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#### 1. DIRECTOR'S MESSAGE

As I come to the end of 5 years as IRIS' director - a time when my life was pretty much a blur, and I frequently needed to look at my Google calendar in order to remember what I had done during any particular day or week, I have had the chance to reflect on not only this past year, but the entire period, has meant: to me, my colleagues, to York and to the broader community.

For me, I personally feel as if the 5-year period has amounted to nothing more nor less than the equivalent of doing another undergraduate, master's and doctoral degree (all at the same time). It's been a time of learning something new every day, often at a breakneck pace, as we at IRIS have sought to follow and implement the guiding notion of how our pan-university research centres ought to be functioning - namely along an entrepreneurial soft-money framework, in which we have some direct university funds, amounting, in the broader scheme of things, to a few thousand dollars direct support, and then generate the rest of our operating funds through inkind contributions (i.e. the time of colleagues here and outside York) and research funds and overhead.

It's akin to running a small business. No wonder the bulk of small businesses, like the bulk of species, are going extinct. It's a tough proposition.

At the end of the day, I have had an undergraduate crash course in business studies. I have learned the definition and use of terms like "leverage", "best-practice" and "ROI" (return on investment). Along with this, comes the feeling of having had a master's degree training in psychology, in which I have had to hone and use skills like active listening and mediation. Along the way, I read numerous business management and plain-language psychology books. So, what do I consider my crash-course doctoral degree to be in? I would have to say, interdisciplinary studies and sustainability. In this, I was privileged to have learned from and been taught by my colleagues in other faculties and departments throughout the university. I can actually use the word "discourse" more or less correctly in a sentence and talk about "the crisis of capitalism" and "qualitative methodology" (sometimes, through gritted teeth – being a scientist!).

IRIS has also come a long way since 2006. I have come to think about this particular Sustainability Project - the IRIS Project - at York University in the following way:

That the sentiment expressed in a poster on my colleague, Prof. Gabrielle Slowey's door "Only after the last tree has been cut down...the last river has been poisoned...the last fish caught, only then will you find that money cannot be eaten" really is worth debating in the messy, tiring, and highly contested sustainability research arena.

Along the way, I have continued to experience the cultural divide between the hard sciences and social sciences on an almost daily basis in the academy. In my view, it is well worth all of my tenured colleagues in the academy making a concerted effort to build bridges across this divide. We all sit, regardless of our discipline, in one of the most privileged positions in the Global North, and we surely owe it to the students and citizens who pay our salaries, as well as to the disenfranchised everywhere, to make the effort and learn to navigate the uncomfortable zone of interdisciplinarity.



#### 2. MANDATE, VISION AND GOALS

On June 3, 2009, the IRIS Executive participated in a facilitated planning and strategy workshop in response to recommendations from our SCOR Review. As a result, this year the Executive created and approved a <u>Strategic Plan</u> for IRIS for 2010-2012. The Strategic Plan details IRIS' focus of work by the following four criteria:

- Themes: Climate Change; Science-Policy Gap; Campus Sustainability; Sustainable Development
- **Scope**: multiple scales
- Research Diversity: inter-disciplinary research
- Community Impact: dissemination to peer-revived and community publications

#### **MANDATE**

IRIS promotes practical sustainability solutions that encompass environmental, social and economic considerations at local, regional and global scales. Operating as a leading edge interdisciplinary university wide research institute, IRIS is a hub for sustainability-related activities at York University. In this role we bridge internal and external interests through a policy of inclusivity, recognizing sustainability as a universal goal.

# **VISION**

IRIS is a leader in the creation of a culture of sustainability within and beyond York University through engagement in practical, collaborative and interdisciplinary research and innovation that drives change.

# **GOALS**

- 1. Provide leadership, integration and dissemination of interdisciplinary sustainability research by championing the use of a trans-disciplinary approach.
- 2. Engage with campus communities to create a "next generation" visible and collaborative green curriculum at York University.
- 3. Serve as a leading source for policy and decision makers on a variety of sustainability issues which reflect the current interests of affiliated faculty and fellows.
- 4. Engage students, staff and faculty in campus sustainability research and innovation projects that include pursuing carbon neutrality and implementing renewable energy to reduce York's environmental footprint and sharing the knowledge with other sustainability offices nationally.
- 5. Make IRIS an accessible jumping off point for people and organizations both within and outside of the York community to collaborate on sustainability research and related activities.
- 6. Engage the broader community from local to international to effect change on sustainability by communicating meaningfully with different stakeholder groups.



#### 3. ORGANIZATIONAL STRUCTURE OF THE UNIT

#### **EXECUTIVE MEMBERSHIP**

The Executive Board's mandate is to approve the Institute's policies, procedures, budgets, annual reports, and strategic plans and oversee their implementation. The IRIS Executive Board is chaired by the Director (ex officio) and is comprised of the Coordinator (ex officio); at least ten Core Faculty; at least three Junior Fellows; at least three Senior Fellows; to a maximum of 25 members (as per the *IRIS Membership and Governance Document*, December 2009). As of June 30, 2011, we have 23 members (2 staff, 13 Core Faculty, 6 Senior Fellows and 2 Junior Fellows). The Executive Board members are currently all appointed by the Director, on advice of the steering committee. Core Faculty, Senior and Junior Fellow Board members serve two-year terms under the governance structure. The Director is responsible for ensuring that the terms of approximately half of the Board members in each category expire each year. There is, at present, no limit to the number of terms a Board member may serve.

During 2010-2011, the IRIS Executive met seven times: October 20, November 15, 2010, and January 24, February 16, March 23, May 18, June 16, 2011. Executive meetings were typically preceded by a meeting of the Steering Committee, which discussed operational issues.

The following table lists the current members of the IRIS Executive (as of June 30, 2011):

Name	Affiliation	Membership	Term	Executive since
Alsop, Steve	Faculty, Faculty of Education	Core Faculty	July 1 2011 - June 30 2013	2006
Arsenault, Nicole/ Psathas, Helen	Manager, Transportation Services, CSBO / Senior Manager, Environmental Design and Sustainability, CSBO	Senior Fellow	July 1 2011 - June 30 2013	2007
Bazely, Dawn	Director IRIS & Faculty, Faculty of Science and Engineering	Staff	N/A	2006
Bell, David	Chair, Learning for a Sustainable Future	Senior Fellow	July 1 2010 - June 30 2011	2006
Coates, Colin	Canadian Studies Program	Core Faculty	July 1 2011 - June 30 2013	2010
Denton, William	Web Librarian, Peter F Bronfman Business Library	Senior Fellow	July 1 2010 - June 30 2012	2010
Dubreuil, Annette	IRIS Coordinator	Staff	N/A	2007
Embleton, Sheila	Faculty, Faculty of Liberal Arts and Professional	Core Faculty	July 1 2010 - June 30 2012	2010



Name	Affiliation	Membership	Term	Executive since
	Studies			
Etcheverry, Jose	Faculty, Faculty of Environmental Studies	Core Faculty	July 1 2011 - June 30 2013	2007
Figueiredo, Patty	Coordinator, CCAA	Staff	July 1 2011 - June 30 2013	2010
Glassman, Steve	Director, Printing and Bookstore Services, CSBO	Senior Fellow	July 1 2010 - June 30 2012	2007
Gould, Arlene	Faculty Associate, IRIS	Core Faculty	July 1 2010 - June 30 2012	2006
Goussev, Mikhail/ Raizada, Parul	MBA student, Schulich School of Business	Junior Fellow (Net Impact representative)	July 1 2010 - June 30 2011	2010
Henriques, Irene	Faculty, Schulich School of Business	Core Faculty	July 1 2011 - June 30 2013	2006
Higuchi, Kaz	Faculty of Environmental Studies	Core Faculty	July 1 2011 - June 30 2013	2010
Hirsch, Rachael	Post-doc, Faculty of Environmental Studies	Senior Fellow	July 1 2010 - June 30 2012	2010
Lipsig-Mummé, Carla	Faculty, Faculty of Liberal Arts and Professional Studies & Director of W3	Core Faculty	July 1 2010 - June 30 2012	2010
Medalye, Jacqueline	PhD student, Faculty of Liberal Arts and Professional Studies	Junior Fellow	July 1 2010 - June 30 2012	2010
Ellie Perkins	Faculty of Environmental Studies	Core Faculty	July 1 2011 - June 30 2013	2010
Podur, Justin	Faculty, Faculty of Environmental Studies	Core Faculty	July 1 2010 - June 30 2012	2007
Schoenfeld, Stuart	Faculty, Glendon	Core Faculty	July 1 2010 - June 30 2012	2004
Schwartzberg, Pam	Executive Director, Learning for a Sustainable Future	Senior Fellow	July 1 2010 - June 30 2012	2004
Winfield, Mark	Faculty, Faculty of Environmental Studies	Core Faculty	July 1 2010 - June 30 2011	2007
Wood, Stepan	Faculty, Osgoode Hall	Core Faculty	July 1 2011 - June 30 2013	2004

Note: Prior to 2010, no formal terms applied to Executive members. Terms were set at one or two years (as per member's preference) so that there is not a complete membership renewal all at once.



The following Executive members finished their term during the 2010-2011 year:

Name	Affiliation	Membership	Executive since
Rahder,	Dean, Faculty of Environmental	Core Faculty	2006
Barbara	Studies		
Heath, Meagan	MES student, Faculty of	Junior Fellow, Staff	2010
	Environmental Studies & IRIS		
	Coordinator (part-time)		
McKague,	PhD student, Schulich School of	Junior Fellow	2004
Kevin	Business		

#### **MEMBERS**

At the heart of IRIS are the people who collectively make it work. IRIS has four membership categories: the administrative staff of the Institute, Core Faculty, Senior Fellows and Junior Fellows. These categories cut across IRIS's core constituencies of faculty, students, staff, and members of the broader sustainability community.

#### **STAFF**

Administrative staff are those individuals employed on a full- or part-time basis by the Institute to develop and administer Institute projects and activities. The Institute has four administrative staff positions at present, plus a post-doc position.

