

**IRIS ANNUAL REPORT
2011 - 2012**

IRIS - the Institute for Research and Innovation in Sustainability

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Faculty Representation

Faculty of Education
Faculty of Environmental Studies
Faculty of Fine Arts
Faculty of Liberal Arts & Professional Studies
Faculty of Science & Engineering
Glendon College
Osgoode Hall Law School
Schulich School of Business

Charter Dates

First Charter: late 2004
Last Renewal: October 2008

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.

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Director's Message

Can it have been a year already? IRIS is such an active community that we routinely find ourselves asking this question when the year-end reporting deadline rolls around. This year the answer is literally "No!" This report covers the ten months from July 1, 2011 to April 30, 2012, as we switch to a new reporting cycle mandated by York University.

In this accelerated year, we have if anything accelerated our pace of interdisciplinary research and action oriented toward advancing sustainability. My proudest moments this year came in connection with the "Four Solitudes" project, which examines the links between climate change and invasive species. First, an article in Biological Conservation on assisted migration of species threatened by climate change (lead author Dr. Nina Hewitt) became the journal's most-downloaded article of late 2011. Then, an article in Environmental Reviews on invasive species' predicted range changes under climate change (lead author Dr. Andrea Smith) attracted nationwide media attention. Produced by a highly diverse team of scholars, these articles represent IRIS's collaborative, interdisciplinary, policy-relevant research at its best.

We also celebrated when Prof. Steve Alsop and a team of co-applicants from across Canada secured a Social Sciences and Humanities Research Council of Canada Partnership Grant to create the Sustainability and Education Policy Network. IRIS will host the York University component of this important nationwide network. Other research projects hosted by or affiliated with IRIS were also highly productive. Professor Ellie Perkins' Climate Justice and Water Management project continued its transformative work on climate justice in Africa and beyond. The IRIS-affiliated Work in a Warming World project continued its ground-breaking research on the complex relationship between climate change and labour. Senior Fellow Jim MacLellan continued his work on tools for modelling the impacts of climate change on watersheds. My own Transnational Business Governance Interactions project, which looks (among other things) at non-state social and environmental certification schemes, got properly underway. IRIS also held its first Research Showcase and continued (with generous support from the VPRI's office) our recent tradition of sending a delegation to the United Nations Conference of the Parties on climate change.

We were also very busy with campus sustainability activities here at York. Continuing our highly regarded annual surveys on campus sustainability, we forged a new relationship with Access York to help conduct a survey on campus accessibility. We inaugurated a new Focus on Sustainability Film Festival in partnership with Planet in Focus and the Osgoode Environmental Law Society; held more IRIS Speaker Series events than ever before; helped launch the Glendon Campus Project website; provided more paid student positions than ever before; and started a sustainable furniture design project with the Jane-Finch Centre for Green Change. We continued to work closely with the President's Sustainability Council, Campus Services and Business Operations, and dynamic student groups like Regeneration@York and Net Impact while forging links to new campus sustainability stakeholders such as the Sustainability Coordinators, the Green Campus Co-op and the Sustainable Energy Initiative. We also participated actively in a complete overhaul of the university's Policy on Organized Research Units.

It has been an honour to work closely with such a dedicated, energetic group of colleagues, students, staff and others this year as Acting Director while IRIS Director, Professor Dawn Bazely, has taken a well-deserved (if not restful, if we know anything about her habits) sabbatical leave.

Membership & Governance

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 Core Faculty category corresponds to the "Active Members" category in the VPRI Annual Report template. The following are the Core Faculty for 2011-2012:

Faculty of Fine Arts

Arlene Gould* (WGBC Summer School Course Director)

Faculty of Liberal Arts & Professional Studies

Carla Lipsig-Mummé* (W3)
David Doorey (TBGI, W3)
David Szablowski (TBGI)
Gabrielle Slowey (GAPS Project)
Nina Hewitt (4 Solitudes)
Sheila Embleton* (former VP Academic; Climate Justice)
Steve Tufts (W3)

Faculty of Education

Steve Alsop* (IRIS Speaker's Series Committee, SEPN)
Donald Dippo (SEPN)

Faculty of Environmental Studies

Anders Sandberg (SEPN)
Ellie Perkins* (Climate Justice; Campus Sustainability; Climate Change Adaptation in Africa (CCAA))
Jose Etcheverry*
Justin Podur*
Kaz Higuchi* (Climate Justice; Campus Sustainability)
Leesa Fawcett (SEPN)
Mark Winfield*
Timothy Leduc (SEPN)

Faculty of Science & Engineering

Dawn Bazely* (IRIS Director; W3; 4 Solitudes; GAPS; Climate Justice; Campus Sustainability; IRIS Speaker's Series Committee; President's Sustainability Council)
Norman Yan (4 Solitudes)

Glendon

Colin Coates*
Stuart Schoenfeld*

Schulich School of Business

Alan Richardson (TBGI)
Andrew Crane (TBGI)
Burkard Eberlein (TBGI)
Dirk Matten (TBGI)
Irene Henriques* (W3; 4 Solitudes; President's Sustainability Council)
Wesley Cragg (TBGI)

Osgoode Hall

Peer Zumbansen (TBGI)
Stepan Wood* (Acting Director; W3; 4 Solitudes; IRIS Steering Committee, PDG: Transnational Business Governance Interactions (TBGI))

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 2011-2012 senior fellows:

Learning for a Sustainable Future (Community Partner in the SEPN)

David Bell, * Chair
Pam Schwartzberg, * Executive Director (W3)

York University

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*

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 Faculty

Markus Biehl
Martin Bunch
Janet Fishlock
Bill Found
Charles Hopkins
Pablo Idahosa
Lucia Lo
Jocelyn Martel
Ian Martin
Ikechi Maduka Mgbeoji
John Miller
David Morley
Ananya Mukherjee-Reed
Rebecca Peterson
Barbara Rahder
Robin Roth
Perry Sadorsky
Catriona Sandilands
Richard Saunders
Joe Sheridan
Adrian Shubert
Vincent Tao
Peter Victor
Patricia Wood

York International

Carol Irving (WGBC Summer School)
Larissa Strong (WGBC Summer School)

Other

Eric Abitbol
Oana Branzei
Ed Hanna
Tatiana Koveshnikova
Melissa Leithwood
Susan McGeachie
Benjamin Richardson
Darin Rovere
Bryan Smith

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 2011-2012 Junior Fellows include:

