Assessment in Mining

*S. Joyce, I. Thompson*

Community-Based Remediation of Environmental Liabilities in Bolivian Small-Scale Mines

*E. Monosowski, L. Sánchez, J. Torrez*

Mining Development Projects and the Environment in the African Experience

*E. H. Shannon*

## GULF ISLANDS BC

### 36.1 Strategy for Building Capacity in Environmental Assessment and Management in Africa

*Chair: Peter Tarr*

Africa's EA&M Capacity Building Strategy: An Overview

*Abdulrahman Issa*

Vision for CLEIAA and the Sub-Regional Nodes as the Preferred Institutional Approach

*Peter Acquah*

Project Proposals - An Overview of Priority Activities for Which Support Is Being Sought  
*Peter Tarr*

World Bank Involvement in EA&M Capacity Building in Africa - Reflection on Current and Possible Future Involvement

*John Boyle*

USAID Involvement in EA&M Capacity Building in Africa - Reflection on Current and Possible Future Involvement

*Walter Knausenberger, David Kinyua*

Discussion and conclusion

**Wednesday 28th April**  
**13.30 - 15.00**

## FINBACK

### 1.4 Achieving Sustainability

**Application of Sustainability Assessment in Port, Water, Forestry and International Recreation Developments**

*Co-Chairs: J. Ashley Nixon, Tisha Greyling*

Facilitating Sustainable Development in Developing Countries Through Improving Linkages Between Environmental Assessment and Management Tools: A Case Study from the Coega Industrial Development Zone and Port, South Africa  
*Paul Lochner, Frauke Munster, Stuart Heather-Clark*

Incorporating Sustainability into Environmental Impact Assessment: A Case Study of the Vancouver 2010 Olympic and Paralympic Winter Games

*Timothy J. Bekhuys, George McKay*

"If You Cut the Forest, We Will Die of Thirst": How Community EIA Made a Difference in Kenya  
*Harry Spaling*

Evaluation of Forestry Programs and Policies in Mexico: The Experience of the National Forest Commission

*Luis Miguel Casas de la Peña, Verónica Eguarte López, Javier Vergara Blanco*

## ORCA

### 2.3 Impact Assessment of International Trade

**Impact Assessment of Trade Liberalization and Multilateral Environmental Agreements**

*Chair: Clive George*

Objective: The session will examine how impact assessment of trade and multilateral environmental agreements (MEAs) can be mutually supportive.

*Presenters/discussants:*

Hussein Abaza (Chief, Economics and Trade Branch, United Nations Environment Programme)



reporting on the outcome of the March 2004 UNEP meeting in Korea to examine the relationship between multilateral environmental agreements (MEAs) and integrated assessment of trade.

Karel Mayrand (Director of Research, Unisféra International Centre) to present paper: "The Doha Agenda on Agriculture: Assessing Potential Impacts on the United Nations Convention to Combat Desertification (UNCCD) Implementation."

Robert Höft (Program Officer, Secretariat of the Convention on Biological Diversity) to provide an overview of recent work to explore linkages between impact assessment of trade and biological diversity.

## PORT McNEILL

### 3.5 Impact Assessment and the Oil and Gas Industry

#### Regional Strategic Environmental Assessment

Chair: Todd Zimmerling

Sponsored by Gartner Lee Limited and RWDI West Inc.

Strategic and Regional Environmental Impact Assessment for Norwegian Petroleum Development Projects Offshore  
Sigurd Juel Kinn

Applying a Regional Strategic Environmental Assessment Approach to the Management of Offshore Oil and Gas Development  
Celesta L. Horvath, Jeffrey L. Barnes

Strategic Environmental Assessment of Oil and Gas Exploration Activities in the Newfoundland and Labrador Offshore Areas  
Kim Coady

Community Participation in the EIA Process of Oil and Gas Development in the Nigerian Delta: Case Studies of Development Projects in Bonny Island  
Edward Tamunosiminikarama Bristol-Alagbariya

## PAVILION D

### 7.3 Electricity and Environmental Assessment

#### Electricity and the Role of Impact Assessment

Chair: Réal Courcelles

Sponsored by Hydro-Québec & Société d'énergie de la Baie James (SEBI) and SNC-Lavalin Inc., Génivar Inc., Nove Environnement Inc., Tecult Inc., Le Groupe S.M. International Inc., and Dessau-Soprin Inc.

The State of Current Practice of Environmental Impact Studies: The Case of Small Scale HydroPower Projects  
Paulo Pinho

The Writing of EIS for Electric Projects in Mexico  
Luis E. Montañez-Cartaxo

Coursier Dam Decommissioning and Environmental Restoration  
Carol Lamont

Environmental Product Declaration - A Corporate Communication Tool  
Bernt Rydgren

A Significance of Strategic Environmental Assessment for Dam Construction in Korea  
Sang-Don Lee, Seung-Hoon Chun

## JUNIOR B

### 8.4 Biodiversity and Impact Assessment

#### Biodiversity and Impact Assessment: Practice

Chair: Bernt Rydgren

Biodiversity Assessment in the Oil Sands Region, North-Eastern Alberta  
Mark Sherrington

Use of Offshore Wind Energy in the German North and Baltic Sea - Climate Protection Versus Biodiversity?