- Director: Dr. Dawn Bazely (also Associate Professor, Department of Biology), 3-year term commencing July 2006, renewed for an additional 2-year term as of July 2009. On sabbatical from July 1, 2011, and will return for an additional term.
- Coordinator: Annette Dubreuil (May 2009-present as Coordinator; working with IRIS since October 2007), Meagan Heath (May 2010-September 2010 as Coordinator; volunteering with IRIS since October 2009), Patricia Figueiredo (September 2010-March 2011 as Coordinator)
- Webmasters: Rajiv Rawat (2007-present as Webmaster; working with IRIS since 2006), Matthew Carroll (February 2011- present as second webmaster)
- W3 project Coordinator: Sabreena Delhon (April 2010-March 2011), Ann Kim (interim coordinator and RAY student April 2011-September 2011). Kausar Ashraf (October 2011 to present)
- W3 project Information Scientist: Liz Perry (2009-present)
- CCAA Project Coordinator: Patricia Figueiredo (June 2010-present)



#### **CORE FACULTY**

Core Faculty are faculty members of York or another university, engaged in sustainability-related research or innovation, who are integrally involved with the activities of the Institute (as noted in brackets), including serving on the Executive (indicated with an asterisk). The following are the active Core Faculty for 2010-2011:

- Faculty of Fine Arts
  - o Arlene Gould\* (WGBC Summer School Course Director)
- Faculty of Liberal Arts and Professional Studies
  - o Carla Lipsig-Mummé\* (W3)
  - o David Doorey (TGIF, W3)
  - o David Szablowski (TGIF)
  - o Gabrielle Slowey (GAPS Project)
  - o Sheila Embleton\* (former VP Academic; Climate Justice)'
  - o Robin Roth (Conservation and Collaboration Workshop)
  - o Steve Tufts (W3)
- Faculty of Education
  - Steve Alsop\* (IRIS Speaker's Series Committee)
- Faculty of Environmental Studies (FES)
  - o Barbara Rahder\* (Dean of FES)
  - Ellie Perkins\* (Climate Justice; Campus Sustainability; Climate Change Adaptation in Africa (CCAA))
  - o Jose Etcheverry\*
  - o Justin Podur\*
  - o Kaz Higuchi\* (Climate Justice; Campus Sustainability)
  - Mark Winfield\*
- Faculty of Science and Engineering
  - Dawn Bazely\* (IRIS Director; W3; 4 Solitudes; GAPS; UFORE; Deer; Invasive Species; Climate Justice; Campus Sustainability; IRIS Steering Committee; IRIS Speaker's Series Committee; President's Sustainability Council)
  - o Norman Yan (4 Solitudes)
- Glendon
  - o Colin Coates\*
  - Stuart Schoenfeld\*
- Osgoode Hall
  - o Peer Zumbansen (TGIF)
  - Stepan Wood\* (W3; 4 Solitudes; IRIS Steering Committee, PDG: Transnational Business Governance Interactions)



- Schulich School of Business
  - o Alan Richardson (TGIF)
  - o Andrew Crane (TGIF)
  - o Burkard Eberlein (TGIF)
  - o Dirk Matten (TGIF)
  - o Irene Henriques\* (W3; 4 Solitudes; President's Sustainability Council)
  - o Wesley Cragg (TGIF)

#### **SENIOR FELLOWS**

Senior Fellows are individuals, based at York or elsewhere, engaged in sustainability-related research or innovation, who maintain a substantial relationship with IRIS but do not fall into the category of Core Faculty or Junior Fellow. They may include faculty, post-doctoral fellows, staff, professionals, visitors to the Institute, and people working in government, the private sector or the voluntary sector. Executive members are indicated with an asterisk. The following are IRIS' active 2010-2011 senior fellows:

- Learning for a Sustainable Future (Community Partner in Work in a Warming World)
  - o David Bell,\* Chair
  - o Pam Schwartzberg,\* Executive Director (W3)
- York University
  - York Faculty
    - Markus Biehl
    - Martin Bunch
    - Don Dippo
    - Leesa Fawcett
    - Janet Fishlock
    - Charles Hopkins
    - Pablo Idahosa
    - Lucia Lo
    - Jocelyn Martel
    - Ian Martin
    - Ian McDougall
    - Ikechi Maduka Mgbeoji
    - Ananya Mukherjee-Reed
    - Rebecca Peterson
    - Perry Sadorsky
    - Richard Saunders



- Adrian Shubert
- Vincent Tao
- Peter Victor
- o Other
  - Eric Abitbol
  - Chris Cavanagh
  - Ed Hanna
  - Susan McGeachie
  - Darin Rovere
  - Bryan Smith
- o Campus Services and Business Operations
  - Anthony Barbisan Director of Food Services (Campus Sustainability)
  - Helen Psathas\* Senior Manager, Environmental Design and Sustainability (Campus Sustainability)
  - Meagan Heath, Waste Management Supervisor
  - Nicole Arsenault\* Manager, Transportation Services, CSBO (Campus Sustainability)
  - Steve Glassman\* Director Printing and Bookstore Services (Campus Sustainability)
- Librarians
  - William Denton\*
- o Post-docs
  - Andrea Smith (Invasive Species; 4 Solitudes)
  - James MacLellan (4 Solitudes; Campus Sustainability)
  - Nicole Klenk (4 Solitudes; Climate Justice)
  - Nina Hewitt (4 Solitudes)
  - Rachael Hirsh\* (Climate Justice)
- York International
  - Carol Irving (WGBC Summer School)
  - Larissa Strong (WGBC Summer School)



#### **JUNIOR FELLOWS**

Junior Fellows are graduate and undergraduate students at York or another university who engage in IRIS-led or IRIS-supported projects. Junior Fellows are appointed by the Director for a term of two-years or shorter reflecting the expected duration of their substantial relationship with the Institute, i.e. Graduate Assistantships, Work Study program, RAY program, interns, or simply volunteers. The 2010-2011 Junior Fellows include:

#### • Graduate Assistants

- Alexis Esseltine MES student, Environmental Studies (Campus Sustainability)
- o Bahareh Toghiani Rizi MES student, Environmental Studies (Research)
- Dawn Strifler MES Student, Environmental Studies (Campus Sustainability Survey)
- Hazel Sutton MES student, Environmental Studies (Climate Justice; Campus Sustainability)
- o Michael Young MES student, Environmental Studies (Events)
- o Elizabeth Lorimer (CCAA)
- o Alex Todd (CCAA)
- Research Assistants (Graduate Students)
  - o Alana Kronstal MA student, University of Victoria (GAPS)
  - o Andrew Tanentzap PhD student, University of Oxford (GAPS; Deer)
  - o Christie Cestra MSc student, Science and Engineering (Deer project)
  - o David Staples MSc student, Science and Engineering (4 Solitudes, GAPS)
  - o Julia Christensen PhD Student, McGill University (GAPS)
  - o Milissa Elliott MSc Student, Science and Engineering (GAPS)
  - o Nora Saona PhD student, Science and Engineering (GAPS)
  - o Paul Marmer MSc student, Science and Engineering (GAPS)
- Research at York (RAY) Students (Undergraduate Students)
  - o Granaz Ghalehvand Science and Engineering
  - o Tracy Tanentzap Science and Engineering
  - o Matt Zeno Professional Writing and Philosophy
  - o Rahul Goel Schulich School of Business
- Work Study Students
  - o Aarti Rattan Undergraduate student, Schulich (Campus Sustainability)
  - o Caitlin Gascon Undergraduate student (Communications)
  - o Rabeea Wajeeha Undergraduate student (Events)
  - Mishba Bholat Undergraduate student, Schulich (Work Study)
  - o Wen Ma Undergraduate student, Design (Graphic Design)



### Volunteers

- o Design Interns: York-Sheridan Program in Design
  - Angelina Ramdin
  - Wen Ma
  - Nicholas Papadimitriou
  - Anita Sekharan
  - Anda Lupascu
  - Daniel So
- IRIS Executive
  - Jacqueline Medalye\* PhD student, Liberal Arts & Professional Studies (Climate Justice, Climate Change Blog)
  - Kevin McKague PhD student, Schulich (Board of Governors)
  - Meagan Heath MES student, Environmental Studies (Part-time Coordinator; Campus Sustainability)
  - Mikhail Goussev\* MBA student, Schulich (Net Impact)
  - Parul Raizada\* MBA student, Schulich (Net Impact)
- o Campus Sustainability (including Earth Hour, and the Waste and Campus Engagement Surveys)
  - Andrea Lukac MES student, Environmental Studies
  - Chiara Camponeschi MES student, Environmental Studies
  - Eitan Yane MBA student, Schulich
  - Guru Rengan MBA Student, Schulich
  - Holly Ouellette Undergraduate student, Environmental Studies
  - Manisha Peddinti Undergraduate student, Environmental Studies
  - Marlee Kohn MES student, Environmental Studies
  - Michelle Chow Undergraduate student, Fine Arts
  - Nina Popova MES student, Environmental Studies
  - Ryan Shannon MES student, Environmental Studies
  - Santhosh Poobathy MBA student, Schulich
  - Sridhar Srinivasan MBA student, Schulich

# o Climate Justice

- Ewa Modlinska Graduate student, Liberal Arts & Professional Studies
- Janina Schan MES student, Environmental Studies

In addition, IRIS acknowledges the volunteer work of all other student volunteers, including those who assisted with Earth Hour activities and tabling in Vari Hall and at Glendon for the Campus Engagement survey.



#### 4. ACTIVITIES OF THE UNIT

Broadly, IRIS's activities in 2009-2010 can be divided between, academic research projects (limited-term) and innovative engagement programs (ongoing).

#### **ACADEMIC RESEARCH PROJECTS**

During 2010-2011, IRIS housed and led numerous limited-term (1-5 years) academic research projects, including: Transnational Business Governance Interactions; Climate Change Adaptation in Africa; Work in a Warming World; Connecting the Four Research Solitudes; Gas, Arctic Peoples and Security; The Effects of White-Tailed Deer; and Assessment of Invasive Alien Species in Ontario. The following projects are listed in order of completion, with the most recently started projects listed first and those completed listed last.

#### TRANSNATIONAL BUSINESS GOVERNANCE INTERACTIONS

Transnational Business Governance Interactions is a new project hosted by IRIS and funded by a three-year Partnership Development Grant from the Social Sciences and Humanities Research Council of Canada. The notice of award was made April 1, 2011.

