

# Power, poverty and sustainability

## The role of impact assessment

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26th Annual Conference

International Association for Impact Assessment

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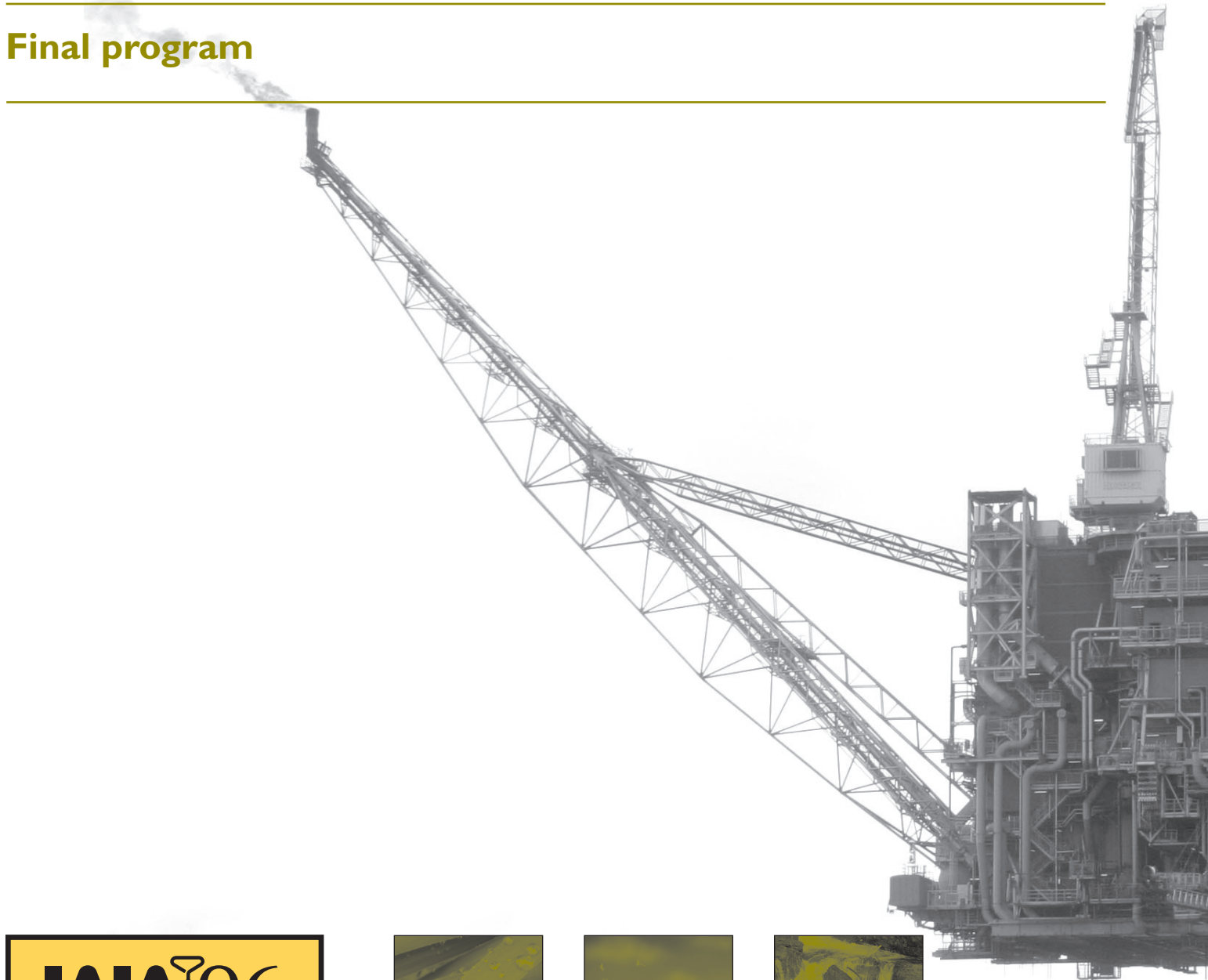
23 - 26 May 2006

Stavanger Forum • Stavanger, Norway

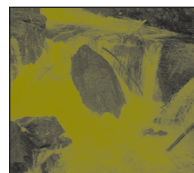
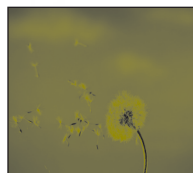
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### Final program

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**IAIA06**  
STAVANGER NORWAY





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### Saturday, 20 May

CLEAA Day, CBBIA	..... All Day
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### Sunday, 21 May

Training courses	..... All Day
Technical visit	..... Evening

### Monday, 22 May

Training courses	..... All Day
World Bank Group Day	..... All Day
HIA/SIA Workshop	..... All Day
Nordic IA Day	..... All Day
Opening Reception	..... Evening

### Tuesday, 23 May

Plenary, Theme Forums, Concurrent Sessions	..... All Day
Committee Meeting	..... Morning
Boat trip and dinner	..... Evening

### Wednesday, 24 May

Theme Forums, AGM, Concurrent Sessions	..... All Day
Practitioners' Forums, Section Meetings	..... Afternoon
Technical visit	..... Evening

### Thursday, 25 May

Theme Forums, Concurrent Sessions	..... All Day
Committee Meetings	..... Morning
Poster Session	..... Afternoon
Practitioners' Forums	..... Afternoon
Banquet	..... Evening

### Friday, 26 May

Awards Ceremony, Closing Plenary	..... Morning
Committee Meeting	..... Morning
Council Meeting, Technical Visits	..... Afternoon

### Saturday-Sunday, 27-28 May

Technical Visits	..... All Day
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## Conference Venue

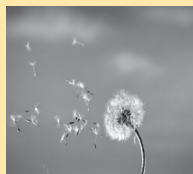
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# Welcome to IAIA06



WITH SUPPORT FROM STATOIL



## Welcome to IAIA06!

The host of this year's Annual Meeting of IAIA, The Ministry of the Environment of Norway, warmly welcomes you to Stavanger, Norway!

Impact assessment has a strong position in the Nordic countries, but relatively few IAIA members. At this first IAIA annual conference in the region, we have tried to choose and integrate themes of particular interest to the Nordic audience – while at the same time follow up on previous issues and standing themes of IAIA.

The program for the conference is substantial and interesting. Prominent speakers will deal with the issues of “Power, poverty and sustainability: The role of impact assessment” at the opening and closing plenaries. At the 16 theme forum sessions, experts from various fields will guide us into the substance of the topics, while about 430 submitted papers will provide the basis for in-depth presentations and discussions at 109 concurrent sessions. Around 60 posters will present the topics in a visually engaging form.

We are pleased to note a large and broad participation. One month prior to the start of the conference, more than 600 participants, from 84 countries, had registered. We trust you will all have a good time in Stavanger!

As hosts to the meeting, it has been a pleasure to be part of organizing it. It would not have been possible, however, without the enthusiastic support of the IAIA secretariat and network, in particular the Sections coordinators and chairs, as well as the many Norwegian, Nordic and international partners and sponsors. We'd like to thank them all!

### **Harald Rensvik**

*Secretary General*

*Royal Norwegian Ministry of the Environment*

## Welcome to Stavanger, Norway, to participate in the 26th annual conference of IAIA

We are very pleased to be in Stavanger, as this is our first conference in Norway. It is a place with a history and a future. It represents the production and the consumption of energy. It also represents the south for the people living in the Arctic and the north for virtually everyone else.

I wish to acknowledge all our Norwegian friends who have worked very hard to create a conference with a very interesting and varied programme. In particular I wish to thank the Ministry of Environment who have supported IAIA throughout in realising what will, with your participation, be one of IAIA's most memorable conferences.

Our main conference themes represent a variety of angles to the overarching area of Impact Assessment. If this is your first conference, I am sure you will find a lot of interesting material presented to you in the form of presentations and posters as well as the opportunity to engage in the debate with fellow participants. Our long-standing members know that our annual conference is a meeting place where we can share experiences and learn from each other and above all renew friendships with representatives from all over the world and with many different cultural and professional backgrounds.

This year's conference introduces new themes while at the same time continues to build on previous themes, and thus taking the contribution of the impact assessment process towards Sustainable Development another step forward. We are challenged to reflect on power and poverty within a Nordic and global context and discuss these themes within Theme Forums and concurrent sessions. The real challenge will be how to integrate the various expertise fields in support of amongst others the developers, decision-makers and the public and continue to focus on ethics and quality and capacity building.

Please join me in a rewarding and enjoyable stay in Norway.

### **William Veerkamp**

*President*

*International Association for Impact Assessment*



# Special Events

## Capacity Linkages for Environmental Assessment in Africa (CLEAA) Network Day

CLEAA is an umbrella-type support organization for a number of African member networks or nodes seeking to strengthen the use of impact assessment in Africa through awareness building, capacity building and technical backstopping. This one-day annual CLEAA meeting is open to all, and the agenda for the meeting is to hear about progress made by the different sub-regional networks under CLEAA, as well as to discuss and agree on action plans for the coming years.

**Saturday, 20 May**

**09:00–17:00**

**Pre-registration by 10 May required.**

## World Bank Group Day

This seminar builds on the excellent exchanges of previous years, and the World Bank Group Day in Stavanger brings participants up to date on initiatives presented in 2004 and/or 2005. This includes the outcome of the IFC's safeguards updating process, an update of the World Bank's Use of the Country Systems Pilot Program, and shares the first year's experience of the Revised World Bank Policy on Indigenous Peoples. This in particular focuses on the free, prior and informed consultation features of the policy. The seminar includes an opportunity for discussion of these policies' application in World Bank Group supported projects.

**Monday, 22 May**

**09:00–16:00**

**Pre-registration by 10 May required.**

*Joint HIA-SIA Workshop*

## Integration: Theory to Practice

Participants in this workshop experience working jointly on an impact assessment starting from different approaches. This will result in a set of recommendations to be presented in a theme forum. The recommendations will concern matters of content as well as procedural aspects. The workshop is meant to provide input for further development of integrated impact assessment, as well as for future cooperative activities, including draft terms of reference for a joint project extending over the coming year.

**Monday, 22 May**

**09:00–17:00**

**Pre-registration by 10 May required.**

## Nordic IA Day

This day provides an opportunity for the Nordic participants, and others interested in the Nordic countries, to meet and exchange information and learn about the main events in respective countries, and carrying on from the tradition of the Nordic EIA/SEA conferences held every other year since 1988.

The program includes invited speakers to present "outside" views on IA assessment in a Nordic context, and a number of common Nordic themes. The recently-completed and ongoing cases under the overall topic "Effectiveness and quality of IA in the Nordic countries" will be presented. Special focus is on the practical aspects of the application of IA. Ample time will be set aside for discussions.

**Monday, 22 May**

**10:00–17:00**

**Pre-registration by 10 May required.**

## Technical visits

See page 33 for descriptions of IAIA06 technical visits. Registrations will continue to be taken until visits reach capacity.

## Practitioners' Forums

IAIA conferences provide space for impromptu discussions in unanticipated/unscheduled areas of interest or to carry over discussions begun in concurrent sessions. Flip charts are provided in the Lobby area. In the morning, write in your proposed topic or sign up for a topic of interest to you. In the afternoon, topics are chosen and the locations are added to the flip chart. Groups then meet in those locations to hold discussion. The informality and spontaneity guarantee a lively end to the day's sessions.

## Welcome to IAIA

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

**Wednesday 24 May**

**18:00–19:00**

## Social activities

### Opening reception

The City of Stavanger welcomes delegates to IAIA06 with a reception. Bjørg Tysdal Moe, Deputy Mayor of Stavanger, is our host.

**Monday, 22 May**

**18:00–20:00**

**Rogaland Museum of Art, Henrik Ibsen's Gate (adjacent to Stavanger Forum)**

### Boat trip and dinner

Statkraft, the state-owned energy company, hosts an unforgettable evening of dinner and music.

Pre-registration is required. Space is limited.

**Tuesday, 23 May**

**18:00-late**

**Meet at Stavanger Forum or Harbour.**

### Dine Out Stavanger

Hosts will lead small groups to various restaurants in the Stavanger area. Restaurants featuring local specialties and special emphasis on sustainable dining are offered. Participants pay their own way. Sign-up sheets are posted on the message board in the Lobby.

**Wednesday, 24 May**

**19:30 onward**

### Fun Run

This popular 5 km sporting event is now in its fourth year.

Pre-registration is requested and a US\$5 fee will be collected on-site to cover organization and prizes. A great way to start the day and network with fellow runners!

Sign up or check for information on the message board in the Lobby area.

**Thursday, 25 May**

**06:30**

### Banquet

Celebrate the end of a busy week with old and new colleagues. Sponsored by Statoil.

**Thursday, 25 May**

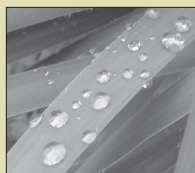
**19:30**

**Hall Toll Restaurant at Skansegt. 2, Stavanger Harbour (Vågen)**



# Power, Poverty and Sustainability

## The Role of Impact Assessment



As co-chairs of the Program Committee, we are pleased to see that the themes and topics proposed in the preliminary program have caught on among the IAIA audience and yielded a big response in the form of papers and posters, and many registrations at training courses, technical visits and social and other events.

As set out in the preliminary program, the technical program focuses on the application of the various instruments of impact assessment in relation to energy, climate change, land use planning and coastal zone management, biodiversity, indigenous peoples and circumpolar issues. It also emphasises the increasingly important issues of the application of impact assessment in developing countries and development co-operation, not least the challenges to the IA community of poverty eradication work and achievement of the Millennium Development Goals. The topics of the standing special-interest Sections of IAIA are also well represented.

In the program, a balance between the topics of the North and the topics of the South has been sought. For instance, at the Circumpolar Day the above mentioned topics are brought together and debated in the context of the circumpolar North (and also Antarctica), and Russian-English translation is provided to enhance participation from the Russian-speaking world. Looking South, the new OECD DAC Guidance on Strategic Impact Assessment will be launched at the conference. This guidance is expected to play a major role in development co-operation efforts in the years to come.

IAIA06 is thus a multi-faceted conference that gives you the opportunity to compose your own conference-within-the-conference, by choosing theme elements to suit your professional needs and interests. The technical program this year is organized according to topical streams, thus making it easy to find your way to your favourite topics.

The conference takes place in an exciting and dynamic region, rich in history and culture. We trust you will take the opportunity to acquaint yourself with Stavanger and its surroundings by joining some of the social events and technical visits or enjoying an activity on the accompanying persons program.

It is the Program Committee's wish that you take full advantage of all the exciting opportunities this conference has to offer, and we hope that as you leave you will take with you a better understanding of the role of impact assessment in our world today, as well as great memories from Stavanger and the Nordic region.

**Terje Lind and Arne Dalfelt**

*Co-chairs of the IAIA06 Program Committee*



# Keynote Speakers

## Welcome addresses

**Björg Tysdal Moe**, *Deputy Mayor of Stavanger*

**William Veerkamp**, *President of IAIA*

## Keynote speakers

**Helen Bjørnøy**, *Minister of Environment, Norway*

**Helge Lund**, *President of Statoil, Norway*

**Robert T. Watson**, *Chief Scientist, World Bank*

**Hesphina Rukato**, *Deputy Chief Executive, NEPAD*



**Helen Bjørnøy**  
*Minister of Environment  
Norway*

Photo: Stig Weston

Helen Bjørnøy was appointed Minister of Environment in October 2005. She was previously secretary general for the Church City Mission in Oslo from 1999-2005, an institution that is very active in combating urban poverty and drug use. She is an ordained Lutheran priest with a professional background that includes teaching at the Lovisenberg Deaconal University College, Oslo (1991-1999). She has been active in local politics for a long time, and has been a Board member of a number of socially and poverty focused organizations. Ms. Bjørnøy considers poverty eradication to be a fundamental challenge of our time, and that sustainable development can only be reached if environmental quality is maintained. Only by increasing our understanding of these linkages through better environmental policies as well as more transparent development policies can lasting improvements be expected.



**Helge Lund**  
*President of Statoil  
Norway*

Photo: Øyvind Hagen, Statoil

Helge Lund took the post of president and chief executive of the international company Statoil in August 2004. Mr. Lund leads a company that believes contributing to sustainable development to be an important requirement for long term growth and value creation. Statoil's overall goal in the area of health, safety and the environment is *zero harm* to people and the environment: Statoil strongly believes that all accidents can be prevented. Working from the assumption of a relationship between human activity and global warming, Statoil supports the Kyoto protocol as a basis for a global collaboration to combat climate change. By 2010, Statoil aims to have achieved an annual reduction of 1.5 million tonnes of CO2 equivalent. Mr. Lund regards impact assessments as an important tool for the company to meet the goal of contributing to sustainable development. An important part of Statoil's policy is therefore to perform high quality impact assessments based on a holistic approach where all relevant environmental, social and health issues are assessed, communicated and managed in an integrated way involving all appropriate stakeholders. Impact assessment is regarded as an important tool to build and sustain the reputation of the project and the company. On behalf of Statoil, Mr. Lund is proud to be the main sponsor of IAIA06, as well as a keynote speaker.



**Robert T. Watson**  
*Chief Scientist, World  
Bank  
USA*

Photo: World Bank

Robert T. Watson, a U.S. citizen born in the U.K., is the World Bank's senior spokesperson on global warming and climate change. He joined the World Bank in May 1996 as senior scientific advisor in the Environment Department and in July 1997 was appointed director of the same department. He is currently the Chief Scientist and a senior advisor to the World Bank. Before coming to the Bank, he was associate director for environment in the office of Science and Technology Policy in the Executive Office of the U.S. President. Mr. Watson has played a key role in the negotiation of global environment conventions and the evolution of the Global Environment Facility (GEF). He is the former Chair of the IPCC (Intergovernmental Panel on Climate Change), and the Board Co-chair of the Millennium Ecosystems Assessment.

## Note

*The opening plenary will start on time. Delegates are encouraged to arrive early.*

*To minimize interruption of the speakers, the registration desk will close 15 minutes prior to the start of the plenary and will reopen at the lunch break.*

*Please plan your conference check-in time accordingly.*



# Keynote Speakers

## Closing plenary

**Aili Keskitalo**, *President, Sámi Parliament*

**Wangari Maathai**, *Professor, Nobel Peace Prize Laureate*

### **Hesphina Rukato**

*Deputy Chief Executive*

*New Partnerships for Africa's Development*

Dr. Hesphina Rukato is the Deputy Chief Executive of NEPAD, which is a program of the African Union.

NEPAD stands for the New Partnership for Africa's Development, and covers eight priority areas, namely:

- Political, Economic & Corporate Governance
- Agriculture
- Infrastructure
- Education
- Health
- Science & Technology
- Market Access, and Tourism
- Environment

Prior to becoming Deputy CEO, Dr. Rukato was Advisor for Environment and Tourism for the NEPAD Secretariat.

Before joining NEPAD, Dr. Rukato was Director of the WSSD (World Summit on Sustainable Development) Policy Unit at the Department of Environmental Affairs and Tourism in Pretoria, South Africa.

Dr. Rukato also worked as programme Manager for Energy at the Minerals and Energy Policy Centre (MEPC) in Johannesburg, South Africa.

She also previously worked as programme manager for the Group for Environmental Monitoring.



Photo: [www.wangari.maathai.or.ke](http://www.wangari.maathai.or.ke)

### **Wangari Maathai**

*Nobel Peace Prize Laureate*

*Kenya*

Professor Wangari Maathai, Kenya, is a professor in biology. She started the Green Belt Movement in 1977 and has since spread the idea to many other African countries. The Movement developed into an organization that fought for human rights and democracy in Kenya, and for women's rights. She is outspoken and courageous, traits which led to her arrest on several occasions. She was supporting other human rights activists in Kenya like Koigi wa Wamwere and was not afraid of criticizing the government of President Daniel Arap Moi. Towards the end of the 1980s she was one of the most outspoken critics of the plans to build skyscrapers in Nairobi's Uhuru Park, leading to the plans being abandoned. Wangari Maathai has received a number of prizes and acknowledgement for her work. Maathai is presently Deputy Minister for Environment in the democratic government that followed Moi's Presidency, but she also continues to work for and with the poor. Maathai was awarded the Nobel Peace Prize for her work in 2005.



Photo: [www.samediggi.no](http://www.samediggi.no)

### **Aili Keskitalo**

*President, Sami*

*Parliament/Samediggi Norway*

Aili Keskitalo was elected President of the Sámi Parliament/Sámediggi in Norway in October 2005, as the first woman to hold this position. The Sámi are one of many Arctic indigenous peoples, and live in four national states: Norway, Sweden, Finland and Russia. The Sámi Parliament/Sámediggi is a political tool for strengthening the Sámi's political position and contributing toward just treatment of the Sámi people. The Sámediggi in Norway was established in 1989. The Sámediggi has always emphasised the importance of maintaining an international indigenous perspective on the work it does.

Sámediggi is responsible for preserving the Sámi cultural heritage in a way that helps strengthen and continue Sámi culture. As caretaker of Sámi cultural heritage interests in planning and building matters, the Sámediggi submits hearing statements to environmental impact studies. Sámediggi advises municipalities on planning matters and has veto authority over development plans, zoning plans and development plans.

The Sámediggi expects full and effective Sámi participation of the establishment and management of protected areas and other matters to preserve nature, landscape and biological diversity.



