



LAND-OCEAN INTERACTIONS IN THE COASTAL ZONE (LOICZ)

Core Project of the International Geosphere-Biosphere Programme (IGBP) and the International Human Dimensions Programme on Global Environmental Change (IHDP)



Information Booklet

LOICZ Dahlem-Type Workshop

Global Environmental Change in the Coastal Zone A Socio-Ecological Integration

Skjetten, Norway, 15-19 June, 2009

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At a glance: Workshop Schedule

| Time | Monday 15 June | Tuesday 16 June | Wednesday 17 June | Thursday 18 June | Friday 19 June |
|------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------------|
| 08:30 - 09:00 | | WG Meetings | WG Meetings | WG Meetings | |
| 09:00 - 10:30 | Opening (Auditorium) | WG1 (Frigg) WG4 (Braje) | WG2 (Frigg) WG4 (Braje) | WG1 (Frigg) WG3 (Braje) | Heritage Lectures (Auditorium) |
| 10:30 - 11:00 | Coffee Break | | | | |
| 11:00 - 12:30 | WG2 (Frigg) WG3 (Braje) | WG1 (Frigg) WG4 (Braje) | WG2 (Frigg) WG4 (Braje) | WG1 (Frigg) WG3 (Braje) | Heritage Lectures (Auditorium) |
| 12:30 - 14:00 | Lunch Break | | | | |
| 14:00 - 15:30 | WG2 (Frigg) WG3 (Braje) | WG1 (Frigg) WG4 (Braje) | WG2 (Frigg) WG4 (Braje) | WG1 (Frigg) WG3 (Braje) | Synthesis (Auditorium) |
| 15:30 - 16:00 | Coffee Break | | | | |
| 16:00 - 17:30 | WG2 (Frigg) WG3 (Braje) | WG1 (Frigg) WG4 (Braje) | WG2 (Frigg) WG4 (Braje) | WG1 (Frigg) WG3 (Braje) | Closure (Auditorium) |
| 18:15 - 22:00 | | Boat Trip | | | |

1. Information

1.1 Where to get Information

On the LOICZ web site, a Dahlem-specific [section](#) was set up for the participants. You can find information on [logistics](#), the [umbrella paper](#) and the scientific [background papers](#), as well as the papers prepared by the conveners (see specific working group sections).

URL: <http://www.loicz.org/internal/dahlem/index.html.en>

Username: oslo

Password: june09

1.2 Workshop Concept

The workshop concept is the systems approach to understanding; seeking innovation as an emergent property of different kinds of knowledge. The overall goal of the workshop is not necessarily to reach a consensus but rather **to identify gaps in knowledge, to find new ways in approaching controversial issues, and to define priorities for future research**. The conditions and information are designed to foster innovation based upon the best practices learned from other fora, such as the Dahlem Conferences (see paper "[Dahlem-Workshop-Concept](#)"). Based on this concept, the LOICZ workshop is **not an open meeting**; rather it is a workshop to which **40 participants have been invited in order to work in a relaxed, but structured manner**. There are **four themes** for the meeting:

1.3 Working Groups and Participants

1. Coastal Innovation: New Methods and Solutions that Integrate Positive Adaptation

Coordinator: *William Dennison*

Question: *What approaches can assist in developing better science and management in the coastal zone?*

There is a widespread view amongst those who study coupled social and ecological systems that *resilience* is a key system property that enables the system to survive external pressure and avoid exceeding thresholds leading to collapse. A parallel concept is resistance, how a system reacts to change, often becoming very fragile in the process. Innovation is a way to maintain resilience. Successful societies come up with new ways of working, of distributing resources and using knowledge, in order to conserve or enhance resilience. How does this happen in the coastal zone? What are the success stories (and failures)? Can science help to develop tools to enhance resilience and foster innovation?