Professor Stepan Wood, Acting Director of IRIS at York University (<a href="www.irisyorku.ca">www.irisyorku.ca</a>), is leading the international research project on the forms and dynamics of interaction among transnational business governance initiatives. The project investigates a development that has largely escaped academic attention but is increasingly a fact of life for transnational companies, standards-setting groups and governments. From accounting standards to sustainable forestry certification, more and more of the norms and standards that govern business emanate not from conventional state institutions, but from an array of private and multi-stakeholder institutions operating in a dynamic, transnational regulatory space.

As these initiatives multiply within and across issue areas and industry sectors, they interact with one another and with state-based regulation. Such transnational business governance interactions have substantial implications for business strategy and public policy. Yet little is known about the forms and dynamics of these interactions, how they constitute larger regulatory formations, or their implications for society, economy or environment. When do these initiatives cooperate? When do they compete? Do they race one another to the top or to the bottom? Do their institutions and content converge or diverge over time? Why do some initiatives achieve quasi-monopoly status in their fields while others languish in obscurity? Do their interactions reinforce or undermine ecological sustainability, prosperity, innovation, and human rights? And how can policy actors orchestrate these interactions to promote positive outcomes? Four university partners and a leading association of social and environmental standards-setting bodies are partnering to create an international research network on transnational business



governance interactions, conduct collaborative interdisciplinary research, create policy-relevant knowledge and mobilize knowledge in support of innovative and effective policy solutions.

The partner institutions are York University (<a href="www.yorku.ca">www.yorku.ca</a>), Arizona State University (<a href="www.asu.edu">www.lse.ac.uk</a>), the London School of Economics and Political Science (<a href="www.lse.ac.uk">www.lse.ac.uk</a>), the Baldy Centre for Law and Social Policy of the State University of New York at Buffalo (<a href="www.law.buffalo.edu/baldycenter">www.law.buffalo.edu/baldycenter</a>), and the International Social and Environmental Accreditation and Labelling (ISEAL) Alliance (<a href="www.isealalliance.org">www.isealalliance.org</a>).

The project aims to make substantial strides in improving knowledge of the important yet largely ignored dynamics of interaction in transnational business governance, and in mobilizing this knowledge in support of innovative policy solutions that promote social, environmental and economic goals.

#### **CLIMATE CHANGE ADAPTATION IN AFRICA**

"Strengthening the role of civil society in water sector governance towards climate change adaptation in African cities—Durban, Maputo, Nairobi" is a three-year research project supported by the Climate Change Adaptation in Africa (CCAA) program, a joint initiative of Canada's International Development Research Centre (IDRC) and the United Kingdom's Department for International Development. This project—housed at IRIS, at York University in Toronto, Canada—links university researchers with community-based NGOs conducting environmental education and organizing participatory workshops in low-income urban areas with pressing climate change and water-related problems.

This project builds on proven methods of community-university collaboration to strengthen urban watershed governance and increase equity in public participation processes related to urban climate change adaptation. Furthermore, this project fosters progressive local, national and international policy development on climate change-related water management, while training students, university researchers, NGO staff members, and community participants. The major research outcome of this project will be its contribution to understanding effective ways of strengthening local governments, NGOs and civil society organizations involved in environmental education and organizing for improved public participation in watershed governance and climate change adaptation in African urban areas.

During this reporting period, members of our team have fostered collaborative relationships between community-based organizations and NGOs and universities in Durban, Maputo, and Nairobi. NGO staff members and university researchers are working together in each city to continue conducting environmental education and workshops in the cities' low-income areas where water and climate change stresses are particularly evident.



Each country team has convened and/or attended meetings with local government officials where the project's climate change and water management objectives have been discussed. Research assistants are now working within each partner NGO to characterize urban water governance frameworks in ever-greater detail and to develop locally appropriate ways of enhancing civil society's role in responding to climate change.

The academic members of our research team have selected student interns to work with the NGOs and assist in documenting the project's processes, methods and findings. We are editing the information on climate change impacts and civil society's current responses and needs in each city which was shared at our first team meeting, and a manuscript including this information is nearly complete, ready for wider dissemination in published form and on the project website (http://ccaa.irisyorku.ca).

In Nairobi, two students (Stephen Otieno and Elizabeth Wamuchiru) have completed their research in the Kibera and Huruma areas of the city as of August, and have begun writing up their papers. Two York University students (Elizabeth Lorimer and Alex Todd) completed research in May and wrote papers on climate change and vulnerability among marginalized populations in Toronto, prior to starting their research trips to Durban (Alex Todd, "Climate Change and Water Governance in the Greater Toronto Area;" Elizabeth Lorimer, "A History of the Green Change Project").

The project's goals and methodology have also served as the basis for several conference presentations and forthcoming publications by project partners and students, including the following:

"International synergies to address climate change: Participatory community organizing in Canada and Brazil" by Patricia E. Perkins and Ana Louise Tavares Leary, Faculty of Environmental Studies, York University. Paper presented at the 2011 Global Studies Conference, Rio de Janeiro, Brazil, July 18-20, 2011, and submitted to the Global Studies Journal.

# "Women and Water Management in Times of Climate Change: Positive Processes"

by Patricia Figueiredo and Patricia E. Perkins, Faculty of Environmental Studies, York University. Abstract approved and paper submitted to the <u>Journal of Cleaner Production</u> special issue on "Women, Water, Waste, Wisdom and Wealth," May 16, 2011.

# "Gender Justice and Climate Justice: Community-based strategies to increase women's political agency in watershed management in times of climate change"

by Patricia Figueiredo and Patricia E. Perkins, York University. Paper presented at the Ninth International Conference of the International Development Ethics Association (IDEA) on "GENDER JUSTICE AND DEVELOPMENT: LOCAL AND GLOBAL"



Bryn Mawr College, Pennsylvania, June 9-11, 2011.

"Innovations in participatory water governance in times of climate change" by Patricia E. Perkins, Ana Tavares Leary, Alexander Todd, Elizabeth Lorimer, and Patricia Figueiredo, York University. Paper submitted to Natural Resources Forum for a special issue on Institutions for Sustainable Development, 15 July 2011. This paper was not accepted by the journal, but we will revise it and seek other publication venues.

**"Politics of Climate Justice: Paralysis Above, Movement Below"** by Patrick Bond, University of KwaZulu Natal. Paper presented to the Gyeongsang University Institute of Social Science, Jinju, Korea, 27 May 2011.

"The Right to the City and the Eco-Social Commoning of Water: Discursive and Political Lessons from South Africa" by Patrick Bond, University of KwaZulu Natal. Forthcoming in Farhana Saltana and Alex Loftus (eds), *The Right to Water*, London, Earthscan, 2011.

"Political-ecological and political-economic conflicts over water management in Durban, South Africa" by Patrick Bond, University of KwaZulu Natal. Unpublished paper.

"Climate Change and Water Governance in the Greater Toronto Area" by Alex Todd, York University. Unpublished paper.

**"A History of the Green Change Project"** by Elizabeth Lorimer, York University. Unpublished paper.

# **WORK IN A WARMING WORLD**

Work in a Warming World (W3) is in its second year of a fiveyear SSHRC-funded Community-University Research Alliance (CURA) that addresses the challenge of climate change and response to climate change, for Canadian employment and work. This collaborative research initiative bridges two traditional solitudes: between environmental, policy and labour market organizations; and between academic and practitioner research. It brings together 43 organizations and researchers in 10 universities and 3 countries.

The purpose of W3 is to better understand the present and potential role of employment and work organization in Canada's



transition to a low-carbon economy and to develop and deploy practical strategies and tools for adapting employment and work to the warming world. This is a new research area in Canada. Adapting work organization and employment patterns can contribute powerfully to Canada's efforts to slow global warming. Our goal in this CURA is to produce new research that informs



widely and brings to its partner organizations practical, creative tools to adapt their practice. This is the time to craft tools and strategies for that contribution.

In 2011, W3 added a SSHRC Public Outreach Grant to its portfolio. The project titled "Engaging the Community: Canada's work world and the challenge of climate change" will engage five non-academic communities. To read more visit:

http://www.workinawarmingworld.yorku.ca/projects/engaging-the-community/

In 2010-2011 W3 published "Green/ing Jobs: Definitions, Dilemmas, Strategies" along with a panel event on the same topic held on January 20<sup>th</sup>, 2011. Also published was "What Do We Know? What Do We Need to Know? The State of Research On Work, Employment and Climate Change in Canada (Final Report)". See the publications page of the project website to read more:

http://www.workinawarmingworld.yorku.ca/resources/publications/

In February 2011, Steven Tufts and Tom Mann each presented papers at the 25th AIRAANZ Conference, Auckland, New Zealand:

- Tom Mann: <u>Some Responses to the Challenge of Climate Change by North American Labour</u>
- Steven Tufts: <u>Climate Change and Labour Union Strategy in the Accommodation Sector:</u> <u>Opportunities and Contradictions</u>

# CONNECTING FOUR RESEARCH SOLITUDES: THE IMPACT AND IMPLICATIONS OF CLIMATE CHANGE FOR INVASIVE SPECIES, BIODIVERSITY AND SOCIETY

Connecting Four Research Solitudes is a one-year knowledge synthesis project, which builds off of the now completed IRIS research project, Assessment of Invasive Alien Species in Ontario, profiled below. Climate change and Invasive Alien Species (IAS) are major drivers of global environmental change and both have already had profound impacts on different parts of Canadian society. With this Canadian Foundation for Climate and Atmospheric (CFCAS) funded project, IRIS is helping researchers to connect the four solitudes of climate change, invasive species, biodiversity loss and society, more effectively. The researcher's knowledge synthesis will help to operationalize these connections by assessing (1) which invasive species are expected to spread the most with climate change, (2) the implications of efforts to combat climate change through the development of alternative fuel sources (biofuels), and (3) how proposed efforts to assist threatened and rare species, by physically moving them to new locations for example, may cause more invasions. The potential impacts of these issues for trade, legislation and policy, work and employment, as well as education and training will be addressed. Knowledge pertaining to each of each of these questions, including knowledge attained through community consultation, will be explored in a synthesis report. All three themes will be combined and synthesized in a final report. To date, one of the knowledge synthesis reports has been published:

Hewitt, N., N. Klenk, A. L. Smith, D. R. Bazely, N. Yan, S. Wood, J. I. MacLellan, C. Lipsig-Mumme and I. Henriques. 2011. <u>Taking stock of the assisted migration debate</u>. Biological Conservation 144: 2560-2572.