Graduate Assistants

Bahareh Toghiani Rizi – MES student, Environmental Studies (Research)
Elizabeth Lorimer (CCAA)
Alex Todd (CCAA)
Chun Nam Law – Master's, Environmental Studies (Events)
Mojan Jinafar – Master's Environmental Studies (Student Engagement Coordinator)
Danielle Tucker – Master's, Critical Disabilities Studies (Survey)
Jessica Reeve – Master's, Environmental Studies (Events Coordinator)
Prabin Sharma – Master's, Environmental Studies (Survey)

Research Assistants

David Staples – MSc student, Science and Engineering (4 Solitudes, GAPS)
Julia Christensen – PhD Student, McGill University (GAPS)
Nora Saona – PhD student, Science and Engineering (GAPS). Completed Nov 2011.
Paul Marmer – MSc student, Science and Engineering (GAPS)

Research at York (RAY) Students (Undergraduate Students)

Netta Unterschats – Undergraduate student, Biology (Digital Archiving)
Sanaz Hojati – Undergraduate student, Biology (Digital Archiving)

Work Study Students

Hao Yang – Undergraduate student, Schulich (Events Coordinator)

Khushpal Brar – Undergraduate student, Science and Engineering (Events Coordinator)

Abeeha Batool – Undergraduate student, Schulich (Graphic Designer and Communications Officer)

Magdalena Baboula – Undergraduate student, Environmental Studies (Website Coordinator)

Enrique Miranda – Undergraduate student, Political Science (Engagement Officer)

Salman Islam – Undergraduate student, Environmental Studies (Social Marketing and Communications Coordinator)

Interns: York-Sheridan Program in Design

Dylan Belyk-Seymour

Victoria Henderson

Heather Wimmi

Kendra Boyles

Volunteers

IRIS Executive

Jacqueline Medalye* – PhD student, Liberal Arts & Professional Studies (Climate Justice, Climate Change Blog)

Arun Vallappan* – MBA student, Schulich (Net Impact)

Campus Sustainability (including Earth Hour, and the Campus Sustainability Surveys)

Kenny Mariasin

Leandra Aguiar

Jennifer Spalton

Lubna Abdool-Rahman

Colvin Chan

Climate Justice

Ewa Modlinska – Graduate student, Liberal Arts & Professional Studies

Alex Todd – Graduate student, Geography

In addition, IRIS acknowledges the volunteer work of all other student volunteers, including those who assisted with Earth Hour activities and tabling for the Campus Sustainability surveys.

Other Junior Fellows

Kevin McKague – PhD Student (Former Executive Member)

Andrew Watson – PhD Student (Former Executive Member)

Andrew Tanentzap

Nadine Gudz

STAFF

Administrative staff 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. Stepan Wood, Acting Director from July 1, 2011- June 30, 2012.

Coordinator*: Annette Dubreuil (May 2009-present as Coordinator; working with IRIS since October 2007).

Webmasters: Rajiv Rawat (2007-present as Webmaster; working with IRIS since 2006), Matthew Carroll (February 2011- October 2011.)

W3 project Coordinator: Ann Kim (interim coordinator and RAY student April 2011-September 2011). Kausar Ashraf (October 2011 to February 2012). Ann Kim interim coordinator and RAY student (February 2012 to present).

W3 project Information Scientist: Liz Perry (2009-present)

CCAA Project Coordinator: Patricia Figueiredo (June 2010-present)

IRIS Executive 2011-2012

IRIS STEERING COMMITTEE

Stepan Wood
Jose Etcheverry
Nicole Arsenault
Annette Dubreuil
Junior Fellow - vacant

ORU REORGANIZATION STRATEGY WORKING GROUP

The IRIS Executive disbanded this working group, at its meeting held April 12th 2012.

Stepan Wood
Dawn Bazely
Sheila Embleton
Carla Lipsig-Mummé
Pamela Schwartzberg

SPEAKER SERIES COMMITTEE

Pamela Schwartzberg
Annette Dubreuil
Chun Nam Law

POLICY COMMITTEE

Stepan Wood
William Denton
Rachel Hirsch

During 2011-2012, the IRIS Executive approved a Conflict Resolution Policy for IRIS and updated its Governance and Membership policy to reflect changes to its Steering Committee governance.

As of April 30, 2012, the IRIS Executive was made up of the following board members:

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 2011 - June 30 2013	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 Studies	Core Faculty	July 1 2010 - June 30 2012	2010
Etcheverry, Jose	Faculty, Faculty of Environmental Studies	Core Faculty	July 1 2011 - June 30 2013	2007
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

Henriques, Irene	Faculty, Schulich School of Business	Core Faculty	July 1 2011 - June 30 2013	2006
Higuchi, Kaz	Faculty of Environmental	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
Perkins, Ellie	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
Vallappan, Arun	MBA Student, Net Impact	Junior Fellow	July 1 2011 - June 30 2012	2004
Wood, Stepan	Faculty, Osgoode Hall	Core Faculty	July 1 2011 - June 30 2013	2004

The following Executive members finished their term during the 2011-2012 year:

Winfield, Mark	Faculty, Faculty of Environmental Studies	Core Faculty		2007-2011
Figueiredo, Patty	Coordinator, CCAA	Staff		2010-2012

Summary of Activities for 2011-12

“For additional details on the Activities of the Unit see Appendix 1 and Appendix 2.”

a. Submitted Funding Proposals

Project Name *assisted in Grant Preparation	IRIS Role	Principal Investigator	Affiliation	Amount Requested	Amount Awarded	Status	Funding Source and/or Type	Peer Reviewed
SEPN: Sustainability and Education Policy Network*	Sub-Grant Administrator	Steve Alsop (York portion)	Core Faculty, Education	\$1,956,384	\$1,964,996 (Subgrant TBD)	Successful	SSHRC Partnership Grant	Yes
Community-Designed Sustainable Furniture for the Centre for Green Change*	Grant Administrator	Stepan Wood	Director	\$3,900	\$3,650	Successful	Fulbright Canada Eco- Leadership Program Grant	No
Sustainable UpStarts*	Grant Administrator	Annette Dubreuil	Staff - coordinator	\$30,461	\$0	Denied	Academic Innovation Fund	Yes
Assessing the Impact of Peace and Conflict Impact Assessments (PCIA): A North-South Participatory Research Project*	Research Partner/Space	Eric Abitbol	Senior Fellow	\$59,791	?	Waiting	IDRC Small Grants	Yes
Coastal Zones of Bangladesh and Climate*	Grant Administrator	Rick Bello	Core Faculty, Geography	\$55,000	?	Waiting	IDRC Small Grants	Yes
Socio-Economic Considerations for Climate Change Adaptation in the Lake Simcoe Watershed*	Grant Administrator	James MacLellan	Senior Fellow	\$20,000	\$10,000	Successful	Ontario Ministry of Environment Contract	No
Creation of a Digital Archive for Wapusk National Park and Populated with Materials from La Perouse Bay*	Grant Administrator	Dawn Bazely	Director (sabbatical)	\$5,000	?	Waiting	Parks Canada, and the Churchill Northern Studies Centre	No
Towards a Sustainable Local Food Strategy for Ontario*	Grant Administrator	Stepan Wood/Peter Middleton	Director, IRIS CEO, Green Ed. Council	\$100,000	\$0	Denied	Metcalf Foundation	No