Participants of Working Group 1:

1. *Convener*: William Dennison (dennison@ca.umces.edu)
Moderator: tbd by W. Dennison
2. Bruce Glavovic (B.Glavovic@massey.ac.nz)
3. Tom Frazer (frazer@ufl.edu)
4. Marion Glaser (Marion.Glaser@zmt-bremen.de)
5. Liana McManus (lmcmamus@mac.com)
6. Mike Orbach (mko@duke.edu)
7. Nancy Rabalais (nrabalais@lumcon.edu)
8. Ramachandran Ramesh (rramesh_au@yahoo.com)
9. Michael Williams (mwilliams@umces.edu)

10. Open

Rapporteurs: Roberto Guimarães (roberto.guimaraes@fgv.br) and
Juergen Weichselgartner (j.weichselgartner@loicz.org)

2. Fractal Coastal Futures: Emerging Global Trends

Coordinator: *Alice Newton*

Question: *How can we better forecast coastal futures in the face of global change?*

Sometimes we see situations that, from the benefit of hindsight, we feel could have been predicted. The crystal ball of smug futurology has somehow rolled off the table and smashed on the floor before our very eyes! The current global food price hike is a case in question. Surely, we should have seen it coming? Why do we fail to see these hugely important non-linear changes? Sometimes they simply cannot be predicted because of divergent alternative pathways of equal probability, but this probably didn't apply to the food price hike example. What can we predict and how? What do we do when we cannot possibly predict the future (what happened to the precautionary approach?)?

Participants of Working Group 2:

1. *Convener:* Alice Newton (anewton@ualg.pt)
2. *Moderator Day 1:* Peter Burbridge (pburbridge@googlemail.com)
3. *Moderator Day 3:* Laurence Mee (Laurence.Mee@sams.ac.uk)
4. Denis Bailly (denis.bailly@univ-brest.fr)
5. Janos Bogardi (bogardi@ehs.unu.edu)
6. Eva Roth (er@sam.sdu.dk)
7. Kerry Turner (r.k.turner@uea.ac.uk)
8. Eric Wolanski (e.wolanski@aims.gov.au)
9. Open
10. Open

Rapporteurs: Hartwig Kremer (hartwig.kremer@loicz.org) and
Jozef Pacyna (jp@nilu.no)

3. Scales of Critical Change in the Coastal Zone

Coordinator: *Dennis Swaney*

Question: *How are the natural and human processes interrelated at multiple scales?*

An important trend in human society is that social and ecological systems are becoming increasingly globalized. It is getting harder to model a system within predefined boundaries such as catchments and coasts. A flutter in the stock market in Tokyo or Hong Kong can affect salmon producers in Norway or farmers in Togo. We are witnessing the globalization of opportunistic species and the disempowerment of people to manage their own affairs on a local scale. Climate change can really exacerbate this sense of disempowerment. How can we keep up with the change in scales (temporal and well as spatial)? What tools can we employ to help people and policymakers to remain in charge in a meaningful manner?

Participants of Working Group 3:

1. *Convener:* Dennis Swaney (dps1@cornell.edu)
2. *Moderator:* Christoph Humborg (christoph.humborg@stockholmresilience.su.se)
3. Kay Emeis (kay.emeis@zmaw.de)
4. Yves Hénocque (yves.henocque@ifremer.fr)
5. Roberto Pastres (pastres@unive.it)

6. Juan Restrepo (jdrestre@eafit.edu.co)
 7. William Silvert (bill@silvert.org)
 8. Cosimo Solidoro (csolidoro@inogs.it)
 9. Paul Tett (p.tett@napier.ac.uk)
 10. Masumi Yamamuro (yamamuro@k.u-tokyo.ac.jp)
- Rapporteurs: Hartwig Kremer (hartwig.kremer@loicz.org) and
Jozef Pacyna (jp@nilu.no)

4. The Role of Governance in the Coastal Zone

Coordinator: *Stephen Olsen*

Question: *How can we overcome existing barriers in the science-policy-practice interface that limit the use of knowledge?*

As the globalization of human activity accelerates and the climate responds in often unpredictable ways, the capacity of human societies and institutions to practice adaptive governance becomes increasingly critical. This requires integrating knowledge of how ecosystems function and change with the processes of governance. Governance addresses the values, the beliefs and fundamental objectives that are the foundation of the behavior of a society and the choices it makes. Integrating knowledge from the sciences with governance is a dynamic, value laden process that engages governments, civil society and markets. The sciences can inform, but seldom drive, the processes and outcomes of governance. We will analyze the dynamics of relationship between the two and identify how a full understanding of past and current governance in a given locale can suggest strategies for bridging the gaps between, scientific knowledge, the dynamics of the policy process and the implementation of a plan of action.