Johann Koppel, Alexandra Langenheld

Biodiversity and EIA for Road and Railway Projects: A Review in European Union Countries  
Mikael Gontier

How are Impacts on Biodiversity Analysed in EIA in Sweden?  
Antoinette Oscarsson, Cecilia Kjellander, Johnny de Jong

## GULF ISLANDS BC

### 10.2 Capacity Building: Follow-up on the Marrakech

#### Capacity Building: Follow-up on the Marrakech Declaration

Co-Chairs: Jean-Roger Mercier, Jaafar Boulejiouch, Peter Leonard

Environmental Assessment Institutional Capacity Building in Infrastructure Projects Public Policy to Stimulate Private Investment: Review of Good Implementation Cases  
Gediz Kaya, Jean-Roger Mercier, Ede Jorge Ijasz-Vasquez

Environmental Assessment Capacity Building - EA Tool Kit  
Susan M. Carlick

SEA and the Ghana Poverty Reduction Strategy  
Peter Nelson

Discussion of papers and development of the Marrakech Action Plan

## JUNIOR CD

### 13.1 Corporate Social Responsibility

#### Corporate Social Responsibility

Chair: Christiane Gagnon

Triple Bottom Line Reporting by Indigenous Business Enterprises  
Siva Ram Vemuri

Impact Assessment and Corporate Social Responsibility: A Comparative Case Study Review of Oil and Gas Industry in Casanare, Colombia and Niger Delta, Nigeria  
Adeyemi Ademola Egbaleke

Screening for Corporate Social Responsibility (CSR) Issues in Due Diligence  
Karen Clarke-Whistler

## PORT ALBERNI

### 19.3 Impact Assessment Follow-up

#### Case Studies and Outcomes

Co-Chairs: Jill Baker, Angus Morrison-Saunders, Jos Arts

On the Successful Implementation of Mitigation Measures: Lessons From a Case Study  
Luis Enrique Sánchez, Amarilis Lucía Castelli Figueiredo Gallardo

Analysis of the Follow-up Studies of Major Regional Transportation Projects  
Reima Petajajarvi

Environmental Follow-up of Operation and Maintenance of Railway Infrastructure in Sweden and Some Other Countries  
Kristina Lundberg

Northern Wood Preservers Site Sediment Remediation: EA Follow-up Program  
Rob Dobos, Roger Santiago

The Development of an Integrated Mitigation Program for the Protection of the Osprey within the Low-level Training Program in Goose Bay, Labrador  
Louis LaPierre

## PORT HARDY

### 23.3 Environmental Management Systems

Chair: Debra Zanewich

Mining and EMS  
John Foster

Computer Modeling of Air Quality Impacts Released from an Industrial Wastewater Treatment Plant  
Freddie Hall

Pollution Prevention Initiatives at an Industrial Wastewater Treatment Plant  
Freddie Hall

Aiding the Environment: Does AusAID's EMS Help to Green the Aid Industry?  
Meg Keen, Marjorie Sullivan

## BURRAD

### 24.6 Health Impact Assessment

#### Workshop on "Improving Access to Robust Evidence for HIA"

Chair: Jennifer Mindell

Rapporteur: Marleen Bekker

Improving Access to Robust Evidence for Health Impact Assessment  
Jennifer Mindell, Michael Joffe, Sarah Curtis, Annette Boaz, Karen Lock, Jane Biddulph

Followed by discussion of the content, format and presentations of guidelines for conducting systematic and rapid reviews of evidence for use in HIA.

## GRANVILLE

### 24.7 Health Impact Assessment

#### HIA Instruments and Techniques

Chair: Mark McCarthy

Rapporteur: Robert Rattle

Food Issues in Environmental Impact Assessments  
Gordon Boulton

Health Risk Assessment at an Industrial Wastewater Treatment Plant  
Freddie Hall

Why Standardized Risk Assessment Guidance within a Health Impact Assessment is Essential to Effective Environmental Stewardship of Federal Contaminated Sites in Canada  
*Mark Richardson, Sanya Petrovic, Jacinthe David*

Integrated Pollution Prevention and Control (IPPC): An Insight into the Experience of Health Authorities in the Northern and Yorkshire Area of the North East of England  
*Balsam Ahmad, Shelley Lanser, Tanja Pless-Mulloli, Catherine Vizard*

Assessment of Health Impact on Samut Songkram Province: The Case Study of Project Diverting Water from Mae Klong River (Phase 1)  
*Sanchai Sutipanwihan*

Transboundary Winter Fog in Pakistan: Can EIA Play a Role in Controlling Transboundary Pollution?  
*Ahmad Saeed*

## PARKSVILLE

### 25.6 Strategic Environmental Assessment

#### SEA and the Private Sector

*Chair: Ross Marshall*

Developing Sustainable Development Indicators for the Electric Utility Industry  
*Cory Searcy, Daryl McCartney, Stanislav Karapetrovic*

How Has SEA Affected Canadian Agricultural Policies?  
*Ian Campbell*

Strategic Environmental Assessment Benefits to Industry: A Case Study of Integrated SEA in Saskatchewan's Forestry Sector  
*Bram Noble*

Demonstrating the Added Value of a Strategic Approach to Environmental and Sustainability Assessment  
*Johanna Curran*

Designing SEA to Fit its Context: The Case of Privatised Electricity Companies  
*Steven Jay*

## GALIANO

### 25.10 Strategic Environmental Assessment

#### Integration of SEA and Decision Making

*Co-Chairs: Lone Koernev, Wil Thissen, Lex Brown*

Background Statement for Session  
*Lex Brown*

An Investigation of the Relationship Between the Higher Decision-Making Processes and the Strategic Environmental Assessment (SEA) in the United Kingdom  
*Sangsoo Mun*

## VANCOUVER

### 29.4 Public Participation

#### Public Participation in Japan (N = 5)

*Chair: Des Connor*

*Sponsored by Vancouver International Airport Authority*

Creating More Advanced Environmental Guidelines of the Japan International Cooperation Agency (JICA)  
*Sachihiko Harashina*

An Experimental Study on the Multigenerational Workshop for Sustainable Society  
*Shigeo Nishikizawa, Katsuyoshi Tanaka, Sachihiko Harashina*

Public Participation for Restoration of the Sanbanze Tidal Flat - Outcome of the Biggest Roundtable in Japan  
*Hidefumi Kurasaka*

SEA Approach for Consensus Building of Regional Waste Management - A Case Study in Nagano Prefecture, Japan  
*Sachihiko Harashina*

The Canadian Environmental Assessment Act Registry Internet Site: Providing for More Meaningful Public Participation  
*James Mack*

## JUNIOR A

### 34.2 Impact Assessment and the Mining Industry

#### Impact Assessment and the Mining Industry

*Co-Chairs: Luis Sánchez, Susan Ross, Alonso Zarzar*  
Managing Large Multidisciplinary, Multicultural EIAs  
*J. Chávez, J. Anderson, M. Raine, H. Burns*

CEAA, A Challenge to Continual Improvement: One Industry's Experience  
*M. Wittrup, G. White*

Achieving Regional Sustainability: The Evolution of Mine Closure Planning in the Saskatchewan Uranium Industry  
*R. Barsi, J. Harrell, G. Misfeldt, B. Pollock*

Impact Assessments and Sustainable Development in Canadian Uranium Mining  
*R. Vance*

EA Process in the NWT under the Mackenzie Valley Resource Management Act (MVRMA): A Case History, De Beers Canada Mining Inc. Snap Lake Diamond Project  
*G. Fratton, M. Stephen, A. Ehrlich*

## BELUGA

### 35.2 Welcome to IAIA

*Chair: Rita Hamm, IAIA CEO*

This session is for all new or prospective Board members, for anyone interested in participating in IAIA as a Committee member, Section member, or liaison, and for any member who wants to know more about the organization, its history, and how it works.