# Daily Schedule

## Saturday 20 May

- 08:00-9:00**     **Registration** (Lobby)  
CLEAA and CBBIA participants only
- 09:00-17:00**     **CLEAA**  
See page 4 for information.
- 09:00-17:00**     **CBBIA**
- 14:00-17:00**     **Registration** (Lobby)  
Training courses 1-9b participants only

## Sunday 21 May

- 08:00-10:00**     **Registration** (Lobby)  
All training course participants (Lobby)
- 09:00-17:00**     **Training Courses**  
1. Effective IA Follow-up  
3. IA of Oil and Gas  
4. Concept, Process and Method of SIA  
5. Public Participation in EA  
6. Professional Ethics  
8. Mainstreaming Biodiversity/Decision Making  
9a/9b. Strategic Environmental Assessment
- 15:00-17:00**     **Registration** (Lobby)  
Training courses, technical visit A, World Bank Group Day, HIA-SIA Workshop, and Nordic Day participants
- 18:00-20:00**     **Technical visit A: Stavanger.**

## Monday 22 May

- 08:00-18:00**     **Registration** (Lobby)
- 09:00-17:00**     **Training courses**  
3. IA of Oil and Gas (field trip)  
4. Concept, Process and Method of SIA  
5. Public Participation in EA  
6. Professional Ethics  
8. Mainstreaming Biodiversity/Decision Making  
9b. SEA: group exercises  
9c. SEA: developing countries  
10. Practical Guide to Sustainability Assessment
- 09:00-16:00**     **World Bank Group Day**  
See page 4 for information.  
*Sponsored by World Bank.*
- 09:00-17:00**     **HIA-SIA Workshop**  
See page 4 for information.
- 10:00-17:00**     **Nordic Day**  
See page 4 for information.  
*Sponsored by Nordregio and Nordic Council of Ministers*
- 12:00-18:00**     **Exhibit and poster setup**
- 18:00-20:00**     **Opening reception** (Rogaland Museum of Fine Art)  
*Sponsored by City of Stavanger*

## Tuesday 23 May

- 07:30-08:45**     **Registration** (Lobby)
- 07:30-08:30**     **Committee meeting** (Stokka)  
• IAPA Editorial Board
- 09:00-10:00**     **Opening plenary** (Lindesnes A/B/C)  
*Co-chairs: Terje Lind and Arne Dalfelt, Program Committee Co-chairs*  
• **Welcome to Norway and IAIA06.** Terje Lind, Program Co-Chair  
• **Welcome to Stavanger.** Bjørge Tysdal Moe, Deputy Mayor of Stavanger  
• **Welcome to the 26th Annual Conference of IAIA.** William Veerkamp, President of IAIA
- Keynote speakers**  
• **Impact assessment – a tool for sustainable development.** Helen Bjørnøy, Minister of Environment, Norway  
• **The importance of impact assessment in Statoil.** Helge Lund, President of Statoil
- 10:00-10:30**     **Break**  
*Sponsored in part by Total*
- 10:30-11:30**     **Opening plenary**  
• **Impact Assessment in developing countries.** Heshpina Rukato, Deputy Chief Executive of the New Partnership for Africa's Development (NEPAD)  
• **Environmental change and global impacts.** Robert T. Watson, Chief Scientist, World Bank
- 11:30-15:00**     **Registration** (Lobby)
- 11:30-12:30**     **Lunch** (Hall C)  
*Sponsored by Conoco*
- 12:30-14:30**     **Theme Forums**  
1.1 Energy  
8.1 Poverty reduction and the MDG  
5.1 Biodiversity
- 14:30-15:00**     **Break**
- 15:00-17:00**     **Concurrent sessions**
- 18:00**     **Boat trip and dinner**  
Meet in Lobby at 17:30 for transportation, or at Harbour.  
*Sponsored by Statkraft*



# Daily Schedule

## Wednesday 24 May

08:00-16:30	<b>Registration</b> (Lobby)
07:30-08:30	<b>Committee meetings</b> (Ullandhaug) <ul style="list-style-type: none"> <li>Awards</li> <li>Affiliates</li> <li>Publications</li> </ul>
09:00-18:00	<b>TF 6.1 Circumpolar Day</b>
09:00-10:30	<b>Theme Forums</b> <ul style="list-style-type: none"> <li>3.1 Land use</li> <li>8.2 Millennium Development Goals</li> <li>5.2 Biodiversity</li> </ul>
10:30-11:00	<b>Break</b>
11:00-12:30	<b>Theme Forums</b> <ul style="list-style-type: none"> <li>3.2 Land use</li> <li>7.1 Governance</li> <li>2.1 Climate change</li> <li>5.3a Biodiversity</li> </ul>
12:30-13:30	<b>Annual General Meeting and Rose-Hulman Award Presentation</b> (Lindesnes A)
13:30-14:30	<b>Lunch</b> (Hall C) <i>Sponsored by Nordic Investment Bank</i>
14:30-16:00	<b>Theme Forum and concurrent sessions</b> <ul style="list-style-type: none"> <li>5.3b Biodiversity</li> </ul>
16:00-16:30	<b>Break</b>
16:30-18:00	<b>Concurrent sessions</b>
16:30-19:00	<b>Launch of OECD DAC Guidance</b> (Grip)
18:00-19:00	<b>Welcome to IAIA</b> See page 4 for information.
18:00-19:00	<b>Section meetings</b> <ul style="list-style-type: none"> <li>Strategic Environmental Assessment (Lindesnes c)</li> <li>Indigenous Peoples (Lindesnes C)</li> <li>Agriculture, Forestry &amp; Fisheries (Tungenes)</li> <li>Public Participation (Tungenes)</li> <li>Social Impact Assessment (Terningen)</li> <li>Environmental Management Systems (Dyna)</li> <li>Environmental Law, Policies &amp; Practice (Dyna)</li> <li>Disasters &amp; Conflicts (Utsira)</li> <li>Biodiversity (Halten)</li> <li>Urban (Classroom 1)</li> <li>IA of Trade-Related Policies (Classroom 1)</li> <li>Health (Classroom 3)</li> <li>Students and Early Professionals (Meeting Room 3)</li> </ul>
18:00-19:00	<b>Practitioners' Forums</b> See flip charts in Lobby for topics and meeting rooms.
18:00-20:00	<b>Technical visit B: Stavanger</b>
19:30	<b>Dine Out Stavanger</b> See page 4 and the message board in the Lobby for information.

## Thursday 25 May

06:30	<b>Fun Run</b> See page 4 and the message board in the Lobby for information.
08:00-16:30	<b>Registration</b> (Lobby)
09:00-10:30	<b>Concurrent sessions</b>
10:30-11:00	<b>Break</b>
11:00-12:30	<b>Concurrent sessions</b>
12:30-13:30	<b>Poster session</b> (Vestibule/Plaza)
13:30-14:30	<b>Lunch</b> (Hall C) <i>Sponsored in part by Hydro</i>
14:30-16:00	<b>Theme Forum and concurrent sessions</b> <ul style="list-style-type: none"> <li>4.1 Indigenous Peoples</li> </ul>
16:00-16:30	<b>Break</b>
16:30-18:00	<b>Theme Forums</b> <ul style="list-style-type: none"> <li>1.2 Energy</li> <li>8.3 Millennium Development Goals</li> <li>4.2 Indigenous Peoples</li> <li>9.1 Tool Development</li> </ul>
18:00-19:00	<b>Practitioners' Forums</b> See flip charts in Lobby for topics and meeting locations.
19:30	<b>Banquet</b> (Hall Toll Restaurant, Skansegt. 2, Stavan-ger Harbour) <i>Sponsored by Statoil</i>

## Friday 26 May

08:00-11:00	<b>Registration</b> (Lobby)
07:30-08:30	<b>Committee meetings</b> <ul style="list-style-type: none"> <li>Training &amp; Professional Development (Utsira)</li> <li>Sections Coordinating</li> </ul>
09:00-10:30	<b>Closing plenary</b> (Lindesnes A/B/C) <i>Co-chairs: Terje Lind and Arne Dalfelt, Program Committee co-chairs</i> <ul style="list-style-type: none"> <li><b>Welcome to the last day, and the closing plenary.</b> William Veerkamp, President, IAIA</li> <li><b>Indigenous and northern perspectives in impact assessment.</b> Aili Keskitalo, President of the Sámi Parliament, Norway</li> <li><b>Summing up: Conclusions and perspectives.</b> Brian Clark, Scotland, and Barry Sadler, Canada</li> </ul>
10:30-11:00	<b>Break</b>
11:00-12:30	<b>Closing plenary</b> (Lindesnes A/B/C) <ul style="list-style-type: none"> <li><b>Environmental Perspectives.</b> Professor Wangari Maathai, Nobel Peace Prize Laureate</li> <li><b>Awards ceremony.</b> Jean-Roger Mercier, Awards Committee Chair</li> <li><b>Invitation to IAIA07 in Korea.</b></li> <li><b>Closing of IAIA06.</b></li> </ul>
13:00-20:00	<b>Technical visit C: Kårstø</b>
13:00-18:00	<b>Technical visit D: Ryfylke fjord</b>
13:00-14:00	<b>Council meeting</b> (Utsira)
Afternoon	<b>Iceland post-conference technical visit departs</b>

## Saturday 27 May

09:00-16:00	<b>Technical visit E: Lyse</b>
10:00-14:00	<b>Technical visit F: North Jæren</b>



# Technical Program Overview

Theme Forums and Concurrent Sessions

	Tuesday 23 May		Wednesday 24 May		
	12:30-14:30	15:00-17:00	09:00-10:30	11:00-12:30	14:30-16:00
<b>Lindesnes A</b>	Energy TF 1.1	Oil and gas CS 1.1			Renewable CS 1.3
<b>Lindesnes B</b>		Land use CS 3.1	Land use planning TF 3.1	Land use planning TF 3.2	Land u CS 3.2
<b>Lindesnes C</b>		Hydroelectric energy CS 1.2			SEA/learn governan CS 16.1
<b>Grip</b>	Poverty reduction/MDGs TF 8.1	Development CS 8.1	Poverty reduction/MDGs TF 8.2	Governance TF 7.1	NIB CS 24.1
<b>Runde</b>		Indigenous Peoples CS 4.1	Circumpolar Day TF 6.1		
<b>Tungenes A</b>		Disasters and conflicts CS 11.1			Developing c CS 8.4
<b>Tungenes B</b>					
<b>Terningen</b>		Trade CS 22.1			Governa CS 7.1
<b>Dyna</b>		Transport SEA CS 16.1		Climate change TF 2.1	EIA in the CS 23.1
<b>Utsira</b>		SEA learning & governance CS 16.9			Climate ch CS 2.1
<b>Halten</b>	Biodiversity TF 5.1	Biodiversity/Agriculture, forestry & fisheries CS 5.7	Biodiversity TF 5.2	Biodiversity TF 5.3a	Biodiver TF 5.3
<b>Kvitsøy</b>		Biodiversity/Power generation CS 5.4			Methodo CS 23.1
<b>Classroom 1</b>		Urban governance CS 20.1			Energy infras CS 1.4
<b>Classroom 2</b>		EMS CS 12.1			EMS CS 12.1
<b>Classroom 3</b>		HIA CS 13.1			Strategic CS 13.1
<b>Classroom 4</b>		Methodology CS 23.1			HIA CS 13.1
<b>Ullandhaug (Rica Forum Hotel)</b>		EA law CS 17.1			Urban devel CS 20.1
<b>Stokka (Rica Forum Hotel)</b>					EU Birds/H Directiv CS 5.3
<b>Marstein (Hall C)</b>		Resource base CS 24.1			Public partic CS 14.1
<b>Hansons Minde</b>		Marrakech Action Plan CS 18.1			Capacity Bu CS 21.1



# Technical Program Overview

Theme Forums and Concurrent Sessions

Wednesday 24 May		Thursday 25 May			
08:00-10:00	10:00-12:00	12:00-14:00	14:00-16:00	16:00-18:00	18:00-20:00
Renewable energy CS 1.3	Geothermal energy CS 1.5	Development CS 8.2	Energy CS 1.8	Energy CS 1.9	Energy TF 1.2
Land use CS 3.2	Universal design CS 3.3	Planning and zoning CS 3.4	Land use CS 3.5	Transportation CS 3.6	
Learning & governance CS 16.10	Hydrocarbon pipelines CS 1.6	Agriculture CS 10.1	Forestry CS 10.2	SEA CS 16.3	
NIB CS 24.7	OECD/DAC CS 23.8	SIA CS 15.2	SIA CS 15.3	Tool development CS 9.1	Poverty reduction/MDGs TF 8.3
		Arctic and circumpolar issues CS 6.1	Indigenous Peoples CS 4.2	Indigenous Peoples TF 4.1	Indigenous Peoples TF 4.2
Developing countries CS 8.4	Developing countries CS 8.5	Industrial benefits planning CS 24.8	Sustainable development CS 8.3	SIA CS 15.4	
		Cultural resources CS 24.5	SEA CS 16.12	Careers seminar CS 24.10	
Governance CS 7.1	SIA CS 15.1	Governance CS 7.2	Governance CS 7.4	Governance CS 7.3	
EIA in the EU CS 23.6	EIA in the EU CS 23.7	SEA CS 16.4	SEA CS 16.6	SEA CS 16.2	Tool development TF 9.1
Climate change CS 2.1	SEA/learning & governance CS 16.11	SEA CS 16.5	SEA/World Bank CS 16.7	SEA/Land use CS 16.8	
Biodiversity TF 5.3b		Biodiversity/Capacity building CS 5.8	Biodiversity/Capacity building CS 5.9	Biodiversity/Poverty reduction CS 5.10	Biodiversity/Power generation CS 5.5
Methodology CS 23.3	Biodiversity/Power reduction CS 5.11	Biodiversity CS 5.2	Biodiversity/Power generation CS 5.6	CBD CS 5.1	
Infrastructure CS 1.4	Capacity building CS 21.3	Gender-energy link CS 1.7	SEA/Asia CS 19.1	EIA/Asia CS 19.2	
EMS CS 12.2	EA law CS 17.2	National EA systems CS 17.3	EA and practice CS 17.4	Transboundary CS 17.5	
Strategic HIA CS 13.2	HIA CS 13.4	HIA CS 13.6	HIA CS 13.7	HIA CS 13.8	
HIA CS 13.3	HIA/Nordic CS 13.5	Industrial sector CS 24.6	Capacity building CS 21.2	Fisheries CS 10.3	
Development CS 20.2	Integrated assessment CS 23.2	Methodology CS 23.4	Methodology CS 23.5	Ethics and quality CS 24.3	
Small-scale development CS 5.3			Small-scale development CS 24.11	GMO CS 24.9	
Public participation CS 14.1	Public participation CS 14.2	Public participation CS 14.3	Public participation CS 14.4	Public participation CS 14.5	
City Building CS 21.1	Marrakech Action Plan CS 18.2	Cumulative IA CS 24.2	Training and research CS 24.4	Marrakech Action Plan CS 18.3	



# Technical Program

## Energy: the role of impact assessment

Energy is a key resource of concern to practically all governments. Those having access and control of energy sources in a society also to a large extent possess the key to prosperity or poverty. Energy is both a very important geopolitical issue and a daily issue for all citizens of the globe.

During the last decades, the energy markets have changed, and the focus has been moving away from energy and oil crisis management to broader energy issues, including development of new renewable energy sources, climate change policies, market reform, energy technology collaboration and outreach to the world.

There is a strong linkage between energy use and environmental and social quality. All sources of energy are causing adverse impacts to the environment in one way or another. Impact assessments of energy development projects are therefore conducted all over the world, identifying both adverse and beneficial impacts – and seeking to mitigate the adverse impacts and enhancing the beneficial ones.

Because of the strong relationship between socio-economic development and environmental issues, energy development and policies are closely related to environmental and social sustainability issues, often giving rise to controversies and conflicts both at global and local scale.

The two energy Theme Forum sessions – one introductory and one concluding – will give ample opportunities for debate and discussion, and the nine concurrent sessions will further develop the issues – as will also dedicated training courses and technical visits.

*Conveners: Ole Anders Lindseth, Sigurd Juel Kinn*

### Theme Forum on energy

*Theme Forums sponsored by Statoil.*

#### TF 1.1 Energy and the role of impact assessment

*Chair: Barry Sadler*

**Tuesday 23 May • 12:30 - 14:30 • Lindesnes A**

##### Opening

*Anne Thingelstad Wøien, political advisor, Norwegian Ministry of Petroleum and Energy*

##### The future energy market

*Knut Einar Rosendahl, professor/researcher, Statistics Norway (SSB)*

#### Energy, environment and development - the challenges ahead

*Olav Kjørven, Director, Energy and Environment, UNDP (United Nations Development Program)*

#### Integration of environmental concerns in an energy corporation

*Ingelise Arntsen, Executive Vice President, Statkraft, Norway*

#### Discussion

#### TF 1.2 Energy and IA: the way forward

*Chair: Barry Sadler*

**Thursday 25 May • 16:30 - 18:00 • Lindesnes A:**

#### Introduction: the role of IA in developing sustainable energy solutions for the future

*Barry Sadler*

**Panel/roundtable discussion between the chairs of the concurrent sessions on oil and gas, hydro, geothermal wind power, and other renewable resources and on energy management**

**Conclusions to be submitted to the closing plenary**

### Concurrent sessions on energy

#### CS 1.1 Oil and gas

*Chair: Sigurd Juel Kinn*

**Tuesday 23 May • 15:00 - 17:00 • Lindesnes A**

#### Snøhvit - a unique LNG-project in northern Norway

*Bjørn Fossan*

#### Health impact assessment in the international oil and gas sector

*Martin Birley*

#### Environmental impact assessment for oil industry in Sudan

*Widad Suliman*

#### An oil and gas industry project lifecycle approach to risk and impact management

*Ben Witchalls, Rob Finney*

#### CS 1.2 Hydroelectric energy

*Chair: Arve Tvede*

**Tuesday 23 May • 15:00-17:00 • Lindesnes C**

**River protection or hydropower development – the Vefsna River in Norway – an example of both? An evaluation of a pre-planning process aimed at combining both protection and development**

*Haakon Thaulow, Eivind Selvig, Njål Arge*

**Lessons from 30 years of environmental impact assessment in Quebec: the case study of hydroelectric dams**

*Anne-Laure Bouvier, Jean-Philippe Waaub*

#### Tackling the social issue in hydropower

*Anders Hiort-af-Ornas*

#### Human impact assessment of the Mackenzie Gas Project

*Carolyn Dunn, Rick Grabowecky*

#### CS 1.3 Wind power and other renewable energy

*Chair: Knut Grønntun*

**Wednesday 24 May • 14:30 - 16:00 • Lindesnes A**

#### Wind energy and the natural heritage in Scotland

*Arthur Keller*

**A windfall of potential: an analysis of wind energy at a remote diamond mine in northern Canada**

*Kimberley Horrocks*

#### Wave energy converter Seawave Slot-Cone Generator (SSG)

*Espen Osaland*

**The adoption of improved charcoal stoves in urban Zanzibar and its impact on rural forests**

*Makame Makame, Jokha Suleiman*

#### CS 1.4 Energy infrastructure planning

*Chair: Wynand Fourie*

**Wednesday 24 May • 14:30 - 16:00 • Classroom I**

#### Scenario analysis for evaluation of the future sustainability of an energy system

*Darby Grande*

**Relocation of 1 778 MW Diesel Lamu Power Station from Lamu Island to Lamu mainland at Mokowe, Kenya – impact assessment**

*Gabriel Wetang'ula, Benjamin Kubo*

#### Deepwater LNG terminal development in the United States

*Paul Sage*

**Assessing the potential for the creation of a standardised, systematic methodological Strategic Environmental Assessment (SEA) framework for wind energy planning**

*John Phyllip-Jones*

#### CS 1.5: Geothermal energy

*Chair: Thoroddur Thoroddsson*

**Wednesday 24 May • 16:00-18:00 • Lindesnes A**

**Preliminary environmental impact assessment for the development of Tendaho Geothermal Field, Ethiopia**

*Solomon Kebede*

**Effects of geothermal wastewater disposal: assessment of seasonal and spatial variability in thermal stress in Lake Thingvallavatn, Iceland**

*Gabriel Wetang'ula, Sigrudur Snorrason*

**Environmental impact assessment of 64 MW Olkaria Geothermal Power Project – Kenya**

*Benjamin Kubo, Gabriel Wetang'ula*

**Does the EIA function properly for geothermal projects?**

*Stefan Gunnar Thors, Albert Albertsson*

#### CS 1.6 Hydrocarbon pipelines

*Chair: Nick Bonvoisin*

**Wednesday 24 May • 16:30 - 18:00 • Lindesnes C**

**The effectiveness of the Environmental Impact Assessment (EIA) follow-up with regard to biodiversity conservation**

*Ramzi Bataineh*



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**The evolving role of the National Energy Board of Canada: challenges and opportunities**  
*Judy Bennett, Lesley Matthews*

**The Langed Project – using the EIA as a basis for paying compensation to fishermen**  
*Steinar Eldøy*

**LNG regasification terminals in Mexico and their relationship with poverty and social conflict**  
*Harry Heisler, Martin Quijano, Ricardo Juarez*

## CS 1.7 Gender - energy link

**Roundtable**  
*Chair: Barbara Bamberger*

**Thursday 25 May • 9:00 - 10:30 • Classroom I**

**Bottlenecks to sustainable development: assessing the gender - energy link on the ground**  
*Barbara Bamberger*

## CS 1.8 Energy and EIA methodology I

*Chair: Even Lind*

**Thursday 25 May • 11:00 - 12:30 • Lindesnes A**

**ESHIA—a novel concept in impact assessment: the experience of Shell Nigeria**  
*Ndamieye Abby-Kalio*

**A newly developed structured approach to impact management – the BP way**  
*Ben Witchalls, Mick Stump, Toby Croucher, Chris Herlugson*

**Development and implementation of a standardized process for Environmental Social & Health Impact Assessment (ESHIA) at Chevron**  
*Jonathan Lilien*

## CS 1.9 Energy and EIA methodology 2

*Chair: Knut Grønntun*

**Thursday 25 May • 14:30 - 16:00 • Lindesnes A**

**La Parota: social response to the hydro electrical power project**  
*Eduardo Vadillo*

**Impact assessment: integrating social, health and environmental assessment for projects**  
*Saskia De Koning, Maarten Smies, Oti Dada*

**The Regional Energetic Environmental Plan (REEP) of Marche Region, Italy**  
*Antonio Minetti, Raffaella Fontana*

## Other events on energy

### Training Course

**TC 3: Impact assessment of oil and gas activities**

### Technical Visits

**TV C: Kårstø: Landfall and export terminal for North Sea gas**

**TV E: Lyse: Hydroelectric power development projects**

### Post-conference technical tour

**Iceland: geothermal power**

## 2

## Climate change

As virtually all scientists, most of the public and increasingly the media have come to understand that the earth's climate is perilously threatened, few countries have captured the gravity of the situation and been able to put it on the political agenda for efficient action. It is widely recognized that climate change in general will affect developing countries and people living in marginal areas more than others. Recent research shows, however, that people in developed economies may also be hard-hit by increased occurrence of extreme weather linked to climate change. Many people feel that they are not in a position to put political power behind a wish to halt negative trends in climate development, and find it difficult to create a sustainable future for themselves and their children.