Conferences, work-
shops, exhibits or
other events hosted or
organized

Event Name	Type of Event	Dates	Location	Total Attendance	Non-York Attendees	Sponsors
What's Worth Knowing: Health and the Environment Symposium	Symposium	November 16, 2011	BMO Institute for Learning, Toronto	120	110	BMO Financial Group, TransCanada, Vale, HP, Suncor, York, OTIP, Chartwells, Manitoba Education, CCNM, Orion
Transcending Interdisciplinary Research Barriers: Best Practices for Mobilizing Knowledge	Symposium at the annual meeting of the American Association for the Advancement of Science	February 18, 2012	Vancouver, BC			
Climate Justice and Water Management in Durban, Maputo and Nairobi	Annual Meeting	August 2011	Durban, South Africa & Maputo, Mozambique			IDRC CCAA Project
Youth, Climate Change, & Jobs Institute	Workshop	February 4-5, 2012	York University, Toronto ON	13 high school students		SSHRC Dissemination Grant, W3
Saving The Planet And Creating Jobs Atlantic Forum	Forum	September 29-30, 2011	St. Thomas University, Fredericton, NB			W3 Grants
Greening Work in a Chilly Climate: Canadian Challenges & International Perspectives	International Panel	November 17, 2011	Bram & Bluma Appel Salon at the Toronto Reference Library, Toronto, ON			W3 Grants
Researchers Workshop: Greening Work in a Chilly Climate	Workshop	November 18-19, 2011	Toronto, ON			W3 Grants
Focus on Sustainability Film Festival: Water	Film Festival	March 19, 2011	Toronto, ON	25	2	IRIS, CCRAI, TRCA, Osgoode Environmental Law Society, CHR
Earth Hour	All day symposium	March 28, 2011	Toronto, ON	150	3	IRIS, CHR, McLaughlin College, Founders College, W3



Conferences, work-
shops, exhibits or
other events hosted or
organized (cont'd)

Event Name	Type of Event	Dates	Location	Total Attendance	Non-York Attendees	Sponsors
Inuit Film Festival	Film Festival/ IRIS Speaker Series	September 27, 2011	Toronto, ON with satellites in Arviat NU, Victoria, BC, and Sackville NB	30	20	IRIS
Climate Justice and Politics Workshop	Workshop/ IRIS Speaker Series	October 26, 2011	Toronto, ON	25	5	IRIS
Glendon Campus Project Website Launch	IRIS Speaker Series	October 27, 2011	Glendon Campus, Toronto	15	2	IRIS
Dr. Anne Russon: Orangutan Research and Rainforest Protection in Borneo	IRIS Speaker Series	November 10, 2011	Toronto, ON	50	5	IRIS
Peter Sale: Our Dying Plant	IRIS Speaker Series	November 22, 2011	Toronto, ON	25	3	IRIS
Environmental Cooperation and Israel-Palestinian Peace	IRIS Speaker Series	March 15, 2012	Toronto, ON	8	1	IRIS
IRIS Research Showcase	IRIS Speaker Series	March 8, 2012	Toronto, ON	25	0	IRIS
Mari Kira: Sustainable Work Organizations and Sustainable Work	IRIS Speaker Series	February 16, 2012	Toronto, ON	7	1	IRIS
Climate Justice Workshop. Miriam Duailibi, ECOAR	Workshop/ IRIS Speaker Series	February 13, 2012	Toronto, ON	35	2	IRIS, Faculty of Science
COP-17 Debrief	Lecture/ IRIS Speaker Series	January 12, 2012	Toronto, ON	20	3	IRIS

c. Knowledge mobilization/engagement/outreach/technology transfer activities and accomplishments:

- 1** We were cited in the national media numerous times (print, TV and radio) for our Environmental Reviews article “Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world”.
- 2** Continued to make use of the IRIS website, social media, York media relations resources (e.g. YFile) and other channels to showcase sustainability-related research projects by IRIS members and York faculty and students. This year we added blogs by IRIS member Professor Mark Winfield.
- 3** Continued to advocate for enhanced campus sustainability by sitting on the President’s Sustainability Council

- 4** Forged new partnerships associated with the events in section b:
 - a.** Focus on Sustainability Film Festival Partners: Osgoode Environmental Law Society, Climate Consortium for Research Action Integration (CC-RAI)
 - b.** 3rd Annual Earth Hour Partners: Centre for Human Rights, Regenesis @ York, BESSA – Bachelor of Environmental Studies Student Association, Red Zone, Glendon Roots and Shoots, the President’s Sustainability Council Student Sub-Committee.
 - c.** Collaborated with the Nanisiniqu Arviat History Project and members of the Khomani San to bring the voices of indigenous people to COP 17 in Durban, South Africa.

5 Continued to disseminate the findings from previous Campus Sustainability Surveys on Food and Waste. Worked with Food Services and Aramark to create Earth Hour specials (March 22-30), including a successful Local Lasagna Day on March 28th.