**Wednesday 28th April  
15.30-17.00**

## FINBACK

### 1.5 Achieving Sustainability

#### Quality and Capacity Considerations in Sustainability Assessment

*Co-Chairs: J. Ashley Nixon, Brenda Kenny*

Partnering to Success: Achieving Optimisation Through Appropriateness  
*Ben Witchalls*

Large Scale and Long Term Impacts: Practical Lessons from Big Projects  
*Conor Skehan*

The EIA Process: A Challenge to Decision Making Engineers  
*Luis E. Montañez-Cartaxo*

Rounding Up the Usual Suspects: Identifying Common Deficiencies in EIAs  
*Richard Grassetti*

The Didactics of EIA  
*Stina Lundström, Inger Olausson*

## ORCA

### 2.4 Impact Assessment of International Trade

#### Public Consultation, Corporate Responsibility and Technical Analysis in Impact Assessments of Trade

*Chair: William Kennedy*

Objective: The session will explore the relationships between public consultation, corporate responsibility and technical analysis in impact assessments of international trade agreements, national trade policy and corporate trade policy.  
*Presenters/discussants:*

Stella Bastida, (Consultant, Canadian Institute for Environmental Law and Policy (CIELAP)) to comment on the role of public participation in the impact assessment of trade process.

Colin Kirkpatrick (Professor of Development Economics, Institute for Development Policy and Management, University of Manchester) to comment on technical aspects of the assessment process.

Hernan Blanco (Researcher, Research and Resources for Sustainable Development, Chile) to comment on the role of NGOs in facilitating a balance between the need for public participation and technical analysis in the impact assessment of trade.

An industry representative to comment on the role of the private sector in the impact assessment of trade policy (to be confirmed).

## PORT McNEILL

### 3.6 Impact Assessment and the Oil and Gas Industry

#### Advances in Impact Assessment Process II

*Chair: Kathy Preston*

*Sponsored by Gartner Lee Limited and RWDI West Inc.*

Fast-Track Environmental Assessment and Permitting in the Rocky Mountain West, USA  
*John Aronson, Bill Fowler*

Cumulative Effects Assessment: Offshore Development Floating Platform  
*Don Sutherland, Kathy Penney*

An Application of the Hydrologic Simulation Program Fortran (HSPF) Model to Two Water Quality Assessments in Large Scale Environmental Impact Assessments in Northeastern Alberta, Canada  
*Andrews Takyi, Ian Mackenzie, Benjamin Kampala*

An Application of the Hydrologic Simulation Program Fortran (HSPF) Model to Two Large Scale Environmental Impact Assessments in Northeastern Alberta, Canada  
*Anil Beersing, Nathan Schmidt, Benjamin Kampala*

## PAVILION D

### 7.4 Electricity and Environmental Assessment

#### Electricity and the Role of Impact Assessment

Chair: Réal Courcelles

Sponsored by Hydro-Québec & Société d'énergie de la Baie James (SEBI)

and SNC-Lavalin Inc., Génivar Inc., Nove Environnement Inc., Tecult Inc., Le Groupe S.M. International Inc., and Dessau-Soprin Inc.

La prise en compte de préoccupations locales dans le cadre d'un projet d'envergure extra-territoriale: exemple du projet de liaison sous-marine entre le Maroc et l'Espagne  
Jean-Luc Guilbault

Effective Social Impact Assessment Must Be Integrated into Environmental Impact Assessment System in Thailand - Lessons Learned from Hin Krut Coal-Fired Thermal Power Plant and Bo Nok Power Plant Projects  
Chandhana Indhapanya

Review of presentation and discussion during the sessions  
Luis E. Montañez-Cartaxo

Synthesis of the Electricity and Impact Assessment Sessions  
Réal Courcelles, Peter Leonard

## JUNIOR B

### 8.5 Biodiversity and Impact Assessment

#### IAIA Principles and Practices Series: Incorporation of Biodiversity Considerations in Impact Assessment

Chair: Helen Byron

Discussion session led by Roel Slootweg to discuss principles and good practice for incorporation of biodiversity in impact assessment which will subsequently be developed into a publication for the IAIA Principles and Practice Series.

## GULF ISLANDS BC

### 10.3 Capacity Building: Follow-up on the Marrakech Declaration

Co-Chairs: Jean-Roger Mercier, Jaafar Boulejouch, Peter Leonard

Discussion of papers and development of the Marrakech Action Plan

## JUNIOR CD

### 13.2 Corporate Social Responsibility

#### Corporate Social Responsibility

Chair: Christiane Gagnon

Cultural Heritage? When EIA is Good Business  
Ian Campbell, Arlene Fleming

Corporate Social Responsibility? The Case of Alcan and New Smelter Implementation  
Christiane Gagnon, Marie-France Turcotte

Corporate Social and Environmental Responsibility  
Piotr Mazurkiewicz, Charles Di Leva

## GRANVILLE

### 14.5 Impact Assessment and Decision Making

Co-Chairs: Hans de Bruijn, Wil Thissen

Framework for Analysing Policy Integration  
Mans Nilsson

US Army Corps of Engineers Planning Process, Impact Assessment Considerations, and Influence on Decision Making  
Richard Fristik

