

**ocean management research network (OMRN) national conference**  
*Canada's Oceans: Research, Management and the Human Dimension*  
**October 25-27, 2002: University of Ottawa, Ottawa , Ontario**

## *Program*

### **Thursday, October 24, 2002**

A workshop of the OMRN Integrated Management Node will be held on Thursday October 24, from 12 noon to 16:30 at the Quality Inn Hotel on Rideau Street. The workshop is open to all.

### **Friday, October 25, 2002**

*8:30-9:00 Registration (Alumni Auditorium, University Centre)*

**9:00-10:30 Plenary** (Alumni Auditorium, University Centre)

Welcome and Introduction (Tony Charles)  
Opening Remarks (Peter Harrison, Deputy Minister, DFO)  
OMRN Overview and Update:

- National Secretariat (Tony Charles)
- Integrated Management Node (Fikret Berkes)
- Sustainability Node (Peter Sinclair)
- Science and Local Knowledge Node (Alison Gill)

Introduction of OMRN process to examine the state of research on human uses of Canada's oceans and coasts, to explore research priorities, and to develop an oceans research agenda.

*10:30 – 11:00 Break*

#### **11:00-12:30 Thematic Roundtables**

Concurrent roundtables will explore a range of topics and provide an opportunity for dialogue between researchers and research users.

- **Marine Protected Areas: The Challenges and Opportunities**  
Chair: Doug Yurick, Parks Canada
- **Managing Traditional Ecological Knowledge**  
Chair: Martin Weinstein, 'Nangis First Nation
- **Technological Forecasting and Ocean Innovation**  
Chair: George Emery, National Research Council
- **Climate Change: Reducing Community Risk – The Need to Incorporate Climate Change Adaptation into Community Planning**  
Chair: Eric Taylor, C-CIARN

*12:30 – 1:30 Lunch*

Working lunches are planned for those interested in the development of new OMRN nodes on (1) Ocean Governance and (2) Marine Protected Areas.

### **1:30-3:00 Paper sessions**

Concurrent paper sessions on the following topics:

- Integrated Planning and Management (1) – Chair: Jim Wilson
- Marine Knowledge / TEK (1) – Chair: Alan Penn
- Offshore Oil and Gas – Chair: David VanderZwaag
- The Ocean Environment, Health and Food Security – Chair: Erin Rankin
- Ecosystem Approaches to Ocean Management (Sustainability-1) – Chair: Peter Sinclair

*3:00-3:30 Break*

### **3:30-5:30 Paper sessions**

Concurrent paper sessions on the following topics:

- Marine Knowledge / TEK (2) – Chair: Evelyn Pinkerton
- Integrated Planning and Management (2) – Chair: Rod Dobell
- Fishery Management – Chair: Martin Weinstein
- Issues in Sustainable Ocean Use (Sustainability-2) – Chair: Peter Sinclair

(Dinner on own)

*7:30-9:00 Public Panel discussion (Alumni Auditorium, University Centre)*

#### **People and the Sea: Understanding the Connections**

This public session will be moderated by Paul Kennedy, host of CBC Radio's "Ideas" series (and notably the "Learning from the Oceans" broadcasts). Panelists will include Art Hanson (Canada's Oceans Ambassador and International Institute for Sustainable Development), Jose Kusugak (President, Inuit Tapiriit Kanatami), George Emery (National Research Council), Rosemary Ommen (University of Victoria and "Coasts under Stress") and Jake Rice (DFO Science Branch and ICES Chief Scientist).

## **Saturday, October 26, 2002**

*8:30-9:00 Registration (Montpetit Hall, Room MNT 203)*

**9:00-10:30 Plenary Panel Discussion** (Montpetit Hall, Room MNT 203)

#### ***Canada's Ocean Strategy and the Policy and Operational Framework: Working towards tomorrow***

Chair: Dan Lane, University of Ottawa

Chrystia Chudczak, Director of DFO's Oceans Policy and Integrated Management Branch, will introduce Canada's Ocean Strategy and the associated Policy and Operational Framework. Jon Lien, Chair of the Minister's Advisory Council on Oceans, will discuss COS-related opportunities and challenges, and recent MACO public fora on COS.

Representatives of the three current OMRN nodes will examine COS and its implementation in relation to the role of research on Canada's coasts and oceans. Speakers: Richard Haedrich (Memorial University of Newfoundland & Science and Local Knowledge Node), Parzival Copes (Simon Fraser University & Sustainability Node), Rob Huebert (University of Calgary & Integrated Management Node).