6 Working with Access York, conducted the 2011-2012 Campus Sustainability Survey on Accessibility.

7 Received funding from the RBC-Fulbright Canada Eco-Leadership Award (S. Wood) to co-host 1-2 public workshops in Fall, 2012, on sustainable furniture design and construction in partnership with the Jane-Finch Centre for Green Change initiative.

d. Facilitating faculty or student research through mentorship, development or support programs or services (eg in-house workshops, grant preparation support)

Grant Preparation – see section a
 Workshops – See Climate Change and Climate Justice Workshops in section b
 Mentorship – 6 GAs and 9 Work Study or RAY students
 Funded 2 graduate students to attend COP17 (thanks to VPRI funding)
 Financially supported four events organized by other groups at York
 In-kind organizational support via provision of space to Learning for a Sustainable Future (national charity) and Regenesis @ York (student club).

e. Contributions to teaching (e.g delivery or creation of certificate, diploma, graduate, or continuing education programs)

Conceived the UpStarts program. Have begun fundraising
 Continue to support the Green Building Course with Arlene Gould
 LSF continues to deliver the Sustainability and Education Academy with the Faculty of Education and the UNESCO Chair in Reorienting Teacher Education.
 Acting Director Stepan Wood developed and taught an advanced seminar on Global Corporate Social Responsibility Standards: Competition and Cooperation in Transnational Private Law-Making in the law faculty at Bar Ilan University (Nov.-Dec. 2011), as part of the TBGI project.

f. Other research leadership activities of the unit (identify the ORU member(s) who served as academic lead for the activity)

For other research activities affiliated with IRIS Faculty, see Appendix 2

Objectives for Upcoming Year

1 Funding proposals anticipated for submission by April 30, 2013 by active members of the ORU:

- a. Increase the total number and value (ie. total funds requested) of funding applications submitted through IRIS compared to the past year
- b. Submit at least one major (\$500,000 or more) funding application through IRIS. The Work in a Warming World programme may potentially submit an application for a SSHRC Partnership Grant.

2 Conferences, workshops, exhibits or other events to be hosted or organized by April 30, 2013, and target audience:

- a. Transnational Business Governance Interactions Project (PI: Stepan Wood): host an international academic workshop
- b. Work in a Warming World (PI: Carla Lipsig-Mummé):

Host another cohort of the Climate Change, Youth, and Jobs Institute in August 2012. Target audience is high-school students.

Host a W3 Workshop in November. Target audience is programme partners and researchers.
- c. Climate Justice and Water Management project (PI: Ellie Perkins): host a 4-5 day final meeting in Nairobi, Kenya in November of this year, including field visits to informal settlements in Nairobi. (target audience: academics, students, and CSO representatives from Durban (South Africa), Maputo (Mozambique), and Nairobi (Kenya))

- d. Inaugurate an annual IRIS lecture featuring a high profile speaker, to increase the profile of sustainability and IRIS at York and in the broader GTA community. (target audience: entire York community, and the general public, GTA)
- e. Host the second annual IRIS Research Celebration event to showcase IRIS's innovative, interdisciplinary, collaborative research efforts (target audience: interested students and faculty from York and beyond)
- f. IRIS Speaker Series - host between 6-10 events, e.g. book launches, film screenings and panel discussions. (target audience: entire York community)
- g. Host 2nd annual Focus on Sustainability Film Festival - in partnership with Planet in Focus, the Osgoode Environmental Law Society and CC-RAI (target audience: entire York community)
- h. Host 4th annual Earth Hour event - in partnership with local environmental sustainability and social justice clubs and organizations on campus (target audience: York students)
- i. Plan a second Ecojustice conference at York University for 2014, on the topic of climate justice, building on partnerships with activists and academics from the Global South (target audience: invited researchers, entire York community)

3 Knowledge mobilization/engagement/outreach/technology transfer activities planned:

- a. Continue to make use of the IRIS website, social media, York media relations resources (e.g. YFile) and other channels to showcase sustainability-related research projects by IRIS members and York faculty and students
- b. Double the number of IRIS blog postings

- c. Continue to advocate for enhanced campus sustainability by engaging with the University administration and the York community at large
- d. Continue to disseminate the findings from our previous Campus Sustainability Surveys on Food, Waste and Engagement.
- e. Release and publicize the report of the 2011-2012 Campus Sustainability Survey on Accessibility.
- f. Conduct the 2012-2013 Campus Sustainability Survey, on a topic to be determined
- g. Continue to collaborate closely with the President's Sustainability Council, the Sustainability Coordinators, York student clubs and organizations, and other relevant campus stakeholder groups, to advance campus sustainability
- h. Establish an IRIS Certificate of Participation and an IRIS Certificate of Engagement, to encourage student participation in IRIS sustainability initiatives and research
- i. Co-host 1-2 public workshops in Fall, 2012, on sustainable furniture design and construction in partnership with the Jane-Finch Centre for Green Change initiative, in the context of S.Wood's RBC-Fulbright Canada Eco-Leadership Award.

4 Visitors invited or anticipated:

- a. Host 2 visitors over the course of the year

5 Facilitating faculty or student research through mentorship, development or support programs or services:

- a. Continue to fund IRIS members to attend conferences and other events of significant importance, e.g. the climate change conferences (COPs)

- b. Increase the funds available to sponsor student participation in conferences and support sustainability events at York University
- c. Continue to support IRIS members with preparation of grant applications

6 Contributions to teaching:

- a. Plan for the Sustainable UpStarts non-degree course which will focus on developing business plans for sustainable enterprise start-ups
- b. Continue to support the Design for Sustainability in the Built Environment: Interactive Workshop (Course Instructor IRIS Executive member Arlene Gould)

7 Institution building and administration:

- a. Expand the IRIS membership, including students, staff, faculty, and community members
- b. Increase the number of Faculties represented on the IRIS Executive Board
- c. Develop a Board policy or policies on IRIS's role in preparation of funding applications and grant administration, and on recognition of IRIS's support for affiliated researchers and organizations.
- d. Increase efforts to secure more financial support for administrative and overhead costs

IRIS STATEMENT OF OPERATIONS

	2011-2012	2010-2011
Total Revenue	562,889	754,388
Internal Funding	48,274	36,671
Government Funding	509,979	717,717
Corporate/NGO/ Personal Giving	4,636	-
Contracts	-	-
Total Expenses	417,452	589,730
Research Expenses	414,829	589,730
Supported Events at York	2,623	-
Surplus for the current year	145,437	164,658
Carryforward from 2010-2011	463,359	298,700
Carryforward from 2012-2013	608,796	463,359

APPENDIX 1 - ACTIVITIES OF THE UNIT

Broadly, IRIS's activities in 2011-2012 can be divided between, academic research projects (limited-term) and innovative engagement programs (ongoing).