Canadian Practice in Scoping of Environmental Assessments  
David Estrin

Using Sound Science to Reach a Common-Sense Solution  
Joanne Harkness

Assessing Opportunities for HIA Implementation  
Lea den Broeder

## PORT ALBERNI

### 19.4 Impact Assessment Follow-up

#### Case Studies and Procedures and Principles

Co-Chairs: Jill Baker, Angus Morrison-Saunders, Jos Arts

Lessons Learned from the Express Pipeline Project: The Perspective from the National Energy Board of Canada  
Lesley Matthews

EA Follow-up in Ghana  
Renee Afoom

Getting It Right the First Time: The Skorpion Zinc Project  
Bryony Walmsley, Michele Kilbourn Louw

Normative Principles for EIA Follow-up: An Evaluation of the NWT Ekati Diamond Mines Project, Canada  
Sarah Macharia, Bram Noble

The Principles of EIA Follow-Up  
Ross Marshall, Jos Arts, Angus Morrison-Saunders

## BURRARD

### 24.8 Health Impact Assessment

#### International HIA Principles and Practices

Chair: Carlos Dora

Rapporteur: Ben Cave

Discussion of the paper "The Values, Practice and Definition of Health Impact Assessment"  
World Health Organization

## PARKSVILLE

### 25.11 Strategic Environmental Assessment

#### Integration and Conclusions

Chair: Thomas Fischer

Applying Strategic Environmental Assessment to Land Use and Resource Management Plans in Scotland and New Zealand: A Comparison of Approaches  
Tony Jackson, Jenny Dixon

Sustainability in the English Regions: Is Integrated Appraisal a Step in the Right Direction?  
Sue Kidd, Thomas B. Fischer

Conclusions

## VANCOUVER

### 29.5 Public Participation

#### Public Participation in Canada II

Chair: Pierre André

Sponsored by Vancouver International Airport Authority

Consultation Publique sur le Développement durable de la Production Porcine au Québec  
Louise Boucher

Stakeholders Participation to EIA and Follow-up: A Source of Empowerment and Development for Local Community or Another Way to Negotiate Project Acceptance?  
Gilles Côté

Multiple Methodologies Achieve Broad Spectrum Stakeholder Involvement  
Richard Roberts

Increasing Citizen Involvement in Sustainability-Centred Environmental Assessment Follow-up  
Carol Hunsberger, Richard Gibson, Susan Wismer

Effective Project-Based Consultation with First Nations  
George Meadows

## JUNIOR A

### 34.3 Impact Assessment and the Mining Industry

#### Impact Assessment and the Mining Industry

Co-Chairs: Luis Sánchez, Susan Ross, Alonso Zarzar

Environmental and Risk Assessment for the Expansion of Eurallumina Red Mud Basin in Sardinia (Italy)  
R. Mezzalama, M. Fiore, V. Rosino

From Minimal Damage to Net Contribution: Mining's Seven Questions to Sustainability  
R.A. Hodge, I. Thomson

Monitoring of the Social and Environmental Impacts of the Raglan Nickel Mine Project in Northern Quebec (Nunavik), Canada  
R. Lanari, K. Harris-Lowe

Clarifying the Scope and Meaning of Integration, Impact Assessment and Sustainability Assessment  
T. Hacking

Preparing for a Sustainable Mining Development: The Case of Mauritania  
Y. Le Beau, K. Tabakh

