

Fostering Sustainability
in Human and Natural Systems



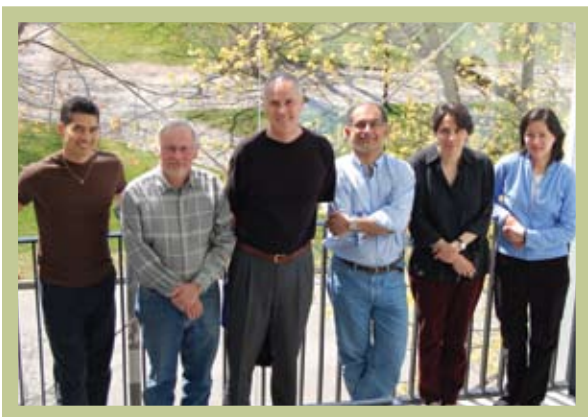
Fostering Sustainability In Human and Natural Systems

The mission of IRES is to foster sustainable futures through integrated research and learning about the linkages among human and natural systems to support decision making from local and global scales.

Director's Message

As Interim Director, I am extremely pleased to submit the annual report for the Institute for Resources, Environment and Sustainability at the University of British Columbia. This report covers two years, 2004 and 2005, given that time pressures and changes in staff made it impossible to submit an annual report last year.

This annual report is our first in the "new era" of IRES. One aspect of what is new is the wonderful Aquatic Ecosystems Research Laboratory (AERL) building, the new home of IRES and the Fisheries Centre. AERL provides us with a commodious, attractive, and collegial home for our Institute. A second new aspect is the change in faculty members and leadership at IRES. As many know, Les Lavkulich built the RMES graduate program from its inception over 25 years ago, and also built the Institute when opportunities arose over the last decade. Les retired from his position as Director and Professor in summer, 2004. Les's retirement left a major hole in our hearts and also in the leadership of the Institute. We all thank Les for the energy, mentorship, vision, and tireless service that he provided for so many years as Director. Ken Hall also reached the age at which faculty members must retire in winter, 2005. The departure of Les, followed 18 months later by Ken, marked a change in the faces, specializations and perspectives of the Institute. Yet these departures also have led to positive changes as well. Kai Chan joined IRES as a new Assistant Professor in fall, 2005. We welcome Kai to our organization and look forward to his insights, ideas, enthusiasm and bright spirit as part of IRES for many years. A third dimension has been an entire change in the staff of IRES. We were extraordinarily lucky to attract Kathryn Lewis to join us as Administrative Manager in IRES late in 2004. Kathryn then used her superb human resources skills to select a whole new administrative "dream team", with Lisa Belanger as Graduate Program Coordinator and Roberta Nouari as Financial Assistant for IRES.



Some IRES faculty members



Michael Healey provided important leadership for IRES in the second half of 2004 as Interim Director. During Mike's time as Director, the renewal of people and policies within IRES began on a highly successful track. Everyone in IRES thanks Mike for his contributions to IRES as Director, and then subsequently as Associate Director and mentor for the faculty who had less involvement with IRES in the past (particularly me).

I was happy to be invited to serve as Director beginning in 2005, but also mindful of the responsibility of trying to renew the efforts that were successful for RMES and IRES over many years. Since that time, the faculty and staff have devoted much time to revitalizing governance, management of the graduate program, and strategic planning within IRES. We have developed new approaches to managing information for graduate student programs, budgets, faculty associates and adjuncts and countless other administrative activities within the Institute. We have also spent considerable effort in searching for a new permanent Director, a topic to be addressed in the next annual report.

For me, the most satisfying aspects of being the Interim Director of IRES are:

- working with the brilliant, stimulating and creative students;
- working with the brilliant, stimulating and creative faculty;
- working with a motivated and professional staff that addresses all our needs before they become problems; and
- helping to move the Institute forward to help achieve its vision

Now I have a better understanding of why people feel that faculty members in this Institute are truly lucky.

Tim McDaniels

Highlights of 2004-2005

These have been years of large scale changes and successes at IRES. As already mentioned, we bid a happy retirement to Dr. Les Lavkulich, long time Director of IRES. In recognition of the services rendered by Dr. Lavkulich to both IRES and the University, a scholarship was established in his name, the Les Lavkulich Scholarship, which will be awarded annually to an outstanding RMES student.

Dr. Lavkulich's retirement led to the move of the C-CAIRN project from IRES to Anthropology and Sociology, under the leadership of Dr. Ralph Matthews.

In September of 2004, Dr. John Robinson received funding for his CFI project "Centre for Interactive Research on Sustainability" (CIRS), to build a new building focused on sustainable building techniques and initiative on the joint Great Northern Way Campus in Vancouver. The total value of the building will be approximately \$30 million dollars.



We had significant staff changes in 2004 as well, with most of the administrative team leaving to pursue other opportunities. Kara Ko went on maternity leave; Kathryn Lewis was hired as the Administrative Manager; Lisa Belanger was hired as the Graduate Program Coordinator and Roberta Nouari joined IRES as the Financial Assistant.

IRES continued to be successful in recruiting students. Our program enrolled 23 new students in 2004, which included 15 Master's and 8 PhD students.

In 2005, IRES consolidated from 3 campus locations into our new home, the CFI/BCKDF funded Aquatic Ecosystems Research Laboratory or AERL. Located on Main Mall, in the center of the UBC campus. We are very happy to have space for students and faculty to work together and build a community of leading-edge research.

In July, Dr. Terre Satterfield was promoted to Associate Professor and granted tenure and Dr. Scott Hinch was promoted to the rank of Professor. We also welcomed Dr. Kai Chan, as our newest Assistant Professor. Dr. Chan's research area is within the ecological and evolutionary underpinnings of invasions and infestations, and conservation planning for ecosystem services.

In September, Dr. Michael Healey left IRES for Japan to take up the prestigious Visiting Professorship in Canada Studies, Kwansai Gakuin University, Nishinomiya, Japan. In December we bid another faculty member, Dr. Ken Hall a fond happy retirement.

In 2005, IRES continued its success in recruiting outstanding new students with 20 students (10 Masters and PhD students) joining our program.



Research at IRES

IRES faculty and their collaborators approach their research from within the paradigms of trans-disciplinarity. By fostering sustainable futures through integrated research and learning about the linkages among human and natural systems to support decision making from local to global scales, the researchers at IRES focus on addressing real problems and

developing feasible solutions that are relevant for private and public policy. The research is based on strong theoretical and analytical frameworks and is structured to address relationships among humans and their natural and built environments, within a context of ecological integrity, human well-being and sustainability.

Core Values

Within this mission statement is embedded a set of core values that should guide IRES activities and strategies in broad terms.

These core values include:

- Policy Relevance
- Integrated Learning
- Linkages With Civil Society
- Trans-Disciplinarity
- Linkages Among Human and Natural Systems

Faculty and students at IRES cover the breadth of resource management and sustainability issues with their research. We have identified domains of focus that accentuate our strengths. Due to the nature of our research, these are not stand alone areas of research, cross over in focus and research questions are valued and explored. Please refer to our listings of research grants and publications for detailed examples of current research undertakings. Our areas of focus are:

Water, Ecosystems and Communities

- Watersheds
- Water
- Fisheries
- Ecosystems and Ecosystem Services

Energy, Technology, Health and Society

- Energy
- Health and The Environment
- Society, Science and Technological Change
- Complex Adaptive Systems

Local & Global Environmental Change

- Climate Change
- Extreme Events and Natural Hazards
- Environmental Justice/Political Ecology
- Participatory Process and Civil Society
- Risk, Decision Making, and Governance
- Risk and Culture
- Business and Sustainability

International Internship Program



Adam Perry, 2005 Intern hard at work

Since 1998 the IRES International Internship Program has been sending young Canadian university graduates overseas. With placements in most of the developing areas of the world over this time, we have established a network of partner NGO and host organizations with a focus on sustainable futures. Funded by the Canadian International Development Agency (CIDA), our seven internship placements in 2005-2006 were in Africa, South America and India. In 2004-2005 we had three domestic interns funded by Science Horizons through Environment Canada and 7 international interns funded by CIDA. These placements were also in Africa, South America and India.

In 2005 we established a partnership with the Canadian Water Network to develop an internship program that undertakes to provide recent graduates with exposure to research beyond their degrees in water resource management both within Canada and internationally.

Over the coming decades, society faces a profound challenge and responsibility to transition toward sustainable living and to ensure a liveable world for future generations. IRES interns personify IRES' commitment to global citizenship on a local scale by providing opportunities and experiences to influence change in developing countries. Young Canadians bring enthusiasm, knowledge, and practice the Canadian philosophy of peace, order and good governance. With a subject focus upon water resource management, community education regarding sustainable farming, living and building practices, and the sharing of local knowledge and culture with Canadians to bring back to Canada, the IRES International Internship program recruits Canadian university graduates with a commitment and enthusiasm to be a global citizen.

Adaptations & Impacts Research Division

The Adaptation and Impacts Research Division (AIRD) of Environment Canada is committed to helping Canadians become well-adapted to current and future changes in the atmosphere. As part of its national program, AIRD established a Memorandum of Understanding with the University of British Columbia's Sustainable Development Research Institute (SDRI) in 1995 to conduct collaborative scientific research projects to expand understanding of climate change impacts and adaptation, and linkages with sustainable development. After the merger between SDRI and IRES, AIRD staff has continued to work with UBC faculty in IRES and other research units to pursue interdisciplinary research efforts in a variety of areas. Since 1995, AIRD has initiated several projects, obtaining grants for its UBC-based activities totaling \$1.3 million, providing support for 14 graduate students and post-doctoral fellows. AIRD staff serves on advisory committees for 5 current graduate students, and have been on 8 committees for students who have successfully completed their studies. AIRD staff based at IRES and their research activities are listed below:

Dr. Stewart Cohen, AIRD Senior Researcher: Dr. Cohen has nearly 25 years of research experience in climate change impacts and adaptation, and has organized case studies throughout Canada. Since 1997, he has initiated a series of collaborative studies on climate change and water management in the Okanagan, and has contributed to the agri-environmental standards study coordinated by Tina Neale (AIRD). He is participating in a 2-year study on climate change visualization, led by Prof. Stephen Sheppard (Forestry), and is also initiating an exploratory effort on linking climate change adaptation, mitigation, and sustainable development with Prof. John Robinson (IRES), Dr. Livia Bizikova (AIRD) and many others. He has been a contributor to various reports of the Intergovernmental Panel on Climate Change (IPCC) and is a lead author for the ongoing IPCC 4th Assessment. Besides his role within AIRD, he is also an Adjunct Professor with IRES, and teaches a graduate course on climate change.

Dr. Yongyuan Yin, AIRD Researcher: Dr. Yongyuan Yin is an environmental scientist with AIRD and an adjunct faculty member of IRES. Educated both in China and Canada, he has research experience and contacts in both countries and has been providing bridge functions to link research and exchange activities of the two countries. His research interests cover

climate change impacts and adaptation, sustainability evaluation, environmental and resource management, land use and planning, and decision support systems. He designed and applied integrated assessment (IA) methods to study the impacts of climate change and adaptation in the Georgia Basin and Mackenzie River Basin of Canada, and many regions in China. Dr. Yin is the PI of the AIACC AS25 project funded by UNEP/GEF to study climate vulnerability and adaptation in Western China. He is also leading the impacts and adaptation component of a CIDA project on carbon sequestration in China.

Dr. Livia Bizikova, AIRD Post-Doctoral Fellow: Dr. Bizikova's work focuses on a new AIRD-IRES initiative examining linkages between climate change adaptation, mitigation and sustainable development (AMSD). She is the principle organizer of an international workshop bringing scientists and practitioners together to examine AMSD linkages. Her PhD. thesis is on socio-economic impacts of land-use change and linkages with climate change in transition countries. In 2001, she participated in the Young Scientists Summer Program at IIASA (Austria) and had a fellowship in Malardalen University (Sweden). From 2003 to 2005, she worked on the international project IDARI addressing rural development and linkages with climate change.

Robin Bing Rong, AIRD Researcher: Mr. Bing Rong has been the coordinator for the Canada-China Cooperation in Climate Change (C5) project for the past 4 years and focused on assessing the vulnerability to climate change on agriculture. He has over 8 years experience in application of GIS in support of environmental planning and management.

Tina Neale, AIRD Research Coordinator. Ms. Tina Neale's research interests include "mainstreaming" climate change, particularly in the area of resource management and planning. She is actively involved in AIRD's ongoing research examining the impacts of climate change on water resources in the Okanagan Basin, and has recently completed a master thesis focusing on the impacts of climate change, population growth and demand side management on future urban water demands. She is also coordinating AIRD's national research efforts on agri-environmental standards for water availability and is involved in organizing the international workshop on AMSD linkages.