Climate change relates to impact assessment in different ways. The impact of a project, plan, program or policy on the climate through emissions is an issue to be assessed and mitigated. On the other hand, the occurring change in climate regimes should also be taken into account when designing or locating a development project, or formulating a plan or policy.

*Convener: Pål Prestrud, Norway*

## Theme Forum on climate change

### TF 2.1 Climate change impact assessment – status and new developments

*Chair: Pål Prestrud, Cicero, Norway*

*Co-chair: F. Larry Leistritz, USA*

**Wednesday 24 May • 11:00 – 12:30 • Dyna**

**Strengths and weaknesses of the IPCC-process - experiences with a comprehensive global climate assessment**

*Robert T. Watson, World Bank, USA (Former Chair of the Intergovernmental Panel on Climate Change)*

**Experiences with and results from a global regional climate assessment - strengths and weaknesses of the ACIA process**

*Pål Prestrud, CICERO, Norway/ACIA (Arctic climate impact assessment)*

**Climate impact adaptation assessment**

*Speaker to be announced*

## Concurrent session on climate change

### CS 2.1 Climate change

*Chair: Brian Clark*

**Wednesday 24 May • 14:30 – 16:00 • Utsira**

**Economics and policy of carbon sequestration in agricultural soils: a review**  
*F. Larry Leistritz, Dean Bangsund*

**The role of spatial planning in biodiversity adaptation to climate change**  
*Elizabeth Wilson, Jake Piper*

**Impact assesment of energy and climate crisis of the past**  
*Miguel Coutinho, Carlos Borrego*

**High speed railway at sea level: how do we handle the climate change?**  
*Kerstin Larsson*

## 3

## Land use planning, transportation and coastal zone management

The aim of the Theme Forum and associated concurrent sessions is to examine linkages between land use planning and impact assessment. Practical experiences and theoretical issues will be addressed in a fruitful mix. Current thinking will be reflected on such classical issues as the relationship between levels of planning and of SEA and EIA, the change and development of land use planning systems and Coastal Zone Management (CZM) under the influence of impact assessment thinking and regulations. Methods and strategies for effective participation and for integration of transport planning and coastal zone management with existing systems of land use planning will be focused.

The Theme Forum draws extensively on Nordic experiences in planning and application of environmental assessment to land use planning. The Nordic countries have established systems of spatial planning that to various degrees have coped with the new challenges of impact assessment and with new forms of integrated planning and programming for infrastructure, CZM, etc. Concurrent sessions within the land use theme widen the geographic and substantive scope of discussion.

Presenters are asked to bring out succinctly the main lessons of their papers and the wider practical and theoretical issues for discussion.

*Convener: Lars Emmelin, Sweden*



# Technical Program

## Theme Forums on land use planning

### TF 3.1 Land use planning and SEA – co-evolving systems

Chair: Lars Emmelin

Wednesday 24 May • 9:00 – 10:30 • Lindesnes B

Issues and experiences in SEA and land use planning - an introduction to the theme forum  
*Professor Lars Emmelin, Blekinge Institute of Technology, Sweden*

Taking new directions together: co-evolution of SEA and development planning  
*Professor Bo Elling, Roskilde University Denmark*

SEA as an instrument in land use planning in CEE countries  
*Jiri Dusik, Regional Environmental Center for Central and Eastern Europe, Hungary*

Scenario SEA of the Trans European Network for transport  
*Dr Ulf Kjellerup, COWI, Denmark*

### TF 3.2 Land use planning

Chair: Tuija Hilding-Rydevik

Wednesday 24 May • 11:00 – 12:30 • Lindesnes B

Holistic land use and transport planning in the Jæren district  
*Per Frøyland Pallesen, Rogaland county council*

SEA and Land Use Planning in the municipality of Stavanger  
*Thommas Bjerga, City of Stavanger*

Coastal planning and coastal management in Denmark  
*Malene Wiinblad, Danish Nature and Forest Agency*

## Concurrent sessions on land use planning

### CS 3.1 Land use planning and transportation

Chair: Harald Noreik

Tuesday 23 May • 15:00 – 17:00 • Lindesnes B

Improving the practice of integrating land use planning and impact assessment  
*Janet Amos*

Did the impact assessment matter at all?  
*Ann Åkerskog*

Concepts used for a reader-friendly EIS on a large transportation project in Seattle, Washington  
*Pamela Gunther*

Environmental assessment, alternatives and large-scale infrastructure projects – the Öresund fixed link case  
*Eric Markus*

Technical and legal nature conservation requirements for new spatial planning instruments in the exclusive economy zone  
*Wolfgang Wende, Johann Koeppel*

### CS 3.2: Land use planning, transportation and coastal zone management

Chair: Jørgen Brun

Wednesday 24 May • 14:30 – 16:00 • Lindesnes B

Coastal zone management from theory to practice: methodology and case studies from Italy  
*Leonardo Marotta, Gianmarco Deandrea, Stefano Picchio, Virginio Bettini*

Coastal zone management and aquaculture in the Stavanger region.  
*Olav Andreas Sager*

A role for environmental assessment in the Atlantic Canada coastal zone: linking project planning to policy implementation  
*Barry Jeffrey*

Windfarms and cultural heritage along the Norwegian coast  
*Gro Bjørnstad Jerpåsen, Inge Lindblom*

### CS 3.3 Mainstreaming universal design

Chair: Charles Alton

Wednesday 24 May • 16:30 – 18:00 • Lindesnes B

Universal design and disability: fundamental physical and social impact assessment  
*Charles Alton, Ben Underwood*

Providing knowledge and skills to bureaucrats about mainstreaming universal design through specialized training  
*Jean-Roger Mercier, Charles Alton*

Universal design: defining human diversity in spatial planning and impact assessment  
*Olav Rand Bringa*

Universal design and tourism: a missing link in impact assessment  
*Benjamin Underwood, Charles Alton*

### CS 3.4 Planning and zoning, the forgotten aspect of project development

Chair: Patricia Fleischauer

Thursday 25 May • 9:00 – 10:30 • Lindesnes B

Small scale projects and their impact to the environment: an examination of screening guidelines and planning process in Tanzania  
*Beatrice Mchome*

EIA as a tourism planning tool: case study in Oman  
*Adel Rady, Ahmed Abul-Azm*

Planning and zoning: the forgotten aspect of project development  
*Patricia Fleischauer*

### CS 3.5 Land use planning and transportation

Chair: Harald Noreik

Thursday 25 May • 11:00 – 12:30 • Lindesnes B

Using a cost-benefit analysis to select the optimal flood protection measures  
*Steven Broekx, Leo De Nocker, Inge Liekens, Steven Smets, Dirk Bulckaen, Johan Gauderis*

The recovery plan for the area at high risk of environmental crisis (Ancona, Falconara and Lower Esino Valley), Marche Region (Italy): an integrated governance and planning model  
*Lorenzo Federiconi*

Environmental impact assessment of federal tourism developments in Mexico  
*Julietta Pisanty-Levy*

### CS 3.6 Transportation, emissions, and social impacts

Chair: Wynand Fourie

Thursday 25 May • 14:30 – 16:00 • Lindesnes B

Detroit River International Crossing Project – public participation in an international transportation project  
*Kaarina Stiff, Dave Wake*

Regulations and guidelines for the environmental assessment of road projects in Lao PDR  
*Phaknakhone Rattana*

Do women drive sustainable mobility in the developed world? Results from an activity-based survey  
*Carolien Beckx, Luc Int Panis, Rudi Torfs, Geert Wets, Davy Janssens, Steven Broekx*

Towards sustainable mobility between Québec and Saguenay  
*Claire Michaud, Donald Martel*

## Other events on land use planning

### Technical visits

TV D: Ryfylke fjord: coastal zone management and fish farming

TV F: North Jaeren: land use and transportation planning

## 4

## Indigenous Peoples

Indigenous Peoples are often among the most adversely affected and vulnerable groups and among those who least benefit from development projects. Without diminishing the importance of rights recognition, there is mounting evidence that the impact assessment process can be a powerful enabling tool for Indigenous Peoples to increase their involvement and say in development initiatives that affect their communities.

At a special conference event on Indigenous Peoples and Impact Assessment held at IAIA'05 in Boston, Indigenous Peoples leaders, practitioners of impact assessment and other stakeholders came together to exchange and discuss how impact assessment is measuring up to the challenges of indigenous peoples' development. The Sámi - as host Indigenous Peoples of this year's conference - and other collaborators wish to pursue last year's mutual learning experience. The two Theme Forum sessions on Indigenous Peoples



# Technical Program

at IAIA06 will further engage dialogue on the complex, and often sensitive, issues related to the contribution which impact assessment can bring to Indigenous Peoples development. Subsequent concurrent sessions will provide added opportunities to discuss these issues.

*Conveners: Rune Fjellheim, Liv Østmo, Victoria Tauli-Corpuz, John Paul Murdock, Navin Rai, Peter Leonard*

## Theme Forum on Indigenous Peoples

Sponsored in part by World Bank.

### TF 4.1 Building Indigenous Peoples' capacity to exercise their rights to engage and use traditional knowledge in IA

*Co-chairs: Johan Mikkel Sara, Vice President of the Sámi Parliament in Norway*

*Stephen Lintner, Senior Technical Advisor, World Bank*

**Thursday 25 May • 14:30 - 16:00 • Runde**

**Recognizing existing indigenous capacity and knowledge**

*Ole Henrik Magga, Sámi Council*

**Developing skills and using indigenous peoples' knowledge to effectively be involved in the IA study process, tools as well as consultation and participatory processes**

*Liv Østmo, Sámi University College, Norway*

**Implementation learning and knowledge requirements**

*Gunn Britt Retter, Sámi Council Speaker*

**Questions and panel discussion**

### TF 4.2 Defining roles and responsibilities for including Indigenous Peoples in IA

*Co-chairs: Magne Ove Varsi, Resource Centre for the Rights of Indigenous Peoples, Norway*

*Peter Leonard, Senior Environment Advisor, Hydro-Quebec Production, Canada*

**Thursday 25 May • 16:30 – 18:00 • Runde**

**Lead speakers:**

**An Indigenous People's perspective**

*Daria Egereva, RAIPON, Russian Republic*

**An international financial institution's perspective**

*Stephen Lintner, Senior Technical Advisor, World Bank*

**Panel discussion**

**Closing remarks: Theme Forum wrap-up**

*Johan Mikkel Sara, Vice president of the Sámi Parliament in Norway*

*Stephen Lintner, Senior Technical Advisor, World Bank*

## Concurrent sessions on Indigenous Peoples

### CS 4.1 Indigenous peoples and development issues

*Co-chairs: Liv Østmo, Peter Leonard*

**Tuesday 23 May • 15:00 – 17:00 • Runde**

**Ethnic minorities, development issues and hydropower in Lao PDR**

*Stephen Sparkes*

**State ethnological expertise or ethno-cultural assessment? Theoretical problems and real practice case study of Russia**

*Pavel Filin*

**Indigenous reindeer herders' knowledge and assessment of vulnerability to climate change**

*Svein D Mathiesen*

### CS 4.2 Indigenous peoples and biodiversity

*Co-chairs: Peter Croal and Heidi Klein*

**Thursday 25 May • 11:00 – 12:30 • Runde**

**Impact of removing exotic forests from newly established national park**

*Margaret Mondlane*

**Inuvialuit involvement in impact assessment and development in Canada's Western Arctic**

*William J Klassen, Christine Inglangasuk*

**Land claims and their contribution to biodiversity protection in northern Canada**

*Heidi Klein, Jody Snortland*

**Discussion**

## 5

## Biodiversity

Biodiversity issues are inextricably linked to the key themes of IAIA06. To highlight just a few of the vital relationships: much of the world's population gets their energy directly from biological resources, but if not properly planned, large energy development projects have enormous potential to damage biodiversity. A considerable percentage of the world's economy and of the needs of the poor are derived directly from biodiversity, which therefore has a key role to play in poverty reduction. A role emphasised in the "2010 Target" adopted by the Convention on Biological Diversity is "to achieve by 2010 a significant reduction of the current rate of biodiversity loss at the global, regional and national level as a contribution to poverty alleviation and to the benefit of all life on earth." Conservation and sustainable use of biodiversity are recognised as essential tenets for more sustainable patterns of development, but despite this, key services provided by biodiversity such as protecting water supplies or providing flood protection are often overlooked and undervalued by current economic and decision-making approaches. Recognising the potential role of

impact assessment in illuminating the relationships and communicating them to decision-makers, in March 2006 the CBD endorsed voluntary guidelines on biodiversity-inclusive impact assessment.

The biodiversity stream sessions will explore these issues and develop a series of recommendations to progress the biodiversity and impact agenda further. Specific sessions are being held on the following topics:

- Impact assessment and biodiversity: case studies, methods and approaches
- Biodiversity and power generation
- Capacity building for biodiversity and impact assessment
- Biodiversity and poverty reduction
- The EU Birds and Habitats Directives and impact assessment
- Indigenous issues and biodiversity (Indigenous peoples and biodiversity sections joint session)
- Agriculture, forestry and fisheries – relationships with "wild" biodiversity (Agriculture, forestry and fisheries and biodiversity sections joint session)

*Convenor: Leif John Fosse, Norway*

## Theme Forum on biodiversity

*Theme Forum on the Millennium Ecosystem Assessment, biodiversity and community based natural resource management*

### TF 5.1: The millennium ecosystem assessment in international environment development policy

*Chair: P.J. Schei, FNI (Fritjof Nansens Institute) Norway*

**Tuesday 23 May • 12:30 – 14:30 • Halten**

**Opening Address**

*Petter Johan Schei, Fridtjof Nansens Institute (FNI)*

**Nordic mandate for the workshop**

*Morten Wasstøl, Political Adviser, Norwegian Ministry of Environment*

**The MA – what, and why and how relevant to international policy processes?**

*Bob Watson, World Bank*

**The importance of MA to CBD (Convention on Biological Diversity) and the other biodiversity conventions**

*Christian Prip, Ministry of Environment, Denmark. Head of CBD SBSTTA (Subsidiary Body on Scientific, Technical and Technological Advice)*

**MA and the development agenda – making the economic case for ecosystem services**

*Steve Bass IIED/Poverty – Environment Partnership (PEP)*



# Technical Program

**Why do ecosystems matter? Policy responses to the MA and biodiversity loss**

*Jeff McNeely, IUCN (International Union for the Conservation of Nature)*

**Community based natural resource management in the context of MA policy responses.**

*Janet Ranganathan, World Resources Institute*

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## **TF 5.2: Lessons from sub-global assessments and community conservation for the 2010 biodiversity target and the MDGs**

*Chair: P.J. Schei, FNI*

*Co-chair: Christian Prip*

Wednesday 24 May • 9:00 - 10:30 • Halten

**Brief recapitulation of yesterday's session**  
*Peter Johan Schei, Chair*

**Southern African Millennium Ecosystem Assessment**

*Dr. Constanca Musvoto, Institute for Environmental Studies, University of Zimbabwe,*

**The MA, poverty and biodiversity in Central America**

*Marianela Cedeno, IUCN-ORMA/Central America (World Conservation Union Regional Office for Mesoamerica)*

**The Hashi experience in Tanzania**  
*Mlenge Wendelin, HASHI/NAFRAC*

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## **TF 5.3a Lessons from sub-global assessments and community conservation for the 2010 biodiversity target and the MDGs - continued**

*Chair: P.J. Schei*

*Co-chair: Christian Prip*

Wednesday 24 May • 11:00 – 12:30 • Halten

**Critical conditions for Community Conservation, poverty reduction and civil society in Southern Africa**

*Brian Child, University of Florida*

**Community conservation, the 2010 Biodiversity Target and the Millennium Development Goals. Commissioned study for this Theme Forum**

*Dilys Roe, IIED*

**Biodiversity, poverty and Indigenous Peoples Rights in Southeast Asia**

*Viktor Kaisiepo, International Alliance of Indigenous-Tribal Peoples of the Tropical Forest*

**Community conservation and Indigenous Peoples rights in the High North**

*John Mikkel Sara, Vice-President of the Sami Parliament*

**Community Based Natural Resource Management and Indigenous Peoples Rights in the Russian Arctic**

*Ekaterina Khmeleva, RAIPON, Russian Federation*

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## **TF 5.3b Community responses to the challenges posed by the MA, part 2**

*Chair: Christian Prip*

Wednesday 24 May • 14:30 - 18:00 • Halten

**Debate on follow-up at national level. Panel consisting in selected contributors to previous sessions**

*Facilitated by Steve Bass, IIED*

**Possible topics and panelists:**

**The role of local authorities in addressing MA challenges**

*Mlenge Wendelin, HASHI/NAFRAC*

**Can protected areas work for indigenous peoples?**

*Gonzalo Oviedo, IUCN*

**Evaluation of the MA**

*Michael Wells, Consultant*

**What role for National Biodiversity Strategies and Action Plans?**

*Inger Næss, MFA/Tone Solhaug, MoE*

**Summary and Conclusions: Where do we go next with the MA?**

*Co-chair: Christian Prip, MoE, DK*

**Closing Address by Ministry of Foreign Affairs, Norway**

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## **Concurrent sessions on biodiversity**

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### **CS 5.1 The CBD (Convention on Biological Diversity) and case studies**

*Chair: Helen Byron*

Tuesday 25 May • 14:30 – 16:00 • Kvitsøy

**Agenda item 'Impact Assessment' – discussion and outcomes at the 8th Conference of the Parties to the Convention on Biological Diversity in Curitiba, Brazil**

*Sabine Mayer*

**The usefulness of environmental servitudes in environmental impact assessments**

*Claudia Holgate*

**Impact assessment and biodiversity considerations: a case study of Niger Delta University Campus Development Project on Wildlife of Nun River Forest Reserve in the Niger Delta**

*Mohammed Hamadina, Otobotekere Dimie, Donald Anyanwu*

**Establishment and application of eco-environmental risk assessment system of highway: a case study from G315 Yitunbulake-Qiemo Section of Xinjiang**

*Huarong Zhou, Yibing Qian*

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### **CS 5.2 Methods and approaches**

*Chair: Nick King*

Thursday 25 May • 9:00 – 10:30 • Kvitsøy

**From waste of time to useful tool – changed perception of sustainability appraisal. An ecologist's views**

*Gunilla A Olsson*

**Impacts of region-wide urban development on biodiversity in Strategic Environmental Assessments (SEA)**

*Andreas Zetterberg, Ulla Mörtberg, Berit Balfors, Mikael Gontier*

**Assessment of endangered plant species in South Korea**

*Hyun-Woo Lee, Young Han Kwon, Heung-Lak Choung*

**Integration of biodiversity in environmental impact assessment studies in Nepal**

*Nawa Raj Khatiwada, Bhai Raja Manandhar*

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## **CS 5.3 The EU Birds and Habitats Directives**

*Chair: Andrew Dodd*

Wednesday 24 May • 14:30 – 16:00 • Stokka

**Implementation of the EU Bird and Habitat Directive in EIA and SEA in The Netherlands**

*Arend Jan Kolhoff*

**Compensatory measures under Article 6(4) of the Habitats Directive – methodological experiences and requirements**

*Wolfgang Peters, Johann Köppel*

**Compensatory measures for habitat loss: Spanish examples**

*Rosa M<sup>a</sup> Arce Ruiz*

**Discussion**

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## **CS 5.4 Biodiversity and hydropower generation**

*Chair: Bernt Rydgren*

Tuesday 23 May • 15:00 – 17:00 • Kvitsøy

**Popa Falls Case Study**  
*Peter Tarr*

**Status of biodiversity in mini-hydropower development projects in Sri Lanka**

*Indika Karunaratna*

**Biodiversity considerations in the mega-hydro-electricity project in Nepal**

*Batu Krishna Uprety*

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## **CS 5.5 Biodiversity and power generation**

*Chair: Bernt Rydgren*

Tuesday 25 May • 16:30 – 18:00 • Halten

**Biodiversity issues pertaining to the operation and maintenance of high voltage power lines within the Cape Floristic Kingdom**

*Douw Willemse*

**Power generation and biodiversity conservation at Cuyutlán Lagoon**

*Guillermo Zúñiga-Gutiérrez, Francisco-Javier Hernández-Alvarez*

**Drivers of and response to biodiversity loss in China: can impact assessment play a role in addressing this issue?**

*Wei Li*

**Overarching discussion on power generation and biodiversity issues**



# Technical Program

## CS 5.6 Biodiversity and windpower generation

Chair: Jette Kjør

Thursday 25 May • 11:00 – 12:30 • Kvitsøy

Offshore wind farms – improving EIA for better decision making

Julia Koeller, Koepfel Johann, Leena Morkel, Wolfgang Peters

EIA and SEA for offshore wind farms in the North Sea

Arend Kolhoff, Geert Draaijers

Models, methods, case studies of impact assessment of wind farms on biodiversity and landscape

Leonardo Marotta, Gianmario Deandrea, Andrea Catorci, Stefano Picchio

Knowledge, uncertainty and action

Inger-Lise Saglie

## CS 5.7 Joint AFF/B&E session: agriculture, forestry and fisheries: relationships with wild biodiversity

Chairs: Patrick Duffy, Helen Byron

Tuesday 23 May • 1500 – 17:00 • Halten

Saving biodiversity in pastoral land: Earthwatch Institute's Samburu Conservation Research Initiative, Kenya

Nicholas Ogue

Impacts of woodfuel production on biodiversity – a case study from Kenya

Michael Koech

Contribution to the environmental impact assessment of the Limbe Power Project: case of the independent valuation of project-affected crops

Wirsiy Eric Fondzenyuy

Discussion on the relationships between agriculture, forestry and fisheries and “wild” biodiversity

## CS 5.8 Capacity building for biodiversity, part I

Chair: Jo Trewick

Thursday 25 May • 9:00 – 10:30 • Halten

CBBIA: progress and highlights

Jo Trewick

CBBIA: getting the process started in Asia

Ahmad Saeed

Making decisions on biodiversity: the challenges faced in southern Africa

Bryony Walmsley, Susie Brownlie, Peter Tarr

Capacity building in SEA and biodiversity in South America

Juan Carlos Garcia De Brigard, Juan David Quintero

## CS 5.9 Capacity building for biodiversity, part 2

Chair: Jo Trewick

Thursday 25 May • 11:00 – 12:30 • Halten

Capacity Building for Biodiversity Inclusive Impact Assessment: the findings of the needs assessment survey in India

Asha Rajvanshi

Development of a guidance tool for professionalizing biodiversity-inclusive EIA

Vinod Mathur, Asha Rajvanshi

Indicators of wetland acidification and their relevance to impact assessment

Elijah Ohimain

The CBBIA project on impact assessment as a tool for regulating activities in and around protected areas for the benefit of biodiversity

Jo Trewick, Graham Tucker

## CS 5.10 Biodiversity and poverty reduction - general

Chairs: Verina Ingram, Leif John Fosse

Thursday 25 May • 14:30 – 16:00 • Halten

Impact of poverty on the environment

Maureen Babu

Sustaining a natural balance: integrating social and community considerations in biodiversity planning

Carolyn McCommon, David Richards, Stuart Anstee

From environmental observation to action?