- A Comparative Analysis of the Environmental Impact Assessment Processes of Selected Bilateral and Multilateral Donor Agencies  
*Michael Gullo*
- EIA Follow-up: A Case of the Indian Open Cast Coal Mines  
*Urmila Jha (Thakur)*
- Integrated and Transparent Environmental Impact Assessment in Nunavut  
*Peter Wilson*
- Social Impact Assessment in Development Decisions  
*Rabel Burdge*
- Examining the Link Between EMSs and Environmental Performance: A Case Study of Riding Mountain National Park, Canada  
*Jackie Bronson, Bram Noble*
- A Quality and Effectiveness Review Protocol for Strategic Environmental Assessment (SEA) Practice in South Africa  
*Francois Retief, Carys Jones, Stephen Jay, Luke Sandham*
- Getting to Grips with SEA Good Practice -- Selected Experience with Methods and Procedure  
*Kiichiro Hayashi, Barry Sadler, Paul Tomlinson, Rob Verheem, Jiri Dusik*
- Comparative Study on the EIA Between the Republic of Korea and China—In Case of Golf Courses  
*Young Han Kwon, Jaeyong Choi, Ick Cheol Jeong*
- Application of Groundwater Resources Investigation to Environmental Impact Assessment in Korea: Case Study on Tunnel and Landfill Construction Site  
*Jeongho Lee, Young Min Park, Young-Joon Lee, Hyun-Woo Lee, Chang-Sung Park*
- Assessment of NOx Concentration Changes at Kimpo Airport Using EDMS  
*Young-Kee Jang, Jung-Sik Cho, Ji-Hyung Hong*
- Environmental Assessment System for Housing Complex Development in Korea  
*Young Soo Lee, Young Min Park, Chang Suk Park, Wan Soo Kim, Jae Wook Kang, Jong Chun Park*
- EIA: Industry and Energy Developments in Iceland  
*Hólmfríður Sigurdardóttir, Sigurdur Ásbjörnsson*
- Impact and Benefit Agreements: Do the Ross River Dena Benefit from Mineral Projects?  
*Doris Dreyer*
- Regional Landsat Vegetation Mapping of the Oil Sands Region of Alberta, Canada  
*Austin Adams, Ian Gilchrist, Justin McPherson, Brian D.J. Wilson*
- The Role of Environmental Assessment in Project Planning, Design and Construction: Terasen's Fraser River Crossing Pipeline Replacement Project  
*Don Gamble, Christy Jones, Darren Brown*
- Toward an Interdisciplinary Assessment of Policies  
*Kirsten Oleson*
- EIA and the Antarctic Tourism Industry  
*Dianne Gee*
- Interactions Among Hydrologic Factors and Domestic and Urbanization Activities in the Patzcuaro Watershed, Mexico  
*Eduardo Rodríguez Trejo, Edmundo Ducoing Chaho, Patricia Ramírez Romero*
- The Use of the Environmental Breach for the Evaluation of Cumulative and Residual Impacts of the Oil Industry Activities in Mexico  
*Edmundo Ducoing Chaho, Beatriz Silva Torres, Patricia Ramírez Romero, Miguel Castillo González*
- The Environmental Breach: A Tool for the Evaluation of Cumulative and Residual Environmental Impacts  
*Edmundo Ducoing Chaho, Beatriz Silva Torres, Patricia Ramírez Romero, Miguel Castillo*
- Techniques for Efficient Implementation of Public Participation in Environmental Assessment  
*Monica Norejko*
- When Half a Metre Really Matters: Damming the Nile in Upper Egypt  
*James Ramsay*
- Defining Significance When Managing Environmental Impacts: A Case Study of the British Ministry of Defence  
*Wendy Benson, Graham Wood, Anne Miller*
- The Utilization of Geothermal Energy and Nature Conservation in Iceland  
*Olafur Arnason*
- Energy Intensive Industry and Electricity Production in Iceland -- Effects on Nature and Tourism  
*Sigurros Fridriksdottir*
- Outcomes of and Lessons Learned at the Information Session on Regional and Strategic EA  
*Friederike Kirstein, Barry Jeffrey*
- Health and Sustainability: Examining the Power of Health Impact Assessments Within Environmental Impact Statements  
*Kathryn E. Higgins*
- Environmental Assessment During Route Selection for Transmission Lines in Mexico  
*Fidencio León-Burgos, Francisco Hernández-Álvarez, Guillermo Zúñiga-Gutiérrez*
- An Impact Assessment: The Effects of Treated Mine Waste Water on Forest Invertebrates  
*Douglas Davidge, Nathalie Lowry, Benoit Godin*
- Preparing for a Sustainable Mining Development: The Case of Mauritania  
*Yolaine le Beau, Khattar ould Tabkh*
- Planning Strategies: Future Sustainable Interactions between Environment and a Hydroelectric Project  
*Francisco Hernandez-Alvarez, Carlos Lecanda-Teran, Guillermo Zuniga-Gutierrez, Irma Rosas-Perez, Sofia Lopez-Olalde, Omar Rojas-Garcia*
- Looking Beyond the EIA  
*Mark Wen*
- The Design Manual for Road and Bridges: Modernising EA  
*Dean Kerwick-Chrisp, Amanda Chisholm*
- Promoting Sustainable Infrastructure Development in Canada: An Emerging Program Framework for Environmental Sustainability at Infrastructure Canada  
*Keith Grady*
- Environmental Factors Analysis for EIA Associated to a Hydroelectric Project: From Qualitative to Quantitative  
*Francisco Hernandez-Alvarez, Guillermo Zuniga-Gutierrez, Carlos Lecanda-Teran, Irma Pérez-Rosas, Christina Siebe-Grabach, Omar Rojas-Garcia, Sofia Lopez-Olalde*
- The Role of Environmental Assessment and Public Participation in Infrastructure Projects: The City of Prince George's Hart Water Supply Improvements Project  
*Don Gamble, Nick Sargeant, Nancy Elliott, Duncan Hendricks, Clinton Coates, Christy Jones*
- Assessing Thermal Impacts from Steam Electric Power Plants  
*Stephen Friant, David Bachler, Denise Molzahn*
- Power Intensive Industry in Iceland: History and EIA Approach  
*Haukur Einarsson, Rúnar D. Bjarnason, et al.*
- Sustainability Appraisal of District Plans in Ghana  
*Peter Nelson, C. Azare, E. Sampong, B. Yeboah, E. Darko-Mensah*
- Quantifying Health Impact Assessment - ARMADA Model  
*Mark McCarthy*
- At the Tip of Your Fingers: SEFA, an International Exposure for Environmental Follow-Up Studies  
*Laurie Lavallée*
- Health and Environment in Policy and Planning Processes in The Netherlands  
*Anouk Fermont, Sally Innanen, Dorine Kolkman, Edy Blom*
- Enhancing Strategic Environmental Assessment in the South African Water Industry with the Use of Geographic Information Systems and Geostatistical Techniques  
*Ilse Steyl, Michael J. Clark*
- Scoping in Shell Petroleum Company (SPDC): The Experience with the Major Trunk Line Replacement Project  
*Oritsetimeyin J. Dada, Akuro Adoki, Napoleon O. Umesì*
- BioScene: Scenarios for Reconciling Biodiversity Conservation with Declining Agricultural Use in the Mountains of Europe  
*William Sheate, Maria Rosário Partidario, Helen Byron, Olivia Bina*
- A Review Package for Assessing the Quality of EIRs in South Africa  
*Luke Sandham, Helen Pretorius, Andries van der Walt*
- Major Projects and Cumulative Impact: The Emerging Legacy of Development in Nunavut  
*Janice Traynor, Julian Lim, Robyn Abernathy-Gillis, Peter Schotz*

## Notes



## Definition of terms

**Annual Meeting:** 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.

**Conference:** The core of the annual meeting; typically 3-4 days devoted to plenaries, concurrent sessions, and IAIA business.

**Stream:** A number of sessions on the same topic.

**Session:** A block of time during which presentations are made on a single topic.

**Paper Presentation:** The oral summary of a paper within a session. Typically paper presenters have about 15 minutes of presentation time, including time for Q&A.

**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.

**Workshop:** The topic is specific and active discussion seeks to resolve a defined problem. May be a combination of paper presentations and discussion.

**Panel:** Invited speakers present different views or experiences on a topic, typically followed by an informal discussion between the speakers and questions from the audience.

## How to get the most from this conference

**Make a goal sheet.** Why did you decide to register for this program? What is it you expect to gain? Take a moment right now 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 has a specific area of expertise; find out what it is instead of chatting about the weather. Remember the goal sheet in point 1? Let us suggest that one of your goals be to meet at least one person 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 gymnasium" 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.

**Find the "big idea."** Try to identify at least one "big idea" that will make this program worthwhile. The idea will be there ... it's up to you to find it.