Academic Program



Some IRES graduate students

Students Currently Enrolled in the Resource Management & Environmental Studies Program

MA Students

Name	Supervisor
Alice Cohen	Dr Karen Bakker
Jennifer Karmona	Dr George Hoberg
Donna Pettipas	Dr Les Lavkulich
Manny (Emmanuel) Villanueva	Dr Tim McDaniels
Amy Frye	Dr Patrick Mooney
Brett Dolter	Dr William Rees
Lisa Liguori	Dr Terre Satterfield
Kelly Harrell	Dr Frank Tester
Nora Timmerman	Dr David Tindall

Academic Program



MSc Students

Name	Supervisor
Alex Russell	Dr Hadi Dowlatabadi
Kim Charlie	Dr Ken Hall
Candace Francis	Dr Ken Hall
Maria Solano	Dr Ken Hall
Jody Frolek	Dr Michael Healey
Jennifer Ardiel	Dr Milind Kandlikar
Jessica Rogers	Dr Charles Menzies
Line Christensen	Dr Daniel Pauly
Megan Moody	Dr Tony Pitcher
Pablo Trujillo	Dr Tony Pitcher
Frederick Ghatala	Dr John Robinson
Dulcie Chan	Dr Hans Schreier
Trudy Naugler	Dr Hans Schreier
Sheena Pappas	Dr Hans Schreier
Irish Kerry Ellen	Dr Andrew Trites
Peter Agersted	Dr Peter Williams (SFU)
Zofia Bornik	Dr Hadi Dowlatabadi
Sarah Burch	Dr John Robinson

Academic Program

PhD

Name	Supervisor 1	Supervisor 2
Shinan Kassam	Dr Rick Barichello (co-sup)	Sumeet Gulati (co-sup)
Rasha Maal-Bared	Dr Karen Bartlett	
Miriam Bixby	Dr Kathy Baylis	
Stacy Langsdale	Dr. Stewart Cohen	
Jane Lister	Dr. Peter Dauvergne	
Michelle Boyle	Dr Hadi Dowlatabadi	
Jamie Donatuto	Dr Hadi Dowlatabadi	
Negar Elmieh	Dr Hadi Dowlatabadi	
Jamie MacDonald	Dr Hadi Dowlatabadi	
Eric Mazzi	Dr Hadi Dowlatabadi	
Raul Pacheco-Vega	Dr Hadi Dowlatabadi	
Shannon Hagerman	Dr Hadi Dowlatabadi	Dr Terre Satterfield
Charles Wilson	Dr Tim McDaniels	
Sharon Chang	Dr Eric Hall	
Patricia Keen	Dr Ken Hall	
James Carruthers	Dr Les Lavkulich	
Stephanie Grand	Dr Les Lavkulich	
Janalyn Kotaska	Dr Charles Menzies	
Veronica Wahl	Dr Patrick Mooney	
Vanessa Timmer	Dr Peter Nemetz	
Karen Rideout	Dr Aleck Ostry	
Ahmed Gelchu	Dr Daniel Pauly	
Elizabeth Mohammed	Dr Daniel Pauly	
Yvette Rizzo	Dr Daniel Pauly	
Dawit Tesfamichael	Dr Daniel Pauly	
Cameron Ainsworth	Dr Tony Pitcher	

Academic Program

PhD cont

Name	Supervisor 1	Supervisor 2
Eny Buchary	Dr Tony Pitcher	
Wai Cheung	Dr Tony Pitcher	
Robyn Forrest	Dr Tony Pitcher	
Telmo Morato Gomes	Dr Tony Pitcher	
Nichole Dusyk	Dr John Robinson	
Meg O'Shea	Dr John Robinson	
Kirthi Roberts	Dr John Robinson	
Arnold Elias	Dr William Rees	
Tihut Asfaw	Dr Terre Satterfield	
David Boyd	Dr Terre Satterfield	
David Brownstein	Dr Terre Satterfield	Dr Graeme Wynn
Maria du Monceau de Bergendal	Dr Terre Satterfield	
Alyssa Joyce	Dr Terre Satterfield	
Anton Pitts	Dr Terre Satterfield	
Cecilia Roa-Garcia	Dr Hans Schreier	
James Ross	Dr Hans Schreier	
Gakushi Ishimura	Dr Rashid Sumaila	
Ahmed Khan	Dr Rashid Sumaila	
Yajie (Lucy) Liu	Dr Rashid Sumaila	
Allan Marsden	Dr Rashid Sumaila	
Glen Hearn	Dr Ian Townsend-Gault	
Jonathan Anticamara	Dr Amanda Vincent	
Natalie Ban	Dr Amanda Vincent	
Sarah Foster	Dr Amanda Vincent	
Maravic Pajaro	Dr Amanda Vincent	Dr. M Mulrennan
Craig Mayberry	Dr Ilan Vertinsky	
Shashidharan Enarth	Dr J Wood	

Academic Program

Non RMES Supervised Students

Chang, Stephanie

D. Cole M.A. (SCARP)
M. Heideman Ph.D. (Earth Sciences, Simon Fraser University) committee member
M. Kissinger Ph.D. (SCARP) committee member
K. Peterson M.Sc. (SCARP)
M. Seemann Ph.D. (Geography, University of Victoria) committee member
E. Yasui (Ohara) Ph.D. (SCARP) committee member
S. Yavari Ph.D. (Civil Engineering) committee member

Dowlatabadi, Hadi

M. Oravetz (Carnegie Mellon University)
J. Vanderzwaag M.Sc. (Civil Engineering) committee member

Hall Ken

E. Li M.Sc. (Civil Engineering)
H. Goble M.Sc. (Civil Engineering) co-supervised with Schreier
A. Muttray Ph.D. (Civil Engineering) committee member
D. Shiskowski Ph.D. (Civil Engineering) committee member
W. Tao Ph.D. (Civil Engineering)

Healey, Mike

T. V. Mason, Ph.D. (English) co-supervise with Laurie Ricou

Hinch, Scott

G. Crossin Ph.D.
K. Hruska Ph.D. co-supervised with Healey
K. Young Ph.D.
E. Mellina Ph.D.
L. Pon M.Sc.
T. Mathes M.Sc.
P. Nadeau M.Sc.
J. Young M.Sc.
S. Murray M.Sc. (Forestry) committee member
A. Camfield Ph.D. (Forestry) committee member
L. Miller Ph.D. (Forestry) committee member
N. Fanguie Ph.D. (Zoology) committee member
H. Bears Ph.D. (Zoology) committee member
M. Melnychuk M.Sc. (Zoology) committee member
R. Blank M.Sc. (Forestry) committee member

McDaniels, Tim

M. Bazylewich Ph.D. (Plan) co-supervised with Dorcey
J. Bundali M.Sc. (Plan)
B. Chow M.A. (Plan) co-supervised with Dorcey
S. Clumpner M.A. (Plan)

D. Cole M.Sc. (Plan) co-supervised with Chang
A. Fish M.A. (Plan) co-supervised with Dorcey
K. Gerwing M.A. (Plan)
C. Jacobs M.A. (Plan)
H. Longstaff Ph.D. (IIDS) co-supervised with McDonald
R. McNally Ph.D. (Plan) co-supervised with Frank
K. Peterson M.Sc. (Plan) co-supervised with Chang
L. Ronalds M.A. (Plan)
A. C de Silva Ph.D. (Bridge) co-supervised with Dunbar

Robinson, John

A. Frank Ph.D. (Geography)
S. Talwar Ph.D. (Geography) co-supervised with Brian Klinkenberg
V. Sparrow M.A. (Geography)
E. Levin M.A. (Geography)
V. Long M.A. (Geography)
N. Ban, Ph.D. (Fisheries Centre) committee member
K. Furlong Ph.D. (Geography) committee member
M. Kissinger Ph.D. (SCARP) committee member
L. Rogers Ph.D., (Education) committee member

Satterfield, Terre

J. Timko Ph.D. (Forestry) co-supervised with John Innes
V. Gibson Ph.D. (Mining) committee member
N. Klenk Ph.D. (Forestry) committee member
N. Young Ph.D. (Sociology) committee member
C. Odell Ph.D. (Mining) committee member

Schreier, Hans

F. Bradinoni Ph.D. (Geography)
N. Bellack Ph.D. (Health & Epid.)
H. Gould M.Sc. (Civil Engineering)
N. Prystajecy Ph.D. (Health & Epid.)
M. Ball M.Sc. (AGRO)
K. Forest Ph.D. (Earth Science, SFU)
J. Borggard M.Sc. (Eng, University of Calgary)
D. Whyte M.Sc. (Geography)
Kaya Forest Ph.D. (Earth Science, SFU)
Joal Borggard M.Sc. (Eng, University of Calgary)
Dion Whyte M.Sc. (Geography)

Vertinsky, Ilan

O. Branzei Ph.D.
K. Fuller Ph.D.
A. Peer Ph.D. co-supervisor
M. Au Ph.D. co-supervisor
A. Mathey Ph.D. co-supervisor
G. Hickey Ph.D. co-supervisor
A. Li M.A. co-supervisor

Academic Program

Admissions

September 2004

Total number of applicants:	135
Total number of MSc admitted:	10
Total number of MA admitted:	5
Total number of PhD admitted:	8
Total number admitted:	23

September 2005

Total number of applicants:	103
Total number of MSc admitted:	8
Total number of MA admitted:	2
Total number of PhD admitted:	10
Total number admitted:	20

Graduates from 2004 with Thesis Titles

Coombs, Andrea, MSc

"Marine Mammals and Human Health in the Easter Bering Sea: Using an Ecosystem-based Food Web Model to Track"

Edinburgh, Melanie Jane, PhD

"Development of New Food Products: An Impact Assessment Approach"

Magwood, Simone, MSc

"Groundwater and Surface Water Management and Drinking Water Issues in Hatzic Valley"

Rolfe, Janet Terry, PhD

"Using a Transdisciplinary Approach to Assess Food Security Issues in the North American Great Plains"

Schreiber, Dorothee Karin PhD

"The Social Construction of Salmon Farming in British Columbia: Power, Knowledge, and Production"

Brydon, Julia, MSc

"The Effectiveness of Stormwater Ponds in Contaminant Removal from Urban Stormwater Runoff in the Lower Fraser Valley, BC"

Chakrabarti, Bhaskar, PhD

"Participation at the Crossroad: The Politics of Water Allocation in Rural West Bengal, India"

Galland, Daniel, MSc

"History and Evolution of Salmon Aquaculture Siting Policy in British Columbia"

Irwin, John Jacob Michael, PhD

"Towards Common Ground: Sustainable Development in Southeast False Creek"

Pearson, Michael Philip, PhD

"The ecology, status and recovery prospects of Noonsack dace (*Rhinichthys Cataractae* ssp.) and Salish sucker (*Catostomus* sp.) in Canada"

Smith, Ione, MSc

"Cumulative Effects of Agricultural Intensification on Nutrient and Trace Metal Pollution"

Swartz, Wilfram Ken, MSc

"Global Maps of the Growth of Japanese Marine Fisheries and Fish Consumption"



Academic Program

Graduates from 2005 with Thesis Titles

Bennett, Sharon, MSc

"An Evaluation of the Potential for Biodegradation of Methanol in the Fraser River, BC"

Blincoe-Shepherd, Philippa Marie, MSc

"The Nature of Human Adaptation: Exploring Local Water Resource Management in the Okanagan Region"

Bornik, Zofia Birgit, MSc

"Salmon Farm Location in the Broughton Archipelago, BC: A Quantitative Analysis"

Friere, Katia de Meirelles Felizola, PhD

"Fishing Impacts on Marine Ecosystems off Brazil, with Emphasis on the Northeastern Region"

Gerrard, Jason, MSc

"The Environmental Impact of End-of-Life Vehicle Legislation and Vehicle Use in Europe and North America"

Gravel, Caroline, MA

"Application of Foreign Rules and Local Constraints : A Case Study of the Environmental Impact Assessment in the Pudong New Area, China"

Kinnee, Karen, MSc

"Effects of Pulp Mill Effluent on Marine Mussels in an On-Site, Flow-Through Bioassay"

Lapp, Laura, MSc

"The Fraser Basin Council's Role as a Facilitating Institution in the Consensus-Based Development of the Fraser River Management Plan"

Levine, Adam, MSc

"Disposal Options to Mitigate BSE Risks in the Lower Mainland, British Columbia"

MacDonald, Jennifer, MSc

"Impacts of Urban Hillslope Development and Agriculture on Hydrology and Water Quality in the Chilliwack Creek Watershed, British Columbia"

Muraro, Matthew, MSc

"Dynamics of Temporal and Spatial Mercury Contamination in an Urban Watershed"

Ogden, Donna Lesley, MSc

"Towards an Holistic Assessment of Intertidal Ecosystem Health"

Pan, Szu-Hua, MSc

"Phosphorus Release from Dairy Manure"

Pan, Ting, MSc

"Chinese Immigrants and Sustainable Community Development from a Cultural Perspective"

Poon, Amy Min-Yee, MSc

"Haunted Waters: An Estimate of Ghost Fishing of Crabs and Lobsters by Traps"