#### **ECOLOGIES ON THE EDGE**

The Ecologies on the Edge Research Programme brings together scholars from the social and natural sciences, including sociology, anthropology, ecology, law, geography and political science to investigate key processes affecting vulnerable ecologies in Asia, Africa, Latin America and the Arctic. It builds on several interdisciplinary research clusters at York University and is a joint initiative of the York Centre for Asian Research (YCAR), the York Centre for International and Security Studies (YCISS) and the Institute for Research and Innovation in Sustainability (IRIS). The research team submitted a SSHRC-MCRI letter of intent in January 2009 and was successful in obtaining an MCRI development grant later that year. A workshop was held at York University in July 2009 and included scholars from across Canada. Another workshop is planned for October 2011.

#### GAS, ARCTIC PEOPLES AND SECURITY (GAPS)

"Impacts of oil and gas activity on peoples in the Arctic Using a Multiple Securities Perspective" (or Gas, Arctic Peoples and Security) is a Canadian-Norwegian collaboration funded the International Polar Year Program, involving researchers from York University, McGill University, University of Victoria, and the University of Tromsø in Norway. The Canadian GAPS project is focused on diverse aspects of human security such as introduced species movements along the proposed Mackenzie Valley Pipeline, hidden homelessness, mental health workers, and governance issues. By exploring the effects of oil and gas activity, and its interactions with climate change, on the human security of Arctic peoples, GAPS will further understanding and knowledge of 1) the science of climate change impacts and adaptation, and 2) the health and well-being of Northern communities.



This five-year project has come to the end of its funding. This year PhD Nora Saona completed her work "The Ecology of Fungal Endophyte – Grass Symbioses". Three students continue work on their theses, including hidden homelessness and grasses with microscopic fungus that can be toxic to mammals. Final results to date were presented at the NWT International Polar Year Results Conference in Inuvik, January 19-21, 2011. Local presentations were also made in Fort Simpson on January 14-15 by Professor Dawn Bazely, and in Whitehorse by Professor Gabrielle Slowey on January 18<sup>th</sup>. The project also created a <u>summary of its project findings</u>.

#### THE EFFECTS OF WHITE-TAILED DEER

Southwestern Ontario, Canada, is densely populated and highly urbanized and industrialized areas exist in proximity to extensive areas of intensive agriculture. Consequently, natural forest



cover has become reduced and fragmented. Many species of deer are able to thrive in landscapes with fragmented forests, because overall amounts of forage increase at forest edges, and deer populations have increased across North America over the last few decades.

Over the last three years, through a grant from the City of London, Ontario, IRIS members have been assessing the effects of white-tailed deer browsing on different vegetation community types in three environmentally significant areas (ESAs) in the City of London. The ESAs include the Sifton Bog, Medway Valley and Meadowlilly Woods. The experimental approach involves the use of deer exclosures that have been built at all sites. Vegetation matrixes, including current annual growth on woody stems, tree and shrub densities, and species composition of the woody and herbaceous vegetation (cover and frequency) have been used to quantify the effects that white-tailed deer have had on the ESAs. The height, density, and abundance of Trillium grandiflorum have been used as an indicator of deer density. The structure and composition of the plant communities at the sites will be placed in a regional context and compared with other plant communities across southern Ontario. It is predicted that the sites will fall along a disturbance gradient that reflects both deer densities and surrounding urbanization of the last 25 years. The findings were detailed in the thesis created by Christie Cestra for her defence on June 9, 2011.

#### ASSESSMENT OF INVASIVE ALIEN SPECIES IN ONTARIO

Recognizing that invasive species represent a significant threat to biodiversity, the Ontario Ministry of Research and Innovation funded this two-year research project on invasive alien species (IAS) in Ontario. This research adopted an interdisciplinary approach to examine current and potential future IAS threats, their ecological and socio-economic impacts, and our preparedness to prevent and manage IAS in Ontario. The project culminated in two papers.

The first paper, *Missing the Boat on Invasive Alien Species: A Review of Post-Secondary Curricula in Canada*, details how higher education can contribute to the development of effective strategies for dealing with the IAS problem. This study, was published in the *Journal of Higher Education*<sup>1</sup>, reviewed the undergraduate and graduate university curricula at all 94 member institutions of the Association of Universities and Colleges of Canada for IAS content to determine the extent of such training in Canada. The main finding was that degree and diploma programs focusing on IAS issues are lacking at Canadian post-secondary institutions. Furthermore, few courses are devoted solely to IAS, and those that are offered typically adopt an ecological perspective. It was recommended that interdisciplinary university curricula on IAS be adopted in Canada. Several international educational programs on IAS are presented as case studies.

The second paper, *Invasive Alien Species Policy in Two Great Lakes Jurisdictions*, will compare the approaches taken by Ontario and Minnesota to prevent and control IAS. While Minnesota has developed a comprehensive and coordinated approach to deal with IAS within the

<sup>&</sup>lt;sup>1</sup> Smith, A. L., D. R. Bazely and N. Yan. 2011. Missing the boat on invasive species: a review of post-secondary curricula in Canada. Canadian Journal of Higher Education 41(1): 34-47.



state, comprised of specific legislation, dedicated staff, widespread monitoring and consistent enforcement, Ontario lacks an overarching framework directing IAS efforts. Instead, the province adopts a piecemeal approach to the IAS problem, with no specific legislation or enforcement mechanisms, few staff focusing on prevention and management and insufficient monitoring. The paper is being prepared for submission to the journal *Canadian Public Policy*.

#### INNOVATIVE ENGAGEMENT INITIATIVES

During 2010-2011, IRIS sought to innovatively engage the public through a variety of initiatives, including: creating the Glendon Campus Project website, leading a delegation to the 16<sup>th</sup> Conference of the Parties of the United Nations Framework Convention on Climate Change; running several campus sustainability initiatives at York University; hosting its annual speakers series; supporting other organizations through committee representation, event sponsorship, or providing work space; and increasing its e-presence.

#### THE GLENDON CAMPUS PROJECT

The Glendon Campus Project, supported by IRIS as part of its mandate for campus sustainability, is a website that contributes to the common culture of those who work and study there, to the York community and to the broader community who use the forest and the upper campus as recreational space. The project began in September 2010. The website will be made public in November 2011. The project documents and shares knowledge about the unique environmental features of the Glendon campus. The upper campus features a botanical garden and a heritage property. Most of the lower campus is forest along the West Don river, integrated into the ravine system of the Toronto Parks. As well the project documents the history and current state of environmentalism at Glendon, with a focus on the campus conservation committee, student environmental activism and related initiatives. The Masters Program in Public and International Affairs provided two graduate assistants to the project. Webspace is provided by IRIS.

#### **CLIMATE JUSTICE**

From its establishment, IRIS has recognized climate justice as a core issue. Since then, it has conducted numerous research project and engagement initiatives related to climate justice, such as hosting the Ecojustice Conference and attending the UNFCCC Conference of the Parties climate change conferences. This year we have added a Climate Justice Website, <a href="https://www.climatejustice.irisyorku.ca">www.climatejustice.irisyorku.ca</a> to our website presence, to showcase our climate justice initiatives. A Climate Justice Forum has also been created.

#### **UNFCCC COP16**

Inspired by discussion at the Ecojustice Conference of April 2009, IRIS first attended the Conference of the Parties (COP15) of the United Nations Framework Convention on Climate



Change in Copenhagen, Denmark, in December 2009. Although COP15 did not establish a legally binding accord, the opportunity for IRIS to participate in the conference was an accomplishment. Following this interesting experience, IRIS decided to once again send delegates to COP16.

This year IRIS had two delegates attend the conference. While the logistics were much smoother in Mexico, the results left much to be desired. The experience was very different. There weren't nearly as many people in attendance as COP15, and the delegate Jacqueline Medalye wrote a blog titled "COP is Dead, Long live the COP" to highlight what that the "Conference of the Parties, as the pluralistic democratic space for halting climate change, is dead. Long live the new Conference of the Parties, in which the autocratic,



top-down institutions we are all so familiar with, will instruct us on how climate change is a reality to be adapted to and if we get on board, profited from." To read more about IRIS's presense at COP 16 visit our new <u>Climate Justice website</u>.

#### **CAMPUS SUSTAINABILITY ACTION AGENDA**

IRIS has conducted numerous sustainability-related surveys every year around the campus, starting in 2007. The very first IRIS survey gathered the York community's thoughts on climate change. The results of the survey then lead to the introduction of carbon neutral course kits. Other additional surveys have emphasized on the York community's thoughts and opinions on campus food offerings, behaviours, and attitudes regarding the waste found on campus, and this year we took on campus engagement. Once a theme has been selected, IRIS works closely with the relevant faculties, departments and operational units to develop the action agenda. Each year, we conduct a survey on the annual theme, which is complemented by other engagement initiatives such as presentations, interactive activities, and tailored reporting to relevant parties throughout the University.

#### **ENGAGEMENT**

In the year of 2010-2011 IRIS conducted its fourth annual survey which addressed volunteerism and engagement on the campus. The holistic objective was to allow members of the community to express a desire to explore campus volunteerism and engagement as a means to improve campus sustainability. Through the surveys, IRIS was able to establish the York community's core values, interests, and engagement with campus groups. One of the main findings is that students want to volunteer more, but they feel they have a lack of time to do so. These surveys allow IRIS to build a channel of communication with the York community and ensure that everyone is aware of sustainability and its significance in today's society. The engagement report will be released next year.



#### WASTE MANAGEMENT

In 2009-2010, IRIS examined the generation, management and impacts of waste at York University. As with our food survey, IRIS worked closely with Campus Services and Business Operations (CSBO) in the development of the waste survey in which participants were asked about: their awareness of waste management in general and York's waste programs specifically; their waste reduction and diversion behaviours; and what changes they would like to make to York's waste management programs. The survey was completed in December of 2009. Initial findings were presented at the Earth Hour Symposium, and the final report was released at an event on January 11, 2011.

#### **EARTH HOUR SYMPOSIUM**

IRIS co-hosted its second annual Earth Hour Symposium with the student clubs Net Impact and ECO (Environmentally Conscious Organization which aims to bring together like-minded individuals on campus and engage the broader York community on sustainability issues). The event occurred on March 16, 211. The event included a fashion show and a speech from keynote speaker Andrew Bowerbank.