Anders Ellegård, Bernt Rydgren

The ecosystem approach and regional collaboration: towards achievement of the Millennium Development Goals

Isayvani Naicker

## CS 5.11 Biodiversity and poverty reduction - country and sector cases

Chairs: Verina Ingram, Leif John Fosse

Wednesday 24 May • 16:30 – 18:00 • Kvitsøy

Biodiversity-inclusive screening process for Ghana's EA system

Yaw Amoyaw-Osei

Oil and gas exploration, poverty and environmental unsustainability in the Niger Delta

Elijah Ohimain

Poverty Reduction and MDGs

Verina Ingram

Biodiversity and Poverty Reduction

Ignace Mchallo

## Other events on biodiversity

### Training course

TC 8: Mainstreaming biodiversity in EIA and SEA for improved environmental decisions

## 6

## Circumpolar Day

Simultaneous English-Russian translation provided.

Global warming is gradually expected to cause large changes in climatic, biological and socio-economic life conditions in the Arctic. The Arctic is also a victim of long-range transport of environmental pollution from outside the region, affecting both vulnerable parts of the ecosystem and human health of people living on traditional diets. The need for preservation of biological and cultural diversity presents large and complicated issues. This is the case on all levels of decision making, from strategic assessments to design and development of specific projects.

The circumpolar environment recognizes no national borders; most Arctic ecosystems are circumpolar in nature. This calls for a holistic or at least comparable way of describing, assessing and handling development projects. Through a carefully selected panel of international speakers, IA as an efficient management tool will be presented on circumpolar, regional and project-specific levels, and identification of differences in approach and outcome of assessments and project design will be illustrated with examples from different geographical and thematic areas. The Theme Forum will conclude with recommendations on how to improve the use of impact assessments in the polar regions.

Convenors: Gunnar Sander, Norwegian Polar Institute, and Lars-Otto Reiersen, Arctic Monitoring and Assessment Program, Norway

Consultant: Lars Henrik Larsen, Akvaplan-NIVA, Norway

Wednesday 24 May • 9:00 – 18:00 • Runde

### Morning session

Chair: Sergey Tveritinov (Russia)

Co-chair: Gunnar Sander (Norwegian Polar Institute)

The importance of circumpolar approaches to impact assessment

Gunnar Sander

### Theme 1: Setting the stage

An indigenous view on Arctic challenges

Ole Henrik Magga, Sámi University College

Circumpolar assessments of pollution, climate change and Arctic oil and gas activities

Lars-Otto Reiersen (AMAP, Norway)

The Environmental NGO viewpoints on Arctic challenges (mining, logging, transport, tourism, etc.)

Samantha Smith, WWF

Lessons learned from LaGrande Hydro Complex, Northern Quebec

Peter Leonard, Hydro-Quebec, Canada

Theme 2: Arctic EIA - international recommendations and different traditions

International conventions and Arctic EIA guidelines

Timo Koivurova, Arctic Centre, University of Lapland, Finland



# Technical Program

**Different traditions for EIA in the Arctic nations:**  
*Aleh Cherp, Central European University, Budapest*

- North America
- Europe
- Russia

**Questions and discussion**

**Afternoon session**

*Chair: Robert Connelly (Canada)*

*Co-chair: Liv Østmo (Norway)*

**Theme 3: Environmental impacts**

**Strategic impact assessment in the Barents Sea Management Plan**

*Ingrid Berthinussen (Ministry of the Environment, Norway)*

**Sakhalin 2, Indigenous Peoples' Development Plan – a comparison of international and Russian social impact assessment standards, with a particular focus on Indigenous Peoples' issues**

*Emma Wilson, Ecoworldwide, UK*

**Indigenous people in EIA. A Northern Canadian diamond mine case study.**

*Bill Ross, University of Calgary, Canada*

**Theme 4: Onshore extractive activities (oil and gas, mining, forestry, tourism) - experiences**

**Panel discussion.**

**Theme 5: Cleaning up the radioactive legacy from the past**

**EIA of nuclear projects in Russia as a part of bilateral collaboration**

*Ingar Amundsen (NRPA Statens Strålevern, Norway)*

**Russian EIA of technical plans for nuclear clean-ups**

*Vladimir Nikitin, Onega R&D Technological Bureau, Russia*

*Coffee break*

**Theme 6: The southern part of the globe: Antarctica**

**Environmental challenges and use of EIA in the Antarctica**

*Birgit Njåstad, (Norwegian Polar Institute, Norway)*

**Theme 7: The role of impact assessment in the Arctic**

**Panel discussion and addressing the follow up.**

**Questions to be raised:**

- Is SEA/EIA an appropriate tool for meeting the environmental challenges in the Arctic?
- What are the improvements that should be done to enhance the use of these instruments in the Arctic countries?
- Effects in the Arctic arising from activities outside – is this topic presented in assessments from mid-latitude areas, and how should the Arctic be brought into such assessments?

## Concurrent session on circumpolar issues

### CS 6.1 Arctic and circumpolar

*Chair: Gunnar Sander*

**Thursday 25 May • 9:00 – 10:30 • Runde**

**A Canadian perspective on northern environmental protection issues**

*Jean Tremblay*

**The early years: establishing the environmental management and monitoring programs following EIA at the Snap Lake Diamond Mine in northern Canada**

*Kimberley Horrocks*

**Strategy for sustainable environmental management of Antarctica**

*Berit Balfors, Juan Azcarate*

## 7

## Governance

Good governance requires transparency in decision making processes, loyalty to institutional goals, and honesty and willingness to work for the institutional benefit and the greater public good. Governance also deals with institution building, legal issues and enforcement, and ethics and quality assurance. Bad governance can bring down public confidence and seriously impact negatively on developments. Impact assessment is a key tool in guiding good governance leading to sustainable development. Public participation or consultation in decision making processes stimulates ownership and works as a guarantor of good governance in development projects and helps ensure sustainability of the undertakings. Local community engagement in these processes secures better development outcomes and strengthens democratic ideals. Impact assessment will provide decision makers and participating civil society with the information necessary to reach the best long term development solutions for the community as a whole.

This topical stream will explore the many facets of good governance, public participation in decision making, democratic processes, and how impact assessment can contribute to strengthen these aspects and secure a more sustainable future. The Theme Forum and concurrent sessions will also discuss the potential for using IA to improve political and administrative procedures and decisions, as well as implementation and enforcement issues. A difficult but still important question to discuss in this context is the use of power and how power is manipulated in the communities or governments against the use of IA under a number of circumstances.

*Convener: Peter Tarr*

## Theme forum on governance

### TF 7.1 How to encourage decision makers to make better use of IA as an efficient and transparent planning tool

*Chair: Peter Tarr*

**Wednesday 24 May • 11:00 – 12:30 • Grip**

**Public participation in IA (key lessons from the Calabash project)**

*Peter Croal*

**Adding credibility to the IA process through professional guide-and-review**

*Bryony Walmsley*

**Good legislation does not ensure good decision-making – the case for formalized independent review of decisions**

*Nick King*

**Questions and discussion**

## Concurrent sessions on governance

### CS 7.1 Governance, institution building, the legal basis and enforcement

*Chair: Peter Croal*

**Wednesday 24 May • 14:30 – 16:00 • Terningen**

**The path for a legalized EIA practice in Tanzania: the potential for success and challenges**

*Rubhera Ram Mato*

**The effect of the lack of a national SEA framework in the UK**

*Emma James, Jo Curran*

**An EA step in the right direction? Sociological analysis of impact and benefit agreements in Canada's north**

*Ken Caine, Naomi Krogman*

### CS 7.2 Good governance, environmental policies, methodological advances and public participation

*Chair: Arne Tesli*

**Thursday 25 May • 9:00 – 10:30 • Terningen**

**Statutory guidance for public participation in environmental governance in Tanzania: an assessment of its effectiveness for better environmental assessment and management**

*Jokha Suleiman*

**The role of environmental assessment in enhancing environmental governance: some challenges and opportunities with reference to Tanzania**

*Hussein Sosovele*

**Rights, risks and responsibilities – a governance tool**

*Jeremy Bird, Lawrence Haas, Lyla Mehta*



# Technical Program

## CS 7.3 Good governance in the IA process, quality, credibility and capacity building

Chair: Peter Croal

Thursday 25 May • 14:30 – 16:00 • TERNINGEN

**Working towards quality assurance in impact assessment: from a voluntary to a statutory certification system for environmental assessment practitioners in South Africa**

Susie Brownlie, Jan Glazewski, Marlene Laros, Maitland Seaman

**New tools for effective leadership and education**

Joop Van Bergen

**Environmental capacity development in the Spanish public sector: an evaluation of environmental assessment's potential to produce institutional reform**

Pilar Clemente-Fernández, Dick Cobb

**Evaluation of the Austrian EIA system in terms of quality**

Astrid Merl

## CS 7.4 Legacy, enforcement of laws and regulations, governance issues

Chair: Monica Hale

Thursday 25 May • 11:00 – 12:30 • TERNINGEN

**NEPA improvement or dismemberment? An analysis of the report of the Task Force on Improving and Updating the US National Environmental Policy Act**

Richard Grassetti

**Facing the past: legacy issues and impact assessment on a major hydropower project in Tajikistan**

James Ramsay, Claudia Eckhardt

**Institutionalization of EIA tools and steps in sectoral agencies, Ethiopia**

Abdissa Megersa

## 8

## Poverty reduction and the millennium development goals

Poverty is the lack of freedom to meet one's basic needs and those of one's family. Hunger, disease, violence and vulnerability are the fate of at least 1.2 billion people living in absolute poverty today. But many more are poor in this world, because poverty is not having access to school and not knowing how to read, it is not having a job, and fear for the future, living a day at a time. Poverty is powerlessness, lack of representation and freedom. The United Nations adopted a set of global development goals in 2000 that seek to halve the world's poverty by 2015. These Millennium Development Goals states that basic education for boys and girls, gender equality, health, combating communicable diseases,

environmental concerns and sustainable development shall be the guiding principles for all. Impact assessment has a role to play in reaching these goals, and poverty is therefore a central theme in this year's IAIA conference.

This topical stream provides an important opportunity for all institutions and individuals interested in poverty reduction and sustainable development, and the role impact assessment can play to reduce poverty.

The purpose of these Theme Forums and the subsequent concurrent sessions is to raise the debate regarding the relationship between the urgent need for improved data and basis for decisions to be made that will lead to adequate measures for poverty eradication, in the context of the Millennium Development Goals, and the role that can, and should be played, by impact assessment. In this context two types of poverty are considered:

1. Absolute poverty, understood as the 1 USD/day household / individual
2. Relative poverty, or the poverty associated with urban social distresses such as social fragmentation, exclusion, situations that generate drug and alcohol abuse, often resulting from unemployment and other urban segregation factors.

Co-conveners: Maria Rosario Partidario, Portugal, Arne Dalfelt, Norway

## Theme Forums on poverty reduction and the Millennium Development Goals

### TF 8.1 Poverty reduction and the Millennium Development Goals: How can an impact assessor contribute?

Chair: Maria Rosário Partidário

Tuesday 23 May • 12:30 - 14:30 • GRIP

**Setting the stage: MDG and the global response**

Olav Kjørven, UNDP, New York

**Development assistance: assessing the impacts, and the way forward**

Poul Engberg-Pedersen, Norwegian Agency for International Development (NORAD)

**Urban poverty and climate impacts**

Fabio Feldmann, Executive Secretary, Sao Paulo Forum on Climate Change, Brazil

Questions and discussion

### TF 8.2 Is development assistance having a positive impact in reducing absolute poverty and the gap between the rich and the poor, or is it counterproductive in the long run? Can impact assessors play a positive role?

Chair: Charlotte Bingham

Wednesday 24 May • 9:00 - 10:30 • GRIP

**Duel**

Rob Verheem: The development assistance provider – let's give more

Richard Morgan: The skeptic – development assistance is counterproductive

**Panel**

Linda Ghanime, UNDP, New York

Hans Olav Ibrekk, NORAD, Norway

Jonathan Allotey, Ghana

John Boyle, World Bank

Dieudonne Bitondo, Cameroon

Anne Kari Ovind, Norway

### TF 8.3: Social fragmentation, lack of integration, marginalization. Is relative poverty happening in our urban developed societies? Do we understand the long term impacts? Should the world worry about Relative poverty when Absolute poverty is so widespread? Can impact assessors do something about it?

Chair: Peter Tarr

Thursday 25 May • 16:30 – 18:00 • GRIP

Background and statistics:

NIBR: Arne Tesli / Geir Orderud

Moderator: Charlotte Bingham

**Panel**

Elvis Au, Hong Kong

Bryony Walmsley, South Africa

Hans Olav Ibrekk, Norway

Markus Eggenberger, Viet Nam

Izabella Teixeira, Brazil

Summing up and looking towards the future

Charlotte Bingham

## Concurrent sessions on poverty reduction and the Millennium Development Goals

### CS 8.1 Development and poverty reduction, session I

Chair: Charlotte Bingham

Tuesday 23 May • 15:00 – 17:00 • GRIP

**Impact assessment and comprehensive planning of a development project: the hydroelectric project La Parota Case**

Francisco-Javier Hernández-Álvarez, Guillermo Zúñiga-Gutiérrez



# Technical Program

**Poverty impact: evidence of communication effectiveness**

*Bridget McBean*

**Monitoring of environmental and social questions in the National Hydropower Programme in Vietnam**

*Hans-Georg Wallentinus, Karin Isaksson*

## CS 8.2 Development and poverty reduction, session 2

*Chair: Hans Olav Ibrekk*

**Thursday 25 May • 9:00 – 10:30 • Lindesnes A**

**Environmental integration in EC development cooperation programming: experiences in the use of country environmental profiles**

*Juan Palerm, Jean-Paul Ledan, Peter Brinn*

**Impact assessment in wetlands management as solution to poverty**

*Kokou Edem Nyanutse*

**Capacity for environmental review of small-scale activities, key concepts and lessons learned**

*Mark Stoughton, Weston Fisher*

## CS 8.3 Assessing the resource sector's impact on sustainable development

**Workshop**

*Chair: Sandra Seru*

**Thursday 25 May • 11:00 – 12:30 • Tungenes A**

**Critical load and level approach for assessment of ecosystems risks in EIA: promises and challenges**

*Olga Demidova, Vladimir Bashkin*

**Assessment for sustainable development: theoretical framework and mining sector case studies from Canada, Namibia, and South Africa**

*Theo Hacking, Peter Guthrie*

**Hazardous waste landfill in Mexico and its relationship with poverty and social conflicts**

*Grethel Villicaña, Martín Quijano*

## CS 8.4 SEA in developing countries: experiences and perspectives, session 1

*Chair: Izabella Teixeira, Suphakij Nuntavorakarn*

**Wednesday 24 May • 14:30 – 16:00 • Tungenes**

**SEA in developing countries: an overview**

*Izabella Teixeira*

**Reflections and Perspectives**

*Maria Partidario*

**Integrating environmental concerns in development planning process: the case of Ghana**

*Ebenezer Appah-Sampong*

**Development of EIA for plans and programmes in China**

*Haisheng Li*

## CS 8.5 SEA in developing countries: experiences and perspectives, session 2

*Chair: Izabella Teixeira, Suphakij Nuntavorakarn*

**Wednesday 24 May • 16:30 – 18:00 • Tungenes**

**The first step in a long journey: progress and reflection on recent SEA initiatives in Thailand**

*Suphakij Nuntavorakarn, Decharut Sukkumnoed, Sombat Haesakul*

**Environmental and social risk assessment of Lake Chad Basin ecosystem**

*Charlie Wolf*

**Q&A and open discussion**

**The advancement of SEA in Madagascar**

*Paul Andrianaivomahefa*

# 9

## Tool development

UNEP and IIED will present their recent work and future activities on integrated assessment and sustainability appraisal, respectively.

Following consultative meetings with governments and agencies in 2005 and 2006, UNEP has been exploring with a range of countries and other organisations modalities for an initiative to develop a reference manual for integrated assessment/sustainability appraisal. The manual would cover analytical approaches that can be used to integrate or inter-relate the environmental, social and economic pillars of sustainability into decision-making on proposed initiatives (at any level from policy to project). Progress with this initiative will be reported and the key opportunities and challenges presented.

UNEP will also report on the outcome and lessons that can inform the framework initiative derived from nine recent country projects on integrated assessment.

For the past 18 months, IIED has been undertaking a review of international experience and practice in sustainability appraisal (SA), with support from the Norwegian Ministry of Foreign Affairs. IIED is preparing a source-book and reference guide due for publication later in 2006. The authors will present key findings which will provide a baseline for IIED's plans to continue its work to develop and test a framework for sustainability appraisal. This on-going work will include developing a 'consumer guide' to ways to integrate environment to support the MDGs. These presentations will be followed by debate covering:

- Integrated assessment/sustainability appraisal as a tool for poverty reduction and achieving the MDGs
- Capacity-building, institutional and human resource requirements at the national level
- Key sectors for applications (energy, agri-

culture, fisheries, tourism, etc)

- Role of international organizations, development assistance organizations, financial institutions, NGOs to promote integrated assessment /sustainability appraisal

*Convenors: Hussein Abaza, Barry Dalal-Clayton and Barry Sadler*

## Theme Forum on tool development

### TF 9.1 From project assessments to sustainability appraisal

*Chair: Hussein Abaza*

**Thursday 25 May • 16:30 – 18:00 • Dyna**

**Sustainability appraisal as a tool for poverty reduction and achieving the MDGs**

*Barry Dalal-Clayton*

**Key sectors for application of and role of international organizations, development assistance organizations, financial institutions and NGOs**

*Barry Sadler*

**Capacity building, institutional and human resource requirements**

*Hussein Abaza*

## Concurrent session on tool development

### CS 9.1 Tool development

*Chair: Hussein Abaza*

**Thursday 25 May • 14:30 – 16:00 • Grip**

**Integrated assessment and planning or strategies for sustainable development?**

*Aleh Cherp*

**Integrating IA guidelines for the Oman oil and gas sector: a best practice process based on multi-stakeholder consultation**

*Deirdre Lapin*

**The contribution of environmental assessment to sustainable development: towards a richer empirical understanding**

*Matthew Cashmore, Alan Bond, Dick Cobb*

**Soils and SEA**

*Rob Askew, Jo Curran, Emma James*

## Other events on tool development

### Training courses

**TC 1: Practical guide to effective IA follow-up**

**TC 6: Professional ethics in environmental assessment**

**TC 10: Practical guide to sustainability assessment**



# Technical Program

10

## Agriculture, forestry and fisheries

The application of EIA to agriculture, forestry, and fisheries will be featured in twelve papers from five continents, placing the focus on these sectors which have been relatively ignored until recently. Reports will be given from Cameroon, Vietnam, USA and Peru, among other nations.

The papers are arranged by sector and include a useful mix of policy, conceptual frameworks, technology, surrogates to EIA, cumulative effects assessment, and success stories. Presenters are from developing countries, FAO, academics, NOAA of the USA, and consultancies.

Apart from moving the papers to publication, an effort will be made to write recommendations to funding agencies to sponsor follow-up on particularly deserving projects described in these sessions. "Next steps" will therefore be a part of our meetings at Stavanger.

Elsewhere in the program, the Biodiversity Section and the AFF Section will hold a joint meeting on the critical issues of biodiversity losses brought on by chronic and damaging practices in the three sectors.

The AFF section is a three-year-old fledgling and new members are welcome as we seek to improve the environmental, social, and economic performance in agriculture, forestry, and fisheries.