Shaw, Alison, PhD

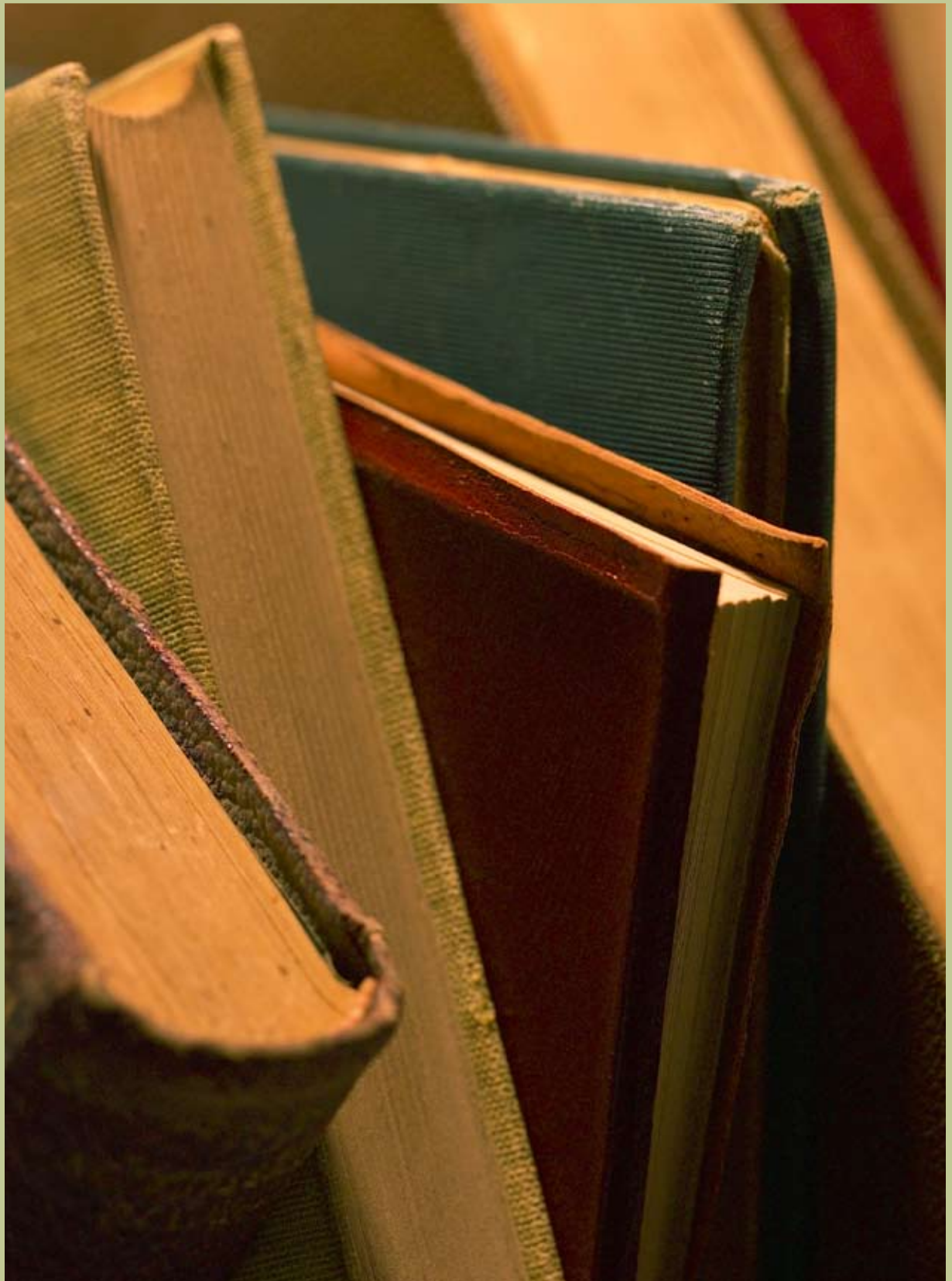
"Imbued Meaning: Science-Policy Interactions in the Intergovernmental Panel on Climate Change"

Takahashi, Shingo, MSc

"A Policy Analysis of Forest Carbon Offset System Alternatives for Japan"

Yim, Yolanda, MA

"Public Perceptions of Drinking Water Risk: A Community Perspective"



Faculty

Core Faculty

Kai Chan: Assistant Professor

Stephanie Chang: Associate Professor

Anthony Dorcey: Professor

Hadi Dowlatabadi: Professor

Lawrence Frank: Associate Professor

Ken Hall: Professor

Mike Healey: Professor

Scott Hinch: Associate Professor

Tim McDaniels: Professor/Interim Director

John Robinson: Professor

Terre Satterfield: Associate Professor

Hans Schreier: Professor

Ilan Vertinsky: Professor

Associate Faculty

Karen Bakker: Assistant Professor
Geography Department

Karen Bartlett: Assistant Professor
Occupational & Environmental Hygiene

Mike Brauer: Professor
Occupational & Environmental Hygiene

Villy Christensen: Associate Professor
Fisheries Centre

Sheldon Duff: Professor
Chemical & Biological Engineering

John Grace: Professor
Chemical & Biological Engineering

Kathryn Harrison: Associate Professor
Political Science Department

Grant Ingram: Professor
Earth & Ocean Sciences

Milind Kandlikar: Assistant Professor
Institute of Asian Research (IAR)

Philippe Lebillon: Assistant Professor
Geography Department /Liu Institute for Global Issues

Steve Martell: Assistant Professor
Fisheries Centre

Ralph Matthews: Professor
Anthropology & Sociology

Don Mavinic: Professor
Civil Engineering

Charles Menzies: Associate Professor
Anthropology & Sociology

Patrick Mooney: Associate Professor
Landscape Architecture

Dan(iel) Moore: Associate Professor
Geography Department

Peter Nemetz: Professor
Sauder School of Business

Richard Paisley: Research Associate
Law Faculty

Daniel Pauly: Professor
Fisheries Centre

Tony Pitcher: Professor
Fisheries Centre

William (Bill) Rees: Professor
Community and Regional Planning

Douw Steyn: Professor, Assoc Dean
Earth & Ocean Sciences

Rashid Sumaila: Assistant Professor
Fisheries Centre

Kay Teschke: Professor
School of Occupational and Environmental Hygiene

Frank Tester: Associate Professor
School of Social Work and Family Studies

Andrew Trites: Professor
Fisheries Centre

Faculty

Rob Vanwynsberghe: Assistant Professor
Institute of Health Promotion Research

Amanda Vincent: Associate Professor
Fisheries Centre

Carl Walters: Professor
Fisheries Centre

Markus Weiler: Assistant Professor
Geography Department

Paul Wood: Assistant Professor
Forest Resources Management

Graeme Wynn: Professor / Head
Geography Department

Adjuncts

Jeff Carmichael: Senior Modeller
Envision Sustainability Tools Inc.

William Carr: President/Director
CSQ Environmental Technologies Ltd.

Stewart Cohen: Scientist
Adaptation and Impacts Research Division (AIRD),
Environment Canada

Robert Falls: President
Ocean Carbon Science Inc.

Robin Gregory: Research Associate
Decision Research

Kim Hyatt: Head
Salmon in Regional Ecosystems Program,
Fisheries and Oceans Canada

Colin Levings: Research Scientist
Fisheries and Oceans Canada, West Vancouver Laboratory

Fiona Peterson: Management Consultant

John Sproul: Environmental Economist and Policy Advisor
Resource and Economics Ministry

John Stockner: Research scientist
Eco-Logic Ltd

James Tansey: Lecture
James Martin Institute, Oxford Said Business School

Gabriel (Tonny) Wagey: National Project Manager
Arafura and Timor Seas Expert Forum

Yongyuan Yin: Scientist
Adaptation and Impacts Research Division (AIRD),
Environment Canada



Staff



Lisa Belanger: Graduate Program Coordinator

Gina Bestbier (to May 2005): Research Assistant

Helen Cain (to December 2004): Administrative Manager

Jamie Dickson (to September 2004): Admin Assistant

Randi Kruse-Ferdinands: Project Coordinator

Deborah Herbert (to November 2005): Project Manager

Kara Ko (to July 2005): Internship Coordinator

Layle Larusenson (to February 2004): Financial Assistant

Kathryn Lewis: Administrative Manager

Jennifer McDonald: Research Assistant

Diane Mah (to June 2005): Financial Assistant

Alison Munro: Project Manager

Roberta Nouari: Financial Assistant/ Internship Coordinator

Jennifer Shaw (to September 2004): Graduate Program Coordinator

Leslie Stephenson (to August 2004): Assistant Director

Elena Wang: IRES/SDRI Secretary

Academic Awards and Distinctions

Faculty

Chang, Stephanie

Canada Research Chair (Tier 2), Disaster Management and Urban Sustainability

Healey, Mike

Visiting Professorship in Canadian Studies, Kwansai Gakuin University, Nishinomiya, Japan, September 2005-July 2006

The American Fisheries Society Award of Excellence: in recognition of inspirational leadership and outstanding contributions to the fields of fisheries science, education and aquatic biology, and to the American Fisheries Society and the Fisheries Management Section.

Scientific Advisor (Independent Science Board), Calfed Bay-Delta Program, California, ended May 2005.

Member, Board of Directors, Coastal Zone Canada, 2004-2006

Hinch, Scott

The American Fisheries Society Award of Excellence: in recognition of inspirational leadership and outstanding contributions to the fields of fisheries science, education and aquatic biology, and to the American Fisheries Society and the Fisheries Management Section.

Hans Schreier

Science in Action Award 2004:

The United Nations International Year of Fresh Water, Science, Education and Conservation Award. For outstanding work in making watershed management knowledge and innovative, cost-effective applications possible in Canada and in Developing Countries abroad. Canadian UN Initiative
See: www.wonderofwater.ca

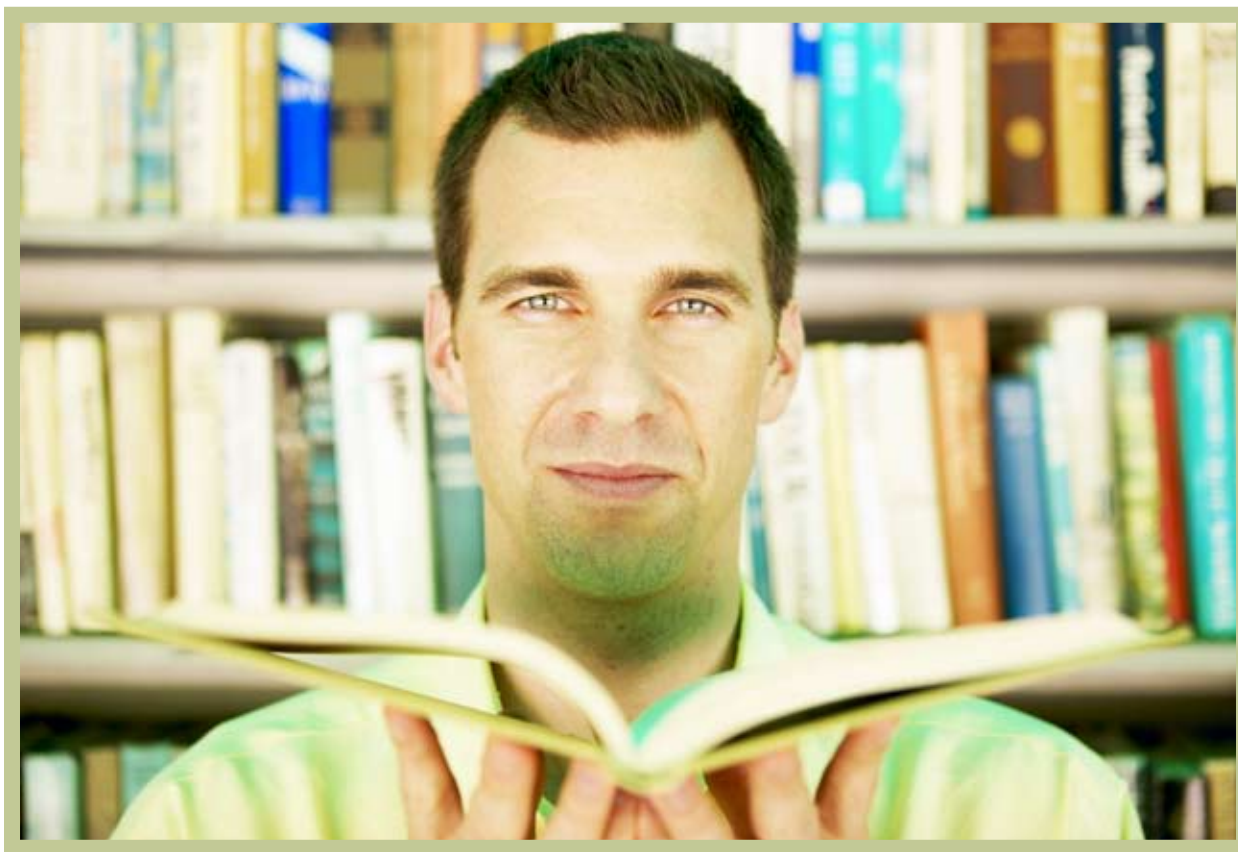
Recognized by SEEDS Social, Ecological, Economic Development Studies for developing Indicators of Sustainability for the University of British Columbia. Oct. 3, 2004

Larry Frank

Society Of Behavioral Medicine – Citation Abstract Award For Paper: Frank, LD., Conway T L, Sallis JF., Saelens, BE, Cain, K 2005: "Physical Activity Relationships With Objective And Perceived Measures Of Urban Form"
Clarkson Chair and Visiting Professorship at the University of Buffalo March 2006



Research Grants



Project: Norm Evolution in Response to Dilemmas

Principle Investigator: Burgess
Co-Investigator: Hadi Dowlatabadi and many other people
Granting Agency: Genome Canada
Period: 2005-2006
Total Amount: \$1,000,000

Project: Mitigation of Extreme Events: the case of Electric Power

Principle Investigator: Stephanie Chang, Tim McDaniels
Co-Investigators: Dorothy Reed
Granting Agency: US NSF, through University of Washington
Period: 2003-2006
Total Amount: \$400,000 USD

Project: Life Cycle Analysis

Principle Investigator: Hadi Dowlatabadi, Milind Kandlikar
Granting Agency: Auto 21
Period: 2005-2006
Total Amount: \$25,000

Project: Decision Aiding with Northern Community Engagement

Principle Investigator: Hadi Dowlatabadi
Granting Agency: SSHRC
Period: 2005-2006
Total Amount: \$20,000

Project: Health impacts of Climate Change and Climate Policy

Principle Investigator: Hadi Dowlatabadi
Co-Investigators: Milind Kandlikar
Granting Agency: Exxon Mobile Education Fnd
Period: 2002-2006
Total Amount: \$250,000

Project: Adaptation in Northern Communities

Principle Investigator: Hadi Dowlatabadi
Co-Investigators: Milind Kandlikar, Rowley, James Tansey
Granting Agency: NR Can
Period: 2005-2006
Total Amount: \$49,000

Research Grants

Project: The Fate of Biotechnology

Principle Investigator: John Fairweather, Terre Satterfield
Granting Agency: New Zealand Foundation for Research and Technology
Period: 2003-2004
Total Amount: \$200,000 NZ

Project: The Fate of Biotechnology in India

Principle Investigator: Milind Kandlikar
Co-Investigators: Terre Satterfield
Granting Agency: SSHRC
Period: 2005-2007
Total Amount: \$165,000