#### SUSTAINABILITY CURRICULUM DEVELOPMENT

As a pedagogical institution, the University is actively involved in teaching a wide variety of subjects. IRIS aims to include elements of sustainability in existing curricula and to create new curricula that take a broad approach to sustainability as a discipline or specifically focus on the application of sustainability to a particular subject matter.

#### INTERNATIONAL SUMMER SCHOOL IN GREEN BUILDING DESIGN

IRIS is working with the university to integrate green building principles into the curriculum and the campus environment. In 2008, IRIS facilitation led to a memorandum of understanding with the World Green Building Council (WGBC), which in turn led to the International Summer School in Green Building Design, launched in summer 2009, with York International. The intention of the course is to foster literacy in green building strategies in an international context. The undergraduate course is offered through the Faculty of Environmental Studies (FES) by IRIS Core Faculty and Executive Board member Arlene Gould.

Now in its third year, the Summer 2011 course will again have more spaces made available to FES students and be run at cost. The course continues to be open to multiple fields—remaining one of the few interdisciplinary undergraduate courses at York University, and indeed nationally. The course features unique interactive workshops, practice design methodologies and tools, collaboration, field trips and cross discipline design charrettes, guest lecturers from experts in green buildings.





#### **CONTINUING EDUCATION**

IRIS continues to explore opportunities to create non-degree courses about sustainability. Look for more from IRIS on courses in the near future.

# 2010/2011 SPEAKERS SERIES



With a diversity of well-recognized speakers covering a broad range of topics, the annual IRIS speaker series has proved to be popular in past years. During the 2010-2011 academic year, IRIS hosted speakers on a broad range of sustainability issues, including: climate justice, green business, campus waste, and diversity. The intention of these events is to engage with students and reach out to alumni and the community, in spreading awareness and providing a space for conversation and networking. This year's speaker series featured the following presentations:

- Sandbergs' Book Launch / Open House On October 2010 IRIS proudly welcomed the public to its York Lanes office. This followed a book launch for *Climate Change Who's Carrying the Burden*, co-edited by York Faculty of Environment Professor Anders Sandberg and former York student Tor Sandberg.
- Book Launch and Talk-Back with Bob Willard The Sustainability Campion's Guidebook & Talk Back with Bob Willard On November 23, IRIS in conjunction with Learning for a Sustainable Future (LSF) and Working in a Warming World (W3)hosted a book launch and talk back with author Bob Willard on his latest publication, The Sustainability Champion's Guidebook.
- York International Internship Panel On November 23, 2010 IRIS and the York International Internship Program (YIIP) co-hosted this collaborative campus panel event which highlighted the international internship opportunities available for work in sustainability and the environment. The panel event will consisted of five speakers, each of whom have participated in a unique internship.
- Let's Get Wasted On January 11, 2011 IRIS hosted the Let's Get Wasted event where the 2010 IRIS Campus Sustainability Survey: Waste on Campus Report was released.
- **COP16 De-Brief event** On Monday, January 17 2011, IRIS hosted a COP16 de-brief event where themes from this year's 16th Conference of the Parties in Cancun Mexico were discussed by a panel including COP 16 attendee Jacqueline Medalye, a Political Science PhD Candidate at York University.



- A Case For Diversity On February 8, 2011 IRIS, in collaboration with Learning for a Sustainable Future and the Education Alliance for a Sustainable Ontario, hosted a discussion with Sonia Dong, the Diversity Project Manager at the Sustainability Network.
- Leduc's Book Launch On March 3, 2011 IRIS held a book launch for Timothy B. Leduc's new book "Climate, Culture, Change: Western and Inuit Dialogues with a Warming North."

#### **EVENTS SUPPORTED BY IRIS**

In addition to IRIS-led initiatives and events, IRIS has provided speakers, financial and/or administrative support for the following events over the past year:

#### SUSTAINABLE PURCHASING: STUDENT PERSPECTIVES AND EXPERIENCES

On March 15, 2011 the York Centre for Practical Ethics presented a panel on sustainable purchasing. The panel was followed by a short information session on student-run businesses and how the York community can move forward. Caitlin Gascon, an IRIS work study student, presented.

#### **COMMITTEE REPRESENTATION**

- <u>President's Sustainability Council</u> was created in 2008 by President Shoukri with broad representation from across the University to provide input on how to address sustainability issues on a pan-University level. IRIS has a seat at the Council and contributes to provide critical input. Professors Dawn Bazely and Irene Henriques share a seat on this committee.
- <u>YORKW!SE</u> intends to promote campus stewardship and quality of life through awareness campaigns, and by engaging students, staff and faculty in campus sustainability initiatives around topics such as energy conservation and waste reduction. IRIS has a seat on YORKW!SE and provides advice and expertise.
- Council of Research Directors was created by the Vice President, Research and Innovation (VPRI) to bring all the Directors of the 26 different research institutes at York University to discuss common issues and ways to collaborate better and enhance the research environment at the University. In general, IRIS advocates for more inter-disciplinary research to allow for different viewpoints that are needed to tackle the worlds' complex issues. The Council of Research Directors and IRIS believe research needs to be disseminated using appropriate language for different stakeholder groups so that it might be taken up by society at large. In 2010/2011 IRIS Director, Dawn Bazely,



contributed to a group of Directors that were working on the ORU Reorganizing by examining and providing feedback to the Draft Senate Policy on Organized Research Units

 Morris Katz Memorial Lecture Committee, which selects the speaker for the annual Memorial Lecture. The annual lecture was created by the Chemistry Department in 1990, and sponsored by York Centre for Atmospheric Chemistry (CAC) and the Ontario Ministry of the Environment (OME) and is organized by CAC. The purpose of the lecture is to stimulate research in environmental science.

#### **IN-KIND ORGANIZATIONAL SUPPORT**

In addition to providing financial, administrative or expert support, IRIS provides office and meeting space to other organizations. As well, IRIS plans to increasingly provide workspace of sustainability-related student-led organizations, particularly in the Summer term when campus clubs offices are closed. We've begun by housing Regenesis @ York.

#### **LEARNING FOR A SUSTAINABILE FUTURE**

Since 2004, IRIS has housed the not-for-profit organization <u>Learning for a Sustainable Future</u> (LSF). During 2010-2011 LSF continued to expand its programs for elementary and secondary students to take action, with financial support provided over 270 action projects across the country! The Resources for Rethinking database continue to grow and house more exemplary classroom resources that are thoroughly reviewed to meet the highest sustainability and pedagogy principles. To learn more about LSF, visit their website: www.lsf-lst.ca

# **REGENESIS @ YORK**

Since the summer of 2010 IRIS has provided a home to Regenesis @ York. Regenesis @ York has four core projects that we're currently focusing on - Farmers Market and Food Education, Cycling Advocacy and Infrastructure, Future of Our Forest and our Primary Education Initiative. The following are their activities for this year:

- **Farmers Market and Food Education**: Held the first Farmers Market ever at York, which was extremely successful! Currently looking to expand to two weekly markets on both campuses. We also aim to be the leading force that tackles some of York's most serious food related challenges, from accessibility to kitchen space on both campuses.
  - o Harvest Fest Video: <a href="http://www.youtube.com/watch?v=NxdqfTjjtwU">http://www.youtube.com/watch?v=NxdqfTjjtwU</a>
  - Excalibur Article: <a href="http://www.excal.on.ca/sportshealth/health/farmer%E2%80%99s-market-comes-to-york/">http://www.excal.on.ca/sportshealth/health/farmer%E2%80%99s-market-comes-to-york/</a>
- Cycling Advocacy and Infrastructure: Cycling issues at both campuses have been extremely important to us. We're currently trying to establish a bike shop at Keele



Campus, as well as implement a bike rental system at Keele. Also, we are working towards increasing bike infrastructure, as well as placing lockers on both campuses. Our goal is to build a cycling culture at York and getting the campus involved on both a recreational and competitive level.

- Future of Our Forest: Born out of our serious concern over the fact that York's natural spaces are being inadequately managed and integrated into campus life, we were motivated to act by the condition of the forests at Glendon Campus, which face many serious challenges. Through the collaboration of an undergraduate and graduate student, plus the support of faculty and staff on both campuses, we were able to create a video highlighting the issue and enter it into TD Go Green Challenge for which we were one of the winners! There's a huge task ahead to both raise awareness and ensure York's currently unmanaged forests receive the attention and focus they deserve.
  - TD Go Green Challenge Winning Video: http://www.youtube.com/watch?v=n6L2usFAwIs
  - o Y FILE article: <a href="http://www.yorku.ca/yfile/archive/index.asp?Article=16689">http://www.yorku.ca/yfile/archive/index.asp?Article=16689</a>
- **Primary Education Initiative**: We are currently trying to create a non-degree certificate program that would allow York students from all faculties to go to Toronto, Peel and York region elementary schools to teach children about the environment in a fun and engaging way through short workshops. Candidates will also learn valuable public speaking and teaching skills!

#### IRIS E-PRESENCE

The IRIS website, <u>www.irisyorku.ca</u> continues to be hosted by <u>Ethical Hosting</u>, which is powered by 100% renewable energy provided through <u>Bullfrog Power</u> and <u>Planetair</u>. The website is constantly updated so that it remains a current and user-friendly resource for

researchers, students, community members and anyone interested in sustainability issues. In addition to profiling its many projects, initiatives, members and associates, the website is also a hub for discussing sustainability issues (through our frequent and thought provoking blog posts), or for finding out about local sustainability events. IRIS continues to also utilize Facebook (IRIS - Institute for Research and Innovation in Sustainability) and Twitter (irisyorku) for social media purposes. We continue our monthly newsletter, highlighting key news items and upcoming events.





# 5. GRADUATE TRAINING ACTIVITIES/ACCOMPLISHMENTS

Students Receiving Graduate Assistantship and Research Assistantship Funding through IRIS for the 2010-2011 period are:

#### • Graduate Assistants

Five Faculty of Environmental studies Masters students worked with IRIS as Graduate Assistants in a variety of Campus Sustainability capacities.

- o Dawn Strifler let our annual campus sustainability survey on community engagement.
- Alexis Esseltine completed the report for the waste survey conducted last year, and supported Dawn in this year's survey.
- o Hazel Sutton coordinated the IRIS work study students.
- o Michael Young coordinated the IRIS Speaker Series.
- o Bahareh Toghiani Rizi helped to edit a book by Dr. Bazely.