ACADEMIC RESEARCH PROJECTS

SEPN | SOCIO-ECONOMIC CONSIDERATIONS FOR CLIMATE CHANGE ADAPTATION IN THE LAKE SIMCOE WATERSHED | TRANSNATIONAL BUSINESS GOVERNANCE INTERACTIONS (TBGI) | CLIMATE CHANGE ADAPTATION IN AFRICA | WORK IN A WARMING WORLD | CONNECTING FOUR RESEARCH SOLITUDES: THE IMPACT AND IMPLICATIONS OF CLIMATE CHANGE FOR INVASIVE SPECIES, BIODIVERSITY AND SOCIETY | ECOLOGIES ON THE EDGE | GAS, ARCTIC PEOPLES, AND SECURITY (GAPS)

INNOVATIVE ENGAGEMENT INITIATIVES

COMMUNITY-DESIGNED SUSTAINABLE FURNITURE FOR THE CENTRE FOR GREEN CHANGE | THE GLENDON CAMPUS PROJECT | CLIMATE JUSTICE | CAMPUS SUSTAINABILITY ACTION AGENDA | CONTRIBUTIONS TO TEACHING: SUSTAINABILITY CURRICULUM DEVELOPMENT | EVENTS | EVENTS SUPPORTED BY IRIS | IN-KIND ORGANIZATIONAL SUPPORT | IRIS E-PRESENCE

During 2011-2012, 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; and Gas, Arctic Peoples and Security. The following projects are listed in order of completion, with the most recently started projects listed first and those completed listed last. In 2012 we will welcome a new project to IRIS, the SEPN: The Sustainability and Education Policy Network: Leading through Multi-Sector Learning, led by Professor Steve Alsop.

THE SUSTAINABILITY AND EDUCATION POLICY NETWORK: LEADING THROUGH MULTI-SECTOR LEARNING (SEPN)



The Sustainability and Education Policy Network (SEPN) is a partnership between academic research institutions and national policy and environmental organizations that addresses the current lack of coordinated analysis of educational policy and practice in relation to Canadian environmental issues. It proposes to develop new models for policy and practice to improve how environmental sustainability is taught and practiced in educational institutions within Canada and around the world.

As concern with environmental issues expands across Canadian society, environmental sustainability policy and practice in education has remained largely unexplored. Growing numbers of provincial Ministries of Education as well as university administrations are engaging with sustainability issues, which are timely given the United Nations (UN) Decade of Education for Sustainable Development (2005-2014). However, little coordinated research exists that examines the range of sustainability policies and practices being developed, implemented, and experienced in these educational contexts.

In effect, Canada's decentralized system of education discourages educational research across provincial and community contexts, both in relation to K-12 and post-secondary education. As well, while the literature advocates the importance of community consultation in developing policy or assessing its impacts, little research to date has been undertaken that engages the community when evaluating and enhancing existing sustainability policy directions in education.

The SEPN is funded by a \$1,964,996 million Partnership Grant from the Social Sciences and Humanities Research Council of Canada. IRIS is hosting the York University component of this grant, which is led by Professor Steve Alsop, Core Faculty and IRIS Executive member. The Principal Investigator is Professor Marcia McKenzie of the University of Saskatchewan.

Other IRIS Core Faculty members on the grant include Donald Dippo, Leesa Fawcett, Timothy Leduc, and L. Anders Sandberg. This project has not yet been publicly announced by SSHRC.

SOCIO-ECONOMIC CONSIDERATIONS FOR CLIMATE CHANGE ADAPTATION IN THE LAKE SIMCOE WATERSHED

In December 2007, the Province of Ontario appointed an expert panel on climate change adaptation to provide the government with advice on how to protect the health, environment, infrastructure, and economy from climate impacts in Ontario. One of their recommendations (2009) was to undertake a pilot planning exercise for the Lake Simcoe watershed, with the view of extending insights derived from the process to the province as a whole.

Consistent with this recommendation, the Province of Ontario committed to developing a Climate Change Adaptation Strategy (CCAS) for the Lake Simcoe Watershed through a partnership of the Ministry of the Environment, the Lake Simcoe Conservation Authority, the Ministry of Natural Resources, the Ministry of Agriculture Food and Rural Affairs, and various other members. The CCAS was intended to increase the resilience of the Lake Simcoe Watershed to the impacts of climate change and to ensure that the long-term health of lake is restored and protected both now and in the future.

Critical to the effectiveness of the CCAS is the consideration of changes in socio-economic conditions, both in terms of impacts and adaptation responses. Unfortunately, indicators

of socio-economic impacts, examples of adaptation strategies, and familiarity with comparative analytical techniques, are limited. Support is therefore required for science and social science research to improve understanding and analysis of regional and local scale risks, adaptation options and opportunities. This project is intended as a partial step towards identifying and addressing these limitations.

The overall objective of this project is to identify the key socio-economic considerations in the development of a comprehensive Climate Change Adaptation Strategy (CCAS). The environmental context for this exercise is the Lake Simcoe Watershed, but results are intended to be applied generically across the province. Specific project objectives are:

- a. To establish a socio-economic baseline for the Lake Simcoe Watershed, against which future climate change scenarios can be projected.
- b. To assess relative, sectoral, socio-economic impacts in a comparative framework for the watershed as a whole.
- c. To inform climate change adaptation planning across Ontario.

Progress in 2011/2012: The Final Report was delivered to the Ontario Ministry of Environment in December 2011.

TRANSNATIONAL BUSINESS GOVERNANCE INTERACTIONS (TBGI)

Transnational Business Governance Interactions is funded by a three-year, \$200,000 Partnership Development Grant from the Social Sciences and Humanities Research Council of Canada.

Professor Stepan Wood, Acting Director of IRIS at York University (www.iris.yorku.ca), 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, Arizona State University, the London School of Economics and Political Science, the Baldy Centre for Law and Social Policy of the State University of New York at Buffalo, and the International Social and Environmental Accreditation and Labelling (ISEAL) Alliance.



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.

In 2011-2012, TBGI worked on two major publications that follow a workshop held at the European University Institute, in Florence, Italy, in May 2011: a special issue of the journal Regulation and Governance, and an edited book (publication expected in late 2012). The project has also worked to organize its first workshop funded by the grant (3rd workshop of the overall project), "Interactions in Transnational Business Governance: Assessing Impacts on Regulatory Capacity and Performance" which will be taking place May 16, 2012 at the Hertie School of Governance in Berlin.

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 partners at the University of KwaZulu-Natal in Durban, the University of Nairobi, Eduardo Mondlane University in Maputo, and York University in Toronto, along with local environmental and community-based NGOs in Durban, Nairobi and Maputo. The project’s main development goal is to strengthen the capacity of civil society to influence water sector governance towards climate change adaptation in the 3 African cities.