Project: CIHR Strategic Training Program to Bridge Public Health

Principle Investigator: Ken Hall
Co-Investigators: Kay Teschke and others
Granting Agency: Engineering and Policy Research
Period: 2002-2008
Total Amount: \$2,000,000

Project: Non-point Source Pollution, Cumulative Effects of Contaminants in Watersheds

Principle Investigator: Ken Hall
Co-Investigators: Hans Schreier
Granting Agency: National Centers for Excellence-Clean Water
Period: 2002-2004
Total Amount: \$100,848

Project: Antibiotics from Agricultural Wastes and their Impacts, and Microbial Dynamics in Constructed Wetlands Treating Wood Wastes

Principle Investigator: Ken Hall
Granting Agency: NSERC Operating Grant
Period: 2004-2008
Total Amount: \$170,000

Project: Lachat Flow Injection Analyzer System

Principle Investigator: Ken Hall
Co Investigators: Professors in Civil Eng.
Granting Agency: NSERC Equipment Grant,
Period: 2004
Total Amount: \$85,337

Project: Nanotechnology and Society

Principle Investigator: B. Harthorn
Co Investigators: Terre Satterfield and others
Granting Agency: US National Science Foundation
Period: 2005-2010
Total Amount: \$5,000,000

Project: Review and Design of Herring Research and Management Program

Principle Investigator: Mike Healey
Granting Agency: DFO
Period: 2005
Total Amount: \$15,000

Project: Municipal Government Tools for Endangered Species Conservation

Principle Investigator: Mike Healey
Granting Agency: Hampton Fund
Period: 2002-2004
Total Amount: \$21,000

Project: Review and Design of Herring Research and Management Program

Principle Investigator: Mike Healey
Granting Agency: DFO
Period: 2005
Total Amount: \$15,000

Project: Energetics and Migrations of Sockeye in Relation to Run Timing and Disease

Principle Investigator: Scott Hinch
Co-Investigators: Mike Healey, A. Farrell (SFU)
Granting Agency: NSERC
Period: 2002-2007
Total Amount: \$220,000

Project: Investigations to Determine the Cause of Early Migration Behaviour and Magnitude of In-River Survival and Losses Above Mission for Adult Late-run Fraser River Sockeye

Principle Investigator: Scott Hinch
Co-Investigators: Consortium of 7 research teams
Granting Agency: Pacific Salmon Commission
Southern Endowment Fund
Period: 2005-2006
Total Amount: \$1,400,000

Research Grants

Project: Passage Efficiency and Migration Behaviour of Salmonid Fishes at the Seton Dam Fishway

Principle Investigator: Scott Hinch
Co-Investigators: A. Farrell, S. Cooke
Granting Agency: BC Hydro
Period: 2005-2006
Total Amount: \$129,938

Project: Energetics of Anadromous Fish

Principle Investigator: Scott Hinch
Granting Agency: NSERC Discovery
Period: 2004-2009
Total Amount: \$26,100

Project: Survival, Behaviour and Physiology of Migrating Adult late-Run Fraser River Sockeye

Principle Investigator: Scott Hinch
Co-Investigators: A. Farrell, S. Cooke
Granting Agency: Pacific Salmon Commission
Period: 2004-2005
Total Amount: \$96,000

Project: Abnormal Migration and Premature Mortality in Salmon

Principle Investigator: Scott Hinch
Co-Investigators: A. Farrell, M. Healey, G. VanderKraak
Granting Agency: NSERC Strategic
Period: 2003-2007
Total Amount: \$910,000

Project: Energetics of Fraser Salmon

Principle Investigator: Scott Hinch
Granting Agency: Canadian Dept. Fisheries & Oceans
Period: 2003-2004
Total Amount: \$20,000

Project: Effects of Buffer Widths on Cutthroat Trout and Habitat

Principle Investigator: Scott Hinch
Co-Investigators: J. Richardson
Granting Agency: Forest Innovation Investment B.C.
Period: 2003-2004
Total Amount: \$25,000

Project: Invertebrate and Temperature Responses to Logging

Principle Investigator: Scott Hinch
Co-Investigators: D. Moore
Granting Agency: Forest Innovation Investment B.C.
Period: 2003-2004
Total Amount: \$68,000

Project: Stream Restoration Evaluation

Principle Investigator: Scott Hinch
Granting Agency: Canadian Dept. Fisheries & Oceans
Period: 2005-2006
Total Amount: \$84,000

Project: Worker Safety and Mental Models of Risk Perception

Principle Investigator: Kennedy
Co-Investigator: Hadi Dowlatabadi and many other people
Granting Agency: CIHR
Period: 2005-2006

Project: Resilience and Local Capacity Development in British Columbia's Coastal Communities

Principle Investigator: Ralph Matthews
Co-Investigators: Terre Satterfield, Bruce Milne, Don Fishe
Granting Agency: SSHRC/CURA
Period: 2004-2009
Total Amount: \$1,000,000

Project: Assessing the Capacity of British Columbia's Coastal Communities to Deal with Climate Change Impacts

Principle Investigator: Ralph Matthews
Co-Investigators: Terre Satterfield, Nathan Young, Robin Sydneysmith
Granting Agency: Climate Change Impacts and Adaptation Program (CCIAP*), Natural Resources Canada.
Period: 2005-2007
Total Amount: \$108,000

Project: Exploring Social Cohesion in a Globalizing Era

Principle Investigator: Ralph Matthews
Co-Investigators: Terre Satterfield, Gerry Veenstra, Brian Elliot
Granting Agency: SSHRC/Resilient Communities Project
Period: 2002-2005
Total Amount: \$300,000

Project: Decision Making for Forestry Fisheries and Biodiversity Under Irreducible Uncertainty Regarding Climate Change

Principle Investigator: Tim McDaniels
Co-Investigators: Hadi Dowlatabadi
Granting Agency: US NSF sub grant from Carnegie Mellon
Period: 2002-2009
Total Amount: \$410,000

Research Grants

Project: First Nations Governance

Principle Investigator: G. Hoberg

Co-Investigators: Ilan Vertinsky

Granting Agency: NCE

Period: 2001-2004

Total Amount: \$230,000

Project: Adaptive Management for Salmon Aquaculture

Principle Investigator: Tim McDaniels

Co-Investigators: Hadi Dowlatabadi, Hipel

Granting Agency: SSHRC/NSERC/NCE Aquanet

Period: 2003-2004

Total Amount: \$37,000

Project: Centre for Integrated Study of the Human Dimensions of Global Change (Various projects on values and decision-making)

Principle Investigator: Tim McDaniels

Co-Investigators: Gregory

Granting Agency: US NSF (part of a major grant to Carnegie Mellon University)

Period: 2003-2004

Total Amount: \$100,000 USD

Project: Asia Pacific Program on Cross-Cultural and Comparative Research on Dispute Resolution

Principle Investigator: Pitman Potter

Co-Investigators: Tim McDaniels and eight others

Granting Agency: SSHRC/MCRI

Period: 2003-2007

Total Amount: \$2,500,000

Project: Climate Decision Making Center

Principle Investigator: Morgan

Co-Investigators: Hadi Dowlatabadi, Tim McDaniels and many other people

Granting Agency: US NSF

Period: 2005-2006

Total Amount: \$7,000,000

Project: Culture, Norms, Law

Principle Investigator: Pitman Potter

Co-Investigators: Ilan Vertinsky

Granting Agency: SSHRC (MCRI)

Period: 2000-2004

Total Amount: \$2,000,000

Project: Maori Perceptions of GMO Risks

Principle Investigator: Mere Roberts, Terre Satterfield

Co-Investigators: Manuka Henare, Melissa Finucane

Granting Agency: New Zealand Foundation for Research and Technology

Period: 2001-2004

Total Amount: \$400,000NZ

Project: Advanced High-Performance Building Envelope with Integrated Photovoltaic Panels, Mechanized Solar Shading, Mechanized Light Shelves for Daylighting, Natural Ventilation Components and Adaptive Sensing, Monitoring and Controls System for CIRS

Principle Investigator: John Robinson

Granting Agency: Sustainable Development Technology Canada

Period: 2005-2010

Total Amount: \$2,215,129

Project: Centre for Interactive Research on Sustainability

Principle Investigator: John Robinson

Granting Agency: British Columbia Knowledge Development Fund

Period: 2005-2009

Total Amount: \$4,497,000

Project: Collaborative for Interactive Research with Communities Using Information Technology for Sustainability

Principle Investigator: John Robinson

Granting Agency: GEOIDE

Period: 2005-2008

Total Amount: \$498,000

Project: Funding for Support of CIRS

Principle Investigator: John Robinson

Granting Agency: Western Economic Diversification Canada

Period: 2005-2006

Total Amount: \$100,000

Project: Funding for Support of CIRS

Principle Investigator: John Robinson

Granting Agency: BC Ministry of Water, Land and Air Protection

Period: 2005-2006

Total Amount: \$50,000

Research Grants

Project: Support for Work as Lead Author, Working Groups II and III in the Intergovernmental Panel on Climate Change

Principle Investigator: John Robinson
Granting Agency: Environment Canada
Period: 2004-2007
Total Amount: \$50,000

Project: Support for MA student program on Adaptation, Mitigation and Sustainable Development in the IPCC Fourth Assessment Report

Principle Investigator: John Robinson
Granting Agency: Environment Canada
Period: 2004-2007
Total Amount: \$56,000

Project: Centre for Interactive Research on Sustainability

Principle Investigator: John Robinson
Granting Agency: Canada Foundation for Innovation
Period: 2005-2009
Total Amount: \$4,477,000

Project: GEOCOGNITO, Connecting People with Ideas and Ideas with Place

Principle Investigator: John Robinson
Granting Agency: GEOIDE
Period: 2003-2005
Total Amount: \$152,000

Project: Sumas – Agricultural Water Pollution

Principle Investigator: Hans Schreier
Granting Agency: Environment Canada
Period: 2004
Total Amount: \$8,000

Project: Sumas – Water & Communities Bolivia

Principle Investigator: Hans Schreier
Granting Agency: CIAT-CIDA
Period: 2004-2007
Total Amount: \$8,500

Project: Pardyp - Nepal

Principle Investigator: Hans Schreier
Granting Agency: IDRC
Period: 2003-2006
Total Amount: \$76,000

Project: Water Pollution

Principle Investigator: Hans Schreier
Granting Agency: NCE-CWN
Period: 2004-2005
Total Amount: \$71,000

Project: Water Surveillance

Principle Investigator: Judith Isaac Renton
Co-Investigators: Hans Schreier
Granting Agency: CIHP
Period: 2004-2006
Total Amount: \$52,000

Project: NPS Water Pollution

Principle Investigator: Hans Schreier
Co-Investigators: Ken Hall
Granting Agency: NCE-CWN
Period: 2005-2007
Total Amount: \$140,000

Project: Groundwater Monitoring

Principle Investigator: Hans Schreier
Granting Agency: B.C. WLAP
Period: 2005
Total Amount: \$10,000

Project: Science Horizon Internship

Principle Investigator: Hans Schreier
Granting Agency: Environment Canada
Period: 2004-2005
Total Amount: \$12,000

Project: Pathogen Trackings

Principle Investigator: Huck
Co-Investigators: Hans Schreier
Granting Agency: NCE-CWN
Period: 2004-2005
Total Amount: \$6,000

Project: Nutrient & Metal Loadings (Salmon Watershed)

Principle Investigator: Hans Schreier
Granting Agency: Environment Canada
Period: 2005-2007
Total Amount: \$22,000

Research Grants

Project: Seeking Socio-Cultural Justice in the Management of Protected Areas

Principle Investigator: Terre Satterfield
Co-Investigators: Juanita Sundberg
Granting Agency: The Hampton Humanities and Social Science Research Fund
Period: 2004-2006
Total Amount: \$50,000

Project: The Economics of Carbon Sinks

Principle Investigator: Van Kooten
Co-Investigators: Ilan Vertinsky
Granting Agency: SSHRC-BIOCAP
Period: 2001-2004
Total Amount: \$180,000

Project: Tenure of Forest Lands

Principle Investigator: Ilan Vertinsky
Co-Investigators: George Hoberg et al
Granting Agency: SSHRC
Period: 2001-2004
Total Amount: \$743,000

Project: Modelling SFM

Principle Investigator: Ilan Vertinsky
Granting Agency: NSERC
Period: 2000-2004
Total Amount: \$120,000

Project: Trust in Joint Ventures

Principle Investigator: Ilan Vertinsky
Granting Agency: SSHRC
Period: 2001-2004
Total Amount: \$93,000

Project: International Forest Regime

Principle Investigator: Ilan Vertinsky
Co-Investigators: Balsili
Granting Agency: NCE
Period: 2001-2004
Total Amount: \$210,000

Project: Intensive Silviculture

Principle Investigator: Ilan Vertinsky
Co-Investigators: Balsili
Granting Agency: NCE
Period: 2001-2004
Total Amount: \$230,000

Project: Building Test

Principle Investigator: Ilan Vertinsky
Granting Agency: Hampton
Period: 2001-2004
Total Amount: \$29,000

Project: Innovation in Small Companies

Principle Investigator: Ilan Vertinsky
Granting Agency: HSS (large)
Period: 2003-2004
Total Amount: \$9,700

Project: Afforestation

Principle Investigator: Ilan Vertinsky
Granting Agency: NRC
Period: 2003-2004
Total Amount: \$7,350