#### Research Assistants

Under the supervision of Dawn Bazely, IRIS's four Research Assistants pursued their Masters in Biology or PhD in association with the Gas, Arctic Peoples and Security (GAPS) project and the Effects of White-tailed Deer project.

- In association with the GAPS project, Paul Marmer and David Staples continued their work on the MSc. Nora Saona completed her PhD "The Ecology of Fungal Endophyte – Grass Symbioses"
- In association with the Deer project, Christie Cestra completed and defended her Masters degree work on the effects of deer in Southwestern Ontario





# 6. PLANS AND PRIORITIES FOR JULY 1, 2011 – JUNE 30, 2012

- Attend COP 17 and host a side event
- Establish the Ecojustice conference a biennial event and establish virtual workshops
- Continue to push for campus sustainability projects by engaging the administration of the University and the York community at large
- Continue to disseminate the findings from our previous campus sustainability research on Food and Waste. Finish the Engagement Report and release
- Focus the 2011-2012 Campus Sustainability Action Agenda on the topic of sustainability accessibility
- Continue to act on the SCOR recommendations, as per the <u>Policy, Guidelines and Procedures for</u> the Chartering and Review of Research Centres/Institutes at York University
- Continue to fund IRIS Executive members and fellows in representing IRIS at conferences and other events
- Secure more research funding and financial support for administrative and overhead costs
- Build on our role as a sustainability hub at York for individuals within and outside of the York community, by increasing the availability of sustainability resources
- Collaborate more closely with York student clubs and organizations
- Showcase sustainability-related research projects by IRIS members and York faculty and students
  on the IRIS website, potentially culminating in an annual e-journal or major event
- Create an annual IRIS lecture
- Expand the IRIS membership, including students, staff, faculty, and community members
- Re-establish the IRIS Advisory Committee
- Make available funds to sponsor student participation in conferences



#### 7. PUBLICATIONS

#### JOURNAL ARTICLES, BOOK CHAPTERS, PRESENTATIONS

#### CARLA LIPSIG-MUMMÉ

# **A) Research Funding:**

Principal Investigator (PI), 'Canada's Work World and the Challenge of Climate Change: Engaging the Community", *SSHRC Public Outreach Grant.* \$88,000. (2011)

Co-Investigator (CI), "Connecting the Four Solitudes: the impact and implications of climate change for invasive species, biodiversity and society". *Canadian Foundation for Climate and Atmospheric Sciences Knowledge Synthesis Programme*. (D.R. Bazely, PI). (\$92,000 CDN) (2010)

#### **B)** Publications:

What do we know? What do we need to know? The state of research on Canadian work, employment and climate change. Carla Lipsig-Mummé, Lead Author. Toronto: Work in a Warming World @York University. 289 p. www.workinawarmingworld.yorku.ca. (2011)

# **C)** Keynotes and Invited Papers:

"Work in a Warming World: A green turn for the Canadian economy", Human Resources and Skills Development Canada, *Knowledge Talks Senior Seminar Series* June 9, 2011.

"Travail, emploi et changements climatiques : rapports, paradoxes, dilemmes`, Conférence d`ouverture, *Colloque Innovations, travail, emploi*, Québec, le 27 mai 2011.

"What's work got to do with it? The greening jobs debate in Canada" Keynote to *Young Environment Professionals Canada* (Ottawa), April 14, 2011.

"The Implications of Climate Change for Work, Employment and Labour in Canada: what do we know? what do we need to know?": *The Challenge of Climate Change for Work and Labour.* The Association of Industrial Relations Academics of Australia and New Zealand Annual Conference, Auckland, N.Z., February 2-4, 2011.



"Green/ing Jobs? Politics, Policy and the Dilemma of Definition", Invited <u>Panel Paper</u>, *Public Panel on Green/ing Jobs*, Toronto, January 20, 2011.

"Climate Change and the World of Work: Adaptation, Response, Engagement' <u>Keynote</u>, *Université d'Ottawa Human Rights and Environmental Disruptions Lecture Series*. Video-Conference, October 19, 2010.

# **D)** Conference Papers:

"Responding to Climate Change: Work in a warming world and Canadian action- research". *ACSANZ Annual Conference* (Association for Canadian Studies, Australia and New Zealand), Armidale, New South Wales, July 4-7, 2010.

# **E)** Academic Papers for Professional Organizations:

"Les origines du `Work in a Warming World`, et le mouvement syndical", Conférencière, le Comité Environnement de la Confédération des syndicats nationaux, Montréal, le 1 mars 2011.

"Can adapting the workplace mitigate greenhouse gas emissions significantly?" <u>Invited Speaker</u> to the *National Executive Council, Canadian Union of Postalworkers*, September 2010.

#### F) Media:

"Back-to-work legislation provides lower increases than Canada Post", Interview *Waterloo Record*, June 21.

"Tory Bill legislates union pay rates", Interview in *Toronto Star* with Vanessa Lu, June 21.

"Federal intervention provoked Air Canada employee dissatisfaction" Interview in *Ming Pao*, June 20.

"Conservative government out to undercut unions, critics say", Interview with Linda Diebel, *Toronto Star*, June 18.

"Progressiva erosione dei diritti dei lavoratori, tendenza che può aumentare con i conservatori", Interview concerning back to work legislation with Alessio Galletti, June 16.

## **RICHARD SAUNDERS**

"Zimbabwe: Liberation Nationalism – old and born-again", *Review of African Political Economy*, Vol. 38 No.1 (March 2011) 117-128



"Geologies of Power: Blood Diamonds, Security Politics and Zimbabwe's Troubled Transition", in M. Clarke and C. Bassett, eds., *Legacies of Liberation: postcolonial struggles for a democratic Southern Africa* (forthcoming 2011)

"Geographies of Fractured Power: Blood Diamonds, Security Politics and Zimbabwe's Troubled Transition", paper presented on the panel "Security and Terrorism", African Studies Association 53<sup>rd</sup> Annual Meeting, San Francisco (November 2010)

"Resources: Cursed or Blessed Political Economies?", presented at the conference, "Progress" in Zimbabwe', Bulawayo, Zimbabwe (November 2010)

"The Modern Face of Conflict Diamonds: Lessons from Zimbabwe", paper presented (September 30) at the Pathfinder 2010 Conference, "Illegal Trade in Natural Resources: What can Brussels Do?", Institute for Environmental Security, Brussels, Belgium (September 2010)

**IRENE HENRIQUES** 

#### A) Book Chapters:

Henriques, I. (2011) "How can sustainable environmental stewardship enhance global competitiveness?", in Subhash Jain and Ben Kedia (editors), *Enhancing Global Competitiveness Through Sustainable Environmental Stewardship*, Edward Elgar Publishing, Northhampton, MA.

Henriques, I. and P. Sadorsky (2010), "Voluntary Environmental Programs: A Canadian Perspective", in Peter deLeon and Jorge Rivera (Eds.), *Voluntary Environmental Programs: A Policy Perspective*, Lexington Books/Rowman & Littlefield: New York. pp. 265-290.

# **B)** Journal Articles:

L.A. Perez-Batres, V.V. Miller, M.J. Pisani, I. Henriques and J.A. Renau-Sepulveda (2011) Why do firms engage in national sustainability programs and transparent reporting? Evidence from Mexico's Clean Industry Program. *Management International Review*, forthcoming.

N. Hewitt, N. Klenk, A.L. Smith, D.R. Bazely, N. Yan, S. Wood, J.I. MacLellan, C. Lipsig-Mumme and I. Henriques (2011) Taking stock of the assisted migration debate. *Biological Conservation*, forthcoming.

Henriques, I, and P. Sadorsky (2011) The effect of oil price volatility on strategic investment, *Energy Economics*, 33(1): 79-87.



I. Henriques and P. Sadorsky (2010) Can environmental sustainability be used to manage energy price risk? *Energy Economics*, 32(5), 1131-1138.

N. Darnall, I. Henriques and P. Sadorsky (2010) Adopting Proactive Environmental Strategy: The Influence of Stakeholders and Firm Size, *Journal of Management Studies*, 47 (6), 1072-1094.

**JACQUELINE MEDALYE** 

# A) Journal Articles (referred):

Etkin, D., Medalye, J., and Higuchi, K. (2011). 'Climate Warming and Natural Disasters an Exploration of the Issues', Climatic Change (Accepted, Forthcoming)

#### **B)** Articles (non-referred):

Medalye, J. (2011). 'Brave New UNFCCC: Spatial fixes, Environmental Utopia, and the New Governmentality of International Climate Politics', Canadian Dimension, Web Exclusive, February 9, 2011

#### C) Book Chapters:

McMurtry, J.J, Medalye, J., and Reed, D. (2011). 'Sustainable, Ethical Trade, and Fair Trade Purchasing Policies: The Case of Canadian Universities', Chapter 10, in Mook, L. (ed) Social Accounting for Social Economy Organizations, University of Toronto Press: Toronto (In Press)

#### **D)** Presentations:

'Geomapping the Canadian Arctic: The Role and Implications of Non-Arctic Actors in Northern Development', at the International Center for Northern Governance and Development Fellowship Symposium, University of Saskatchewan, March 17, 2011

'Arctic Meltdown: The Apocalyptic Logic of Canada's Northern Strategy', presented with Ryan Foster at Klimaforum10, Cancun, December 8, 2010

#### E) Panels:

'Canada, Global Warming, and the Political Economy of Fossil Fuel Dependence', Panelist, Political Studies Department, Trent University, March 22, 2011



'Cancún Climate Talks: Deceiving people but not the environment', Panelist, Panel on the International Climate Negotiations, Science for Peace, University of Toronto, February 16, 2011

'Conference of the Parties 16: York Delegation Debrief', Panelist, York University, January 17, 2011

'Roundtable Discussion on Climate Change: Moral, Political and Legal Dilemmas with Dr. James Hansen- Director of the NASA Goddard Institute for Space Studies', Discussant, University of Toronto, September 16, 2010

# F) Awards:

Graduate Student Fellowship, International Centre for Northern Governance and Development, 2011. \$5,000

Doctoral Research Award, International Development Research Centre (IDRC), 2010. \$20,000

#### **KEVIN MCKAGUE**

#### A) Journal Article:

McKague, K. (2011). Dynamic Capabilities of Institutional Entrepreneurship. Journal of Enterprising Communities, Vol. 5, No. 1.