*Section coordinator: Patrick Duffy*

### Concurrent sessions on agriculture, forestry and fisheries

#### CS 10.1 EIA and agriculture

*Chair: Michael Koeh*

**Thursday 25 May • 9:00 – 10:30 • Lindesnes C**

##### Success stories in the application of EIA to agriculture, forestry and fisheries

**Impact assessment of natural resources management technologies in crop-livestock systems in arid and semi-arid areas**  
*Abdelali Laamari*

**PRA and EIA: a powerful combination for agricultural and rural development**  
*Patrick Duffy, Eve Crowley*

**Developing a policy-relevant framework to assess the social consequences of technological developments in agriculture**  
*Frank Vanclay, Wendy Russell, Heather Aslin*

**Caprivi Sugar case study**  
*Peter W Tarr*

#### CS 10.2 EIA and forestry

*Chair: W K (Bill) Klassen*

**Thursday 25 May • 11:00 – 12:30 • Lindesnes C**

**Integrating environmental assessment and GIS technologies to support participatory decision making for forest resources in developing countries**

*Emily Weeks*

**SEIA in Peru and the identification of required capacities for HIS effective application in the agriculture and forestry sector**  
*Pedro Flores*

**Forest stewardship certification and impact assessment practice in New Zealand forestry companies**

*Richard Morgan, Andrew Hart*

**Conceptual and methodological framework for the integrated assessment of forestry management plans**

*Dieudonne Bitondo, Laura Russo*

#### CS 10.3 EIA and fisheries

*Chair: Pamela Gunther*

**Thursday 25 May • 14:30 – 16:00 • Classroom 4**

**Agriculture, forestry and fisheries: relationships**

**Promoting sustainability of marine fisheries through impact assessment**

*Sarah Gurtman, Larry Canter, Sarah Thompson*

**Cumulative effects assessment for fisheries management plans**

*Sarah Gurtman, David Tomey, Anthony Morton, Larry Canter, Jennifer Anderson*

**Integrating knowledge on fisheries impacts through environmental assessment**

*Mark Curtis*

**Environmental implications of land administration and land reform projects: some lessons learned**

*George Ledec*

### Other events on agriculture, forestry and fisheries

#### Technical visit

**TV D: Ryfylke fjord: coastal zone management and fish farming**

11

## Disasters and conflicts

The Disasters and Conflict Section regularly sponsors a session at the annual IAIA meetings to highlight the importance of environmental impact assessment in planning for and addressing different types of disasters and other crisis events. The number of papers each year has remained small with respect to the overall number of papers presented at

the annual meetings. However, the Section believes that persistence in highlighting that good impact assessments, which consider the likelihood of disasters and other crisis, will lead to better and more sustainable development. Papers from previous sessions on disasters, crisis and environmental impact can be found at the Rapid Environmental Impact Assessment Project web site:

([http://www.frameweb.org/ev.php?ID=7987\\_201&ID2=DO\\_TOPIC](http://www.frameweb.org/ev.php?ID=7987_201&ID2=DO_TOPIC))

*Section coordinators: Charles Kelly, Michel Bouchard*

### Concurrent session on disasters and conflicts

#### CS 11.1 The impact of conflict, disasters and other extreme events impact

*Chair: Michel Bouchard*

**Tuesday 23 May • 15:00 – 17:00 • Tungenes**

**Conflict impact assessment and risk management in practice: oil companies working in developing countries**

*Luz Angela Pinilla Urzola, Henry Correa*

**Integrating EIA in post-conflict countries**  
*George Bouma, Grant Wroe-Street*

**SEA in conflict-affected countries**  
*Rob Verheem*

12

## Environmental management systems

An Environmental Management System (EMS) is a tool that can be used to promote business greening, to monitor compliance with applicable regulations and standards, and to work toward environmental sustainability. During development of its EMS, a corporation should undertake a detailed process to identify activities that create environmental impacts and develop specific goals, objectives and targets to address significant impacts. Key performance indicators can be developed within a corporate or project-level EMS to assist with measuring and demonstrating success in meeting EMS objectives. Responsible practices suggest that corporations should not only ensure their projects are environmentally sustainable through the use of impact assessment, but they should also manage their own corporate environmental impacts through the development of an EMS.



# Technical Program

These sessions will provide opportunities to discuss practical applications of EMS and how the use of EMS can help promote transparency and accountability of project sponsor activities.

*Section coordinator: Debra Zanewich*

## Concurrent sessions on environmental management systems

### CS 12.1 Environmental management systems, session 1

*Chair: Debra Zanewich*

**Tuesday 23 May • 15:00 – 17:00p • Classroom 2**

**Sustainable integrated forest management mountain forest**

*Pius Adeniyi*

**The EIA and the environmental management at the Miravalles geothermal field after 12 years of exploitation**

*Harman Guido-Sequeira*

**Tracking EIA applications in South Africa**

*Anbendren Pillay*

**Lessons learned for the Total Water Quality Management (TWQM) system**

*Jong-Gwan Jung, Sang-Jin Yi*

### CS 12.2 Environmental management systems, session 2

*Chair: Debra Zanewich*

**Wednesday 24 May • 14:30 – 16:00 • Classroom 2**

**Examining the effectiveness of environmental management systems in practice**

*Tracey Nitz*

**Integration of environmental management system and EIA in the Swedish National Rail Administration**

*Kristina Lundberg, Berit Balfors, Lennart Folkesson*

**Environmental administration system as a tool to improve the environment impact assessment**

*Hartman Guido-Sequeira*

**Environmental management and environmental management tools in practice: the view of the environmental managers**

*Tracey Nitz, Lex Brown*

**Links between environmental impact assessment and environmental management systems: a conceptual framework**

*Justin Krijnen*

## 13 Health impact assessment

Due to the growing knowledge, policies, and practices on Health Impact Assessment (HIA) in various countries and institutions around the world, the HIA stream this year will cover many key aspects of HIA development. The development of HIA national systems and HIA institutionalization will be presented and discussed. Another session is devoted to the issues surrounding strategic HIA and addressing health in SEA.

As social determinants of health have been increasingly recognized as the vital “cause of the causes” of health problems, a session is planned for case presentations and discussion of its applications. Moreover, different methods and tools related to HIA will be presented and also several cases of HIA practices will be shared and discussed, including the case of Statoil and the Potash mining project in Thailand. In addition, concepts and approaches are dealt with in the HIA Kaleidoscope session as well.

Particular for this year, a specific session is arranged for presentations of HIA in each Nordic country with the discussion on different strategies for mainstreaming HIA into decision making processes. Lastly, the Health stream will be concluded in the session on Principles and Practices of HIA IAIA “Principles” document, where the draft document will be circulated in advance through HIA Listserv and also posted on the IAIA website in the HIA Section.

*Section coordinator: Lea den Broeder, Suphakij Nuntavorakarn*

## Concurrent sessions on health impact assessment

### CS 13.1 HIA institutionalization and national system

*Chair: Lea den Broeder*

**Tuesday 23 May • 15:00 – 17:00 • Classroom 3**

**A national policy on health impact assessment in Lao PDR – a contribution towards sustainable development and poverty reduction**

*Peter Furu, Bounlay Phommassack, Robert Bos, Yanyong Inmuong, Soutsakhone Chanthaphone*

**HIA institutionalization in Thailand: the struggle of power and rationality in public policy processes**

*Decharut Sukkumnoed, Wiput Phoolcharoen, Suphakij Nuntavorakarn*

**Evaluating the roll-out of HIA in New Zealand**

*Robert Quigley, Martin Ward, Barbara Langford*

**Pre-screening? Developing realistic approaches to the system-wide use of HIA**

*Ben Harris-Roxas, Patrick Harris, Lynn Kemp, Elizabeth Harris*

### CS 13.2 Concept and case of strategic HIA

*Chair: Wiput Phoolcharoen*

**Wednesday 24 May • 14:30 – 16:00 • Classroom 3**

**Health impact assessment and health promotion**

*Robert Bos*

**Future strategies for addressing health in SEA**

*Alan Bond, Ben Cave, Marco Martuzzi, Suphakij Nuntavorakarn*

**Making a healthier choice an easier choice: the roles of HIA and institutional analysis in Thai renewable energy policy**

*Decharut Sukkumnoed, Suphakij Nuntavorakarn*

### CS 13.3 HIA: methods and tools

*Chair: Martin Birley*

**Wednesday 24 May • 14:30 – 16:00 • Classroom 4**

**Impact pathway approach to health impact assessment: examples of European research projects**

*Alena Bartonova, David Briggs, Peter Van Den Hazel, Jozef M Pacyna*

**Health impacts of the built environment**

*Teresa Lavin*

**Environmental burden of disease studies – differences explored**

*Anne Knol, Elise Van Kempen, Brigit Staatsen*

**Guide to reviewing published evidence for use in health impact assessment**

*Jennifer Mindell, Lorraine Taylor, Karen Lock, Mike Joffe, Sarah Curtis, Annette Boaz, Anna Boltong, Jane Biddulph*

### CS 13.4 Social determinants and HIA

*Chair: Ben Cave*

**Wednesday 24 May • 16:30 – 18:00 • Classroom 3**

**Addressing socio-economic determinants in HIA**

*Marco Martuzzi*

**Health as if the poor matter: the roles of HIA and social determinants of health in Thailand's poverty alleviation policy**

*Nuntana Sabrum, Decharut Sukkumnoed*

**Towards a model for obesity-focused HIA**

*Harry Rutter, Lea Den Broeder, Lennert Veerman, Jantine Schuit*

### CS 13.5 HIA in Nordic countries

*Chair: Arne Marius Fosse*

**Wednesday 24 May • 16:30 – 18:00 • Classroom 4**

**Discussion on strategies, status and experiences with implementing HIA in Sweden, Denmark, Finland and Norway**

*Arne Marius Fosse*

**Human impact assessment – from quality to effectiveness**

*Kirsi Nelimarkka, Tapani Kauppinen, Kerttu Perttilä*



# Technical Program

## CS 13.6 HIA kaleidoscope

Chair: Alan Bond

Thursday 25 May • 9:00 – 10:30 • Classroom 3

Post-Normal Science, Local Lay Knowledge and Plural Rationalities

Salim Vohra

Consideration of climate change for Arctic Indigenous Peoples in health impact assessment

Diane McClymont Peace, Peter Berry, Sandra Owens

Successes in impact assessment's contribution to Millennium Development Goal 6: a review of the assessment of HIV/AIDS impacts of development projects

Vasna Ramasar

## CS 13.7 HIA : practices and training

Chair: Peter Furu

Thursday 25 May • 11:00 – 12:30 • Classroom 3

Health impacts from unleaded gasoline: lead astray?

Luc Int Panis, Leo De Nocker, Rudi Torfs

Local empowerment through health impact assessment: case study of Potash Mining Project at Udon Thani Province, Thailand

Somporn Pengkam

A strategy for integrating health impact assessment into a business/project organisation

Liv-Torill Austgulen

Web-based training for health impact assessment

Diane McClymont Peace, Pierre Gosselin, Roy Kwiatkowski

## CS 13.8 Roundtable on the principles and practices of HIA

Chair: Robert Quigley

Thursday 25 May • 14:30 – 16:00 • Classroom 3

Debating the principles and practice of health impact assessment: IAIA principles document

Robert Quigley, Alan Bond

## Other events on health impact assessment

### Pre-conference meeting

Joint HIA/SIA workshop – integration: theory and practice

## 14

## Public participation

Public participation in impact assessment is growing. In many countries and regions, the focus is shifting from information provision towards consultation and active involvement. New spaces of governance are created, where values and political power are expressed. Hybrid forums, multi-actor focus groups, fol-

low-up committees, and Internet discussion groups are amongst these new spaces, as well as more traditional participation practices. Objectives of public participation seem to be moving towards creating conditions for good governance, social learning and empowerment of stakeholder groups.

During the sessions on public participation, we would like to:

- Share the ways public participation, through traditional and new spaces of governance, may contribute to poverty reduction and empower communities towards a more sustainable environment.
- Learn the institutional and organisational design of these new spaces of governance.
- Identify and debate the ethical challenges in public participation.
- Learn about new methods and instruments.
- Hear case studies from around the world having experienced some ways, traditional or new, of public participation in IA.

In the PP sessions, EIA practitioners share their experience with awareness raising and active involvement of stakeholder groups, tell about the progress of PP in several parts of the world, discuss examples of 'new spaces of governance' and social learning. We expect this forum to bring to the agenda new challenges in public participation and capacity-building, and that it will improve networking for a better practice.

Section coordinators: Pierre André and Bert Enserink

## Concurrent sessions on public participation

### CS 14.1 Public participation at grass roots level

Chair: Bert Enserink

Wednesday 24 May • 14:30 – 16:00 • Hall C, Marstein

Data collection by the people, from the people and for EIA

Oritsetimeyin Dada

Environmental assessments of water projects at community level in South Sudan: from donor requirement to community practice

Douglas Ouma

Power, poverty, and public awareness: addressing electrical safety issues in Moldova

Elizabeth Smith, Lutz Blank

### CS 14.2 Public participation and good governance

Chair: Bert Enserink

Wednesday 24 May • 16:30 – 18:00 • Hall C, Marstein

Good governance and public participation in impact assessment of petroleum development

projects in Nigeria: addressing poverty eradication in, and sustainable development of, the Delta Region

Edward Bristol-Alagbariya

Governance and public participation in China: towards a sustainable urbanization strategy

Bert Enserink, Joop Koppenjan

Development of public participation in environmental impact assessment in Thailand

Indhira Euamonlachart

Public involvement for sustainable society and SEA

Sachihiko Harashina

### CS 14.3 Public participation: new spaces of governance

Chair: Bert Enserink

Thursday 25 May • 09:00 – 10:30 • Hall C, Marstein

Is there value in public participation processes in environmental assessment decision making?

Monique Sham, Claudia Holgate

Mediated representativity in agenda setting and policy analysis: the VPA AIDS and rural development

Loes Witteveen, Bert Enserink, Rico Lie

Time for a new approach to environmental assessments: promoting cooperation and consensus for sustainability

John Sinclair, Meinhard Doelle

Collaborative problem solving in public participation: changing the interpretation of the World Bank Inspection Panel's Rules of Conduct

Kadri Sirg

### CS 14.4 Public participation and learning

Chair: Bert Enserink

Thursday 25 May • 11:00 – 12:30 • Hall C, Marstein

Learning through participation in EA: case studies from Canada

Patricia Fitzpatrick

Public consultation or the empowerment of elderly men?

Charlotta Faith-Ell, Yvonne Jacobsson

Planning hydroelectric power plants with the public: a case of organizational and social learning in Mexico

Basilio Verduzco-Chavez

### CS 14.5 Public participation large projects

Chair: Bert Enserink

Thursday 25 May • 14:30 – 16:00 • Hall C, Marstein

Consensus building process of making a waste management plan – a case study on Chushin Area in Nagano Prefecture, Japan

Youhei Sunaga, Sachihiko Harashina

Public participation around mainports: the Schiphol case

Irene Van Kamp, Kees Leidelmeier, Danny Houthuijs, Femma Van Breejen, Oscar Breugelmans, Rebecca Stellato, Carla Van Wiechen



# Technical Program

**EIA for dummies – a Web-based toolkit for improving public participation**

*Nick King*

**Technology and public participation methods**

*Ainhoa Gonzalez, Alan Gilmer, Ronan Foley, John Sweeney, John Fry*

## Other events on public participation

### Training course

**TC 5: Public participation in environmental assessment**

## 15

## Social impact assessment

This stream of sessions, which has been included in the program for many years, will explore current issues which matter to SIA practitioners and to a more global audience. This year, SIA practitioners have been particularly invited to present papers on integrated assessment, a critical issue which has been highlighted at recent IAIA meetings and which has many important implications for SIA. During the first session, this issue will be explored at a more global level in several national contexts and for specific types of assessments such as life cycle assessment and land use planning. At that first session, the important problems faced by European SIA practitioners and which are shared by others working in several parts of the world, regarding the status of SIA (among other issues), will be explored. In these national contexts, the integration of SIA in overall EIA often turns out as problematical or is perceived as such. EIA practitioners more generally interested by issues of integration and the status of SIA inside EIA are invited to attend this session, as well as the last one. During the second session, project-level EIAs will be presented. Their interface with overall EIAs will be discussed, along with other important issues for SIA practitioners such as the role of public consultation and the involvement of aboriginal (or first) nations. The third session will explore another important field where the integration of SIA within EIA is viewed as challenging, namely the contribution of SIA to land management. At the end of that third session, participants will be invited to discuss the recurrent themes of the three SIA sessions.

In addition to the three SIA paper sessions, one SIA Roundtable session will be devoted to facilitate discussion of issues on the theme of “empowering people to participate in SIAs.” This session is totally participatory and involves no prepared papers.

*Section coordinator: James Baines*

## Concurrent sessions on social impact assessment

### CS 15.1 SIA I – challenges raised by the integration of social impact assessment in EIA

*Chair: Pierre Senécal*

**Wednesday 24 May • 16:30 – 18:00 • Terningen**

**Towards social indicators for project life cycle management purposes**

*Alan Brent, Carin Labuschagne*

**Social impact assessment in regional land-use planning**

*Rauno Sairinen, Timo Heikkinen*

**The impact of a non-legislative framework of SIA**

*Wouter Verheyen*

### CS 15.2 SIA II – social impact assessments integrated in project level EIAs

*Chair: Pierre Senécal*

**Thursday 25 May • 09:00 – 10:30 • Grip**

**Power to the people – lessons learned in linear social impact assessments in South Africa**

*Ilse Aucamp*

**Issues and impacts generated by a road network in a remote area – Hydro-Québec's Northern Access Follow-Up Program**

*Pierre Senécal*

**Socio-economic impact assessment mitigation for Aboriginal Peoples in Canada**

*Heidi Klein, Tomasz Włodarczyk*

### CS 15.3 SIA III – contributions of social impact assessment to land management issues

*Chair: Pierre Senécal*

**Thursday 25 May • 11:00 – 12:30 • Grip**

**Instituting community involvement: the role of social impact assessment (SIA) in urban regeneration in Hong Kong**

*Winnie Law*

**Social impacts of the second home boom: the case of the Jersey Shore**

*Wes Roehl*

### CS 15.4 Empowering people to participate in SIAs

**Roundtable**

*Chair: James Baines*

**Thursday 25 May • 14:30 – 16:00 • Tungenes**

## Other events on social impact assessment

### Training course

**TC 4: The concepts, process and methods of social impact assessment: a basic course**

### Pre-conference meeting

**Joint HIA/SIA workshop – integration: theory and practice**

## 16

## Strategic environmental assessment

Previous IAIA conferences have shown that SEA has developed quickly over the past decade. Whereas in the mid-1990s, it was only sporadically applied in few countries and systems, it now has become an established policy, plan and programme support instrument that is used in many countries, in a wide range of different situations and by different administrations and bodies. SEA now encompasses many instruments that differ in terms of the methods and techniques used, scope and elements covered. This became very clear during the 2005 Prague IAIA SEA thematic meeting. Whilst Prague showed that there has been some considerable progress in developing SEA quality and effectiveness, there are a number of aspects that need improving. These include:

- The effective implementation of SEA, particularly focusing on jurisdiction specific guidance; generic effectiveness or performance criteria (such as the IAIA SEA performance criteria)
- The effective communication in the SEA process and on the SEA results with decision makers and other stakeholders
- The adaptation of SEA to specific contexts and systems, so that SEA is fit for purpose; in this context, we particularly need to know more regarding SEA at the policy level.
- The delivery of better outcomes through objectives-led and tiered SEA and systematic follow-up
- The role of SEA in safeguarding of the environment

At the Stavanger conference, we envisage sessions with different formats, including paper based and debate based sessions.

*Section coordinator: Thomas Fischer*



# Technical Program

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## CS 16.1 Transport SEA

Chair: Ralf Aschemann

**Tuesday 23 May • 15:00 – 17:00 • Dyna**

A practical example of tiering – linking SEA of different levels of transport and land use planning in Wales

*Monica Fundingsland Tetlow, Robert Gardner*

Strategic environmental assessment and landscape fragmentation

*Petr Andil*

Transposition of the European SEA Directive and implications for English local transport plans

*Monica Fundingsland Tetlow*

Tiering SEA and project EIA: lessons from highway planning in São Paulo, Brazil

*Luis Sánchez, Solange Silva-Sánchez*

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## CS 16.2 SEA guidance and its development

Chair: Wolfgang Wende

**Thursday 25 May • 14:30 – 16:00 • Dyna**

Scoping for SEA in The Netherlands: generic or tailor made?

*Marja Van Eck, Rob Verheem*

Development and implementation of Strategic Environmental Assessment (SEA) in Korea

*Young-Il Song, Hyun-Woo Lee, Kwan-Kyoo Lee, Yong-Joon Joo, Sujin Bae, Sang-Wook Han*

SEA Directive in Swedish detailed planning: role, effectiveness and efficiency

*Ida Tölander, Charlotta Faith-Ell*

SEA Handbook for EU Cohesion Policy for 2007-2013

*Jiri Dusik, Austra Jurkeviciute*

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## CS 16.3 SEA tiering and monitoring

Chair: Jos Arts

**Thursday 25 May • 14:30 – 16:00 • Lindesnes C**

Ideas for a conceptual approach for SEA monitoring of regional plans

*Marie Hanusch*

Linking SEA follow-up with EMS in local authorities

*Aleh Cherp, Sara Emilsson, Olof Hjelm*

Criteria for indicator selection for use in SEA

*Alison Donnelly, Mike Jones, Tadhg O'Mahony, Gerry Byrne*

Policy-level Strategic Environmental Assessment (SEA): completing the cycle

*Charles Alton, Benjamin Underwood*

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## CS 16.4 Other SEA applications

Chair: Jean-Philippe Waaub

**Thursday 25 May • 09:00 – 10:30 • Dyna**

Strategic environmental assessment implementation in China – a case of SEA for national economy and society development plan

*Jing Wu, He Xu*

Strategic environmental guidelines for sustainable rural water and sanitation delivery in Ghana

*Richmond Amoako, Emmanuel Acquah, Seth Larmie*

Preliminary SEA of great Western development strategy in China

*Wei Li*

Capacity development for SEA application in the Newly Independent States (NIS)

*Henrieta Martonakova, Jiri Dusik, Austra Jurkeviciute*

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## CS 16.5 Theory behind SEA: Enhancing SEA's effectiveness

Chair: Olivia Bina

**Thursday 25 May • 09:00 – 10:30 • Utsira**

How strategic environmental assessment becomes successful environmental assessment

*Hens Runhaar, Peter Driessen*

Effective SEA in Italy and in the UK

*Paola Gazzola*

The emperor's new clothes – reflections on SEA practice in South Africa

*Francois Retief, Carys Jones, Stephen Jones*

Sustainability assessment: lessons from the EU bioscience project

*William Sheate, Maria Rosário Partidário, Olivia Bina, Helen Byron*

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## CS 16.6 SEA methods and techniques/capacity building

Chair: Paola Gazzola

**Thursday 25 May • 11:00 – 12:30 • Dyna**

How to make words count

*Kerstin Arbter*

From theory to reality: landscape indicator assessment and mapping

*Lianda d'Auria*

Alternatives, options and scenarios in strategic environmental assessment

*Margaret Desmond*

Using the new manual on SEA from EUTREN in finding better ways of working in regional transport planning

*Inga-Maj Eriksson*

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## CS 16.7 SEA in the World Bank

Chair: Paula Posas

**Thursday 25 May • 11:00 – 12:30 • Utsira**

SEA at the World Bank: evolution in SEA approaches

*Kulsum Ahmed*

Outcome of an *ex-post* review of SEA and SEA-like processes at the World Bank 1995-2002

*Jean-Roger Mercier, Poonam Pillai, Rob Verheem*

Strategic environmental assessment of the New Forest Bill in Kenya

*Fernando Loayza, Chandrasekharan Diji*

SEA legislation: results of a nine-country review

*Kulsum Ahmed, Yvonne Fiadjoe*

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## CS 16.8 SEA in spatial/land use planning

Chair: Ingrid Belcakova

**Thursday 25 May • 14:30 – 16:00 • Utsira**

SEA on land use planning toward sustainability

*Jong Ho Lee, Tae Geun Kim, Sang Pyo Hong, Kwang Yul Kim*

Enhancing sustainable territorial systems integrating Strategic Environmental Assessment (SEA) into territorial planning in case of the new Hungarian Spatial Development Concept (RDC)

*Marton Peti, Geza Salamin*

The role of SEA in a complex planning situation

*Kristina L Nilsson, Anders Hedlund*

Good practices in SEA of spatial plans in Sweden and The Netherlands

*Sandra Rihm, Luis Martins Dias*

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## CS 16.9 Learning and governance I

Chair: Lone Kørnøv

**Tuesday 23 May • 15:00 – 17:00 • Utsira**

Role of SEA in transitional countries: return of planning?