Publications

Refereed Journals

- Bruneau, B., **S.E. Chang**, R.T. Eguchi, G.C. Lee, T.D. O'Rourke, A.M. Reinhorn, M. Shinozuka, K. Tierney, W.A. Wallace, and D. von Winterfeldt. "A Framework to Quantitatively Assess and Enhance the Seismic Resilience of Communities," Proc. 13th World Conference on Earthquake Engineering, Vancouver, Canada. Paper no. 2575.
- Carmichael, J., J. Tansey and **J. Robinson**, "An Integrated Assessment Modeling Tool", *Global Environmental Change* 14(2004) 171-183.
- Chan, K. M. A.**, and J. Ranganathan,. 2005. Testing importance of patch scale on forest birds. *Oikos* 111(3): 606-610.
- Chan, K. M. A.** 2005. "The Death of Our Planet's Species: A Challenge to Ecology and Ethics. *Environmental Ethics* (review)", *Environmental Ethics* 27(4): 433-436.
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- Chang, S.E.**, and C. Chamberlin, Research Progress and Accomplishments 2003-2004. "Assessing the Role of Lifeline Systems in Community Disaster Resilience," *Multidisciplinary Center for Earthquake Engineering Research*, Buffalo, NY, pp.87-94.
- Cooke, S.J, E.B., Thorstad, and **S.G. Hinch**. 2004a. "Activity and Energetics of Free-Swimming Fish: Insights from Electromyogram Telemetry". *Fish and Fisheries* 5: 21-52.
- Cooke, S.J., G.T. Crossin, D. Patterson, K. English, **S.G. Hinch**, J.L. Young, R. Alexander, M.C. Healey, G. Van Der Kraak, and A.P. Farrell. 2005. "Coupling Non-Invasive Physiological Assessments with Telemetry to Understand Inter-Individual Variation in Behaviour and Survivorship of Sockeye Salmon: Development and Validation of a Technique". *Journal of Fish Biology*. 67: 1-17.
- Cooke, S.J., **S.G. Hinch**, M. Wikelski, R.D. Andrews, L.J. Kuchel, T.G. Wolcott, and P.J. Butler. 2004b. "Biotelemetry: A Mechanistic Approach to Ecology". *Trends in Ecology and Evolution*.19:334-343
- Cooke, S.J., **S.G.Hinch**, A.P. Farrell, M.F. Lapointe, S.R.M. Jones, J.S. Macdonald, D.A. Patterson, , M.C Healey, and G.Van Der Kraak, 2004. "Abnormal Migration Timing and High En Route Mortality of Sockeye Salmon in the Fraser River, British Columbia". *Fisheries* 29:22-33.
- Crossin, G.T., S.G. Hinch, A.P. Farrel, D.A. Higgs, and M.C. Healey, 2004. "Somatic Energy of Sockeye Salmon, *Oncorhynchus Nerka*, at Onset of Upriver Migration: A Comparison Among Ocean Climate Regimes". *Fisheries Oceanography* 13:345-349.
- Crossin, G.T. and **S.G. Hinch**. 2005. "A Non-Lethal Method for Assessing the Somatic Energy Content of Freely Migrating Adult Pacific Salmon". *Transactions of the American Fisheries Society*. 134:184-191.
- Crossin, G.T., **S.G. Hinch**, A.P. Farrell, D.G. Higgs, A. Lotto, J. Oakes, and M.C. Healey, 2004. "Energetics and Morphology of Sockeye Salmon: Effects of Upriver Migratory Distance and Elevation". *Journal of Fish Biology*. 65:788-810
- Dong, X., M. Shinozuka, and **S.E. Chang**. "Utility Power Network Systems," *Proc. 13th World Conference on Earthquake Engineering, Vancouver, Canada*. Paper no. 527.
- Finucane, M. & **T. Satterfield**, 2005. "Risk as Narrative Values: A Theoretical Framework for Facilitating the Biotechnology Debate". *International Journal of Biotechnology*
- Gregory, R. B. Fischhoff, and **T. McDaniels**, 2005. "Acceptable Input: Using Decision Analysis to Guide Public Policy Decisions" *Decision Analysis*, 2, 1, pp. 4-16
- Gerwing, K. and **T. McDaniels**, 2005. "Listening to the Salmon People: First Nations' Objectives for Salmon Aquaculture Decisions". *Society and Natural Resources* 19. 3, pp 259-273
- Hamouda, L., K. W. Hipel, D. M. Kilgour, D. J. Noakes, L. Fang, and **T. McDaniels**, 2005. "The salmon aquaculture conflict in British Columbia: A Graph Model Analysis" *Ocean & Coastal Management*, 48, 7-8, pp.571-587.
- Johnston, N.T., E.A. Maclsaac, P.J. Tschaplinsk, and **K.J. Hall**. 2004. "Effects of the Abundance of Spawning Sockeye Salmon (*Oncorhynchus nerka*) on Nutrients and Algal Biomass in Forested Streams." *Canadian Journal Fisheries and Aquatic Science*. 61: 384-403 (2004).

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- Kalikoski, D. & **T. Satterfield**, 2004. "On Crafting a Fisheries Co-management Arrangement in the Estuary of Patos Lagoon (Brazil): Opportunities and Challenges Faced through Implementation" *Marine Policy* 28:503-522.
- MacNutt, M. J., **S.G. Hinch**, A. P. Farrell and S. Topp. 2004. "Effects of Thermal Acclimation Period on the Repeat Swimming Performance of Cutthroat Trout (*Oncorhynchus clarki clarki*)". *Journal of Fish Biology*. 65:342-353
- Matheny, G., and **K. M. A. Chan**. 2005. "Human diets and animal welfare: The Illogic of the Larder". *Journal of Agricultural and Environmental Ethics* 18:579-594.
- McDaniels, T.** and W. Trousdale, 2005. "Evaluating Losses of Traditional Native Values With Multi-attribute Value Assessment" *Ecological Economics*, 55, 2, pp. 173-186.
- McDaniels, T., H. Dowlatbadi**, and S. Stevens, 2005. "Multiple Scales and regulatory gaps in environmental change: the case of salmon aquaculture" *Global Environmental Change*, 15, 1, pp 9-21.
- McDaniels, T.** and R. Gregory, 2004. "Learning as an objective within structured decision processes for managing environmental risks," *Environmental Science and Technology*, 38, 7, 1921-1926.
- Mehranvar, L., **M.C. Healey**, A.P. Farrell, and S.G. Hinch, 2004. "Social Versus Genetic Measures of Reproductive Success in Sockeye Salmon, *Oncorhynchus nerka*" *Evolutionary Ecology Research*. 6:1167-1181.
- Mellina, E., **S.G. Hinch**, E. M. Donaldson, and G. Pearson. 2005. "Stream Habitat and Rainbow Trout (*Oncorhynchus mykiss*) Physiological Stress Responses to Clear-Cut Logging in British Columbia". *Canadian Journal of Forest Research* 35: 541-556.
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- Miles, M.B. and **S.E. Chang**. "Foundations for Modeling Community Recovery from Earthquake Disasters," Proc. 13th World Conference on Earthquake Engineering, Vancouver, Canada. Paper no. 567.
- Moore, J., F. Pagani, M. Quayle, **J. Robinson**, B. Sawada, G. Spiegelman, R. VanWynsberghe, "Recreating the University From Within: Collaborative Reflections on the University of British Columbia's Engagement With Sustainability." *International Journal of Sustainability in Higher Education* 6(1) (2005) 65-80.
- Patterson, D.S., Macdonald, J.S., **S.G. Hinch**, **M.C. Healey**, and A.P. Farrell 2004. "The Effect of Exercise and Captivity on Energy Partitioning, Reproductive Maturation and Fertilization Success in Adult Sockeye Salmon". *Journal of Fish and Biology*. 64:1039-1059.
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- Schindler, D.W., P J. Dillon and **H. Schreier**. 2005. "Anthropogenic Sources of Nitrogen in Canada. In: Biogeochemistry" (In Press, Sept. 2005, 14 pp.)
- Schreier, H.** and **S. Brown**. 2004." Multi-Scale Approaches to Watershed Management: Land Use Impacts on Nutrient and Sediment Dynamics." Kovacs Colloquium, *Scales in Hydrology and Water Management. International Association of Hydrological Sciences, IAHS*. 287:61-75
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Standen, E.M., **S.G. Hinch**, and P.S. Rand. 2004. "Influence of River Currents on Path Selection and Swimming Efficiency of Migrating Adult Sockeye Salmon" *Canadian Journal of Fisheries and Aquatic Sciences* 61:905-912.

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Wagner, G.N., **S.G. Hinch**, L.J. Kuchel, A. Lotto, S.R.M. Jones, D.A. Patterson, J.S. Macdonald, G. Van Der Kraak, M. Shrimpton, K.K. English, S. Larsson, S.J. Cooke, M.C. Healey, and A.P. Farrell. 2005. "Metabolic Rates and Swimming Performance of Adult Fraser River Sockeye Salmon (*Oncorhynchus nerka*) after a Controlled Infection With *Parvircapsula minibicornis*." *Canadian Journal of Fisheries and Aquatic Sciences* 62: 2124-2133

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Carmichael, J., S. Talwar, J. Tansey, and **J. Robinson**, 2005, "Where Do We Want To Be? Making Sustainability Indicators

Integrated, Dynamic and Participatory", in Rhonda Phillips, ed. *Community Indicators Measuring Systems*, London: Ashgate Publishing, Ltd.

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Kalof, L. and **Satterfield, T.** (eds) 2005. "Essential Readings in Environmental Values". London, *Earthscan Press*

Northcote, T.G., and **S.G. Hinch**. 2004. "Fish Migration and Passage in Forested Watersheds". Chapter 7, Pp. 123-142 in Northcote, T.G. and Hartman, G.F. [eds.] *Fishes and Forestry – Worldwide Watershed Interactions & Management*. Blackwell Science, Oxford, UK.

Robinson, J. and A. Mendis, 2005. "Opportunity or Illusion: The Vexed Promise of Dematerialization", in A. Dale and R. Cote, eds. *Industrial Ecology: Implications for Canada in the 21st Century*. Vancouver: UBC Press.

Robinson, J. and J. Tansey, 2005. "The Georgia Basin Futures Project (GBFP)", in Mitcham, Carl. *Encyclopedia of Science, Technology, and Ethics*. Detroit: Macmillan Reference USA.

Schreier, H. 2005. "Challenges in Mountain Watershed Management". In: Huber, U., H. Bugmann, and M. Reasoner (editors): *Global Change in Mountain Regions: A State of Knowledge Overview*. Advances in Global Change Research. Springer Verlag, Dordrecht. pp. 617-626

Schreier, H. 2005. "Integrated Mountain Watershed Management Using a Multi-Barrier Approach: Tools, Challenges, and Innovations". In: Pierzgalski, E., S. Niemtur, and J. Czerepko (eds.) *Protection of Soil and Water Resources in Forest Areas*. Forest Research Institute Warsaw, Ministry of Environment, Poland and FAO, Rom. pp155-162

Publications

Satterfield, T. 2005. "Public Participation and Private Decisions in the Remediation of Rocky Flats" *In The Political Ecology of Nuclear Communities: Struggles to Address Cold War Legacies.*

Satterfield, T. & Kalof, L. (eds) 2005. "Introduction: Relativistic and Axiomatic Traditions in the Study of Environmental Values" *In Essential Readings in Environmental Values.* London: Earthscan Press.

Satterfield, T. and S. Slovic (eds) 2004. "What's Nature Worth? Exploring Narrative Expressions of Environmental Values". *University of Utah Press*

Zandbergen, P, **S. Brown, H. Schreier** 2005. "Watershed Management Education and Training CD-ROM's". In: R. L. France (ed.). *Facilitating Watershed Management, Fostering Awareness and Stewardship.* Rowman & Littlefield Publ. Inc. Lanham, Maryland. A Web-Enhanced Book, Chapter 8, pp. 129-143

Refereed Edited Volumes or Series

McDaniels, T. and M. Small 2004. "Risk Analysis and Society: An Introduction" in *McDaniels, T. and M. Small, eds. 2002, Risk Analysis and Society: An Interdisciplinary Characterization of the Field,* Cambridge University Press.

Refereed Conference Proceedings

Raskin, P., R. Swart, and **J. Robinson,** 2004. "Navigating the Sustainability Transition: The Future of Scenarios", in Biermann, Frank, Sabine Campe and Klaus Jacob, editors. *Proceedings of the 2002 Berlin Conference on the Human Dimensions of Global Environmental Change "Knowledge for the Sustainability Transition. The Challenge for Social Science,* Global Governance Project: Amsterdam, Berlin, Potsdam and Oldenburg.

Robinson, J. and A. Shaw, 2004. "Imbued Meaning: Science-Policy Interaction in the IPCC" in Biermann, Frank, Sabine Campe and Klaus Jacob, editors. *Proceedings of the 2002 Berlin Conference on the Human Dimensions of Global Environmental Change "Knowledge for the Sustainability Transition. The Challenge for Social Science,* Global Governance Project: Amsterdam, Berlin, Potsdam and Oldenburg.

Refereed Books

McDaniels, T. and M. Small, (eds.) 2004. "Risk Analysis and Society: An Interdisciplinary Characterization of the Field", Cambridge University Press. 508 pages

Non Refereed Publications

Brydon, J., **H. Schreier and K.J. Hall.** June 21-22, 2004. "Effectiveness of Detention Ponds and Constructed Wetlands in Contaminant Removal from Urban Stormwater Runoff in the Lower Fraser Valley". Poster, *Canadian Water Network Conference,* Ottawa.

Chang, S.E. "Modeling How Cities Recover from Disasters" Proc 1st *International Conference on Urban Disaster Reduction,* Kobe, Japan

Keen, P., D. Shang, **K.J. Hall** and D. Smith. June 21-22, 2004. "Determination of Veterinary Drug Residues in Environmental Samples from an Agricultural Watershed Using Liquid Chromatography Tandem Mass Spectrometry". Poster, *Canadian Water Network Conference,* Ottawa.