## **JOSE ETCHEVERRY**

# A) Journal Article:

Etcheverry, Jose. (2011), New Climate Protection, Energy Security, and Employment Creation Strategies for Latin and North America Based on Renewable Energy Collaboration. Latin American Policy, 2: 43–57. doi: 10.1111/j.2041-7373.2010.00031.x

#### **MARKUS BIEHL**

# A) Journal Articles:

Salazar, José, Bryan Husted, Markus Biehl, "Thoughts on the Evaluation of Corporate Social Performance through Projects," to appear in the *Journal of Business Ethics*.



# **B)** Conferences:

Kaminer, Olga, Markus Biehl, Ashwin Joshi, Murat Kristal, "Effects of Buyer Actions and Supplier Asset Specificity on Supplier Investment in Environmental Technologies," Annual Conference of the POM Society, Reno 2011

#### **SHEILA EMBLETON**

# A) Elected:

Fellow of the royal society of Canada, September 2010.

# B) Awards:

Award for Outstanding Contribution to Internationalization, York University, 2011.

SWAAC (Senior women Academic Administrators of Canada) 2001 Recognition Award, "given to a SWAAC member who has continually demonstrated innovative leadership in advancing the mission of, and achieving outstanding contributions to, their institution"

# C) Book Chapters:

(with Dorin Uritescu and Eric Wheeler) "Effective Comparisons of Geographic and Linguistic Distances", in *XXX* (Fs. NNN), ed. Gabriel Altmann, Peter Grzybek, Sven Naumann et al. 2011. (in press)

(with Dorin Uritescu and Eric Wheeler) "Lessons from Digitizing a Linguistic Atlas", in *Distorsionări în comunicarea lingvistică, literară și etnofolclorică românească și contextul european (Linguistic, Literary and Ethnolinguistic Communication in the New European Context)*, Luminita Botoșineanu, Elena Dănilă, Cecilia Holban and Ofelia Ichim (eds.), Iași, Editura Alfa, 2009. pp. 137-145 (<a href="http://www.academiaromana-is.ro/philippide/pages/distorsionari\_2008.html">http://www.academiaromana-is.ro/philippide/pages/distorsionari\_2008.html</a>)

#### D) Journal Articles:

"Developing Higher Education Internationalization Policies: Options for the university community", in *The Race to Globalize Higher Education in Canada*, Mark Rosenbaum (ed.), 2011 (in press).



# **E) Published Conference Proceedings:**

(with Dorin Uritescu and Eric Wheeler) "Identifying Dialect Regions: Specific features vs. overall measures using the Romanian Online Dialect Atlas and Multidimensional Scaling", in *Papers from the Methods in Dialectology XIII Conference, Leeds, 2008*, Barry Heselwood and Clive Upton (eds.), Frankfurt, Peter Lang, 2010, 79-90.

# F) Book Reviews:

Alok Mukherjee, "This Gift of English", Word (to appear).

Sebastian M. Rasinger, 'Quantitative Research in Linguistics. An Introduction', Word (to appear).

Silvia Luraghi and Vit Bubenik (eds.), 'Continuum Companion to Historical Linguistics', *Diachronica* (to appear).

Elisabeth Waugaman, 'Women, Their Names, and the Stories They Tell (Where We've Been, Where We Are, Where We Are Going)', *Onomastica Canadiana* (to appear).

# **G)** Newspaper Article:

Need to Act Now", *India Abroad* Supplement on Education, July 2010.

# **H) Conference Presentations:**

(with Dorin Uritescu and Eric Wheeler) "Continuum et fragmentation géolinguistiques d'après l'Atlas linguistique de la Crişana en ligne. XXVI<sup>e</sup> Congrès International de Linguistique et Philologie Romanes, Valencia, September 2010.

(with Husain Neemuchwala) "India in Focus (CIEC)", "Being Global 2011: Strategies and Models for Internationalizing Canadian Higher Education", Higher Education Strategy Associates Conference, Toronto, January 14, 2011.

"Reflections and Perspective from a Developed Country (Canada)" [commentary on lecture by K. M. Cherian], Fortis Escorts Hospital, Jaipur, India, February 11, 2011.

(with Husain Neemuchwala) "Observations on the Internationalization of Canadian Campuses", Academic Summit 2011, Mississauga, April 14, 2011.



"Opportunities and Challenges for Canada-India Educational Exchanges", Seventh Annual Asian Heritage Month Education Roundtable, Ontario Institute for Studies in Education, University of Toronto, May 10, 2011.

(with Husain Neemuchwala) "Focus on India: Strategies for Success", OAIE Conference [Ontario Association of International Educators] / CBIE [Canadian Bureau for International Education] Regional Meeting, Waterloo, Ontario, Canada, May 11, 2011.

# **I) Panel Presentations:**

"Canadian Universities Operating in India", Synergy 2010 Canada-India Education Conference, Brampton, September 23, 2010.

Closing session "Developing Higher Education Internationalization Policies: Options for the university community", "The Race to Globalize Higher Education in Canada", OCUFA Annual Conference, Toronto, January 21-22, 2011.

"Profiling Successes in Research and Innovation Collaboration", AUCC Workshop on "Advancing Excellence in Strategic Engagement with Brazil", Ottawa, June 14, 2011.

#### J) Panel Member:

"Internationalization of Graduate Education, Partnership Forum / L'internationalisation des etudes supérieures, tribune sur le partenariat", Canadian Association for Graduate Studies (CAGS), Toronto, November 6, 2010, 10:45-12:00.

"Education", Corporate Social Responsibility Thought Leadership Conclave, Wockhardt Foundation, Mumbai, February 19, 2011.

#### **K) Workshop Presentations:**

"Leadership and the Role of the Dean – Strategies for Effective Leadership", FBS (Faculty Bargaining Services) Ontario Contract Administration Workshop, CAUBO (Canadian Association of University Business Officers) meeting, University of Guelph, November 12, 2010, 9:30-10:30.

"Internationalization Trends at Canadian Universities and University Colleges", University Internationalization Seminar, Embassy of Canada, Oslo, Norway, November 18, 2010.

Emergency Preparedness at Canadian Universities", University Internationalization Seminar, Embassy of Canada, Oslo, Norway, November 18, 2010.



"Emerging Issues in Internationalization", Presentation at "Internationalization: Myth or Reality?", Global Associates International Symposium, Annual UPCEA [University Professional and Continuing Education Association] Conference, Toronto, April 6, 2011.

# **L) Colloquium Presentations:**

(with Dorin Uritescu and Eric Wheeler) "The Romanian Dialect Atlas Project", Glendon Linguistics Club, York University, March 2, 1011.

(with Dorin Uritescu and Eric Wheeler) "Continuum et fragmentation géolinguistiques au niveau microdialectal d'après l'analyse par graduation multidimensionnelle des données dialectales / Geolinguistic Fragmentation and Continuity at the Micro-dialectal Level, from the Multidimensional Scaling of Dialect Data". Centre for Research on Language Contact, Glendon College, York University, March 10, 2011.

"Life is a Random Walk", Symposium with presentations from new members of the Royal Society of Canada, Fields Institute for Mathematical Research, University of Toronto, April 11, 2011.

#### M) Public Adress:

"The Global and the Local – at the Intersection of Climate Change, Sustainability, and Organic Agriculture", Morarka Foundation, Shekhawati Festival, Nawalgarh, India, February 11, 2011.

#### **STEPAN WOOD**

"Sphere of Influence' in ISO 26000," in Adrian Henriques, ed., *Understanding ISO 26000: A Practical Approach to Social Responsibility* (London: British Standards Institution, forthcoming 2011)

"Four Varieties of Social Responsibility: Making Sense of the "Sphere of Influence" and "Leverage" Debate Via the Case of ISO 26000" Osgoode/CLPE Research Paper No. 14/2011, <a href="http://ssrn.com/abstract=1777505">http://ssrn.com/abstract=1777505</a> (Top Ten download in the following SSRN eJournals and topics, March-May 2011: Corporate Social Responsibility/Corporate Citizenship; Human Rights & the Global Economy eJournal; International Human Rights; POL Subject Matter eJournal; Social Responsibility & Public Policy; Social Responsibility, Sustainability & Environmental Policy; Social Responsibility Practices; and Strategy & Social Policies)



"Taking Stock of the Assisted Migration Debate," *Biological Conservation* (forthcoming, 2011) (with N. Hewitt, N. Klenk, A.L. Smith, D.R. Bazely, N. Yan, J.I. MacLellan and C. Lipsig-Mumme)

"The Case for Leverage-Based Social Responsibility: ISO 26000, the Guiding Principles on Business and Human Rights, and the 'Sphere of Influence' Debate," *Business Ethics Quarterly* (under consideration)

"The International Organization for Standardization," in Ananya Reed, Darryl Reed and Peter Utting, eds., *Business, Non-State Regulation and Development* (Routledge, forthcoming 2011).

"What Ever Happened to Canadian Environmental Law?" *Ecology Law Quarterly* 37(4): 981-1040 (2010) CLPE Research Paper No. 12/2010, online: Social Sciences Research Network, <a href="http://ssrn.com/abstract=1595097">http://ssrn.com/abstract=1595097</a>, (Top Ten download in the following SSRN eJournals, May-June, 2010: Environmental & Natural Resources Law, Environmental Economics, Environmental Law & Policy, and International Environmental Law) (with Georgia Tanner and Benjamin J. Richardson).

#### **MARK WINFIELD**

#### A) Journal Articles:

Mark S. Winfield, Role of Parliamentary Committees in Canadian Environmental Policy Formulation and Evaluation: The Case of the Standing Committee on Environment and Sustainable Development 1994-2004, Journal of Environmental Law & Practice, Volume 22, Number 1, October 2010, 59.

Mark Winfield, Robert B. Gibson, Tanya Markvart, Kyrke Gaudreau, Jennifer Taylor, Implications of sustainability assessment for electricity system design: The case of the Ontario Power Authority's integrated power system plan, Energy Policy, Volume 38, Issue 8, August 2010, Pages 4115-4126, ISSN 0301-4215, DOI: 10.1016/j.enpol.2010.03.038. (http://www.sciencedirect.com/science/article/pii/S0301421510002016)

#### **WES CRAGG**

International Favour Exchange and the Relationship Between Doing Well and Doing Good", Journal of Business Ethics, forthcoming.