10:30 – 11:00 Break

**11:00-12:30 Plenary Roundtable** (Montpetit Hall, Room MNT 203)

*A Research Agenda for Tomorrow: What should it look like?*

Chair: Michael Butler, ACZISC and OMRN

A forum for presenting and discussing the research priorities and research needs of aboriginal, industry, coastal community, government and NGO representatives in the context of the OMRN. Open discussion to follow.

12:30 – 1:30 Lunch (*Le Rendez-vous Restaurant, University Centre*) – Speaker: Jon Lien, MACO

**1:30-3:00 Paper sessions**

Concurrent paper sessions on the following topics:

- Resilience and Adaptive Management – Chair: Craig Millar
- Community and Regional Management – Chair: Ralph Matthews
- Scientific Tools for Ocean Management – Chair: Patricia Gallagher
- Aquaculture – Chair: Alison Gill
- Fishery Management and Co-management (Sustainability-3) – Chair: Peter Sinclair

3:00-3:30 Break

**3:30-5:30 Paper sessions**

Concurrent paper sessions on the following topics:

- Marine Protected Areas – Chair: Philip Dearden
- Stakeholders, Communities and Learning – Chair: Rosemary Ommer
- Ecosystem-Based Management – Chair: Dan Lane
- Ocean Regulation and Rights – Chair: Michael Butler

**5:30-7:00 Reception / Poster session**

A time to meet and network on an informal basis, and to engage in discussions directly with researchers presenting posters at the conference.

(Dinner on own)

**Sunday, October 27, 2002**

**9:00-9:30 Plenary Presentation** (Montpetit Hall, Room MNT 203)

Chair: Tony Charles, OMRN

Art Hanson, Canada's Oceans Ambassador, will give a personal assessment of the conference, the ideas discussed, the research results presented, and messages for the future direction of the OMRN and of research on Canada's oceans. This presentation will lead directly to the open plenary discussion below.

**9:30-11:30 Plenary Discussion** (Montpetit Hall, Room MNT 203)

Chair: Tony Charles, OMRN

*Next steps: The OMRN, future plans and an oceans research agenda*

An open discussion to explore “ next steps” on two themes: (1) a research agenda on human uses of Canada’s oceans (challenges, opportunities, and priorities), and (2) ideas for the OMRN, plans for the future, the 2003 conference, and how the network can best meet participants’ needs. As a contribution to the discussion, Rod Dobell (Maritime Awards Society of Canada) will review plans for developing an OMRN synthesis paper dealing with these themes, and progress to date.

**11:30 Conference Closing**

**12:00-2:00 OMRN Network Committee post-conference meeting**

An OMRN Network Committee business meeting will follow up on conference outcomes and plan future activities.

# summary of paper and poster sessions

## **Paper Sessions: Friday October 25: 1:30-3:00**

- Integrated Planning and Management (1) – Chair: Jim Wilson
- Marine Knowledge / TEK (1) – Chair: Alan Penn
- Offshore Oil and Gas – Chair: David VanderZwaag
- The Ocean Environment, Health and Food Security – Chair: Erin Rankin
- Ecosystem Approaches to Ocean Management (Sustainability-1)  
Chair: Peter Sinclair

## **Paper Sessions: Friday October 25: 3:30-5:30**

- Marine Knowledge / TEK (2) – Chair: Evelyn Pinkerton
- Integrated Planning and Management (2) – Chair: Rod Dobell
- Fishery Management – Chair: Martin Weinstein
- Issues in Sustainable Ocean Use (Sustainability-2) – Chair: Peter Sinclair

## **Paper Sessions: Saturday October 26: 1:30-3:00**

- Resilience and Adaptive Management – Chair: Craig Millar
- Community and Regional Management – Chair: Ralph Matthews
- Scientific Tools for Ocean Management – Chair: Patricia Gallagher
- Aquaculture – Chair: Alison Gill
- Fishery Management and Co-management (Sustainability-3) – Chair: Peter Sinclair

## **Paper Sessions: Saturday October 26: 3:30-5:30**

- Marine Protected Areas – Chair: Philip Dearden
- Stakeholders, Communities and Learning – Chair: Rosemary Ommer
- Ecosystem-Based Management – Chair: Dan Lane
- Ocean Regulation and Rights – Chair: Michael Butler