**Make a commitment to review your notes.** Right now, take out your calendar and make a one-hour appointment with yourself to "retake" the program. Don't put your good ideas away with your notes. And consider doing it each evening while your ideas and enthusiasm are fresh.

**Don't call the office/don't check the e-mail.** There will always be a problem that "only you can handle," and in most cases it *can* wait.

**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 — 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 and you'll leave refreshed, inspired and recharged. Forget about what's happening at the office — unless you have unusual telepathic powers, you can't do much about it anyway. This is your conference. Get all you can out of it and have a good time.

## 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 authority 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.*

## Program and Presenters

### Conference papers and proceedings

The abstract volume is included in the delegate packets and is posted on the IAIA web site. IAIA'04 organizers will be publishing conference proceedings on a CD-Rom following the conference.

Presenters who wish to publish their papers and/or PowerPoint presentations must provide the files electronically before the end of the conference. Files may be uploaded via FTP prior to the conference (see the IAIA web site for instructions) or may be left with program committee staff in the Bluewhale Room during the conference (until 14.00 on 29 April).

### 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, prepare presentations, etc. As a courtesy to others in the session, presenters and other attendees are requested to attend all papers in the session.

### Poster presenters

Poster panels are set up and assigned to each poster presenter in the Foyer, Third Level, North Tower adjacent to the registration area. Posters may be set up on Sunday, 25 April, between 13.30 and 17.00. You are responsible for providing any materials needed to put your poster in place. Posters are to be taken down between 17.00 and 19.00 on Wednesday, 28 April. IAIA, the conference organizers and the Sheraton are not responsible for materials left after 19.00 28 April. The poster session is scheduled for Tuesday, 27 April 17.00–18.30.

### Business services

All delegates and attendees are responsible for providing their own materials. IAIA does not provide copying, fax, printing, phone, computer, or secretarial services. These services are available from the Sheraton. Please contact the Front Desk in the South Tower.

### Participant's list

A list of pre-registered participants is provided in the delegate packets.

### Book Share

Check out the book share table! Donate a new or recycled book, or take a book if you find one that might not be readily available back home.

### Presentation equipment

Laptop computers and PowerPoint projectors are provided in each concurrent session room. Presenters are responsible for arranging and paying for any other equipment needed for their presentations. Please contact the Sheraton's Front Desk in the South Tower.

**Special thanks to these organizations for the loan of laptop computers and projectors for use by presenters in concurrent sessions:**

- BC Environmental Assessment Office
- BC Hydro
- Canadian Environmental Assessment Office
- Capilano College
- Environment Canada
- ESSA Technologies Ltd.
- Hemmera Envirochem
- Public Works and Government Services Canada
- Transport Canada
- University of Calgary
- Vancouver International Airport Authority

### Booths

Booths may be set up in the Pavilion AB Ballroom on Sunday, 25 April between 13.30 and 17.00. They must be dismantled between 17.00 and 19.00 on Wednesday 28 April. IAIA, the conference organizers and the Sheraton are not responsible for materials left after 19.00 28 April.

### Display table

A table is provided in the Grand Ballroom Foyer 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 exchange of information. No commercial (sales) materials are permitted. IAIA, the conference organizers, and the Sheraton are not responsible for items displayed or left after 18.00 on Wednesday, 28 April.

### Tour desk

Pacific Spirit Tours is the official tour provider for IAIA'04. They offer a variety of daily sightseeing tours, multi-day packages, outdoor adventure activities, and group tours. A Pacific Spirit Tours representative will be onsite to take reservations, or call them at 604.683.0209 or 604.710.2107.

## Special events

### 'Round the World Raffle

This year's raffle will take place during the conference dinner and party on Wednesday, 28 April. Raffle items will be on display in the Grand Ballroom. Donors can bring their items to the Grand Ballroom during lunch on Wednesday and place them next to the identifying card. You may purchase tickets during the dinner and party. To "bid" on an item, drop half of your ticket into the container beside the item and keep the other half. Drawings will begin in the latter part of the evening. If the number called for that item matches a ticket number you have, you can claim your prize. You must be present to win! A portion of the proceeds will be donated to Conifer Challenge.

### Conifer Challenge

Can we make IAIA'04 a carbon-neutral event? With your participation in the Conifer Challenge we hope to offset conference-related carbon dioxide emissions. Your contribution will go towards buying and planting Douglas Fir trees at the University of British Columbia's Malcolm Knapp Research Forest. The Conifer Challenge booth is located in Pavilion AB with the Government of Canada exhibits.

## Special events

### Second Annual Impact Fun Run Tuesday, 27 April 6.15

Vancouver continues the tradition started in Marrakech of a 5 km Fun Run. The run will start about 4 blocks from the Sheraton and follows along picturesque English Bay and into Stanley Park. Detailed information on the route will be provided at the IAIA'04 registration desk. There is no entry fee; however, participants are asked to sign up in advance at the IAIA'04 registration desk.

### Dine-Out Vancouver Tuesday, 27 April 18.30

If you want a little help exploring Vancouver or you want to join with others for dinner, this event is for you. Local Vancouver hosts will be available to lead small groups to various restaurants in the city. Participants pay their own way and everyone has a good time. At the end of the evening, a rendez-vous is planned for a micro-brew pub. Sign-up sheets will be available from Monday afternoon onwards at the registration area.

## Registration Information

### 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 or student registration fee.

Full and student registration fees entitle delegates to attendance at all sessions, coffee breaks, lunches on Monday, Tuesday and Wednesday, opening reception, conference dinner, participants list, delegate packet, abstracts volume, conference proceedings and special events, unless an additional fee is noted.

### Payment and refund policies

Fees are accepted by check or money order made payable to **IAIA** in Canadian dollars drawn on a Canadian bank, or U.S. dollars drawn on a U.S. bank. MasterCard and Visa are also accepted. No registration will be processed without payment unless arrangements were made with IAIA HQ by 9 April. Registration confirmations and receipts are issued by mail. Official receipts for on-site registrations will be issued by mail after the conference.

IAIA refunds registration fees upon written request received before 1 March 2004. A US\$50 processing fee is retained. After 1 March, no refunds are issued for cancellations or no-shows. Substitutions may be made in writing without penalty. Refunds will be issued after the conference.