Li, K, and **H. Schreier.** March 31, 2004. "Evaluation of Long-Term Groundwater Monitoring Data in the Lower Fraser Valley". For: *B.C. Ministry of Water, Air, and Land Protection,* Vol. I, 104 pp, Vol II, 78 pp.

McCubbin, N., E.R. Hall, and **K.J. Hall.** 2004. "Manufacturing Processes and their Impact on Effluent Discharges". In: T. Northcote and G.F. Hartman (eds.) *Fishes and Forestry: Worldwide Watershed Interactions and Management,* Blackwell Sciences Ltd, Oxford, UK. pp 241-267

McDaniels, T., 2004. Critique of "Assessing the Options: Nuclear Waste Management Organization Assessment Team Report" Commissioned comments: <http://www.nwmo.ca/default.aspx?DN=1096,1091,1090,199,20,1,Documents>

McDaniels, T. 2004. "Peer Review Comments on: Review of Options Assessment Methodologies and Their Relevance to the Committee On Radioactive Waste Management Process (IDM 18)" www.corwm.org.uk/content-498

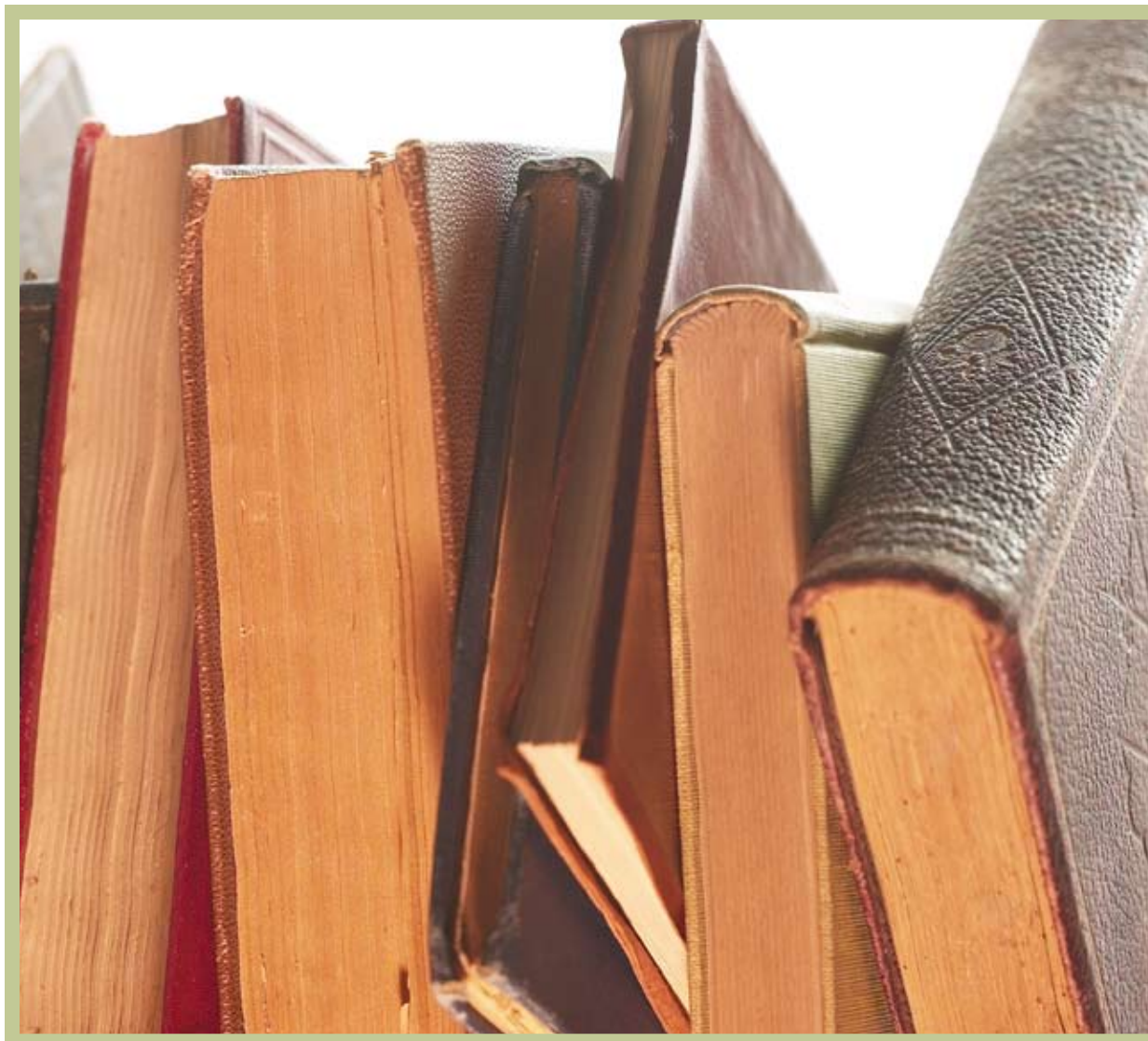
Publications

Pearce, C. R. Gregory, **T. McDaniels** and P. Boxall, "Decision Aiding and Tradeoff Analysis for Sustainable Forest Management" for Slocan Forest Products.

Quinn, F., J.C. Day, **M. Healey**, R. Kellow, D. Rosenberg, J.O. Saunders, 2004. "Water Allocation, Diversion and Export". Pp 1-8 In: Leah Brannen and A. Bielak (ed.) *Threats to water availability in Canada*. Environment Canada. NWRI Scientific Assessment Report Series No 3. NWRI, Burlington, ON, Canada.

Schreier, H. and **L.M. Lavkulich**. 2004. "Sustainable Development and Water Pollution". In: P.N. Nemetz (ed.) *Sustainable Resource Management: Reality or Illusion. Journal of Business Administration and Policy Analysis*. Vol 30-31:265-283

Smith, I. and **H. Schreier**. March 25, 2004. "Recent Trends in Urban and Agricultural Land Use Practices". Sumas River Watershed, Abbotsford, B.C. For *Environment Canada, Environmental Protection Branch*, 24pp.



Conferences & Presentations

Chang, Stephanie

- S. Chang, "Reducing Risk Through Identifying Critical Infrastructure Interdependencies," presentation at 2nd Canadian Risk and Hazards Network Symposium, Toronto, November 2005.
- S. Chang, "Critical Infrastructure Interdependencies," seminar presentation, Joint Infrastructure Interdependencies Research Project, Univ. of British Columbia, October 2005.
- S. Chang, "Infrastructure, Interdependencies, and Community Disaster Resilience," invited presentation at 18th Annual Emergency Preparedness Conference, Vancouver, October 2005.
- S. Chang "Coastal Ecosystem Degradation and Tsunami Damage," presentation at U.S. National Science Foundation grantees' meeting, Human and Social Dynamics program, Washington, D.C., September 2005.
- S. Chang, "Reducing Societal Impacts of Natural Disasters," invited presentation to UBC Faculty of Graduate Studies Advisory Council, UBC, April 2005.
- S. Chang, "Global Calamity, Global Response: The Tsunami in Southern Asia," panel discussion member, Liu Institute for Global Studies, UBC, January 2005.
- S. Chang, "Critical Infrastructures and Community Disaster Resilience," invited presentation at 1st Annual Canadian Risk and Hazards Network Symposium, Winnipeg, November 2004.
- S. Chang, "Towards Agent-Based Modeling of Infrastructure Impacts in Disasters," 51st North American Meetings of the Regional Science Association International, Seattle, November 2004.
- S. Chang, "Interactive Simulation Model of Urban Disaster Recovery," invited presentation at Partners in Emergency Preparedness 2004 conference, Bellevue, Washington, April 2004.
- S. Chang, "Developments in Earthquake Engineering and Science Since the Northridge Earthquake: Social Sciences," invited presentation at annual meeting of Earthquake Engineering Research Institute, Los Angeles, February 2004.

Healey, Mike

- M. Healey, "Application of Landscape Architecture Principles to Coastal Zone Management." Coastal Zone Canada, Ottawa, ON. January 2004.
- M. Healey, "Defining Nearshore Habitats Using Landscape Architecture." Coastal Zone Asia Pacific Conference, Brisbane, AU, September 2004.
- M. Healey, "Water Resources Policy and Management in Canada." Kwansai Gakuin University, School of Policy Studies, Japan, November 2005.

Hinch, Scott

- S. Hinch, "An Ecological and Conservation Crisis in British Columbia Pacific Salmon: Aberrant Migrations and High Natural Mortality of Fraser Sockeye", Science Lecture Series, University College of the Cariboo, Kamloops, BC, January 2005.
- S. Hinch, "Energetics, Behaviour and Survival of Upriver Migrating Adult Salmon." Comparative Physiology Seminar Series, Dept Zoology, University of BC, Vancouver, BC, January 2004
- S. Hinch, "Energetics, Behaviour and Survival of Upriver Migrating Adult Salmon." Ecology Seminar Series, Dept Zoology, University of BC, Vancouver, BC, January 2004.
- S. Hinch, Invited Plenary speaker, 6th Conference on Fish Telemetry in Europe, Sesimbra Portugal, 2005
- S. Hinch, Keynote speaker, Workshop on Positional and Physiological Telemetry in Aquatic Research, Dec 6-10, Swedish Agricultural University, Umea Sweden, 2004
- Hinch, S.G., A.P. Farrell, S. Cooke, M.C. Healey, S. Jones, D. Patterson, J.S. Macdonald, M. Lapointe, G. Wagner, S. Larsson. "Ecological, Fisheries and Conservation Crises in British Columbia Pacific Salmon: Effects of Aberrant Migrations and Extraordinarily High Natural Mortality." Canadian Conference for Fisheries Research, Windsor ON, January 2005

Conferences & Presentations

Cooke, S.J., K. English, D. Welch, S.G. Hinch, G. Crossin, J.L. Young, M.C. Healey, A.P. Farrell, G. Van Der Kraak, M. Shrimpton, J.S. Macdonald, D. Patterson. "Coupling Non-Invasive Physiological and Energetic Assessments With Telemetry: An Assessment of a Novel Approach for Examining Migration Mechanisms in Sockeye Salmon". Canadian Conference for Fisheries Research, Windsor ON, January 2005.

De Groot, J.D. and S.G. Hinch. "The Effects of Logging Headwater Streams on Resident Coastal Cutthroat Trout (*Oncorhynchus clarki clarki*) Populations in Southwestern BC" American Fisheries Society Annual Meeting, Madison WI, August 2005.

Wagner, G.N., Kuchel, L., Lotto, A., Jones, S.R.M., Patterson, D.A., Cooke, S.J., Macdonald, J.S., Van Der Kraak, G., Healey, M.C., English, K., Hinch, S.G., and Farrell, A.P. "Swimming Physiology Plasticity in Fraser River Sockeye Salmon: Effects of Kidney Parasite Infection." Fitness Physiology Symposium: selection of physiological characteristics, VI International Congress on the Biology of Fish, Manaus, Brazil, August 2004.

Hinch, S.G., A.P. Farrell, S. Cooke, M.C. Healey, S. Jones, D. Patterson, J.S. Macdonald, M. Lapointe, G. Wagner, S. Larsson. "Ecological, Fisheries and Conservation Crises in British Columbia Pacific Salmon: Effects of Aberrant Migrations and Extraordinarily High Natural Mortality." World Fisheries Conference, Vancouver, BC, May 2004.

Cooke, S.J., D. Patterson, G. Crossin, S. Jones, G. Wagner, M. Shrimpton, S. Macdonald, M.C. Healey, A.P. Farrell, and S.G. Hinch. "Linking Migration Biology of Sockeye Salmon with Conservation and Management Through Multivariate Analyses." World Fisheries Congress, Vancouver, BC, May 2004.

Richardson, J.S., P. M. Kiffney, S. G. Hinch, M. Feller, R. D. Moore, S. Mitchell, and J. DeGroot. "Small Streams and Riparian Management: An Experimental Test of the Effectiveness of Riparian Reserves." World Fisheries Conference, Vancouver, BC, May 2004.

McDaniels, Tim

T. McDaniels, "Resource and Regional Planning Issues in British Columbia: Implications for Mexico" University of Quintana Roo, Chetumal, Mexico, January 2004.

T. McDaniels, "Decision Aiding for Sustainable Forest Management Decisions" workshop on Valuation and Sustainable Forest Management Planning, Vancouver, BC, March, 2004

T. McDaniels, "The Role of Best Available Science (and Science Advice) In Environmental Policy Decisions by Governments", Invited keynote address, Ministry of Water Land and Air Protection, Workshop on the role of the best available science, University of Victoria, March, 2004,

T. McDaniels and C. Wilson, "Linking Decisions Across Scales: The Enduring Challenge in Analysis and Deliberation for Global Change" Carnegie Mellon University, Center for the Integrated Study of the Human Dimensions of Global Change, Final Annual Meeting, May, 2004

T. McDaniels, "Improving Environmental Decision Processes" US National Academy of Sciences, Committee On Research Priorities for Environmental Decision making, May, 2004

T. McDaniels, "Citizen Participation in Societal Risk Management Decisions in North America: Themes, Methods, and Some Examples" Kyoto University, Disaster Prevention Research Center, October, 2004

T. McDaniels, Nuclear Waste Management Organization, Toronto, Organizer and presenter on one day workshop on objectives and performance measures for comparing nuclear waste management options, November, 2004

T. McDaniels, "Risk perception and the psychology of climate change" invited paper, Conference on the psychology of climate change, Princeton University, November, 2004.