*Olena Borysova*

Capacity building for SEA in Brazil: initial considerations for effective SEA implementation

*Denis Kirchhoff*

Towards a framework for *ex-post* SEA: a theoretical exploration

*Åsa Persson, Måns Nilsson*

Sustainability assessment: a dialogue of the deaf or a social learning process?

*Jenny Pope*

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## CS 16.10 Learning and governance II

Chair: Holger Dalkmann

**Wednesday 24 May • 14:30 – 16:00 • Lindesnes C**

Beyond hurdle jumping: managing the impact assessment process for environmental performance

*Jos Arts, Angus Morrison-Saunders*

Do nothing – but do it well: experience from SEA practice

*Angus Morrison-Saunders, Ross Marshall*

Scenario-based approaches in strategic environmental assessments

*Samuel Bartlett, Bjørn Brunstad*

Three models of potential innovative collaboration in SEA?

*Elsa João*

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## CS 16.11 Learning and governance III

Chairs: Holger Dalkmann/ Lone Kørnøv

**Wednesday 24 May • 16:30 – 18:00 • Utsira**

The role of SEA in evaluating Local A21

*Jean-Philippe Waaub, Émilie Thuillier*



# Technical Program

## Norwegian and Nordic perspectives on the linkages between EIA and SEA

*Arne Tesli, Tor Lerstang*

## The EIA and SEA as instruments of democratization in countries with economy in transition. Role of NGOs in implementation of EIA and SEA

*Nune Darbinyan, Hrach Ashikyan*

## CS 16.12 Introducing SEA in different systems and countries

*Chair: Paola Gazzola*

**Thursday 25 May • 11:00 – 12:30 • Tungenes B**

### Importance of SEA for Mining Regions–The Serbian Example

*Tamara Maricic, Bosko Josimovic*

### Improving EIA to enable SEA

*Maria Partidário*

### An analytical overview of SEA framework in Kenya

*Vincent Onyango*

### Introducing the SEA-like approaches into the environmental assessment of master plans in the Russian Federation: the example of Kazan City Master Plan [pilot project]

*Alexander Zhurba, Sergey Vasiliev, Eduard Baibakov, Marina Khotuleva, Ausra Jurkeviciute*

### Summary and outlook

## Other events on strategic environmental assessment

### Training course

TC 9: Strategic environmental assessment: experience and good practice in strategic approaches to assist decision making

## 17

## Environmental IA law, policies and practice

Every textbook on EIA stresses the need for a legal framework. In order to have an impact as a policy tool, EIA requires a firm institutional basis including laws and regulations. But a legal framework is also a fundamental requirement for sustainable development. This global objective cannot be attained without instruments that put principles into practice in all our societies. No wonder that the legal EIA landscape offers a lot of variety

This stream can be considered as a showcase of the institutional diversity of EIA systems given their national or regional backgrounds. The stream, however, has been split in four sessions in order to address a number of substantive EIA law and policy issues: economic development, practice and regulation management, comparative approaches, and the future

of EIA. A separate additional perspective on EIA concerns the transboundary approach where legal systems and institutional settings have to co-operate. This is the topic of the fifth session.

Presenters are expected to include in their oral presentations some critical reflections. The presentation should be more focused on “lessons learned” than on a description of laws, systems or practices. In order to facilitate the discussions, the session chairs encourage presenters to indicate ways and means for improvement of the EIA or SEA system(s) they have researched.

*Section coordinators: Susan Waters, Jan De Mulder*

## Concurrent sessions on environmental IA law, policies and practice

### CS 17.1 Environmental law and economic development policies

*Chair: Susan Waters, Jan De Mulder*

**Tuesday 23 May • 15:00 – 17:00 • Ullandhaug**

The use of the Ugandan legal and policy systems to address environmental and social safeguard issues in the World Bank and African Development Bank projects

*Emmanuel Kasimbazi*

Power, poverty and sustainability: the role of environmental NGOs and voluntary associations in environmental litigation in South Africa

*Catherine Coni*

Beyond SEA and EIA: greening regional development programme – environmental integration into structural funds

*Zoltan Karacsonyi*

### CS 17.2 Environmental law in practice and regulation management

*Chair: Susan Waters, Jan De Mulder*

**Wednesday 24 May • 16:30 – 18:00 • Classroom 2**

Writing environmental impact management law: a South African perspective

*Amanda Britz, Wynand Fourie*

Institutionalizing mitigated FONSIs: another step away from the precautionary principle

*Rachael Rawlins, Robert Paterson*

Trial of including EA in project appraisal system in Lao PDR

*Somphath Souvannavong, Akiko Urugo*

Putting policy into practice: the opportunities and challenges of the Richtersveld Land Claim

*Bryony Walmsley, Tony Barbour*

### CS 17.3 Comparing national EA systems

*Chair: Susan Waters, Jan De Mulder*

**Thursday 25 May • 09:00 – 10:30 • Classroom 2**

Comparing EIA procedures and contents in Kenya, Tanzania, Mozambique and EU

*Cristina Rebelo, Guerreiro José*

Strengthening EIA: the case of Central America

*Marianela Cedenio, Grethel Aguilar*

Cultural heritage in environmental assessment: current practice and future developments in NW Europe

*Paul Slinn*

A critical appraisal of EIA screening practice in EU member states

*Paulo Pinho, Sara Santos Cruz, Rita Correia, Sabine Mayer*

### CS 17.4 The future development of EA and practice

*Chair: Jan De Mulder*

**Thursday 25 May • 11:00 – 12:30 • Classroom 2**

Environmental assessment in Canada: the next generation

*Scott Streiner, Peter Sylvester*

Modernizing EIA implementation in the United States – a status report

*Anne Norton Miller, Horst Greczmiel*

The relationship between the EU EIA and SEA Directives

*William Sheate, Helen Byron, Suzan Bennet, Lourdes Cooper*

The Water Framework Directive, assessment, participation, and protected areas: what are the relationships?

*Suzan Bennett, William Sheate*

### CS 17.5 Transboundary impact assessment

*Chair: Nick Bonvoisin*

**Thursday 25 May • 14:30 – 16:00 • Classroom 2**

Aligning Russian and Norwegian EIA processes – a prerequisite for joint environmental evaluation of Barents Sea offshore petroleum operations?

*Heike Pflästerer, Lars-Henrik Larsen, Gennady A Yarygin*

The EIA as part of international trade agreements – example: North American Free Trade Agreement (NAFTA)

*Aranka Podhora, Johann Köppel*

Phase 1B of the Lesotho Highlands Water Project: a transboundary impact assessment case study

*Nico E Willemse*



## 18

### The Marrakech Action Plan

The Marrakech Action Plan has become a widely-known concept among IA practitioners in developing countries. It stems from an agreement made during the IAIA conference in Marrakech to strengthen capacity building in IA globally. An agreement involving the Government of Morocco, IAIA and the World Bank has led to the development of a draft Marrakech Action Plan for capacity building in developing countries which is still evolving.

The commitment to capacity development for impact assessments as formulated in the Marrakech Action Plan was reaffirmed at the IAIA SEA conference in Prague in September 2005. The Action Plan provides a coherent and coordinated approach to capacity building, but the lack of adequate financial means has hampered its implementation. These sessions will explore ways of strengthening its implementation and effectiveness.

*Section coordinator: Peter Leonard,  
Jean-Roger Mercier, Jaafar Boulejiouch*

### Concurrent sessions on the Marrakech Action Plan

#### CS 18.1 The Marrakech Action Plan and follow-up 1

*Chair: Jean-Roger Mercier*

**Tuesday 23 May • 15:00 – 17:00 • Hansons Minde**

#### Building awareness of IA capacity building among decision makers

*Jean-Roger Mercier, Peter Leonard, Vasna Ramasar*

#### Identifying and adopting effective approaches for capacity building

*Hussein Abaza*

#### CS 18.2 The Marrakech Action Plan and follow-up 2

*Chair: Elvis Au*

**Wednesday 24 May • 16:30 – 18:00 • Hansons Minde**

#### Review of the status of the Marrakech Declaration and Action Plan

*Peter Leonard*

#### Criteria for assessing good practices in IA capacity building

*Jean-Roger Mercier, Peter Leonard, Vasna Ramasar*

#### CS 18.3 The Marrakech Action Plan and follow-up 3

*Chair: Weston Fisher*

**Thursday 25 May • 14:30 – 16:00 • Hansons Minde**

#### Experiences from international collaboration on capacity building through the first-ever distance learning course on SEA for China

*Elvis Au, Maria Partidario*

#### The CBBIA Program

*Jo Treweek*

#### Capacity building in EIA for Mexican NGOs

*Edmundo Ducoing, Josefina Cendejas, Patricia Ramírez-Romero, Enrique Mendieta*

## 19

### SEA/EIA development and cases in Asia

Being the region with the largest share of world's population, Asia plays a pivotal role in the next phase of application of strategic environmental assessment (SEA) and any new innovations in EIA. Only a few countries or places in Asia have applied SEA, and resistance, reservations and obstacles remain in some parts of Asia to the adoption of SEA at the national level. Notwithstanding this, there has been greater attention to public participation. There has also been increasing attention to the linkage between SEA and sustainable development. Building capacity, gaining actual experiences and enforcing the requirements remain to be major issues.

These sessions will share experiences, good practices, case studies and lessons learned in Asian countries. It will be an opportunity to discuss any practical solutions or strategies to overcome obstacles, promote innovation in practices, and build and sustain better institutions for applying EIA or SEA for sustainability purposes.

*Section coordinators: Elvis Au,  
Kii Hayashi, Young-il Song*

### Concurrent sessions on SEA/EIA development and cases in Asia

#### CS 19.1 SEA development in Asia

*Chair: Elvis Au*

**Thursday 25 May • 11:00 – 12:30 • Classroom I**

#### SEA, environmental information, and national development planning: policy linkages in the Kingdom of Bhutan

*David Annandale, Karma Rapten*

#### The trend of SEA movement in Japanese local governments

*Sachihiko Harashina, Takuya Sugimoto,  
Takashi Shimizutani*

#### Comparative study of SEA-like approaches in Japan

*Kii Hayashi*

#### Using environmental assessment to overcome financial barriers to renewable energy options

*Gene Owens, Jerry (Jinyue) Yan*

#### CS 19.2 EIA development in Asia

*Chair: Kii Hayashi*

**Thursday 25 May • 14:30 – 16:00 • Classroom I**

#### Environmental economic impact assessment in China: problems and prospects

*Henrik Lindhjem, Guojun Song, Jian Wu,  
Shiqui Zhang, Haakon Vennemo, Zhong Ma,  
John Magne, Hu Tao*

#### Regional environmental assessment for sanitation and sewerage

*Maya Villaluz*

#### Streamlining the Environmental Impact Assessment (EIA) process in Indonesia

*Dadang Purnama*

#### Is EIA follow-up casting a shadow on open cast coal mining in India?

*Urmila Jha Thakur, Thomas Fischer, Asha Rajvanshi*

#### Analyzing impacts of bioenergy expansion in China using strategic environmental assessment

*Gene M Owens*

## 20

### Local/regional government policy and IA (urban governance)

Urban areas have long been the centres of wealth and political power, and usually also account for a disproportionate share in the national income. The system of values, policies and institutions by which a society manages its economic, political, and social affairs through interactions within and among the key stakeholders: state, civil society and private sector are crucial elements in guiding sustainable urban development. The three sessions relating to urban development and impact assessment seek to address, how impact assessment can inform (the key stakeholders) and thus contribute to improved decision making towards sustainable urban development. Papers from developing and developed countries will provide a sound basis to share experiences.

*Section coordinators: Markus  
Eggenberger, Viv Heslop*



# Technical Program

## Concurrent sessions on local/regional government policy and IA (urban governance)

### CS 20.1 Urban development: How IA contributes to (local) capacity building and decision making (I)

Chair: Markus Eggenberger

Tuesday 23 May • 15:00 – 17:00 • Classroom I

Mixed use outline planning applications – what constitutes good practice in the UK?  
*Andy Bailey*

“Auroville – The City the Earth Needs”: a successful case of an innovative and integrated sustainable development  
*Lalit Kishor Bhati*

Ecophysiological study for more environmental spatial planning  
*Jaroslav Kowalczyk*

Evaluation of the salubrity of briqueterie in Yaounde-Cameroon  
*Christiane Félicité Mafodonzang Fouedjo, Adolphe Monkiedje*

### CS 20.2 Urban development: How IA contributes to (local) capacity building and decision making (II)

Chair: Markus Eggenberger

Wednesday 24 May • 14:30 – 16:00 • Ullandhaug

DPWH policy response to the challenges of environmental sustainability through a three-phase strategy on environmental governance  
*Criste Navida*

Indicator-based sustainability assessment of housing and settlement structures within the metropolitan area of Ho Chi Minh City  
*Harry Storch*

Strategic transport management as a regional development competence  
*Sara Lise Jeppesen, Steen Leleur*

The importance of impact assessment as a tool to improve development planning in developing countries  
*Pablo Mazariegos*

Multiple criteria decision making analytic hierarchy process for environmental assessment of urban underground infrastructure  
*Nikolai Bobylev*

## Other events on local/regional government policy and IA (urban governance)

### Technical visit

TV A/B: Stavanger: Urban transformation

## 21

## Capacity building and networking in developing countries

The African Ministerial Conference on the Environment (AMCEN) at the IAIA conference in Durban in 1995 recommended that IAIA and other international institutions should give priority to capacity building and strengthening in environmental impact assessment in developing countries. This was a realization that capacity building in EIA and SEA methodology were required if IAs were to get a wider use than just having a few EIAs done by international consultants to satisfy immediate donor needs. Capacity building in EIA has therefore been on the agenda in Africa and other regions for the last 10-15 years. A number of local institutes and networks with the objective of strengthening EIA capacity in their own regions have been established, like CLEAA in Africa, SAIEA in SADC and many sub-regional networks of professionals. These sessions will discuss the latest progress and developments in IA capacity building in developing countries, as well as other relevant capacity building issues of common interest.

Section coordinator: Abdulrahman Issa

### CS 21.1 Capacity building and networking in developing countries (I)

Chair: Jonathan Allotey

Wednesday 24 May • 14:30 – 16:00 • Hansons Minde

Building on success factors: a capacity development model for environmental management in Viet Nam

*Kim Pawley, Mary Ellen MacCallum, John Patterson, Lorne Grieg*

CBBIA: the Asian way  
*Ahmad Saeed*

Strengthening environmental assessment professional capacity in Africa  
*Maureen Babu*

### CS 21.2 Capacity building and networking in developing countries (II)

Chair: Maureen Babu

Thursday 25 May • 11:00 – 12:30 • Classroom 4

Capacity building for impact assessment in Mongolia  
*Orlando Venn, Jo Treweek, Sarah King*

EIA as a tool for capacity building in Tanzania  
*Jørn Thomassen, Bjørn Petter Kaltenborn, Julius Keyyu, Asanterabi Lowassa, Richard Lyamuya, Sigbjørn Stokke, Hanne Haaland*

Developing air quality impact assessment capacity in Africa through institutional building  
*Bjarne Sivertsen, Alena Bartonova*

### CS 21.3 Challenges of IA in developing countries

Roundtable

Chair: Weston Fisher

Wednesday 24 May • 16:30 – 18:00 • Classroom I

Challenges of environmental impact assessments in developing countries  
*Waiswa Ayazika*

## 22

## Integrated assessment of trade-related policies

Trade and the liberalization of markets are often considered as a solution to ending poverty. A major topic presently being discussed at global level is freeing up agricultural markets for poorer countries - a key objective of the Millennium Development Plan. It is important that developing countries assess the potential benefits and costs of liberalizing trade before scheduling commitments, as they have very diverse interest and concerns. This concurrent session includes papers that address the conference theme in the context of selected topics. The debate will hopefully consider questions like: how can trade impact assessment assist in achieving the Millennium Development Goals of poverty reduction and environmental sustainability? Can trade impact assessment be an important instrument to achieving sustainable development? Is the process inclusive, open and transparent? What are the technical difficulties and how can they be overcome?

Section coordinators: Bernice Goldsmith, Clive George

## Concurrent session on integrated assessment of trade-related policies

### CS 22.1 Integrated assessment of trade-related policies

Chair: Bernice Goldsmith

Tuesday 23 May • 15:00 – 17:00 • Terningen

How useful are computable general equilibrium models for the sustainability impact assessment of trade-related policies?  
*Serban Scricciu*

NAFTA ex-post assessment of trade liberalization and policy integration: reviewing the evidence  
*William Kennedy*



# Technical Program

## Assessing the impact of trade impact assessments

Colin Kirkpatrick, Clive George

## EA of trade: recent activities and the challenge of follow-up

Jaye Shuttleworth, Rachel McCormick

## Biodiversity and trade in the agriculture sector: challenges of integrated assessment

Jo Treweek, Phillip Bubb, Claire Brown, Orlando Venn

## 23

## EIA methodology and practice

A number of papers presented at this year's IAIA conference were allocated to the "EIA methodology and practice" topical stream of sessions. These papers cover a wide range of important IA methodological issues, but do not always fit well with the established sessions or streams for this year's IAIA conference. The "EIA methodology and practice" papers are clustered into groups and sessions which share some common topics or similarities. These papers are especially important because they often explore new methods and innovative approaches. They also often deal with important practical experiences gained by the impact assessor working in the field, sometimes with new angles to current issues, and have often proven to be of much importance to IA practitioners.

This year, the "EIA methodology and practice" papers include a number of important presentations discussing sustainable development, integrated assessments in local plans, IA interaction and methodology, and IA practice and methods used.

Also of great interest this year are the special sessions discussing the new EU guidelines, and the OECD/DAC guidelines.

## Concurrent sessions on EIA methodology and practice

### CS 23.1 Sustainable development and methodology

Chair: Martin Hanssen

Tuesday 23 May • 15:00 – 17:00 • Classroom 4

#### EIA – from description of destruction to an instrument for sustainable development

Aud Tennøy

#### Experiences on sustainability assessment in The Netherlands

Rob Verheem, Geert Draaijers

#### The inclusion of sustainability in environmental impact assessment: an essential aspect or a promotional tool?

Claire Pettit

## Sustainability assessment – a case study involving the process and response to resource needs

Larry Canter, Tom Swor, Eric Hollins, Lorna Harrell

### CS 23.2 Integrated assessments in local plans and programs

Chair: Aud Tennøy

Wednesday 24 May • 16:30 – 18:00 • Ullandhaug

#### Agenda 21 as an integral component of the strategic environmental assessment of municipal programs

Arturo Pelaez Figueroa, Guillermo Vargas Uribe

#### Integration of the environmental and planning aspects in the National Lakes Area, Garden Route, South Africa

Danie Smit

#### Sustainability strategies at municipal level – creating contexts for integration

Maria Partidario, Bernardo Augusto

#### Integrated assessment and planning: experience in Russian Federation

Marina Khotuleva, Elena Pivtsakina, Alexander Dmitriev, Austra Jurkevichute, Dmitry Volostnov, Elena Akerman, Irina Matirova, Tomsk Rajon, Irina Titarenko, Alexander Zhurba, Oksana Kozlovskaya, Boris Mozgolin, Aleksander Adam

### CS 23.3 Interaction and methodology

Chair: Martin Hanssen

Wednesday 24 May • 14:30 – 16:00 • Kvitsøy

#### Very early contracting in EIA: Dutch experiences with parallel procedures for procurement and EIA

Jos Arts, Roel Nijsten

#### Guidelines for classification and assessment of significance in EIA and SEA in Iceland

Jakob Gunnarsson

#### Towards more effective EIA systems

Arend J Kolhoff, Reinoud Post

#### The Alta River case, a turning point of EIAs in Norway

Arve Tvede

### CS 23.4 EIA methodology, practice and response (I)

Chair: Aud Tennøy

Thursday 25 May • 09:00 – 10:30 • Ullandhaug

#### Environmental assessment and performance measurement

Liviu Vancea, Cecilia Lei

#### Perceptions of stakeholders of the objectives and purpose of the EIA and their roles in the process

Kaja Peterson

#### The role of local cooperators in EIS practice: the US experience

Robert Paterson, Rachael Rawlins

#### Keeping a promise: EIA and follow-up for a major urban development in England

Adam Boyden

### CS 23.5 EIA Methodology, Practice and response (II)

Chair: John Boyle

Thursday 25 May • 11:00 – 12:30 • Ullandhaug

#### Scoping in EIA – still guiding assessment?

Carys Jones

#### Entirety or puzzle: topics and mixed disciplines in EIA

Lars Erikstad, Inge Lindblom

#### Analysis of alternatives – strategic environmental assessment or just good EIA practice?

Julio Jesus, Maria Rosario Partidario

#### EIA follow-up in Georgia: a case study of Khadori Hydro Power Station

Maia Gachechiladze

### CS 23.6 EIA in the EU: 20 years on - the achievements of EIA

Co-chairs: Laura Tabellini and David Aspinwall

Wednesday 24 May • 14:30 – 16:00 • Dyna

#### Café Europa

Legal and policy influences on EIA in Europe: Taking stock of the effectiveness of the EU Directive, its strengths and weaknesses, and the practical benefits it can bring

Discussion

### CS 23.7 EIA in the EU: 20 years on - the future of EIA in Europe

Co-chairs: Laura Tabellini and David Aspinwall

Wednesday 24 May • 16:30 – 18:00 • Dyna

#### Café Europa continued

Are there specific changes that should be made to overcome the weaknesses of the Directive?

What will EIA look like in 10 years' time?

Discussions and conclusions

### CS 23.8 Launch of OECD/DAC Guidance

Co-chairs: Barry Dalal-Clayton, John Hobbs

Wednesday 24 May • 16:30 – 19:00 • Grip

The OECD DAC Guidelines: Good Practice Guidance for applying SEA in development cooperation.