### 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.

### "Quickpass to the Fastlane"

New in 2004! All conference participants whose registration and fees were received by 12 March 2004 were mailed a "Quickpass." Show this Quickpass at registration for express check-in!

## IAIA Business

### Committees and Sections

Much of IAIA's progress takes place through the activities of Committees and Sections. The Committee meetings will follow the AGM in the Grand Ballroom. Sections are invited to join any Section discussion. The Section Meetings will be on Wednesday, 28 April, starting at 17.00. See the daily schedule for locations.

### Council meeting

**Thursday, 29 April 14.00 to 16.00**  
**Junior D Ballroom**

The IAIA Council is distinct from but includes the Board of Directors. It is an advisory resource to the Board. Members are comprised of the Board, Committee chairs, Section chairs, representatives of Affiliates and Branches, and Headquarters representatives. All IAIA members are welcome to attend the Council meeting.

### Annual General Meeting (AGM)

All IAIA members are encouraged to participate in the IAIA Annual General Meeting, Monday, 26 April, at 17.00 in the Grand Ballroom.

### AGM Agenda

### Notes

1. Welcome and introduction of current Officers, Directors, Council members
2. Review of agenda and approval of 2003 AGM minutes
3. Announcement of election results with introduction of new Officers and Directors.
4. President: progress to date and future directions.
5. Secretary: summary of major activities for the past year.
6. Treasurer: financial statement.
7. Committee reports as requested.
8. Reports of Section Chairs as requested.
9. Branch reports as requested.
10. Open discussion on matters raised by members.
11. Close of the meeting.

## Sponsors

*IAIA and the Canadian Affiliates gratefully acknowledge these companies and organizations for their financial and in-kind support of IAIA'04*

### Earth Sponsor

Government of Canada



Government  
of Canada

Gouvernement  
du Canada

**Canada**

### Continent Sponsor

Golder Associates Ltd.



### Island Sponsors

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University of Calgary



Gartner Lee Limited



Gartner Lee Limited

Hydro-Québec



International Finance Corporation



RWDI West Inc.



Société d'énergie de la Baie James  
(SEBJ)



Vancouver International Airport  
Authority



### Reef Sponsors

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Pottinger Gaherty Environmental  
Consultants Ltd.

The Praxis Group  
Saskatchewan Environmental  
Assessment Branch  
SEACOR Environmental Inc.  
SNC-Lavalin Inc.  
Tecsult Inc.  
USAID



## PROGRAM

	Very good	Good	Neutral	Poor	Very poor	Not applicable
1a. Overall program	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1b. Scope/appropriateness of conference theme	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1c. Development of conference theme	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1d. Plenaries	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1e. Theme Forums	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1f. Concurrent sessions and sessions	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1g. Presented papers	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1h. Practitioners' Forum	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1i. Pre-conference training courses	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1j. Technical visits	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1k. Poster session	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1l. 'Round the World Raffle	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1m. Social event - Fun Run	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
1n. Social event - Dine Out	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

10. What themes or topics would you like to see addressed at future conferences? .....

1p. Suggestions for plenary session topics at IAIA'05: .....

1q. Suggestions for training courses at IAIA'05 and beyond: .....

## TIME ALLOCATION: FUTURE CONFERENCES

	More	Same	Less/Fewer		More	Same	Less/Fewer
2a. Entire conference	[ ]	[ ]	[ ]	2f. Training courses	[ ]	[ ]	[ ]
2b. Plenaries	[ ]	[ ]	[ ]	2g. Pre-Conference technical visits	[ ]	[ ]	[ ]
2c. Theme Forums	[ ]	[ ]	[ ]	2h. Post-Conference technical visits	[ ]	[ ]	[ ]
2d. Concurrent sessions	[ ]	[ ]	[ ]	2i. Social events	[ ]	[ ]	[ ]
2e. Poster session	[ ]	[ ]	[ ]				

## VENUE

	Very good	Good	Neutral	Poor	Very poor	Not applicable
3a. Conference venue in general	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
3b. Meeting rooms	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
3c. Coffee breaks	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
3d. Opening reception	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
3e. Conference dinner	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
3f. Sleeping rooms	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

## PROMOTION

4a. How did you learn about IAIA'04?

- ☐ IAIA Call for papers      ☐ Friend/colleague  
☐ IAIA Web site      ☐ Internet (other than IAIA Web site) Search key word or site: .....  
☐ IAIA E-News      ☐ Listserv (other than IAIA listserv): .....  
☐ Other: .....

4b. Was promotion of IAIA'04 adequate and timely? ☐ Yes ☐ No-suggestions? .....

## ABSTRACT SUBMISSION

5a. IAIA offered online abstract submission for the first time in 2004. Did you use the online submission form?

- [ ] No Why not? .....
- [ ] Yes What did you like about the online submission? .....
- What can we improve? .....

## REGISTRATION

6a. IAIA offered online conference registration for the first time in 2004. Did you use the online registration form?

[ ] No Why not? .....  
Skip to 6b.

[ ] Yes What did you like about the online service? .....

What can we improve? .....

6b. Was the printed IAIA'04 registration form clear and understandable?

☐ Yes      ☐ No. Suggestions, please: .....

	Very good	Good	Neutral	Poor	Very poor	Not applicable
6c. Content of preliminary program	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
6d. Headquarters staff helpfulness before meeting	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
6e. Program/Local Committee helpfulness before meeting	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
6f. Staff/Committee/volunteer helpfulness during meeting	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
6g. Efficiency of registration process	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
6h. Helpfulness of "Quickpass"	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
6i. Delegate packet	[ ]	[ ]	[ ]	[ ]	[ ]	
6j. Final program	[ ]	[ ]	[ ]	[ ]	[ ]	
6k. Value of conference for registration rate	[ ]	[ ]	[ ]	[ ]	[ ]	
If a one-day rate were offered in future, would you use it?	[ ] Likely	[ ] Not likely				
	Why or why not? .....					

61. IAIA offered an online "Find a Roommate" page for the first time in 2004. Did you use this service?

☐ No Why not? .....

[ ] Yes What can we improve? .....