The following is a brief summary of this project’s activities from July 2011 to April 2012:

During this period, project partners—academic institutions and civil society organizations (CSO) in Durban, Maputo, and Nairobi—carried out a series of community workshops on community mapping, climate change and water, community gardening, climate debt, etc.

In June 2011, Elizabeth Lorimer and Alex Todd, Masters students in the Faculty of Environmental Studies at York University, travelled to Durban, where they stayed for three months interning at partner civil society organizations, Umphilo waManzi and the South Durban Community Environmental Alliance. Prior to going on these exchange trips, both students prepared papers on equity aspects of climate and water in Toronto. In addition, Elizabeth and Alex have blogged on their experiences in South Africa, as well as the impacts of climate change in this country—their blogs can now be found on the project’s website at <http://ccaa.iris.yorku.ca/>.

Two University of Nairobi students also undertook short field visits to Durban to present on water and climate change adaptation challenges and practices in Nairobi as well as to learn about comparable situations in Durban.

These four students presented their findings at a student symposium, which was held at the Centre for Civil Society (CCS) at the University of KwaZulu-Natal in late August.



In August 2011, project partners travelled to Durban, South Africa and Maputo, Mozambique for the project’s second annual meeting. This meeting provided an opportunity for project partners to discuss their contributions to the project and

identify and discuss goals for the continuation of the project. In addition, partners had a chance to fine-tune the project’s methodology, and compare notes on climate change, water governance, and related community-based initiatives in each of the three cities.

In December 2011, some project partners participated in the 17th Conference of the Parties (COP17), which took place in Durban, South Africa. Alex Todd was a member of the York University delegation.

In early April 2012, Professor Ellie Perkins, the project’s Principal Investigator, and Patricia Figueiredo, the project coordinator, published a paper entitled Women and Water Management in Times of Climate Change: Positive Processes in the Journal of Cleaner Production special issue on “Women, Water, Waste, Wisdom and Wealth.

WORK IN A WARMING WORLD

Work in a Warming World (W3) is in its third year of a five-year 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.

In 2011-2012 W3 hosted the following events:

a. September 29/30 2011: Saving The Planet And Creating Jobs Atlantic Forum, St. Thomas University, Fredericton, New Brunswick

The Atlantic Forum invited participants from the four Atlantic provinces and New England to discuss initiatives by labour and government to fight climate change while creating jobs not losing them. The focus was on “inspiring stories” to encourage those in the Maritimes to pursue a bigger goals, especially in the area of coalition-building between the labour and environmental movements. The two-day conference focused on Atlantic Canada the first day, and New England and cross border initiatives during the second.

<http://warming.apps01.yorku.ca/wp-content/uploads/W3-Atlantic-Forum-Booklet.pdf>

b. International Panel – Greening Work in a Chilly Climate: Canadian Challenges & International Perspectives, Nov 17th, 2011

Climate change is of intense concern to Canadians today, but its growing impact on existing jobs and on the next generation of workers is almost absent from the agendas of public policy, business and labour. OECD governments of all political stripes are crafting ambitious national policies that include the work world, to reduce their carbon footprint. In contrast, the political climate in Canada is decidedly chilly. But the world of work may be the most effective site for reducing Canada’s GHG emissions, and transitioning to a greener economy. What can we learn from China, EU, the US, and from around Canada? What role can labour play in national climate policy? How can the work world take leadership in reducing GHGs? What works, in greening workplaces? Sectors? Occupations? Education and training? What can we learn from green restructuring of hard-hit industrial communities in the EU? The US? Canada? The International Panel discussion with experts from the UK, the US, and Canada, discussed these challenging issues.

<http://www.workinawarmingworld.yorku.ca/2011/10/greening-work-in-a-chilly-climate/>

c. Researchers Workshop: Greening Work in a Chilly Climate, Nov 18th-19th, 2011

We are mapping the impact of climate change on employment, assessing Canadian government policy in comparison with other OECD countries, exploring the intersection of gender, work and climate change, working with unions and other organisations to introduce green transition to collective bargaining. This Workshop is for researchers, policy makers, educators, community activists, and graduate students. W3’s Graduate Student Network will also meet during the workshop.

<http://www.workinawarmingworld.yorku.ca/2011/10/researchers-workshop/>

d. Climate Change, Youth, & Jobs Workshop @ York U, February, 2012

On Saturday February 4th and Sunday February 5th, thirteen high school students from across the Greater Toronto Area came together at York University for the Youth, Climate Change, and Jobs Institute hosted by the Work in a Warming World (W3). The two-day Institute consisted of four half-day workshops created and facilitated by York University Professors Dr. Steven Tufts and Dr. Dawn Bazely and Matthew Carroll. Workshops included: Climate Science 101, Greening Workplaces, a critical analysis of a variety of perspectives on climate change including various levels of climate deniers and responders to the climate crisis. The fourth and final workshop was a panel session of guest speakers on the topic of climate change and work. The institute concluded with a certificate ceremony and celebration of the accomplishments of the students involved.

<http://www.workinawarmingworld.yorku.ca/2011/10/researchers-workshop/>

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

Connecting Four Research Solitudes was a one-year knowledge synthesis project. 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, two of the knowledge synthesis reports has been published:

- a. Taking stock of the assisted migration debate. Biological Conservation 144: 2560-2572.
- b. Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world. Environmental Review 20: 1-16. This paper received significant media attention, being sited on radio, online and print. For example:
 - i. Alien invasion: study says non-native species threaten due to climate change, Winnipeg Free Press
 - ii. Climate change brings alien species to Canada: study, CTV News
 - iii. Des espèces étrangères envahissent le Canada, Métro Montréal
 - iv. Canada lags behind in studying alien species and climate change: study, Global News
 - v. Invaders pose threat, Lethbridge Herald

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.

During 2011-2012, a workshop was held "Changing Frontiers of Ecological Knowledges: A Critical Dialogue on Asian Ecologies on the Edge", on the 12-13th of October 2011 at York University. The two-day interdisciplinary workshop, organized by YCAR, addressed how new strategies of documenting, monitoring and evaluating environmental change have led to a proliferation of ecological knowledge in Asia. The event will draw attention to the transformations in environmental management that are currently underway and how it has produced new inequalities in access to knowledge and decision-making. The workshop was funded by the Social Sciences and Humanities Research Council of Canada, the York University Ad-hoc Conference Fund, the Institute for Research and Innovation in Sustainability and the York Centre for Asian Research. Read more about the Workshop.