Participants of Working Group 4:

1. *Convener*: Stephen Olsen (sbo@crc.uri.edu)
 2. *Moderator*: Glenn Page (glenpage@mac.com)
 3. Antonio Diegues (adiegues@usp.br)
 4. Bernhard Glaeser (bernhardglaeser@googlemail.com)
 5. Andreas Kannen (andreas.kannen@gkss.de)
 6. Remigius Laane (remi.laane@deltares.nl)
 7. Robert Nicholls (R.J.Nicholls@soton.ac.uk)
 8. Agnes Saborio (agnes.saborio.coze@gmail.com)
 9. Tim Stojanovic (Stojanovic@cardiff.ac.uk)
 10. Hala Yousri (halayousry@hotmail.com)
- Rapporteurs: Roberto Guimarães (roberto.guimaraes@fgv.br) and
Juergen Weichselgartner (j.weichselgartner@loicz.org)

1.4 Preparation prior to the Workshop

Please, first read the [umbrella paper](#) written by Laurence Mee. For each working group theme, the convener prepared a paper to ensure focus and clarity. **It is crucial that each participant reads these working group papers** and to submit *ex ante* questions and commentaries to the convener (available in the specific working group section). We do not expect the papers to attempt to integrate across the entire theme; they will have a clear remit and should stick to it. Authors are not obliged to change everything according to the whim of the reviewers; they can also answer review comments they object to and these will be appended to each text. This is a solemn undertaking that is key to the workshop because the papers

will not be presented at the meeting, so that discussion may begin at once. Through these intensive preparations the workshop can begin where regular conferences usually end: with discussions, the debate of questions and collective thinking. In addition, each participant suggested [background papers](#) that provide further input.

1.5 Workshop Agenda

There are four days of two parallel sessions each day; the fifth day is the synthesis day (see table). It is arranged so that participants can attend all groups at least for one session. Participants are clustered into four working groups. Two groups will meet in parallel at any one time and the 'other' participants (from the two working groups not meeting) will join the group of their choice (with a little active shepherding). Then the other two groups will meet and the situation will be reversed. **Lectures or formal presentations are taboo** at the workshop. Instead, concentrated discussion – within a group and between groups – is the means by which maximum communication is achieved. Interaction between groups is both stressed and encouraged. During the sessions, the participants break into working groups to discuss position papers – often drafted to be as provocative as possible – and prepare a synthesis statement to be presented on the final day. Discussion takes place in moderated sessions as well as through informal interactions. Each working group has a moderator who will lead the discussion.

| Date/Time | Session 1 | Session 2 |
|----------------------------|---|-------------------|
| Day 1: 15 June, 9:00-17:30 | WG2 (A. Newton) | WG3 (D. Swaney) |
| Day 2: 16 June, 9:00-17:00 | WG1 (B. Dennison) | WG4 (S. Olsen) |
| Day 3: 17 June, 9:00-17:30 | WG2 (A. Newton) | WG4 (S. Olsen) |
| Day 4: 18 June, 9:00-17:30 | WG3 (D. Swaney) | WG1 (B. Dennison) |
| Day 5: 19 June, 9:00-17:30 | In plenary: Heritage Lectures and Syntheses | |

1.6 Workshop Outcome

By the end of the workshop, through a collective effort directed by conveners and rapporteurs, **each group should have prepared a draft report of the ideas, opinions, and contentious issues** raised by the group. **Directions for future research are highlighted, as are problem areas still in need of resolution.** At the end of the workshop, the results are brought together in the plenary session and presented. After the workshop, attention is directed toward the necessity of communicating the results of the workshop to a wider audience. It is intended to publish the outcome of the Dahlem-Type Workshop as a book. The SSC chairperson has been approached by Wiley (book) and by *Current Opinion in Environmental Sustainability* (special issue). There will be a need to translate the outcomes into jargon-free language that can be communicated to policymakers. On the web site you can find two [chapters](#) of former Dahlem workshop publications.