## PARTICIPATION

Have the following components of IAIA'04 provided you with adequate opportunity for input into the overall operation of IAIA?

	Yes	Somewhat	No	Not applicable
7a. Committee meetings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7b. Section meetings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7c. Council meeting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7d. Annual General Meeting (AGM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7e. Face-to-face feedback	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7f. Welcome to IAIA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## COMMENTS

[illegible]

Thank you! Your input helps to improve the format and content of future meetings.

Please leave this form in the box provided at the registration area, or return to IAIA Headquarters, 1330 23rd Street South, Suite C, Fargo, ND 58103 USA. Fax +1.701.297.7917

## GENERAL

8a. How many IAIA annual conferences have you attended in the past?

8b. How likely is it that you would attend a meeting in the following locations?	Very likely	Somewhat likely	Not likely
Africa	[ ]	[ ]	[ ]
Asia	[ ]	[ ]	[ ]
Australia	[ ]	[ ]	[ ]
Europe	[ ]	[ ]	[ ]
North America	[ ]	[ ]	[ ]
South America	[ ]	[ ]	[ ]

Other or specific location: .....

8c. What factors determine whether you attend an IAIA conference?  
Please rank 1-7 with 1 = most important

☐ Theme      ☐ Location      ☐ Availability of funding  
☐ Networking opportunities      ☐ Date of conference  
☐ Active participation (i.e., present paper/poster, chair a session, etc.)  
 Other: .....

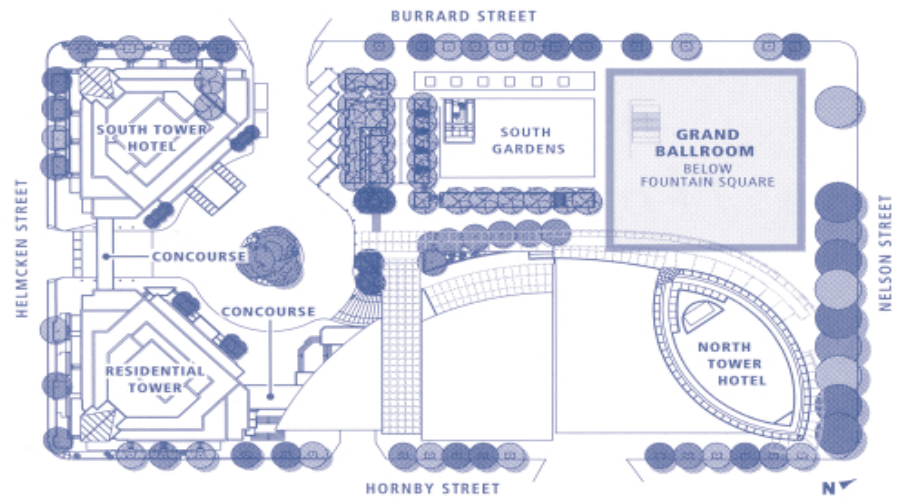
8d. Preferred maximum sleeping room rate: US\$ \_\_\_\_\_

8e. Sector    ☐ Industry                    ☐ Education  
                  ☐ Government                ☐ NGO  
                  ☐ Private consultant       ☐ World/regional bank  
                  ☐ Donor agency            ☐ Other: .....

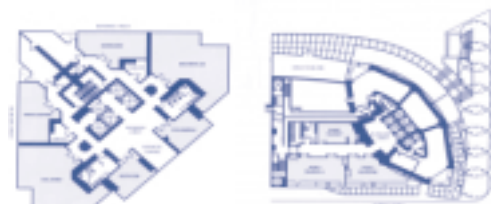
8f. Country:.....



Downtown Vancouver  
(S) Sheraton  
(R) Opening Reception  
(Corner of Hornby and Nelson Streets)



Sheraton Vancouver Wall Centre Hotel  
Meeting Room Locations

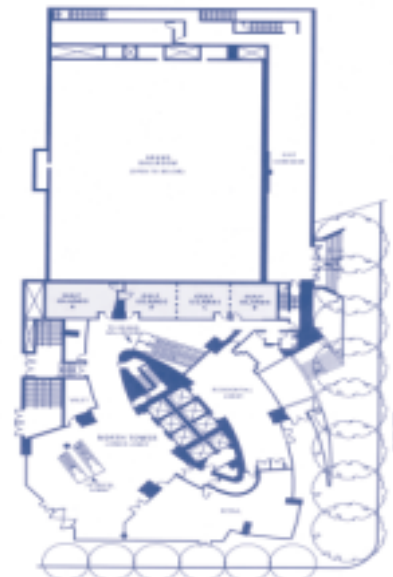


Level Four  
South Tower

Level Four  
North Tower



Grand Ballroom Level  
North Tower



Lower Lobby Level  
North Tower



Level Three  
South and North Towers



## IAIA'04 at-a-Glance



Hosted by the  
Canadian Affiliates of IAIA



Saturday 24 April	
Training Courses	All Day
World Bank Group Day	All Day
Technical Visit	Afternoon

Sunday 25 April	
Training Courses	All Day
Technical Visits	All Day
Opening Reception	Evening

Monday 26 April	
Opening Plenary	Morning
Concurrent Sessions	Afternoon
AGM, Committee Meetings, Practitioners Forum	Late Afternoon

Tuesday 27 April	
Theme Forums	Morning
Concurrent Sessions	Afternoon
Practitioners Forum, Poster Session	Late Afternoon

Wednesday 28 April	
Theme Forums	Morning
Concurrent Sessions	All Day
Practitioners Forum, Section Meetings	Late Afternoon
Banquet	Evening

Thursday 29 April	
Awards and Closing Plenary	Morning
IAIA Council Meeting	Afternoon

Friday 30 April	
Technical Visits	All Day



International Association  
for Impact Assessment

International Headquarters (HQ)  
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info@iaia.org  
www.iaia.org

### 2005 IAIA Special Activities

IAIA'05 Annual Conference Event: 31 May - 3 June  
Ethics & Quality in Impact Assessment  
Boston-Cambridge, USA

IAIA SEA Conference: 27-29 September  
Prague, Czech Republic