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. Three students continue work on their theses, including hidden homelessness and grasses with microscopic fungus that can be toxic to mammals. The project has created a summary of its project findings.

During 2011-2012, IRIS sought to innovatively engage the public through a variety of initiatives, including: launching the Glendon Campus Project website, leading a delegation to the 17th Conference of the Parties of the United Nations Framework Convention on Climate Change; running several campus sustainability initiatives at York University, including the 3rd Annual Earth Hour event, and 1st Annual Focus on Sustainability Film Festival; hosting its annual speakers series; supporting other organizations through committee representation, event sponsorship, or providing work space; and increasing its e-presence.

COMMUNITY-DESIGNED SUSTAINABLE FURNITURE FOR THE CENTRE FOR GREEN CHANGE



In December 2011, IRIS Acting Director Stephen Wood was awarded a Fulbright Canada Eco-Leadership Grant. Working with the Centre for Green Change, this grassroots community-university project will design sustainable furniture for the Centre located in the Jane-Finch community.

The new community hub will house the growing environmental education and green employment programs of the Jane/Finch Community and Family Centre's Green Change Project, serving one of Toronto's most ethnographically diverse and marginalized communities. The Centre's furniture will be designed and created by community members with help from York University students and faculty. Using sustainable design principles and recovered or recycled materials, community members will both furnish the new Centre and acquire valuable skills.

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 and was officially launched October 27, 2011 at Glendon in the Senate Chamber.

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. Web-space 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 an Ecojustice Conference in April 2009 and attending the UNFCCC Conference of the Parties climate change conferences.

During the summer of 2011 a Climate Justice Website, www.climatejustice.iris.yorku.ca was added to our website presence, to showcase our climate justice initiatives. During 2011-2012, the climate justice work expanded to include a number of climate justice related events:

- a. Inuit Qaujimagatuqangit Film Festival September 27, 2011
- b. Climate Justice and Politics Workshop October 26, 2011
- c. Not the time to COP out: Sheila Watt-Cloutier Live Webcast – November 29, 2011
- d. COP 17 Debrief January 12, 2012
- e. How do we move forward from COP 17? February 13, 2012

UNFCCC COP17

Two York graduate students attended the United Nations Climate Change Conference in Durban, South Africa as non-voting delegates with observer status: Ewa Modlinska, an MES student in environmental studies, and Alex Todd, an MA candidate in geography. They were joined by Curtis Kuunuaq Konek and Jordan Konek from the Arviat Youth Project; and Andreier Orogab Kruiper (Toppies) and Izak Kruiper from the Khomani San who represented communities from the Southern Region, including Botswana, Namibia and Angola. Ewa and Alex received funding from the Vice President Research & Innovation at York University to attend, while the other delegates were partially funded by IRIS.

The group shared a booth about how climate change is affecting Arviat, along with University of British Columbia delegates April Dutheil and Professor Frank Tester.



CAMPUS SUSTAINABILITY ACTION AGENDA

IRIS has conducted an annual campus sustainability surveys since 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 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. During 2011-2012, the selected theme was Campus Accessibility.

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 in the summer of 2012.

Campus Accessibility

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CONTRIBUTIONS TO TEACHING: 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.

Sustainable UpStarts

The purpose of the Sustainable UpStarts project is to stimulate the creation of student-run, sustainable, start-up enterprises at York and beyond by creating a hands-on experiential course in starting up a sustainable enterprise, combined with an annual competition to select the top business plans emerging from the course. The project will advance experiential education in a pan-university, interdisciplinary context and will enhance the university's reputation for preparing the leaders of a sustainable economy.

The course and competition will be operated by IRIS, an university-wide ORU and hub for sustainability-related research and action on campus. The course will be offered each summer to York students and interested individuals from outside the university. Building on York's expertise in business and sustainability, it will be taught by a team of experts from York and beyond. Students will work in interdisciplinary teams to learn the fundamentals of sustainability, entrepreneurship and business planning, and prepare a plan for a start-up sustainable enterprise—a business whose mission is to advance social or environmental sustainability at York or beyond.

IRIS applied for funding via the Academic Innovation Fund (AIF) in 2012. While the funding request was turned down, IRIS plans to secure other sources of funding to make this course a reality.

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 FES by IRIS Core Faculty and Executive Board member Arlene Gould.

Now in its fourth year, the Summer 2012 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 inter-disciplinary undergraduate

Sustainability and Education Academy (SEdA)

SEdA offers a comprehensive program for leaders in education across Canada. The program aims are to inspire, create and support a culture of sustainable development in all aspects of the education system. SEdA has a national and international group of advisors who are leaders in ESD to provide advice and ideas on current and successful practices around the world.

The Academy's program was designed by faculty at York University's Schulich School of Business, the Faculty of Education, the UNESCO Chair on Reorienting Teacher Education to address Sustainability and the NGO, Learning for a Sustainable Future. The development process included ongoing collaboration with education leaders in school systems as well as business leaders who are champions in this area. Grants from Environment Canada and Suncor Energy Foundation funded the development of the program

The flagship offering of the Academy is the Education Leader Seminars. Each Seminar is a 2 1/2 day intensive, residential, informative and motivational event for education leaders. Seminar workshops provide participants with the knowledge and strategies needed to transform school systems into sustainable organizations.

The next SEdA is planned for June 7&8 in Regina, Saskatchewan.

Global Corporate Social Responsibility Standards: Competition and Cooperation in Transnational Private Law-Making

Acting Director Stepan Wood developed and taught an advanced seminar on Global Corporate Social Responsibility Standards: Competition and Cooperation in Transnational Private Law-Making in the law faculty at Bar Ilan University (Nov.-Dec. 2011), as a vehicle to develop and disseminate knowledge and ideas about transnational business governance interactions, as part of the TBGI project.

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.

EVENTS

Focus on Sustainability Film Festival

In 2012, IRIS and Planet in Focus with the Osgoode Environmental Law society and Climate Consortium for Research Action Integration (CC-RAI) presented the first annual Focus on Sustainability Film Festival. The premier theme was water and was held March 19th at the Keele Campus. This entertaining and educating experience featured domestic and foreign documentaries, a panel discussion with filmmakers, activists and academics, as well as prizes provided by Mountain Equipment Co-op. The films screened during the inaugural event were Water on the Table, White Water, Black Gold, Carbon for Water, and The Clean Bin Project.