## **Poster Session: Saturday October 26: 5:30-7:00**





## **PAPER AND POSTER SESSIONS**

### **PAPER SESSIONS: FRIDAY 1:30-3:00**

#### **Integrated Planning and Management (1) – Chair: Jim Wilson**

Bauer, Brenda

Linking Integrated Management Theory with Practice in the Pacific: The Central Coast Integrated Management Initiative

Rigg, Catherine

Salt in the Earth: Linking Marine and Terrestrial Conservation Initiatives in Island Communities on Haida Gwaii/Queen Charlotte Islands

Deacoff, Cameron J.

Managing the Cumulative Effects of Physical Alterations to the Halifax Harbour Environment

#### **Marine Knowledge / TEK (1) – Chair: Alan Penn**

Vodden, Kelly and Berry, Michael

"Seeing the World Through Our Eyes": Strategies and Tools for Incorporating Community and Local Knowledge in Responsible Coastal Planning

Cheeseman, Jackie

Using Local Ecological Knowledge (LEK) as a Tool for Measuring Population Changes

Parlee, Brenda and Kendrick, Anne

Community-Based Indicators and Monitoring: The Value of Local and Traditional Knowledge

#### **Offshore Oil and Gas – Chair: David VanderZwaag**

MacIsaac, Lucia and Shrimpton, Mark

Offshore Petroleum Exploration Rights Issuance in Cape Breton Island and Newfoundland

House, Douglas

Oil and Gas Developments off Canada's Coastal Provinces: Retrospect and Prospect

Muir, Magdalena A.K.

Reconciling Economic Development and Marine Conservation and Protection, Focusing on Offshore Hydrocarbon Activities, Shipping and Navigation



**The Ocean Environment, Health and Food Security** – Chair: Erin Rankin

Myers, Heather; Berkes, Mina Kislalioglu; Fast, Helen and Berkes, Fikret  
Feeding the Family in Times of Change

Bird, Ranjana P. and Bird, Glen A.  
Biomarkers of Human Health

Thompson, Shirley; Blakney, Sherrie and Berkes, Fikret  
At-risk Communities and Environmental Hazards: Environmental Justice in Canada's  
Ocean Strategy

**Ecosystem Approaches to Ocean Management (Sustainability-1)** – Chair: Peter  
Sinclair

LeDrew, Steve  
Ecosystem-Based Fisheries Management: Critical Issues and Prospects for Social Science

Jiao, Yan; Chen, Yong and Wroblewski, Joe  
Uncertainty associated with F(0.1) biological reference point for the Atlantic Cod (*Gadus  
morhua*) Fisheries in Division 2J3KL

Montevecchi, W.A.; Davoren, G.K.; Stenhouse, I.J.; Burke, C. and Hedd, A.  
Learning from Avian Predators - Natural Assays of Fish Stock and Ecosystem Conditions

**PAPER SESSIONS: FRIDAY 3:30-5:30**

**Marine Knowledge / TEK (2)** – Chair: Evelyn Pinkerton

Sloan, Norm A.  
Gwaii Haanas' Role in Gathering Regional Marine Knowledge

Manseau, Micheline and Parlee, Brenda  
Traditional Ecological Knowledge and the Management of Natural Resources: Case  
Studies from Northern Canada

Paul, Kenneth D.  
The Need for Ethical Guidelines and Policy for Protecting Indigenous Property in  
Traditional Ecological Knowledge Research

Good Ocean Governance Means Managing our Knowledge Better

**Integrated Planning and Management (2)** – Chair: Rod Dobell

Alder, Jackie

Regional Marine Plans - Sinking or Swimming Australia's Ocean Policy: Lessons for Canada

Gill, Alison

The Challenges of Integrating Coastal and Marine Tourism into Coastal Zone Management

Rutherford, R.; Duggan, D.; Fenton, D.; Herbert, G.; Coffen-Smout, S. and Macnab, P.  
Social Science Needs for Collaborative Oceans and Coastal Management in the Maritimes: A Practitioners' Viewpoint

**Fishery Management** – Chair: Martin Weinstein

Bendell-Young, Leah

Some Issues Facing the Expanding British Columbia Shellfish Industry

Gallaugher, Patricia; Farrell, Anthony and Routledge, Richard  
Improving the Chances of Survival for Bycatch Fish

Rudd, Murray A.