T. McDaniels, North American Association of Fisheries Economists, NAAFE, invited presentation, "Decision Structuring to Alleviate Embedding in Environmental Evaluation", Vancouver, BC, March 2005

T. McDaniels, "Linking Research Programs in Risk and Decision Making Concerned with Fisheries and Environment" AERL Building Research Presentations, UBC, April, 2005

T. McDaniels, "Characterizing Infrastructure failure interactions to inform systemic risk analysis" Kyoto University, and Downtown campus, Kyoto (two talks, one videotaped and broadcast), May, 2005

Conferences & Presentations

T. McDaniels, "Risk Communication as Decision Aiding" Association of Public Affairs Professionals, Conference Board of Canada, Invited keynote presentation, Vancouver, BC, May, 2005

T. McDaniels, "Adaptation to climate change: a research agenda" Ministry of Environment, Victoria, BC May 2005

T. McDaniels, "Decision Aiding for Adaptation to Climate Change: Forestry, Fisheries, and Biodiversity Contexts", Climate Decision Making Center, Annual Meeting, Carnegie Mellon University, Pittsburgh PA, June, 2005

T. McDaniels, November, 2005, "Risk perception and risk acceptance for biosolids management, GVRD, invited keynote speaker, one day workshop, Burnaby.

T, McDaniels, "Risk Communication and Decision Aiding for Biosolids Management" GVRD, invited keynote speaker, one day workshop, Burnaby, BC, November, 2005

T. McDaniels, "Characterizing Infrastructure Failure Interactions" Society for Risk Analysis, Annual Meeting, Orlando, FL, December, 2005

Robinson, John

Conference:

J. Robinson, "On Being Undisciplined: Some Transgressions and Intersections in Academia and Beyond", invited plenary presentation at The Sixth Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Bonn, October 9-13, 2005

J. Robinson, "Adaptation, Mitigation and Sustainable Development", presentation at The Sixth Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Bonn, October 9 – 13, 2005

S. Burch and J. Robinson, "Beyond Capacity: The Role of Risk Perception in Narrowing the gap between Climate Response Capacity and Action", paper presented at The Sixth Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Bonn, October 9 – 13, 2005

J. Robinson and Peter Busby, "Centre for Interactive Research on Sustainability—Creative Partnering to Maximize Learning, Innovative Research, and Institutional Resources", presentation at Society for College and University Planning, 40th Annual International Conference and Idea Marketplace, "Planning, Linking, Learning", Washington, DC, July 23–27, 2005

J. Robinson, "Climate Change and Sustainable Development: Changing the Lens", invited keynote presentation, IPCC Expert Meeting on Adaptation, Mitigation and Sustainable Development, La Reunion, February 16-18, 2005.

J. Robinson, "Sustainability as a Problem of Design: interactive science in the Georgia Basin, Canada", presentation at "Signals of Intent: Sustainability and Design" symposium, Emily Carr Institute of Art+Design, June 27, 2004

J. Robinson, "The Centre for Interactive Research on Sustainability", presentation at "Signals of Intent: Sustainability and Design" symposium, Emily Carr Institute of Art+Design, June 29, 2004

J. Robinson, "Some Preliminary Insights from the Georgia Basin Futures Project" keynote presentation, Georgia Basin Futures Project Conference on Interactive Sustainability, Vancouver, May 6-8, 2004.

J. Robinson, "Backcasting and QUEST", presentation at Planning for Long-term Urban Sustainability: +30 Network Invitational Conference, March 30, 2004

J. Robinson, "Energy, Climate Change and Sustainable Development: Realizing the Opportunity", presentation at "Building Livable Communities: the 4th Annual Sustainability Conference at UBC", sponsored by the UBC Campus Sustainability Office, January 30, 2004

Presentation:

J. Robinson, "The Centre for Interactive Research on Sustainability", presentation at Vancouver-Guangzhou Sustainability Forum, sponsored by the BC Institute of Technology, Vancouver, October 22, 2005

J. Robinson, "Adaptation, Mitigation and Sustainable Development", presentation at Scoping Meeting on Climate Change Adaptation, Mitigation and Linkages with Sustainable Development, sponsored by the Adaptation and Impacts Research Group, Environment Canada, UBC, October 21, 2005

Conferences & Presentations

J. Robinson, "The Centre for Interactive Research on Sustainability", presentation at "Harvard's British Columbia Sustainable Development Learning Exchange", UBC, October 3, 2005

J. Robinson, "Challenges of Implementing the Centre for Interactive Research on Sustainability", presentation at the Society of Project Management Professionals Professional Development Workshop on Facilities and Infrastructure, Vancouver, September 28, 2005

J. Robinson, "CIRS Presentation", University Town Hall Meeting, UBC, September 20, 2005

J. Robinson, "Presentation on CIRS", Haworth corporate headquarters, Holland Michigan, September 12, 2005

J. Robinson, "Creating a Sustainable City: Emerging Opportunities to Accelerate Sustainability in Vancouver", presentation at international seminar on "The process of planning a sustainable city, Gwangju, Republic of Korea, September 9, 2005

J. Robinson, "Energy, Climate Change and Sustainable Development", presentation to Chinese delegation, Canada School of Public Service, UBC, May 4, 2005

J. Robinson, "Energy, Climate Change and Sustainable Development: the Opportunity", Presentation at Focus on Global Issues Day, UBC, March 23, 2005

J. Robinson, "Sustainability" invited presentation at TREK 2010 Launch, UBC Chan Centre, March 10, 2005

J. Robinson, "QUEST and CIRS", presentation to Bob Elton, CEO, BC Hydro, September 16, 2004

J. Robinson, Presentation on CIRS, UBC PPA Committee, UBC, September 7, 2004

J. Robinson, "CIRS and the Vancouver Sustainability Precinct", invited presentation at City of Vancouver workshop on Vancouver's proposed Sustainability Precinct, Vancouver, August 17, 2004

J. Robinson, Presentation on CIRS, World Business Council on Sustainable Development, Geneva, July 9, 2004

J. Robinson, Presentation on CIRS to Board of Great Northern Way Campus, Vancouver, June 18, 2004

J. Robinson, Presentation on CIRS to Alberta Minister of Environment and selected industry representatives, Petroleum Club, Calgary, June 17, 2004

J. Robinson, Presentation on CIRS to UBC Vice-Presidents, June 7, 2004

J. Robinson, "Urban Sustainability Research at SDRI", brief presentation at Prime Minister's Advisory Committee on Cities reception and dinner, Vancouver, May 20, 2004.

J. Robinson, "Innovation and Proposal Writing", Presentation at "What Worked and What Didn't" CFI Workshop, UBC, May 19, 2004

J. Robinson, "Entering the MCRI World", Presentation to the Canadian Transport Futures Assessment Research Development Workshop, University of Calgary, May 12, 2004

J. Robinson, Presentation on Centre for Interactive Research on Sustainability, Chancellor's Committee, UBC Treasury, April 27, 2004

J. Robinson, "Modeling and Related Work at SDRI", presentation at joint UBC/SFU workshop on energy systems, Vancouver, April 6, 2004

J. Robinson, "GBFP, Geocognito and CIRS" invited presentation at SDKI-PATHWAYS Year-end Workshop, Natural Resources Canada, Vancouver, March 24, 2004

J. Robinson, "The Centre for Interactive Research on Sustainability", presentation to the Sustainability Sponsor Group, City of Vancouver, March 15, 2004

J. Robinson, "An Introduction to QUEST", presented at "Connections: Sustainable Development Forum", sponsored by the Pacific Federal Council, March 9, 2004. We ran a QUEST session for 40 federal civil servants in the Science World Weyerhaeuser Theatre on March 10, 2004

Conferences & Presentations

Satterfield, Terre

T. Satterfield, Roberts, M., Finucane, M., Benton, R., Henare, Manuka, Henare, Mark "Culture, Risk, and the Prospect of Genetically Modified Organisms as Viewed by Tangata Whenua" Foundation for Research in Science and Technology, New Zealand. 126pp, 2005

T. Satterfield, Odell, C., Gibson, G. "Untangled Tools for the Social Impact Assessor: No One Size Fits All. Report Prepared for Place Dome." 132 pp 2004

Finucane, M., Satterfield, T., Roberts, M., Henare, Manuka, Henare, Mark. "Weighing Tangible and Intangible Dimensions of GMO Applications in Judgements of Acceptability/Non Acceptability of the Applications to Tangata Whenua", 2005

Cook, A., Fairweather, J., Satterfield, T. Hunt, L. New Zealand Public Acceptance of Biotechnology. Foundation for Research in Science and Technology, New Zealand. 77pp 2004

Presentation:

T. Satterfield, American Anthropological Association Annual Meetings. Invited Presentation, 2005

T. Satterfield, "A Few Thoughts on Combining Qualitative and Quantitative Methods". In Workshop on Scientific Foundations of Qualitative Research. Charles Ragin, Joane Nagel and Patricia White. National Science Foundation, 2004

T. Satterfield, Society for Applied Anthropology, Panel Organizer and Presenter, 2004 & 2005

Schreier, Hans

Conference:

H. Schreier and Ken Hall. "Challenges and Innovations in Water Resources Management in the Okanagan Basin. Water our Limited Resource: Towards Sustainable Management in the Okanagan Basin". Canadian Water Resources Association, B.C. Branch Conference, Kelowna, B.C. Proceedings pp 325-332, February 23-25, 2005

H. Schreier "Integrated Mountain Watershed Management Using a Multi-Barrier Approach: Tools, Challenges and Innovations". 24th Session of the European Forestry Commission, FAO, Section-Management of Mountain Watersheds, Krakow, Poland, 2005. Conference Proceedings, 10 pp.

H. Schreier and S. Brown. "Sediment and Nutrient Management in Mountain Watersheds: Scaling Up and Out". Headwater 2005. International Conference on Headwater Control VI: Hydrology, Ecology & Water Resources in Headwaters, IAHS, IAHC, Bergen Norway June 20-23, 2005. Conference proceedings submitted / accepted March 26th, 2006, 8 pp.

Presentation:

H. Schreier, "Innovations in Urban Stormwater Management". Invited presentation to the Urban Watershed Management Workshop. Landcare Research, Auckland New Zealand, March 8, 2004

H. Schreier, "Integrated Catchment Management". Innovations and challenges invited keynote presentation, Landcare Research, Nelson, New Zealand, March 10-11, 2004

H. Schreier, "Innovations in Watershed Management". Battle River Community Foundation Workshop and Alberta Environment, Camrose, AB, March 17, 2004

H. Schreier, "A Global Need for Watershed Innovations, and Basic Elements of a Watershed Management Plan". Invited keynote address at the Conference on Watershed Management on Prince Edward Island, Dept. of Environment & Energy. Charlottetown, PEI, March 27, 2004

H. Schreier, "Key Challenges for CWN Watershed Management Strategy". Invited presentation plus 4 Posters on Non-point Sources of Pollution and Cumulative Effects in the LfV. National Conference, Canadian Water Network. National Centre for Excellence in Clean Water, NCE, Ottawa, Ont. June 20-23, 2004

H. Schreier, "Innovations in Watershed Management". Invited presentation to the International Centre for Tropical Agriculture, CIAT. Cali, Columbia. June 9, 2004

H. Schreier, "Nutrients and Groundwater Issues in the Lower Fraser Valley". Invited keynote presentation at the Canadian National Well Water Conference (CANWELL) Kelowna, B.C. April 22, 2004

H. Schreier, L.M. Lavkulich, and S. Brown. "Sediment and Nutrient Balances and Scaling Effects in a Himalayan Watershed". International Conference on Sediment and Geochemical Budgets in Geomorphology to honour Prof. Slaymaker. University of B.C. June 27-29, 2004

Conferences & Presentations

H. Schreier, "A Multi-Scale and Multi-Barrier Approach to Watershed Protection and Restoration". Invited keynote address at the 16th International Annual Meeting of the Society for Ecological Restoration. Victoria, B.C., August 23-27, 2004

H. Schreier, "WEB-based Tools for Collaborative Research for the Global Mountain Partnership Program". Invited presentation at the FAO, Rome, September 6. 2004

H. Schreier, "Watershed Management in Need of Innovations at Multiple Levels". Invited keynote presentation at the 24th Session of the European Forestry Commission: Management of Mountain Watershed. FAO Cracow Poland, September 8-11, 2004

H. Schreier, "Multi-scale Approaches to Watershed Management: Land Use Impacts on Nutrient and Sediment Dynamics". Invited keynote presentation at the Kovacs Colloquium, Scales in Hydrology and Water Management. UNESCO International Association of Hydrological Sciences, Paris, France. June 16-17, 2004 & Publ.. IAHS. 287:61-75

H. Schreier, "Integrated Mountain Watershed Management: Tools, Challenges and Innovations". Invited keynote address at the International Conference on Interdisciplinary Research & Management of Mountain Areas (IRMMA). Banff Centre Mountain Community Series, Banff Conference Centre, September 23-27, 2004

H. Schreier, "Urban-Agricultural Linkages and its Effect on Water Resources". Invited keynote address at the National Conference on Living with Livestock, Environment and Change. Manitoba Min. Agriculture, Winnipeg, Manitoba, October 5-7, 2004

H. Schreier, "Water and Agriculture: Searching for a Balance". Invited keynote address at the 2005 Agricultural Service Board Conference, Red Deer Alberta, January 25-27, 2005

H. Schreier, "Challenges and Innovations in Water Resources Management in the Okanagan Basin". Invited presentation at the BC-CWRA Canadian Water Resource Association Annual Conference. Kelowna, B.C., 2005

H. Schreier, "Adaptation to Climate Change Using a Multi-barrier Watershed Approach". Invited keynote address at the Mountains and Climate Change (MTNCLIM) Conference, USDA Forest Service, Chico Hot Springs, Montana, 2005

J. Brydon, H. Schreier and K.Hall. "Trace Metal Retention in Urban Stormwater Ponds in the Lower Fraser Valley". 2005 Puget Sound Georgia Basin Conferences, Seattle, WA. Puget Sound Action Team. March 29, 2005

H. Schreier, "Global Water Challenges in the 21st Century". Invited keynote address at the Alberta Institute of Agrologists Annual Conference, Banff, AB. March 30-April 1, 2005

H. Schreier, "Innovative Development to Protect Water Resources. Workshop on Smart Development and Healthy Communities: The Low Impact Development Advantage". Invited keynote address at Lakeland County and Aquality Ltd. Lac La Biche, AB, April 28, 2005

H. Schreier, "Bangladesh: Squeezed between the Mountains and the Sea". Invited presentation at the Symposium on Global warming and the future of low-lying countries. Organized by the Bangladesh Student Association, UBC, May 19, 2005

H. Schreier, "A Global Perspective on Water Resources in the 21st Century". Invited keynote address at the 58th National Conference, Canadian Water Resources Association. Banff Conference Centre, June 15-18, 2005

H. Schreier and S. Brown. "Sediments and Nutrients Tracing in Mountain Watersheds: Scaling Up and Out". International Conference on Headwater Control 06, Hydrology, Ecology and Water Resources in Headwaters. Paper 52, 11pp. Presentation, Session Chair and Member of Panel Discussion, Bergen Norway June 20-23, 2005

H. Schreier, "A Multi-barrier Approach to Watershed Management". Invited presentation at the Warsaw Agricultural University. Warsaw, Poland., June 27, 2005

H. Schreier, "Nutrient Tracking Using Budgeting and GIS techniques". Invited presentation at the Institute for Land Reclamation and Grassland Farming. Falenty, Poland. June 29, 2005

H. Schreier, "Water Advisory Panel Discussion". Columbia Basin Trust, Basin Wide Symposium, Cranbrook, B.C., July 7-12, 2005.