"Ethics, Enlightened Self Interest and the Corporate Responsibility to Respect Human Rights: A critical look at the justificatory foundations of the proposed UN Human Rights Framework,



Business Ethics Quarterly, forthcoming.

"The State and Future Directions of Business Ethics Research and Practice", Business Ethics Quarterly, (October 2010) Vol. 20, No. 4.

"The Challenges and Opportunities of Implementing Integrity Pacts as a Strategy for Combating Corruption in Nigeria's Oil Rich Niger Delta Region", with Uwa Idemundia and Brownyn Best, Public Administration and Development, Accepted 18 August 2010

"Confronting Corruption Using Integrity Pacts: The Case of Nigeria" with Uwafiokun Idemudia and Bronwyn Best in Ron Burke, Ed Tomlinson, and Cary Cooper ed, <u>Crime and corruption in organizations: Why it happens and what to do about it</u>, London: Gower, 2011, pp 297-322.

"Sustainability, business ethics and human rights" in *Business Ethics and Corporate*Sustainability edited by Antonio Tencati and Francesco Perrini (London: Edward Elgar), 2011, pp. 149-163.

"Being Virtuous and Prosperous: SRI's Conflicting Goals", with co-author Benjamin J. Richardson, Journal of Business Ethics, forthcoming.

#### **DAVID ETKIN**

Etkin, D., Higuchi, K. and Medayle, J. (2011) "Climate Change and Natural Disasters: An Exploration of the Issues". *Climatic Change*. In Press

Haque, C.E. and Etkin. D. (Editors) (2011). Disaster Risk and Vulnerability: Mitigation Through Mobilizing Communities and Partnerships. McGill-Queens University Press. (In Press)

Etkin, D. and Malkin-Dubbins, L. (2010) *Disasters and the In-Between City*. In, "In-Between Infrastructure: Urban Connectivity in an Age of Vulnerability", Roger Keil, Patricia Wood, Douglas Young (eds.) Kelowna, BC: Praxis(e) Press. (in press)

Etkin, D. and MacGregor, S. (2010) *Disaster Data: A Global View of Loss of Life and Damage*. In "Treatise on Geomorphology, Hazards/Applied/ Anthropogenic/Cultural Geomorphology", Elsevier Press (in press)

Etkin, D. and Murphy, B. (Editors) (June 2011): Textbook on "*Disaster & Emergency Management: The Canadian Context*". A Canadian Risk and Hazards Network Project (<a href="www.crhnet.ca">www.crhnet.ca</a>).



Etkin, D., Higuchi, K. and Platsis, G. (2011). Thunderstorms and Tornadoes: Science, Impacts, and Coping Strategies. Rutledge Handbook of Hazard and Disaster Reduction. In Press

Haque, C.E. and Etkin, D. (2011). Dealing with Natural Disaster Risk and Vulnerability: People, Community and Resilience Perspectives. In, Haque, C.E. and Etkin. D. (Editors). Disaster Risk and Vulnerability: Mitigation Through Mobilizing Communities and Partnerships. McGill-Queens University Press.

Etkin, D. (January 2011). Disaster Models. Encyclopaedia of Natural Hazards. Springer, (In Press)

Etkin, D., McBey, K, and Trollope, C. (2011). *The role of the military in emergency management in Canada*. In, Textbook on "*Disaster & Emergency Management: The Canadian Context*". A Canadian Risk and Hazards Network Project (<u>www.crhnet.ca</u>).

#### **ELLIE PERKINS**

# A) Articles in Referred Journals:

"Public participation in watershed management: international practices for inclusiveness." <u>Physics and Chemistry of the Earth</u>; article accepted February 27, 2010. http://dx.doi.org/10.1016/j.pcc.2010.02.004

# **B)** Papers in Refereed Conference Proceedings:

"Equitable, Ecological Degrowth: Feminist Contributions" In Barcelona 2010 Degrowth conference proceedings, <a href="https://www.degrowth.eu">www.degrowth.eu</a>.

# C) Papers Presented at Conferences:

"International Synergies to address climate change: Participatory community organizing in Canada and Brazil" by Patricia E. Perkins and Ana Tavares Leary; presented by Ana Tavares Leary at the Global Studies Conference, Rio de Janeiro, Brazil, July 18-20. (2011)

"Gender justice and climate justice: Community-based strategies to increase women's political agency in watershed management in times of climate change" by Patricia Figueiredo and Patricia E. Perkins; presented by Patricia Figureido at the Ninth International Conference of the International Development Ethics Association (IDEA) in Gender Justice and Development: Local and Global, Bryn Mawr College, Bryn Mawr, Pennsylvania, June 9-11. (2011)



"Collaborações academico-ativistas: technologias socias para enfrentar as mudanças climáticas." Invited presentation (in Portuguese), Round table on Social Technology, Second International Conference on Climate, Sustainability and Development in Semi-Arid Regions (ICID 2010), August 16-20, Fortaleza, Brazil.

"Degrowth and feminist economics." 2010 Summer Conference of the International Association for Feminist Economics (IAFFE), University of Buenos Aires, Argentina, July 22-24.

# **D)** Conference Activities:

Organizer and facilitator, research conference/workshop for Climate Change Adaptation in Africa project participants on "Community-based water management and environmental education in times of climate change," Sāo Paulo and Rio de Janeiro, Brazil, August 22-29. (2010)

Invited panel speaker, "Leadership for Sustainable Communities: Focus on Climate Change" conference, co-sponsored by the York Institute for Research and Innovation in Sustainability and the UNESCO Chair in Education for Sustainability, July 15, York University. (2010)

Invited workshop participant, "Slower by Design, Not Disaster: Managing Without Growth," May 6-7, York University. (2010)

Invited keynote speaker, Friends World Committee for Consultation, Northeast Regional Gathering/Atlantic Friends Gathering, Universit of New Brunswick, Fredericton, May 21-24: "Working together towards morality: Diversity and economic perspectives." (2010)

Invited plenary panel participant, 2<sup>nd</sup> International Conference on Socially Sustainable Degrowth, Universidad Autonoma de Barcelona, Spain, March 26-29: "Climate change, the economic crisis, and the possibility of prosperity without growth." (2010)

# E) Addresses, Panels and Talks:

Panel moderator, "Racism in Environmentalism" seminar, Faculty of Environmental Studies, York University, January 25. (2011)

"Post-COP15 Debrief" presentation during York University's Earth Hour celebrations, March 24 (2010)



# F) Media Presentations:

Interviewed on Feminist Ecological Economics and Degrowth by writers for <u>The Broker</u> (Amsterdam); <u>Directa</u> (Barcelona); and several other publications and broadcasters, at the Barcelona Degrowth conference, March 26-29. See <u>Directa</u>, no. 195, September 8, 2010, p. 17 (<u>www.seminaridirecta.info</u>);

**KAZ HIGUCHI** 

# A) Book Chapter:

Etkin, D., **K. Higuchi**, and G. Platsis, 2011: Thunderstorms and Tornadoes. IN: *Routledge Handbook of Hazards and Disaster Risk Reduction* (edited by B. Wisner, J.C. Gaillard, and I. Kelman), Routledge Publisher.

# **B)** Refereed Journal Paper:

Jing, X., Jianping Huang, G. Wang, **K. Higuchi**, J. Bi, Y. Sun, H. Yu, and T. Wang, 2010: The effects of clouds and aerosols on net ecosystem CO<sub>2</sub> exchange over semi-arid Loess Plateau of Northwest China. *Atmospheric Chemistry and Physics*, <u>10</u>, 8205-8218.

# **C)** Seminar Presentation:

Extreme Wind Simulations Using GEM-LAM2.5 Mesoscale Model. Presented at Department of Physics and Atmospheric Science, Dalhousie University, May 2011.

# D) Paper Presented at Conference:

Glen Lesins and Kaz Higuchi: *Agent Based Modelling of Caribou Environmental Interactions in the Canadian Arctic*. International Congress on Environmental Modelling and Software, July 2010.

STUART SCHOENFELD

#### A) Book Chapter:

"Environment and Human Security in the Eastern Mediterranean: Regional Environmentalism in the Reframing of Palestinian-Israeli-Jordanian Relations" in P. H. Liotta, David Mouat, Judith Lancaster, Bill Kepner and David Smith, eds. Achieving Environmental Security: Ecosystem



Services and Human Welfare. Amsterdam: IOS Press. (2010)

# B) Articles:

"Environmental Peacebuilding in the Eastern Mediterranean," Middle East Viewpoints. The Environment and the Middle East: New approaches and new actors, volume II: 18-22. April. Washington: Middle East Institute. (2011)

"Environmental Peacebuilding Strategies in the Middle East: The Case of the Arava Institute for Environmental Studies," Peace and Conflict Review 5(1) (with Asaf Zohar and Ilan Alleson). (2010)

# **C) Invited Presentation:**

"Towards Collaborative Solutions in a Shared Ecology: Middle East Initiative." International Week, University of Alberta, Edmonton, February (with Asaf Zohar). (2010)

#### **D)** Conference Papers:

"Contrasting Regional Environmentalisms in the Eastern Mediterranean," Presented at the International Geographic Union Regional Meeting, Tel Aviv, with Jonathan Rubin. (2010)

"One state conferences: global mobilization and Palestinian / Israeli geopolitics," Israel-UK Joint Workshop on Political Geography, Ben Gurion University, Be'er Sheva, (2010)

"A University Program as a Bridge to Social Movements: A Regional Environmental Institute in the Middle East." Canadian Sociology Association, Montreal, Concordia University. (2010)

"Alternative Framings of Contentious University Events: a Recent York University Experience," Presented at the Canadian Society for the Study of Higher Education Montreal, Concordia University. (2010)



# 8. STATEMENT OF OPERATIONS

IRIS Statement of Operations	2010-2011	2009-2010
Total Revenue	754,388	282,701
Internal Funding	36,671	16,901
Government Funding	717,717	249,275
Corporate/NGO Funding	-	6,525
Contracts	-	10,000
Total Expenses	589,730	185,635
Research Expenses	589,730	183,735
Supported Events at York	-	1,900
Surplus for the current year	164,658	97,066
Carryforward from 2009-2010	298,700	201,634
Carryforward for 2011-2012	463,359	298,700