Note: **Theme papers are produced at the meeting.** Conveners will assign tasks by consensus during the group meetings and there will be time allocated for writing.

2. Logistics

2.1 Oslo Airport (OSL)

Edvard Munchs veg, Gardermoen

URL: <http://www.osl.no/en/osl>

Passenger Service (Mon - Sun, 00.00-24.00): Tel: +47 06 400

E-Mail: passasjerservice@osl.no

2.2 Transportation

By Bus: It is very convenient (and therefore recommended) to go from the airport to the Quality Hotel Olavsgaard with the Airport Express bus: Nor-way buss Airport Coach (Flybussekspressen). It runs to and from Oslo Airport Gardermoen every half hour Monday to Friday. Saturday and Sunday the departures are partly reduced to every hour (see [time table](#)). From this bus terminal there are also continuous bus departures to and from Oslo and the local areas. Note that the Airport Express bus only can be used for transport to and from the airport. The bus schedules are also available as PDF-files at our web site.

The Nor-way buss Airport Coach (Flybussekspressen) has the first departure from Oslo Airport Gardermoen at 06:15, and the last departure is at 00:15 (leaving every 30 min at X:15 and X:45). It is marked “*Local line: F1 Flybussekspressen Oslo Lufthavn-Gjelleråsen-Sinsen-Majorstuen*”. The bus departs from outside the entrance of Oslo Airport Gardermoen. It takes only 25 minutes from the airport to Olavsgaard and the price for the bus ticket is 130,- NOK (ca. 14,70 Euro). Please check also the web site at: <http://www.flybussekspressen.no>

By Taxi: To take a taxi from the airport, go to the taxi information desk in the arrivals hall. The taxi rank is immediately outside the Arrivals Hall. The local taxi company will be “Nedre Romerike Taxi” to get to Quality Hotel Olavsgaard. In order to keep the costs as low as possible, we suggest to group at the taxi information desk and share a (mini-van) taxi. Participants with similar arrival times in Oslo are:

| Arrival Time on 14 June | Flight No. | Name |
|-------------------------|------------|--------------------------|
| 10:35 | US788 | Dennison, Bill |
| 10:35 | US788 | Page, Glenn |
| 10:35 | US788 | Swaney, Dennis |
| 10:35 | US788 | Williams, Michael |
| 13:00 | LH3152 | Kannen, Andreas |
| 13:00 | LH3152 | Tang, Chen |
| 13:00 | LH3152 | Weichselgartner, Juergen |
| 13:00 | LH3132 | Ramesh, Ramachandran |
| 14:10 | QI5293 | Roth, Eva |
| 14:25 | KL1145 | Glaeser, Bernhard |
| 14:25 | SK495 | Rabalais, Nancy |
| 14:25 | TP506 | Silvert, Bill |
| 14:25 | KL1145 | Turner, Kerry |
| 14:55 | AF2374 | Diegues, Antonio |
| 14:55 | AF2374 | Guimaraes, Roberto |
| 14:55 | AF2374 | Henocque, Ives |
| 15:55 | BA0766 | Wolanski, Eric |
| 15:55 | BA0766 | McManus, Liana |
| 16:20 | BD3786 | Saborio, Agnes |

| | | |
|-------|--------|---------------------|
| 16:20 | BD3786 | Glavovic, Bruce |
| 16:40 | KL1147 | Burbridge, Peter |
| 16:40 | KL1147 | Stojanovic, Timothy |
| 17:25 | LH3144 | Solidoro, Cosimo |
| 19:15 | LH6280 | Bogardi, Janos |
| 20:00 | KL1149 | Laane, Remi |
| 20:05 | LH3154 | Emeis, Kay |
| 22:10 | MS9206 | Yousry, Hala |
| 22:20 | KL1151 | Glaser, Marion |
| 22:25 | BA770 | Mee, Laurence |
| 22:25 | BA770 | Nicholls, Robert |