Brief introductory overview of the Guidelines and plans for further implementation in developing countries and within donor agencies

Presentation of the GTZ Training Manual

Informal discussions.



# Technical Program

24

## Other important IA sessions

A number of papers submitted to every IAIA conference cover a wide range of important IA issues, but do not fit very well within the established sessions or streams for a given IAIA conference. These papers are clustered into groups and sessions which share some common topics or similarities. These papers are especially important because they often explore new and innovative ideas as well as provide new angles to current issues, and have often proven to be of importance to IA practitioners as well as a more global audience.

This year, the papers include a number of important presentations discussing the resource base, cumulative impacts, ethics and quality - a critical issue which has been highlighted at recent IAIA meetings and which has many important implications, IA training, cultural issues, industrial impact assessments, and the IA efforts of financial institutions.

Also of great interest this year are the special sessions discussing the sensitive GMO impacts issues and industrial benefits planning.

## Concurrent sessions on other important IA topics

### CS 24.1 The resource base and impact assessment

Chair: Hans Olav Ibrekk

**Tuesday 23 May • 15:00 – 17:00 • Hall C Marstein**

**A soil inventory concept: bridging human society and ecosystem**

*Toshiaki Ohkura, Ryunosuke Hamada*

**Environmental index to evaluate Saemangeum Reclamation Project (II)**

*Sang Hoon Lee, Jakon Koo, Jaehong Ryu*

**EMP implementation issues, mainly in water supply and sanitation (Yemen as Case Study)**

*Abdulkadir Al-Arifi*

**Environmental impact assessment of nuclear waste: an unsustainable route**

*Virginio Bettini, Chiara Rosnati, Marco Stevanin*

**Application of total mass daily load strategy in EIA**

*Ya-Wen Lu*

### CS 24.2 Cumulative impacts assessment

Chair: Charlotte Bingham

**Thursday 25 May • 09:00 – 10:30 • Hansons Minde**

**The cumulative effects studies at Hydro-Québec: what have we learned?**

*Michel Bérubé*

**Cumulative effects assessment: are we on the right track?**

*Oritsetimeyin Dada, Napoleon Umesi*

**Cumulative effects: is that an issue in Swedish EIA/SEA?**

*Antoinette Oscarsson, Hans-Georg Wallentinus*

**Planning and cumulative effects: assessing an Automobile Shredder Residues (ASR) landfill site in a fragile area**

*Virginio Bettini, Chiara Rosnati, Marco Stevanin, Chiara Porcu*

### CS 24.3 Ethics and quality

Chair: Richard Fuggle

**Thursday 25 May • 14:30 – 16:00 • Ullandhaug**

**Reframing EIA practice in support of sustainable development: when science doesn't have all the answers**

*Vasna Ramasar*

**Quality in EIA: the Swedish case**

*Veronica Johansson, Anders Hedlund*

**Practitioners, professions, and perceptions of impact assessment adequacy**

*Richard Morgan, Andrew Hart, Claire Freeman, Brian Coutts*

**Informal practices and corruption in public procurement**

*Åse Berit Grødeland*

### CS 24.4 IA – training and research

Chair: Aud Tennøy

**Thursday 25 May • 11:00 – 12:30 • Hansons Minde**

**Lessons learning in environmental assessment training – a case of environmental audit training**

*Serah Kiragu*

**Norwegian EIA research**

*Martin Hanssen*

**An integrated approach to impact assessment teaching and training: practice or critique?**

*Kevin Hanna*

**Experiences from capacity building on EIA and hydropower development in Nepal**

*Reidar Hindrum*

### CS 24.5 Cultural resources and social issues

Chair: Ian Campbell

**Thursday 25 May • 09:00 – 10:30 • Tungenes B**

**The case for making environmental impact assessment social impact assessment**

*Hobson Bryan*

**The Nordic connection**

*Charlie Wolf*

**Nature in cultural practices**

*Britt Kramvig*

### CS 24.6 The industrial sector and IA

Chair: Wiek Schrage or Monica Hale

**Thursday 25 May • 09:00 – 10:30 • Classroom 4**

**Air quality assessment on industrial complex development in Korea**

*Young Soo Lee, Young Ha Kim, Jin Howe Ahn, Kyoung Jong Park*

**Proactive SH&E management in the front end loading phases of a project – a chemical industry perspective**

*Annerine Wenhold*

**EIA development in the Lao PDR**

*Bill Ross*

**Assessing social and economic impacts associated with changes in the coal mining industry in the Bowen Basin, Queensland, Australia**

*Galina Ivanova, John Rolfe, Stewart Lockie*

### CS 24.7 Financial institutions and IA. Nordic Investment Bank: A Global and Nordic-Baltic Multilateral Financial Institution

Chair: Frederick Brusberg

**Wednesday 24 May • 14:30 – 16:00 • Grip**

**Nordic Investment Bank: 30 years of financing energy projects. From oil crises to oil crises - our competitive advantage then and now**

*Johnny Åkerholm*

**The Baltic Sea area: investing in the environment - a burden or a boost?**

*Harro Pitkänen*

**Assessing impacts and promoting environmental investments: our policies and procedures**

*Johan Ljungberg*

### CS 24.8 Industrial benefits planning

Roundtable

Chair: Mark Shrimpton

**Thursday 25 May • 09:00-10:30 • Tungenes A**

**Building a sustainable economy from upstream petroleum activity: lessons from Atlantic Canada**

*Mark Shrimpton*

### CS 24.9 GMO and impacts

Roundtable

Chair: Nicholas Linacre

**Thursday 25 May • 14:30 – 16:00 • Stokka**

**Can Genetically Modified Organisms (GMOs) be safely used to alleviate poverty?**

*Nicholas Linacre*

**Genetically modified organisms: when the politics of perception overshadow environmental impacts**

*Jean Tremblay*

### CS 24.10 Environmental careers seminar

Chair: John Esson

**Thursday 25 May • 14:30 – 16:00 • Tungenes**

**Environmental careers seminar**

*John Esson*

**What makes a good SEA consultant?**

*Jo Curran, Emma James*

### CS 24.11 IA for small-scale development

Roundtable

Chair: Weston Fisher

**Thursday 25 May • 11:00 – 12:30 • Stokka**

**Impact assessment for small-scale development Activities**

*Weston Fisher*



# Posters

## Promotion of EA education focusing on non-EU countries

Ralf Aschemann, Ingrid Belcakova, Maria Rosario do Partidario, Thomas B Fischer

## Domestic energy use in Kanpur, Uttar Pradesh: impacts of particulate matter on women and children

Alena Bartonova, Mukesh Sharma, S.K. Katiyar

## A tool to identify the contribution of pollution sources and personal behaviour to inhaled dose

Alena Bartonova, David Broday, Inga Fløisand, Werner Holländer, Harold McInnes, Susanne Lützenkirchen

## Draft Capacity-Development Manual to Support Implementation of the UNECE Protocol on SEA

Nick Bonvoisin

## The benefits of social impact assessment for environmental assessment process

Rabel Burdge

## How do we seize the opportunities for health improvement and protection in Strategic Environmental Assessment?

Ben Cave, Alan Bond

## Characteristics, issues and reforming plans of the Korean Environmental Impact Assessment System

Joon Gyu Choi, Tae Ho Ro

## Developing standard mitigation through small-project monitoring and follow-up in the Canadian Coast Guard

Dave Elliott

## EIA in Egypt: progress, problems, and the role of international development agencies

Hisham El-Zayat

## Visual problem appraisal Kerala's coast

Bert Enserink, Loes Witteveen

## Capacity building in biodiversity and impact assessment in Latin America

Juan Carlos Garcia de Brigard, Juan David Quintero

## Developments on SEA in Turkey. A case study: Oymapinar tourism development plan

Sule Gunes

## EIA in Iceland 1994-2005. The impact of the introduction of the scoping process

Oli Halldorsson, Holmfrídur Sigurdardóttir

## Facilitating practitioner networks: Do weblogs have a role in HIA collaborative learning?

Ben Harris-Roxas, Patrick Harris, Lynn Kemp, Harris Elizabeth

## Geothermal environmental impact assessment studies in Hebei Province, China

Li Hongying

## Towards integrated impact assessment: human impact assessment in Finland

Tapani Kauppinen, Kirsi Nelimarkka, Kerttu Perttälä

## Impact assessment of community-based wildlife management on welfare of rural communities and conservation of wildlife: experiences from Botswana

Charity Kagiso Kerapeletswe, Elisabeth Pienaar

## EIA in Korea: obstacles and its future

Jandi Kim, Joon-Gyu Choi, Yong-Joon Joo

## Sida EIA Helpdesk at the Swedish EIA Centre

Cecilia Kjellander, Eva Stephansson, Anna Axelsson

## Quality of strategic environmental assessment reports in the London Boroughs

Jure Leben, Colin Treleven

## Spatial planning and cultural heritage

Inge Lindblom, Matilde Anker

## EIA and SEA capacity building in developing countries

Helena Lindemark

## EIA and SEA in Southern Africa

c/o Helena Lindemark

## EIA and SEA in Southeastern Europe

c/o Helena Lindemark

## EIA and SEA in Latin America

c/o Helena Lindemark

## Corporate Social Responsibility: a simplified study of the social management in Brazilian companies

Germana Lucena de Araujo, Dermeval Nestor de Oliveira Junior, Eduardo Peris Mora

## Development of forest resource management and National Forest Protection Program (NFPP) and its influences

Chuo Ma

## How an electric distribution company in Brazil is providing electricity to 400.000 poor customers with the minimum environmental impact

Sandra Neusa Marchesini Ferreira

## Public participation in the management of hydric resources in Brazil

Sandra Neusa Marchesini Ferreira

## Impact Assessment in offshore windfarm projects

Georg Nehls

## EIA/SEA training programmes

Anna Olsson

## EIA and SEA in Asia

c/o Anna Olsson

## EIA and SEA in Africa

c/o Anna Olsson

## Environmental impact assessment of aircraft noise around airports in Korea

Youngmin Park, Hyosung Sun, Seoil Chang

## Research on sustainability of Tehran's transportation network against earthquake

Mohammadreza Parvizi

## NWMO's study of approaches for the long-term management of used nuclear fuel in Canada

Pat Patton, Jo-Ann Facella

## Recasting the "Environment" in SEA to explicitly encompass natural hazards

Paula Posas

## Cooperation between municipalities for sustainable development

Olga Ramalason

## Sustainable (f)actors in transport planning

Emilija Savanovic, Petra Boonman

## Checklists for EIA and SEA independent quality reviews

Dusan Sevic

## Impact of waste-oils on the environment in Macedonia

Magdalena Trajkovska-Trpevska

## Capacity building for biodiversity-inclusive impact assessment

Jo Treweek

## Biodiversity management in the Niger Delta area of Nigeria

Collins Norberth Chinedu Ugochukwu

## Capacity building for impact assessment in Mongolia

Orlando Venn, Jo Treweek, Sarah King

## Adequacy of proposed ecological mitigating measures and EIA guidelines for coastal resort development in Malaysia

Leong Wan Vun, Abdul Latiff, Mohd Nordin Hassan

## Application of IA tools in the management of environmental and social issues in Olkaria Geothermal Field, Kenya

Joshua Were

## The optimum role of environmental assessments in long-term radioactive waste management in the United Kingdom

Cassandra Wesolowski

## Utilisation of a power line corridor for conservation of biodiversity within an urban area: the Plattekloof Natural Heritage Site

Douw Willemse

## The PERS of developing multifunctional administrative city in Korea

Heon-Seok Yoo, Ji-Young Kim



# Exhibitors/Map: Stavanger

## Exhibitors

### Booths

Exhibits, posters, information tables and more are located in the Forum Plaza and Vestibule.

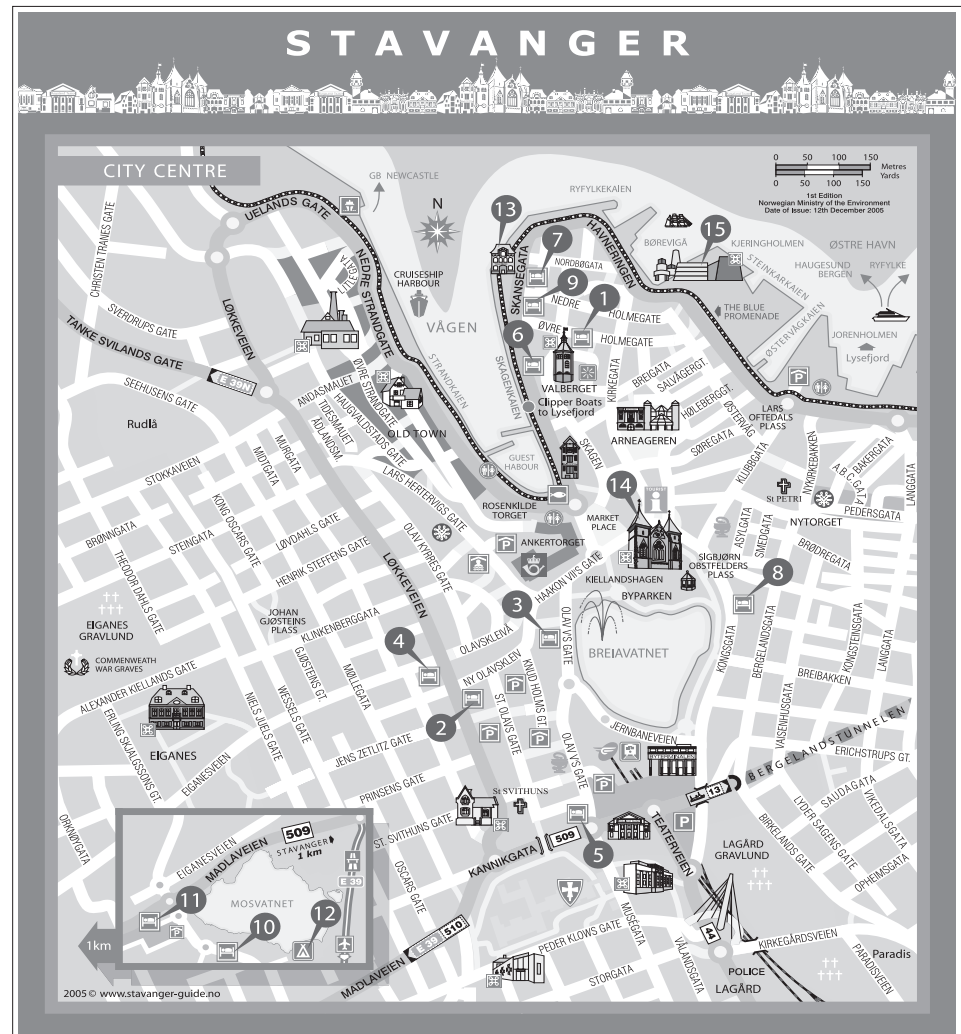
- Ministry of Environment
- Statoil
- Nordic Investment Bank
- IAIA07 Korea
- Norwegian Institute for Urban and Regional Research (NIBR)

### Tables

- Edward Elgar Publishing
- Rabel Burdge
- Guidecompagniet (travel agency)

## Map: City of Stavanger

1. Best Western Havly Hotel
2. Clarion Hotel Stavanger
3. Radisson SAS Atlantic
4. Radisson SAS Royal
5. Rica Park
6. Skagen Brygge Hotel
7. Skansen Hotel
8. Thon Hotel Maritim
9. Victoria Hotel
10. First Hotel Alstor
11. Rica Forum Hotel
11. Stavanger Forum
12. Stavanger camping Mosvangen\*\*  
Park Inn  
Smart Hotel
13. Hall Toll Restaurant (site of banquet)
14. Stavanger Cathedral
15. Norwegian Petroleum Museum





# Technical Visits

## ABOUT TECHNICAL VISITS

Participants must be pre-registered and pre-paid to participate. No refunds will be issued for cancellations after 31 March.

Technical visits will depart from the Stavanger Forum unless otherwise stated. Check in at the IAIA registration desk a minimum of 15 minutes prior to the start time of the technical visit.

- Family members of registered delegates are welcome to register for technical visits.
- Casual clothing and walking shoes are recommended.

### **A/B Stavanger: Urban transformation**

#### **A walk in the historic centre of Stavanger**

Stavanger is the regional capital of the county of Rogaland, and although small in geographic extent, it is the fourth largest and the most densely populated city in Norway. The town dates back to 1125, when building of the cathedral was started. This building is the most important historical icon of Stavanger, together with the old warehouses facing the sea and the listed living area Old Stavanger. Today, Stavanger is a modern, international university city and one of Europe's key energy cities. Since the 1980s, the city has worked actively with environmental issues and with the conservation of its natural and cultural heritage. The city has high scores when it comes to quality of life and has received national awards for its work within culture, environmental conservation, sport and recreation. It has also been awarded the status of a European Capital of Culture 2008.

Despite the extensive growth of the city over the last forty years, and the establishment of several new commercial centres on the outskirts of the city, the old historic and protected centre, mostly built in wood, is still the main meeting place and the most important shopping area and cultural area in Stavanger.

As a result of more than twenty years of strategic planning, the road traffic in the centre has been reduced, followed by the ongoing reconstruction of the main marketplace, and the Blue Promenade, a lighted promenade along the harbour area. In each end of this promenade are large transformation areas, with more than 2,000 apartments being built within the last five years.

Architects from the planning office of the Municipality of Stavanger will guide the groups.

The walk starts in Lendeparken, just outside the entrance to Old Stavanger, and ends with a visit at the Oil Museum at Kjerfingholmen.

Organized by the Municipality of Stavanger.

**A Sunday, 21 May**

**B Wednesday, 24 May**

**18:00 - 20:00**

**10 - 80 people, \$20**

### **C Kårstø: Landfall and export terminal for North Sea gas**

The impacts of establishing Europe's largest landfall and export terminal for gas are at the centre of this visit. The Kårstø Gas Terminal was a controversial development when built in the late '70s, and many social and environmental concerns were raised. Today the terminal is vital in the European gas supply and important for local industry and energy production, and the terminal is still being developed.

The visit is by bus and ferry. The group will return over the picturesque Karmøy Island and experience two long sub-sea tunnels (4 and 6 km long) before arriving in Stavanger in the afternoon.

Organized by Statoil.

**Friday 26 May, 13:00pm - 20:00**

**30 - 80 people, \$40 (includes late lunch)**

### **D Ryfylke fjord: Coastal zone management and fish farming**

From Stavanger harbour, this visit will go by boat to Boknafjorden where there has been a rapid development of fish farming, mostly of salmon. The coast and island in this area are also subject to other development, such as the building of summer houses and other recreational and boating facilities, harbour developments, etc.

The municipality's and county's plans for coastal zone management will be presented and their efforts to put fish farming and other developments into an integrated coastal zone management plan will be demonstrated.

Organized by Ambio.

**Friday 26 May, 13:00pm - 18:00**

**45-80 people, \$60 (includes lunch)**

### **E Lyse: Hydroelectric power development projects**

More than 95% of Norway's electric energy comes from hydroelectric power. This technical visit will give a good insight into old and new hydroelectric power stations, dams and reservoirs, including some of Norway's largest. The visit will pass through some of the most spectacular sites (e.g., Kjerag and the Pulpit Rock) along the Lyse fjord, on its way to Lysebotn. From there a bus will take the group to the mountains to visit dams and reservoirs before returning to Stavanger.

The environmental effects and assessments related to major power plants will be the focus of the visit.

Organized by Lyse Energi.

**Saturday, 27 May, 9:00am - 16:00**

**30 - 80 people, \$40 (includes lunch and boat trip)**

### **F North Jæren: Land use and transport planning**

Focus will be on the integrated approach to land use and transport planning that has been at the core of the North Jæren land use and transport plan. The plan focuses on public transport, road traffic, land use and protection of valuable sites and landscapes, like the unique Jæren beaches.

The visit will demonstrate some of the crucial elements for making the development of the region sustainable and will include a visit to Sandnes, one of the "Healthy Cities" of Europe. The plans for wind farming in the region will also be highlighted.

Organized by Ambio.

**Saturday, 27 May, 10:00 - 14:00**

**20-45 people, \$40 (includes lunch)**

## POST-CONFERENCE

### TECHNICAL TOUR

#### **Iceland: Geothermal power**

A two-day post-conference technical tour to Iceland to study geothermal power developments is offered. Participants depart for Iceland the afternoon/evening of Friday 26 May.

On Saturday 27 May, participants will visit the Nesjavellir Geothermal Power Plant which provides hot water to a substantial part of the capital area's inhabitants as well as generating 120 Mw electricity. Afterwards, participants will visit the Hellisheiði geothermal area, where deep drilling is ongoing and a new power plant is being constructed.

On Sunday 28 May, a visit to the Svartsengi Geothermal Resource Park will take place. Here the participants have an option to visit the Blue Lagoon Geothermal Spa.

Departure from Iceland on the afternoon of Sunday, 28 May.

Registration for this technical tour is through Iceland Incentives, Inc.

For inquiries, contact Iceland Incentives, Inc.

Telephone +354 554 1400

Fax +354 554 1472



# Sections

## ABOUT IAIA SECTIONS

IAIA Sections provide opportunities for IAIA members with mutual interests to share experiences and discuss ideas in an informal setting. Sections provide a forum for active topical debate and for development and promotion of good practice. Sections are in different stages of development: some currently have their own projects, newsletters, and listserv discussion groups. All Sections welcome new members.

See page 9 for meeting times and locations.

**Agriculture, Forestry and Fisheries:** New in 2005, this Section focuses on finding ways and means of increasing and improving the application of EIA to these sectors based on study, research, and input from practitioners. Section coordinator and listserv facilitator: Patrick Duffy.

**Biodiversity & Ecology:** Ecological impact assessment, biodiversity in impact assessment, ecological compensation and mitigation, impact assessment for protected area establishment and management. Section coordinator: Helen Byron. Listserv facilitator: Andrea Athanas.

**Disasters and Conflicts:** Disseminate information on disaster issues and participate in the development of sustainable disaster management strategies. Section coordinators: Charles Kelly and Michel Bouchard.

**Environmental Impact Assessment Law, Policies and Practice:** Environmental legislation and its vital role in EA policy and practice. A goal of this Section is to develop links with key legal organisations so that IAIA can play a part in the development of environmental legislation which will promote equitable and sustainable development throughout the world. Section coordinators and listserv facilitators: Susan Waters and Jan de Mulder.