An Institutional Framework for Objective-based Fisheries Management Policy Design and Monitoring

Miller, Robt. J.

What Would a Better Managed Lobster Fishery Look Like and Can We Get There from Here?

**Issues in Sustainable Ocean Use (Sustainability-2)** – Chair: Peter Sinclair

Catto, Norm; Paone, Laura; Forbes, Don and Liverman, Dave

Natural Processes, Anthropogenic Influences, and Sustainability Issues, Northeast Avalon Peninsula, Newfoundland, Canada: Resistible Forces meet Moveable Objects

Ridler, Neil

Policies for the Promotion of Aquaculture: A Survey of Global Practices

Women Fish Harvesters in Newfoundland and Labrador: Their Safety and Health Concerns at Work

Sumaila, Ussif Rashid

Altruism in Economic Models and Natural Resource Overexploitation: Consequences for Future Generations

**PAPER SESSIONS: SATURDAY 1:30-3:00**

**Resilience and Adaptive Management** – Chair: Craig Millar

Kofinas, Gary and Nicolson, Craig

Learning to Live with Uncertainty: Linking Ecological Monitoring with Simulation Models to Advance the Practice of Adaptive Co-Management

Berkes, Fikret; Marschke, Melissa and Bankes, Nigel

Cross-Scale Institutions and Building Resilience in the Canadian North

Bankes, Nigel

Law, Hierarchy and Resilience: Fisheries Management under the Nunavut Claim

**Community and Regional Management** – Chair: Ralph Matthews

Wilson, James R.

Public Choice and Institutional Perspectives on Governance Issues: Beyond the Ideal of Community Based Fisheries Management

Fanning, Lucia M.

Rethinking Governance Mechanisms: Community Management Boards and the Inshore Groundfish Fishery in Atlantic Canada

Charles, Tony

Community-Based Fisheries Management

**Scientific Tools for Ocean Management** – Chair: Patricia Gallagher

Snelgrove, Paul

Ocean Observatories: The Future of Marine Science in Canada?

Todd, Brian J. and Pickrill, Richard A.

The Multiple Roles of Acoustic Mapping in Integrated Ocean Management, Canadian Atlantic Continental Margin

Mason, Brad

Using the Internet to Map Coastal Resources in British Columbia, Canada

**Aquaculture** – Chair: Alison Gill

Schreiber, Dorothee and Matthews, Ralph

Salmon aquaculture in BC: The Construction of Natural-social Hybrids in the Fish Farming Industry

Slocombe, D. Scott; Janetos, Stephanie and Bavington, Dean  
Integrated Planning and Management for Aquaculture Sustainability: From Issues to Initiatives

Orr, Craig  
Sea lice, Salmon Farming, and Science Capacity  
**Fishery Management and Co-management (Sustainability-3)** – Chair: Peter Sinclair

Copes, Parzival  
Policy versus Practice: Resolving Contradictions in Canadian Fisheries Management

Day, Andrew  
Deep Roots and a Firm Foundation: The West Coast Vancouver Island Aquatic Management Board Approach to Making Hard Choices in Modern Aquatic Management

Davis, Reade; Whalen, Jennifer and Neis, Barbara  
From Orders to Borders: Efforts Toward a Sustainable Co-Managed Lobster Fishery in Northeastern Newfoundland

**PAPER SESSIONS: SATURDAY 3:30-5:30**

**Marine Protected Areas** – Chair: Philip Dearden

Baker, Krista  
Designating Marine Protected Areas: An Ecosystem Approach

Ng'ang'a, Sam  
Information Requirements for Marine Protected Areas

Jessen, Sabine and Ban, Natalie  
Challenges and Opportunities to the Establishment of Marine Protected Areas in Canada

LeRoy, Sean; Dobell, Rod; Dorcey, Tony and Tansey, James  
Public Process and the Creation of Marine Protected Area at Race Rocks, British Columbia

**Stakeholders, Communities and Learning** – Chair: Rosemary Ommer

Diduck, Alan and Bankes, Nigel  
Unpacking Social Learning in Social-Ecological Systems: A Case Study of the Nunavut Wildlife Management Board's Introduction of Community-Based Management of Narwhal

Chouinard, Omer; Vanderlinden, Jean-Paul and Vasseur, Liette  
Community Capacity and Mutual Learning in some Coastal Communities in Maritime Provinces