A complete list of arrivals and departures of participants is available on the web site at: <http://www.loicz.org/internal/dahlem/logistics/index.html.en>

2.3 Workshop Venue

The venue of the LOICZ Dahlem-Type Workshop is the **Quality Hotel Olavsgaard** in Skjetten, located between Oslo Airport (ca 25 km) and Oslo city center (ca 15 km). A [flyer](#) of the hotel is available as a PDF file in the intern section.

Quality Hotel Olavsgaard
Hvamstubben 11, N-2013 Skjetten
Tel.: +47 63 84 - 77 00
Fax: +47 63 84 - 76 00
Website: <http://www.olavsgaard.no>



Wireless **Internet** access is available throughout the hotel. Workshop participants will get a free daily surf card at the front desk. Covered by LOICZ, this card allows accessing Internet after the end of each workshop day.

The workshop opening on the first day and the heritage lectures and synthesis on the last day will take place in plenary at the **Auditorium** of the hotel. The two parallel sessions will take place in the **meeting rooms Frigg** and **Braje**. Additional working space is available at the conference lobby.



The opening on the first day and the entire last day will take place in plenary at the Auditorium.



The parallel sessions will take place in the meeting rooms *Frigg* and *Braje*.



Additional space for break out groups to prepare specific tasks is available.

2.4 Catering

Breakfast, lunch, and dinner (buffet style) will be served at the hotel restaurant. Two coffee breaks, one in the morning and one in the afternoon, will be available at the lobby of the meeting venue. During the coffee and lunch breaks, there will be free tap water provided by the caterer. The name badge entitles every participant to attend the catering buffets during the breaks. Additional soft and alcoholic drinks will be served on a self pay basis throughout the day at the restaurant and in the evenings at the hotel bar *Lysthuset*.

2.5 Social Event: Boat Trip

On Tuesday, 16th June, we will have early dinner around 17:00 in the hotel. At 18:15, we leave with a shuttle bus to the Oslo fjord where we have a boat trip from 19:00 – 22:00 (with drinks). At 22:00, a bus will bring us back to the Olavsgaard hotel.



2.6 Travel Reimbursement

LOICZ will cover your flight, six nights from 14 - 20 June, 2009, all meals and the coffee breaks. Thus LOICZ will provide a small subsistence allowance and reimburse airport transfers. Additional expenses (e.g., drinks, telephone calls, mini bar) need to be covered by the participant. The reimbursement of the travel is coordinated by Christiane Hagemann. A travel claim form and guidelines are available at the [intern](#) section. Please send your completed form and original receipts to

Ms. Christiane Hagemann
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Max-Planck-Strasse 1
21502 Geesthacht, Germany
Tel.: +49 4152 87 1539 / Fax: +49 4152 87 2040
E-Mail: c.hagemann@loicz.org

2.7 Liability

The organizers are not liable for personal accidents or for loss or damage to the personal property of participants. Participants should make their own arrangements with respect to personal and health insurance.

3. List of Participants

1. Denis Bailly (denis.bailly@univ-brest.fr)
2. Janos Bogardi (bogardi@ehs.unu.edu)
3. Peter Burbridge (pburbridge@googlemail.com)
4. William Dennison (dennison@ca.umces.edu)
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7. Tom Frazer (frazer@ufl.edu)
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20. Robert Nicholls (R.J.Nicholls@soton.ac.uk)
21. Stephen Olsen (sbo@crc.uri.edu)
22. Mike Orbach (mko@duke.edu)
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