**Environmental Management Systems:** Environmental auditing and management. Incorporating auditing and impact assessment into environmental management systems and the development and operation of corporate environmental strategies. Section coordinator: Debra Zanewich. Listserv facilitator: Angela Pinilla Urzola.

**Health Impact Assessment:** HIA throughout the world, integration of human health concerns into impact assessment, and human health risk assessment. Section coordinator and listserv facilitator: Lea den Broeder.

**Indigenous Peoples:** Indigenous issues in IA, developing guidelines for the recognition and full inclusion of indigenous concerns in all aspects of impact assessment, traditional knowledge, and impact assessment capacity building for indigenous people. Section coordinators: Bob Tai and Amy Emerhi.

**Integrated Assessment of Trade-Related Policies:** Promotes publication in IAPA of scholarly and general information on policy development, case studies, methodologies and codes of good practice that enables practitioners in the developed and developing countries to conduct IAs. Section coordinators: Bernice Goldsmith and Clive George.

**Local and Regional Government Policy and Impact Assessment (also known as Urban Governance):** Addresses the wide range of social, environmental, economic and institutional impacts of urbanisation; invites all stakeholders—representatives from local authorities, private business, civil society and research—to contribute to discussion on urban issues. This Section specifically reaches out to local authorities and invites them to contribute their experience and questions. Section coordinator: Markus Eggenberger.

**Public Participation:** Explore principles and techniques of effective public participation as part of EA. Section coordinator: Pierre Andre.

**SEA:** All aspects of strategic environmental assessment, development of legislation, and SEA as a tool for cumulative effects assessment, etc. Section coordinator and listserv facilitator: Thomas Fischer.

**SIA:** The development of professional good practice in all aspects of SIA, drawing on the experience of SIA practitioners in the private, public and academic sectors around the world. Section coordinator: James Baines. Listserv facilitator: Frank Vanclay and others.

**Students and Early Professionals (SEP)** is not a formalized Section, but provides a forum for SEPs to exchange ideas and experiences. It is also intended to provide an opportunity to pursue improved SEP involvement in IAIA throughout the year and at IAIA annual meetings. Listserv facilitator: Tracey Nitz.



## Council Meeting

Friday 26 May • 13:00-14:00 • Utsira

The IAIA Council serves as an advisory resource to the IAIA Board of Directors, meeting directly after the closing plenary. The Council is composed of the Board, all Committee chairs, representatives of affiliates and branches, the CEO and Headquarters representatives, and the Conference Program Chair(s) for the current-year conference and any future known conferences. However, Council meetings are open meetings; all IAIA members are encouraged to attend.

## Committee and Section Meetings

Much of the cutting-edge work of IAIA is the direct result of Committee and Section activity. The only chance for Committees and Sections to meet throughout the year is at the annual conference. Everyone is welcome to attend a Section meeting. See page 36 for a description of the Sections. If you are interested in serving on an IAIA Committee, please indicate your interest on the member information directory form mailed to you when you pay your membership dues, or contact [info@iaia.org](mailto:info@iaia.org).

See pages 8-9 for meeting times and locations.

## 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.

## Annual General Meeting (AGM)

Wednesday 24 May • 12:30-13:30 • Lindesnes A

This is the annual business meeting of the Association. All meeting participants are encouraged to attend, learn more about the operation of the organization, and ask questions. (Note: if you paid the non-member conference registration rate, it includes a one-year membership to IAIA.)

The prestigious IAIA Rose-Hulman Award is also presented at the 2006 AGM. Recipient Bob Connelly will give a brief address.

2006 AGM Agenda

1. Welcome, introductions, and confirmation of 2005 AGM minutes.
2. IAIA 2005/6: What have we done and where are we going?
3. Money matters.
4. IAIA Honors Excellence: The Rose-Hulman Award Ceremony
5. Any debate? Items submitted in writing by members.
6. Have your say: Informal discussion of matters that members wish to raise.
7. Closing remarks.

## Notes



# Tips and Information

## 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 to think about your goals. Then clarify them by writing them down in your program. Look over your goal page throughout the conference; it will help you keep your goals focused.
- **Meet other people.** This is an excellent opportunity to expand your network of contacts. Sit next to someone you don't know, even if you've come with a group. Mingle during the breaks. Exchange business cards. Every participant here has a specific area of expertise; find out what it is instead of chatting about the weather. Let us suggest that one of your goals be to meet at least one person each day whom you intend to communicate with again on a business or social basis.
- **Participate!** Ask questions. Make contributions. Actively participate in the exercises. Consider the meeting room to be a "mental gym" where it's okay to run, fall, and get up again. You'll benefit much more by participating in the game than sitting on the sidelines.
- **Relate what you learn to yourself.** Don't settle for "abstract" knowledge. Have your current problems, conflicts and interests foremost in your mind. As you learn new approaches and techniques, relate them to your own situation.
- **Make a commitment to review your notes.** Right now, take out your calendar and make a one-hour appointment with yourself in a few weeks to "retake" the program. Don't put your good ideas away with your notes. And consider reviewing your notes each evening during the conference while your ideas and enthusiasm are fresh.
- **Write a "Dear Boss" letter.** If your boss or company sent you to the conference, thank them with a letter. Include a list of your action ideas based on your action plan and goals - what you intend to do or change as a result of what you have learned. If you paid your own way, still send the letter. It will show how committed you are to your own professional growth.
- **Orient, inform and prepare yourself.** Check in early and then take time to walk through the venue to familiarize yourself with locations of activities before the rush of the conference begins. Read through the program and highlight the sessions you want to attend. Read those abstracts and prepare questions for the speakers.
- **Enjoy yourself.** Start relaxed (rest and rehydrate to help recover from jet lag) and you'll leave refreshed, inspired and recharged. Forget about what's happening at the office - 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.



## Conference terminology

**Annual Conference:** An extended collection of IAIA and IAIA-related events within a week to two-week time frame, including special meetings, technical visits, short courses, and social events.

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

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

**Concurrent sessions:** Sessions running in parallel, during which approved papers are presented by authors and discussed by participants.

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

**Paper Presentation:** The oral summary of a paper within a session.

**Poster:** Visual presentation of a paper or project by means of graphics, photos, data, and a small amount of text on a display area. Posters are self-explanatory, but poster authors are available to answer questions during the session dedicated to poster viewing.

**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.

**Roundtable:** A group of individuals, usually invited, hold an informal discussion on a specific topic or problem.

**Theme Forum:** Smaller than plenaries and larger than concurrent sessions, Theme Forums bring together on a particular topic the various aspects of impact assessment and examine how those aspects apply to different sectors and issues. The contents (topics, speakers, panels, etc.) of the IAIA06 Theme Forums were developed by the Program Committee and host organizers.

**Practitioners' Forum:** For issues that arise during the conference and that practitioners want to pursue through informal follow-up discussions. During the morning, participants post potential topics for discussion, and individuals interested in each topic sign up for the related discussion. If a topic generates sufficient interest, space is made available for the discussion to take place in the late afternoon.

**Cafe Europa:** a discussion method used to explore important questions and issues, connect diverse people and perspectives, encourage listening and sharing, and make collective knowledge physically visible to participants. This is achieved by providing an informal and relaxing "cafe-like" meeting space and creatively facilitating discussion.

## Greening the IAIA Annual Conference

Does IAIA practice what it preaches? Yes, and more so every year. IAIA takes the following steps to mitigate the impacts of our conferences:

- Limit printed materials; communicate via e-mail and web to the extent practical and possible
- Contract only with venues that participate in green programs (e.g., hotels that provide a linen and towel reuse program)
- Use bulk servings and pitchers rather than individual bottles
- Use china and silverware rather than disposables
- Provide recycling bins for discarded paper products
- Ask delegates to confirm their attendance at events and functions to reduce waste and leftovers
- Provide evening sustainable dining options

To the extent possible and practical, IAIA implements these (and other) policies and practices. Delegates are welcome to make additional suggestions on the IAIA06 conference evaluation form (which will be distributed electronically to delegates following the conference) or by contacting IAIA HQ at any time.



# General Information

## Conference papers and proceedings

An abstracts volume is included in the delegate packets and is posted on the IAIA web site. A list of pre-registered participants is provided in the delegate packets.

IAIA will be publishing conference proceedings on CD-ROM following the conference. Preparation of a full paper is optional. If you choose to prepare a full paper, it will be included in the CD-ROM.

For publication on the conference CD-ROM, materials must be submitted electronically. File format: MS WORD or PDF. E-mail the file as an attachment to [impact@iaia.org](mailto:impact@iaia.org) no later than 1 July 2006. Files received after 1 July will not be included in the proceedings. The following information must be included in the Subject line of the e-mail and should also be the name of the Word file: 1) Your paper or poster abstract number as previously provided to you by IAIA (in your preliminary notice of acceptance). This number is also available online or from your session chair; 2) Last name of presenting author, as originally submitted; 3) Full title of paper or poster.

EXAMPLE: The "Subject" line of your e-mail and the name of the attached Word or PDF file would be: #107 Chan EIA in China.

## 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.

## Presentation equipment

LCD (PowerPoint) projectors and laptop computers are provided in each concurrent session room. Presenters are responsible for making arrangements with the Forum to reserve and pay on their own for any other equipment needed for their presentations with the Forum.

Presenters load their own files on the laptops provided; this should take no more than 2 minutes. Preferably, PowerPoint files should be saved to CD-ROM or memory stick. If the file is saved to disk, allow some additional time to change the drive in the laptop from CD-ROM to disk. For security reasons, the session rooms and laptops are not available until the break just prior to the start of the sessions; presenters should plan to use the break just prior to the start of their sessions to load their presentations. Preparation of files on a Mac computer is not recommended; the venue does not have Apple capabilities. Testing of a Mac presentation on an IBM or HP should have been done prior to arriving at the conference, and Mac presenters must provide their own VGA connectors.

## Business services equipment

Because of high rental costs which would necessarily be passed on to all delegates in the form of higher registration fees, IAIA does not provide copying, printing, computers or other business services on-site. Limited business services are available to delegates at the Forum for a fee.

## Poster presenters

Poster panels are set up and assigned to each poster presenter in the Lobby/Plaza area. You may hang your poster any time between 12:00 - 17:00 on Monday 22 May. Posters will be on display until 13:00 on Friday 26 May, and may be taken down any time between 13:00 - 17:00 on Friday. Please note: IAIA, the conference organizers and the Forum are not responsible for poster materials on display, or posters/cases left after 17:00 on 26 May. You are responsible for providing the materials needed to hold the posters in place. Preparation of a full paper is optional. If you have a full paper related to your poster topic, see the information at left in "Conference Papers and Proceedings." The poster session is scheduled for Thursday 25 May at 12:30.

## Booths/tables

Exhibits/tables are set up and assigned in the Lobby/Plaza area. Set up is from 12:00 - 17:00 Monday 22 May. Take down is 13:00-17:00 on Friday 26 May. Please note: IAIA, the conference organizers and the Forum are not responsible for materials on display, or materials left after 17:00 on 26 May.

## Display table and book share

A table is provided in the exhibit area for IAIA members to display information, distribute conference papers, or announce/distribute non-commercial items (leaflets, brochures, books, etc.). The purpose of this table is to enhance the exchange of information. No commercial (sales) materials are permitted. Inappropriate materials are subject to removal. IAIA, the conference organizers, and the Forum are not responsible for items displayed or left after 17:00 on 26 May.

Be sure to visit the book share table as well. Donate a new or recycled book, or take a book if you find one that might not be readily available back home.

## Registration and fees

All conference participants, including delegates, session chairs, invited speakers, organizers, exhibitors and paper and poster presenters, are required to register for the conference at the full or student registration fee.

Full and student registration fees entitle delegates to attendance at all sessions, coffee

breaks, lunches on Tuesday, Wednesday, and Thursday; 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 cash (US\$, Euro, NOK), MasterCard, Visa, check, or international money order. Personal checks must be for US\$ drawn on a US bank. Traveler's checks and international money orders must be in US\$.

Registrations after 10 May will be accepted on-site only. Official receipts for on-site registration (after 10 May) will be issued by mail after the conference.

No registration will be processed without payment unless arrangements were made with IAIA HQ by 10 May.

IAIA refunds registration fees upon written request received before 31 March. A US\$50 processing fee is retained. After 31 March, no refunds are issued for cancellations or no-shows. Substitutions for paid registrants may be made in writing without penalty. Refunds will be issued after the conference.

## 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"

All conference participants whose registration and fees were received by 31 March 2006 were mailed a purple "Quickpass." Show this Quickpass at registration for express check-in!

## Transportation

Shuttle bus service will be provided between the Forum and conference hotels Tuesday through Friday mornings and evenings. Timetables will be provided.

## Tour desk

Guidecompagniet will have a desk in the Lobby/Plaza area for persons wishing to sign up for sightseeing tours or accompanying persons activities.

### Tuesday

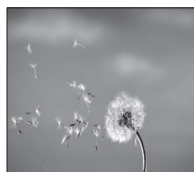
11:30-12:30

### Wednesday and Thursday

08:30-09:15 and 12:30-14:30



# Committees



## About the host

IAIA06 is hosted by **Royal Ministry of the Environment (MoE) of Norway**, in cooperation with Royal Ministry of Foreign Affairs (MFA) and other national, Nordic and international organizations, i.e., Norwegian Institute for Urban and Regional Research (NIBR), Nordic Council of Ministers (NMR) and Nordic Centre for Spatial Development (Nordregio). Statoil - the state oil company - is the main sponsor of the conference.

The Ministry of the Environment was established in 1972 as one of the world's first. It has the primary responsibility for national environmental policy and the development and administration of environmental legislation. The Ministry is responsible for the regulation of all types of impact assessment procedures and requirements, but most of the practical work is done by developers, local authorities and agencies.

One of the goals of Norway's foreign policy is to make the principles of sustainable development, equitable sharing of global public goods and fair burden-sharing an integral part of Norway's international development cooperation.

## IAIA06 program committee

**Terje Lind** (*program co-chair*), Ministry of the Environment, Norway  
**Arne Dalfelt** (*program co-chair*), Norwegian Institute for Urban and Regional Research/Ministry of the Environment, Norway  
**Peter Acquah**, AMCEN/UNEP, Kenya  
**Elvis Au**, Environmental Protection Department, Hong Kong  
**James Baines**, Taylor Baines and Associates, New Zealand  
**Charlotte Bingham**, Millennium Challenge Corporation, USA  
**Holmfridur Bjarnardottir**, Nordregio, Sweden  
**Brian D. Clark**, The University of Aberdeen and Board Member, The Scottish Environment Protection Agency, Scotland  
**Robert (Bob) Connelly**, Canada  
**Barry Dalal-Clayton**, International Institute for Environment and Development, United Kingdom  
**Lea den Broeder**, RIVM-National Institute for Public Health & the Environment, The Netherlands  
**Peter Furu**, DBL-Institute for Health Research and Development, Denmark  
**Linda Ghanime**, UNDP, USA  
**Sigurd Juel Kinn**, Statoil, Stavanger  
**Ginette Lajoie**, Cree Regional Authority, Canada  
**Einar Leknes**, Rogalandsforskning, Norway  
**Ross Marshall**, Environment Agency, UK  
**Angus Morrison-Saunders**, Murdoch University, Australia  
**Rachid Nafti**, Centre Intl des Technologies de l'Environnement (CITET), Tunisia  
**Liv Østmo**, Sámi University College, Norway  
**Anne Kari Ovind**, Norwegian Ministry of Foreign Affairs, Norway  
**Maria Rosário Partidário**, Technical University of Lisbon, Portugal  
**Barry Sadler**, Canada  
**Young-il Song**, Korea Environment Institute, Korea  
**Nick Taylor**, Taylor Baines & Associates, New Zealand  
**William Veerkamp**, Shell Exploration & Production International Centre, The Netherlands

## Local organizational and sponsorship committee

**Harald Noreik** (*local committee chair*), Ministry of the Environment, Norway  
**Terje Lind** (*program co-chair*), Ministry of the Environment, Norway  
**Cecilie Haare**, Ministry of the Environment, Norway  
**Even Lind**, Asplan, Stavanger  
**Trine Nohr**, Ministry of the Environment, Norway  
**Eva Nordvik**, Ministry of the Environment, Norway  
**Margret Köthke**, Ministry of the Environment, Norway  
**Sigurd Juel Kinn**, Statoil, Norway

## IAIA Section coordinators

**Patrick Duffy**, Canada - Agriculture, Forestry and Fisheries  
**Helen Byron**, United Kingdom - Biodiversity and Ecology  
**Debra Zanewich**, Canada - Environmental Management Systems  
**Lea den Broeder**, The Netherlands - Health Impact Assessment  
**Suphakiñ Nuntavorakarn**, Thailand - Health Impact Assessment  
**Clive George**, United Kingdom - Integrated Assessment of Trade-Related Policies  
**Bernice Goldsmith**, Canada - Integrated Assessment of Trade-Related Policies  
**Bob Tai**, New Zealand - Indigenous Peoples  
**Amy Emerhi**, Nigeria - Indigenous Peoples  
**Thomas Fischer**, United Kingdom - Strategic Environmental Assessment  
**Markus Eggenberger**, Switzerland - Local/Regional Government Policy and IA (Urban Governance)  
**Charles Kelly**, USA - Disasters and Conflicts  
**Michel Bouchard**, Canada - Disasters and Conflicts  
**Susan Waters**, Canada - Environmental IA Law, Policies and Practice  
**Jan de Mulder**, Belgium - Environmental IA Law, Policies and Practice  
**Pierre André**, Canada - Public Participation  
**James Baines**, New Zealand - Social Impact Assessment

## Special thanks

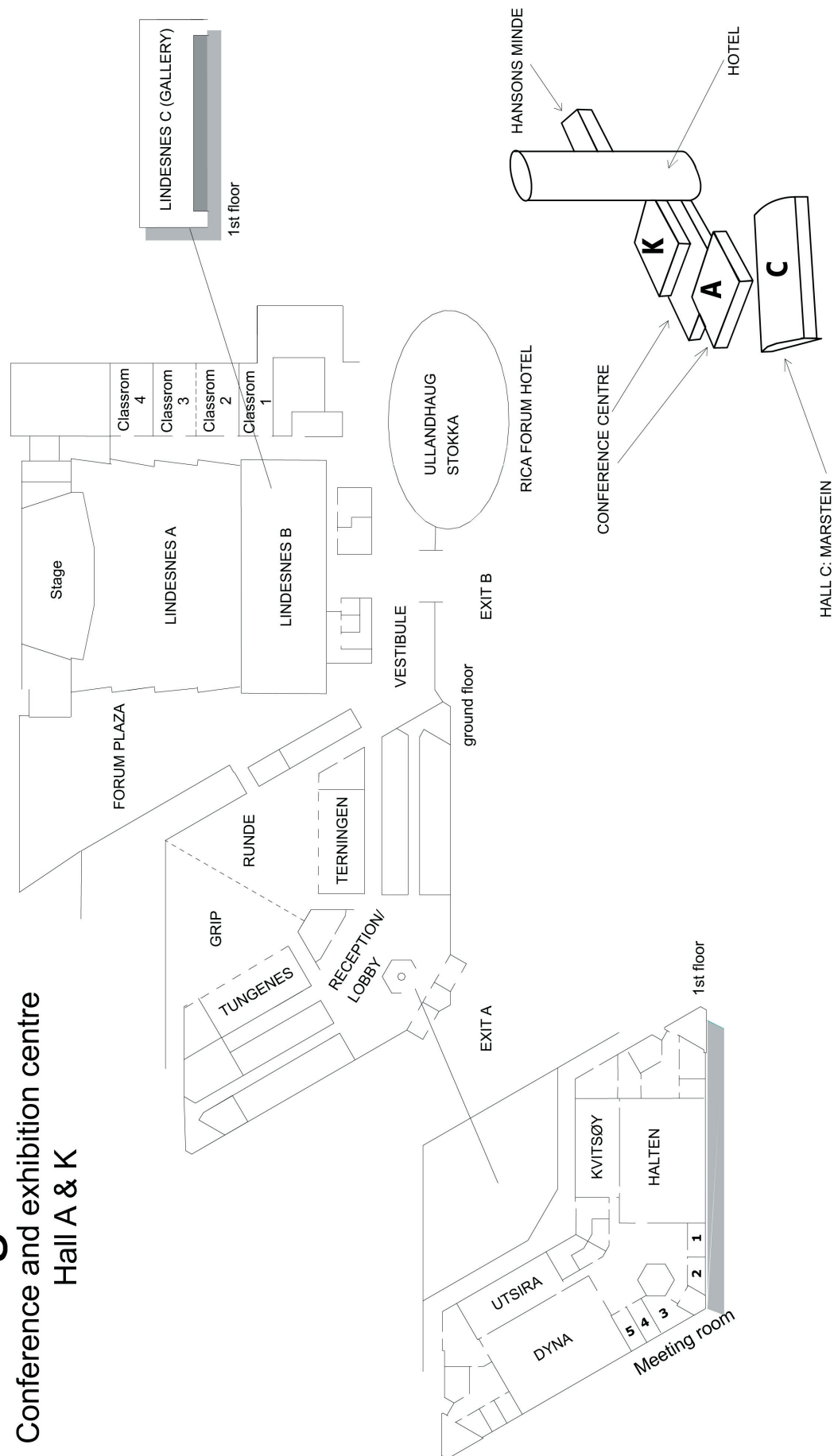
**Børge Handeland**, **Bodil Lande**, Stavanger Forum, Norway  
**Jean-Roger Mercier**, **Stig Roar Husby**, Fun Run organizers  
**Sue Thibedeau**, **Elaine Keller**, and staff, Richtman's Printing, USA

**And the many volunteers who have helped make IAIA06 a tremendous success.**



# Map: Stavanger Forum

## Stavanger Forum Conference and exhibition centre Hall A & K





# Earth Sponsors



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# Special thanks

This program was printed with funds from the Government of Canada/CEAA.



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IAIA gratefully acknowledges these companies and organizations for their generous financial and in-kind support of IAIA06.

By sharing their resources, these companies and organizations demonstrate their commitment to the environment and contribute to the improvement of impact assessment around the globe.

When you meet a representative of one of these organizations, at the conference or in the months ahead, please be sure to thank them for their contribution.