Eamer, Joan; Kofinas, Gary and Smith, Barney  
What Works? Building a Framework to Match Objectives and Methods in Community-Based Monitoring Programs

Sutherland, Michael  
Drawing New Mental Maps: Stakeholder Relationships and Marine Resource Management

**Ecosystem-Based Management** – Chair: Dan Lane

Cobb, Donald; Berkes, Fikret and Berkes, Mina Kislalioglu  
Marine Environmental Quality, Ecosystem-Based Management, and their Social Dimensions in the North

Davoren, G.K.; Burke, C.; Stenhouse, I.J. and Montevecchi, W.A.  
Capelin Ecology - Interactions among Forage Fish, Predators, Fishers and Managers

Haedrich, Richard L. and Devine, Jennifer A.  
Fish Community and Human Ecology in a Fishery Ecosystem

Hatcher, Bruce G.  
Scaling Management Units to Ecosystem Components in Ocean Management Areas

**Ocean Regulation and Rights** – Chair: Michael Butler

Huebert, Rob  
The Return of the "Vikings": New Challenges for the Canadian North

Cockburn, Sara  
Sink or Swim: Building Resource Management Capacity Through Resource Claim Analysis

Dobson, Suzanne  
Industry versus Government Regulation for Ocean Governance in the "New Economy": An examination of the Jurisdictional and Regulatory Conflicts Impacting Corporate Policy-making in the Canadian Pacific Cruise Ship Industry

Doubleday, Suzanne  
Prospects for Institutional Adaptation in Relation to Culture: Sustainability and Nunavut

**POSTER SESSION: SATURDAY 5:30-7:00**

Bill, Laren and Henley, Thomas

Video-Recording of Northern Community-Based Monitoring: Case Studies of Baffin Island (NU), Lutsel K'e (NWT), Old Crow (YT), Queen Charlotte Islands (BC)

Blakney, Sherrie; Davidson-Hunt, Iain and Berkes, Fikret

Restoring Cultural and Ecological Landscapes: Using Indigenous Knowledge and Values for Environmental Health

Burke, C.; Stenhouse, I.J.; Davoren, G.K. and Montevecchi, W.A.

What the Past Can Tell Us about the Present: Part I: Historical Reconstruction of Coastal Settlements and Interactions with Marine Resources, 1500-2000

Campbell, David; Buchanan, Seana and Routledge, Rick

A fisherman's knowledge extends the Department of Fisheries and Oceans salmon size data by 10 years.

Dobson, Deirdre and Hutchinson, Ian

Effects of a Cascadia Megaequake on Coastal Fisheries in BC

Schaefer, H.L.; McCullough, D.; Johnston, S.K. and Duggan, D.R. (presenter)

Significant Habitats: Atlantic Coast Initiative (SHACI)

Fast, Helen; Cobb, Don; McDonald, Miriam and Newton, Steve

Developing a Research Agenda for Hudson Bay

Kristofferson, Allan H.

Management of the Anadromous Arctic Char Fisheries along Canada's Arctic Coastal Region - A practical approach to dealing with biological complexity

Lee, Robyn

Digby Annapolis Kings Wharf Strategy Project

M' Lot, Maria and Manseau, Micheline (presenter)

*Kâ Isinâkwâk Askîy*: Using Cree knowledge to perceive and describe the landscape of the Wapusk National Park Area

Pickrill, Richard A. and Todd, Brian J.

SEAMAP: Integrated seafloor data for ocean management in Canada

Quijon, Pedro A. and Snelgrove, Paul V.R.

Regulation of marine diversity in Bonne Bay, Western Newfoundland: potential changes in benthic communities and their relation to the fishery

Robichaud, Marise

Community capacity and scallop enhancement in Botsford Community

Sabean, J. and Clague, J.J.

Measuring Coastal Land-Level Change Associated With Large Earthquakes Using Marsh Foraminifera

Schlag, Michelle and Henley, Thomas

Development of A Strategy to Engage Inuvialuit Youth in Stewardship of Ocean Resources

Stenhouse, I.J.; Burke, C.; Davoren, G.K. and Montevecchi, W.A.

What the Past Can Tell Us about the Present: Part II: Historical Reconstruction of Seabird Populations, 1500-2000

Whitely, Jonathan

Turning the Tide: Working with shellfish farmers to understand the effects of their practices