H. Schreier, "Building a Water Wise Community". Invited keynote address at the Annual Conference of Community Futures. Penticton, B.C., September 19, 2005

Conferences & Presentations

H. Schreier, "Adopting a Multi-barrier Approach to Watershed Management in View of Climate Change". Invited presentation at the Workshop on Climate Change in the Columbia Basin. Columbia Basin Trust, Selkirk College, Nelson, B.C., September 26, 2005

H. Schreier, "Water & Watershed Issues and Trade-offs in the Columbia Basin". Invited keynote presentation for 70 top level decision makers at the Columbia River Forum. Columbia Basin Trust. Marriott Hotel, Vancouver, BC . Invited Keynote Presentation. November 9-10, 2005

H. Schreier and K. Hall. "Non-point Sources of Water Pollution and Cumulative Effects in the Lower Fraser Basin". Research highlights. Canadian Water Network, Annual Conference. Kananaskis, AB, November 23-25, 2005

H. Schreier, "A Water Smart Program for Municipalities". Invited presentation at AKBM Conference (Columbia Basin Trust). Fernie, B.C. April 17, 2004

H. Schreier, "Protecting our Water: A Water Smart Plan for Vancouver". Invited public presentation at SPEC (Society for Protecting the Environment and Conservation), Vancouver, B.C. May 12, 2004

H. Schreier, "A Water Smart Program for Municipalities". 2nd Annual Rural Community Summit. Columbia Basin Trust, CFDF & Western Economic Diversification. Rossland B.C., June 25, 2004

H. Schreier, "Chilliwack Stream Water Quality and Soil Pollution". Streamwater protection and BMP's in Chilliwack. B.C. Min. of Agriculture & City of Chilliwack, BC, July 21, 2004

H. Schreier, "Global Issues in Water Management". Forever Learning. Marpole Area Council, Community Centre: Public Lecture, July 16, 2004

H. Schreier, "Emerging Water Issues in Communities". Columbia Basin Trust, Community Splash in Water Education. In Jaffrey, Creston and Kaslo, B.C. November 3-5, 2004

H. Schreier, "Innovative Approaches to Water Management in a Biosphere Reserve Context". Biosphere Initiative, Arrowsmith Watershed Community, Parksville, B.C. November 24, 2004

H. Schreier, "Global Water Issues and Climate Change Lower Seymour Conservation Reserve- LSCR Education Program Public Evening Lecture Series". GVRD , September 22, 2005

H. Schreier, "Water Management Challenges". Invited keynote address at a one day workshop on Water Management on the Sunshine Coast (Sechelt). Organized by the Sunshine Coast Club of the Canadian Federation of University Women, October 22, 2005

Multi-media CD-ROMs:

Smith, I., H. Schreier. 2005. Linking agricultural intensification to water quality in the Sumas River Watershed Multi-media CD-ROM @ IRES and Environment Canada (150pp).

Schreier et al. 2004. Integrated Watershed Management. Multi-media CD-ROM Textbook, Edition: 2.0, @ IRES (500 pp.)

Derksen, G., Schreier, H., R. Bestbier, S. Brown (eds.) 2004. Community Watershed Information System: Elk Creek Watershed Case Study. @ Environment Canada & IRE-UBC (CD-ROM)

Visiting Lectures UBC Guest Lecture:

SCARP 500, Schreier, H. 2004. Linking models with GIS and Multi-media tools in Resource Management & Planning. SCARP Summer Course . April 27, 2004

PLAN 400 Schreier, H. 2004. Two-day fieldtrip on low impact land use on water resources in the Lower Fraser Valley. Students and Professors from the Department of Planning, Auckland University (June 29-July 2, 2004) 10 participants.

Forestry 444, Schreier, H. 2004 Agro-forestry & mountain development. Nov. 18th, 2004

Environmental Science 200, Schreier, H. 2004 Global Water Issues. Nov. 18th 2004

EOSC 474 Schreier, H, 2005 Groundwater Pollution Oceanography 473, Feb. 1, 2005

SOIL 200 Schreier, H. 2005 Nutrients Modelling & Erosion Processes. April 1, 2005

Forestry 444: Schreier, H. 2005. Agroforestry in Asia: degradation vs. Conservation

Professional Services

Professional Service - Internal

Chang, Stephanie

1. Director search committee, IRES, 2005
2. Information and computer technology Committee, SCARP, 2004
3. Curriculum review committee, SCARP, 2004
4. Graduate advisory committee, RMES, 2004
5. Graduate admissions committee, SCARP, 2004
6. Graduate admissions committee, IRES, 2004

Dowlatabadi, Hadi

1. Merit Review Committee, FOGS
2. PhD Examination (B. Aynslye) Examiner, FOGS
3. PhD Examination Chair, FOGS
4. PhD Comprehensive examiner (Timko), Forestry
5. PhD Comprehensive examiner (Ogden), Forestry
6. IT Committee, IRES
7. Graduate Committee, IRES
8. Liu Director Search Committee
9. Ivan Head Chair Search Committee
10. IRES Director Search Committee
11. Associate Director, IRES
12. Associate Director, Bridge

Healey, Mike

1. Chairman, RMES program review committee, 2003-2004
2. Member, Graduate Admissions Committee, RMES, 2004
3. Chair, Promotion and Tenure Committee, Terre Satterfield 2004
4. Academic Advisor to Internship Program 2004-Present
5. Chair, Promotion and Tenure Committee, Scott Hinch 2005
6. Acting Director, IRES, July-December 2004
7. Advisory Committee AERL Building 2005
8. Acting Associate Director, IRES, July-September 2005

Hinch, Scott

1. Chair, Water Resource Scientist Professor, IRES (cancelled after 1 year's involvement)
2. Member, Scholarship and Admissions Committee, IRES
3. Member, Image Committee, Faculty of Forestry
4. Member, Killam Teaching Award Committee, Faculty of Forestry
5. Member, Co-operative Education Committee, Faculty of Forestry
6. Member, Undergraduate Recruitment Committee, Faculty of Forestry
7. Director and Advisor, Undergraduate Program in Natural Resources Conservation

8. Chair, Natural Resources Conservation Program Advisory Committee, Faculty of Forestry
9. Member, Adjudication, Advancement and Scholarship Committee, Faculty of Forestry
10. Member, Undergraduate Programs Curriculum Committee, Faculty of Forestry
11. Chair, PhD Defence (Laura Prugh, Zoology)

McDaniels, Tim

1. Interim Director, IRES 2005
2. Chair, Strategic planning, IRES, 2005
3. Academic program committee, IRES, 2005
4. External examiner, UBC Faculty of Graduate Studies (1)
5. Defense chair, UBC Faculty of Graduate Studies (2)
6. SCARP, tenure and promotion committee

Robinson, John

1. Member, Weyerhaeuser Committee on US Environment and Resource Policy, Faculty of Arts, UBC (2004)
2. Member, Admissions Committee, Institute of Resources, Environment and Sustainability (2004)
3. Member, Administrative Manager Hiring Committee, Institute of Resources, Environment and Sustainability (2004)

Satterfield, Terre

1. Member of Search Committee for RMES Director 2004-2006
2. P&T committee member for Paul Kershner, FOGS
3. P&T committee member for Robert Van Wynseberghe, FOGS

Schreier, Hans

1. Organized 7th annual IRES Workshop, 16 presentations by IRES Graduate Students to the Public (60 participants). February 16, 2004
2. 2004 Chair: Graduate Student Admission & Scholarship Committee IRES
3. 2005 Member Graduate Student Admission & Scholarship Committee IRES
4. 2004 Faculty Search Committee for New Director for IRES 2004
5. 1991-2006 University Environmental Committee APAC
6. 2004 Acting Assoc. Director IRES
7. 2004-5 Chair Reappointment committee for M. Krzic Soil Science
8. 2004 AERL Building Committee (Member)

Vertinsky, Ilan

1. Director, Centre for International Business Studies
2. Director, W. Maurice Young Entrepreneurship & Venture Capital Research Capital

Professional Services

3. Director, The Forest Economics and Policy Analysis Research Unit
4. Chair of IAR Research Committee, Institute of Asian Research
5. Director, IAR – The Asian Economics and Business Research Unit
6. Member, Peter Wall Institute of Advanced Studies: Adjudication Committee Early Career and Post Doc. Awards
7. Member, UBC-KIBT Project Curriculum Committee
8. Lead, UBC-KIBT Project Research Committee
9. Member, St. John's College Academic Committee
10. Member, Centre for Japanese Research Management Committee
11. Member, The Forest Economics and Policy Forum – Advisory Committee
12. Member, Faculty of Forestry Search Committee

Professional Service - External

Dowlatabadi, Hadi

1. Advisory Board: UNU/RIVM global change integrated assessment initiative
2. Steering Committee: BIOCAP, Canada
3. Business Advisory Committee, David Suzuki Foundation
4. Advisory Committee: Tyndall Center for Climate Change, UK
5. Lead Author, Millennium Assessment
6. Expert panel, WGI, Fourth Assessment Report of the IPCC
7. Expert panel, WGII, Fourth Assessment Report of the IPCC
8. Chief Editor, *Integrated Assessment*, relaunched as an electronic publication through PKP
9. Editorial Board, *Energy and Environment*, Interscience
10. Editorial Board, *Environmental Science and Policy*, Elsevier Press
11. Editorial Board, *Climate Policy*, Elsevier Press
12. Editorial Board, *Global Environmental Change: human and policy dimensions*, Elsevier Press

Hall, Ken

1. Associate Editor, *Journal of Environmental Engineering & Science*
2. Consultant and Member of Science Advisory Committee on Lake Restoration of Diamond Pit Mines (Ekati), NT, 2003-2005.
3. Consultant on Lake Restoration at Gold Mine Site (Colomac), NT,
4. Director, B.C. Waterfowl Society (Reifel Refuge)

Hinch, Scott

1. Technical Expert - Provided report (4 day preparation) and public, under-oath, testimony (1 day) to the "2004 SOUTHERN SALMON FISHERY POST - SEASON REVIEW" which was organized by the Federal Minister of Fisheries (details @ <http://www.2004salmonreview.com/>)
2. Member, Cultus Sockeye Recovery Team (formed under Species at Risk Act)
3. Associate Editor, 2005 Copeia - Journal of the American Society of Herpetology and Ichthyology
4. *Reviewer*, Northwest Science
5. Reviewer, *Journal of Fish Biology*
6. Reviewer, *Forestry Chronicle*
7. Reviewer, *Canadian Journal of Fisheries and Aquatic Sciences*
8. Reviewer, *Journal of Aquaculture Research*
9. Reviewer, *Fisheries Oceanography*
10. Reviewer, *Journal of Fish Biology*
11. Granting and Research Agencies, NSERC Discovery Program (two grant reviews)
12. Granting and Research Agencies, NSERC Discovery Program
13. Media Interviews on Salmon Ecology, Migration and Management: CBC Radio - 'BC Almanac' (2004 April)
14. Media Interviews on Salmon Ecology, Migration and Management: Knowledge Network - 'Innovation in BC', a documentary on my research program (2004 March)

McDaniels, Tim

1. Associate Editor *Risk Analysis*, handling 60-70 papers annually through the reviewing process
2. Reviewer for several other organizations, including US NSF, *Journal of Integrated Assessment*, and others

Satterfield, Terre

1. Member of Trudeau Adjudication committee in 2004 and 2005

Schreier, Hans

1. 2004-2006 Co-Leader of the Watershed Strategy Program, National Centre of Excellence on Clean Water, Canadian Water Network NCE with Univ. of Waterloo
2. Continuing Studies in Science (Simon Fraser University) and Walter and Duncan Gordon Foundation. Moving the Water Agenda Forward – Building a Canadian Water Council M.J. Wosh Centre for Dialogue, SFU, March 15-16, 2004-03-05 (Member of Advisory Committee)
3. 2004-2007 Member: Water Advisory Panel, Columbia Basin Trust
4. 2004-2006 FAO-Mountain Partnership-Mountain Watershed Committee
5. 2003-2004 Groundwater Advisory Committee, Township of Langley

Professional Services

Vertinsky, Ilan

1. Canada Research Chairs: Member of the College of Referees
2. Expert witness for Transport Canada on acceptable risk
3. Editorial Boards: Journal of Cross cultural Management, Journal of International Business, The International Public Management Journal



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