Earth Hour Symposium

Earth Hour began in 2006 when the World Wildlife Fund (WWF) in Sydney, Australia introduced the plan to turn off lights for an hour to take a stand against climate change. Since 2008, Earth Hour has become an international event; Toronto was the first city outside of Sydney to adopt Earth Hour! Earth Hour is a day of celebration and recognition for greater innovation in sustainability.

IRIS hosted its 3rd Annual Earth Hour Event in collaboration with human rights and environmental groups from both Keele and Glendon Campus. It was held on Wednesday, March 28th in Founders Assembly Hall. Presenters included the Jane Goodall Institute of Canada, Earth Rangers and the Sustainable Urban Development Association as well as various York University professors. A sustainability clubs fair was also held, as was a lantern-making workshop. This was a free event, with lunch and dinner provided. The evening ended with live music and an open mic talent show!

This year's Earth Hour partners included the Centre for Human Rights, Regenesys @ York, BESSA – Bachelor of Environmental Studies Student Association, Red Zone, Glendon Roots and Shoots, and the President's Sustainability Council Student Sub-Committee.

2011/2012 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 2011-2012 academic year, IRIS hosted speakers on a broad range of sustainability issues, including: climate justice, the Glendon Forest, sustainable organizations, orangutans and more! 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:

- a. Inuit Film Festival**
On September 27, 2011, IRIS provided students with an opportunity to learn more about the Inuit knowledge and climate change. The event was followed by a life video Q&A with the community of Arviat and filmmaker Ian Mauro.
- b. Climate Justice and Politics Workshop**
On October 26, 2011, IRIS hosted a discussion panel on several topics including: climate change and hybrid ethics, capitalism, climate change, the discourse of ecological modernization, and much more. It provided an opportunity for participants to meet and share ideas with like-minded climate justice activists and academics.
- c. Glendon Campus Project Website Launch**
On October 26, 2011, IRIS hosted the Glendon website launch. The website was designed to share the knowledge about Glendon campus more widely and to document the history and current state of environmentalism at Glendon.
- d. Dr. Anne Russon: Orangutan Research and Rainforest Protection in Borneo**
On November 10, 2011, IRIS hosted Dr. Anne Russon and the Borneo Orangutan Society of Canada (BOS Canada). This event provided interested students and faculty with an opportunity to learn about the work of BOS Canada in Kutai National Park, an incredibly unique and threatened wilderness.
- e. Peter Sale: Our Dying Plant**
On November 22, 2011, IRIS hosted Peter Sale's book tour at York University. This event provided students and faculties a chance to engage in a discussion of the current environmental crises. Our Dying Planet is about how and why our planet is dying and this does not have to happen.

- f. COP-17 Debrief**
On January 12, 2012, IRIS hosted a debriefing of COP-17 with the delegation from York University and the youth delegation from Nanisiniq: Arviat History Project to share their experiences at this year's COP talks in Durban, South Africa.
- g. Climate Justice Workshop**
On February 13, 2012, IRIS hosted a Climate Justice workshop for interested students and staff. The participants included COP-17 delegates as well as previous Climate Justice workshop participants and interested staff, faculty and students.
- h. Mari Kira: Sustainable Work Organizations and Sustainable Work**
On Feb 16, 2012, IRIS hosted Dr. Mari Kira and she presented her research on two interconnected topics: sustainable work organizations and sustainable work. Her research on relating organizational change and development for sustainability, and the design and development of work for sustainability.
- i. IRIS Research Showcase event**
On Thursday, March 8, 2012, IRIS hosted the annual research showcase event. This year's theme was Transcending Interdisciplinary Research Barriers: Best Practices for Mobilizing Knowledge.
- j. Environmental Cooperation and Israel-Palestinian Peace**
On March 15, 2012, Professor Stuart Schoenfeld from Glendon and Eric Abitbol from the University of Bradford (UK) presented and discussed Environmental Cooperation and Israel-Palestinian Peace.

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:

- a. New Growth: Dialogues on the Tree**
On March 31, 2012 the Art History Graduate Students Association held their 11th Annual Symposium at the McMichael Canadian Art Collection in Kleinburg.
- b. Battle Lines Drawn: Resisting Ableism Through Creative Intervention**
On February 7, 2012. Access York hosted Jeff Preston, a disability advocate specializing in creative intervention, for a discussion about his fight for disability rights.

- c. 2011 What's Worth Knowing: Health and the Environment Symposium**
On November 16, 2011, Learning for a Sustainable Future held a symposium which mobilized knowledge about the links between health, the economy and the environment while positioning education as a vehicle for continuously improving the lives of citizens. Key areas of inquiry included health issues pertaining to toxins, food, air quality, technology and social inequality. This event culminated in recommendations for curriculum and education policy development. These recommendations were detailed in a white paper that was released in early 2012.
- d. Workshop: Changing Frontiers of Ecological Knowledges: A Critical Dialogue on Asian Ecologies on the Edge**
On October 12 and 13, 2011, the York Centre for Asian Research (YCAR) hosted a two-day interdisciplinary workshop to address how new strategies of documenting, monitoring and evaluating environmental change have led to a proliferation of ecological knowledge in Asia.

IN-KIND ORGANIZATIONAL SUPPORT

IRIS provides office and meeting space to the following organizations.

Learning for a Sustainable Future

Since 2004, IRIS has housed the not-for-profit organization Learning for a Sustainable Future (LSF). During 2011-2012 LSF continued to expand its programs for elementary and secondary students to take action. The Resources for Re-thinking database continue to grow and house more exemplary classroom resources that are thoroughly reviewed to meet the highest sustainability and pedagogy principles. In November 2011, LSF hosted the What's Worth Knowing: Health and the Environment Symposium. 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. Regenesis @ York's focus areas include: Farmers Market and Food Education, Cycling Advocacy and Infrastructure, Future of Our Forest: Glendon Forest, and Primary Education Initiative.

IRIS E-PRESENCE

The IRIS website, www.iris.yorku.ca continues to be hosted by Ethical Hosting, which is powered by 100% renewable energy provided through Bullfrog Power and Planetair. The website is constantly updated to remain current and a user-friendly resource. In addition to profiling its many projects, initiatives, and members, the website is also a hub for discussing sustainability issues (through our frequent and thought provoking blog posts). This year we added blogs by IRIS member Professor Mark Winfield. The website also advertises a host of local sustainability events. IRIS continues to also utilize Facebook (IRIS - Institute for Research and Innovation in Sustainability) and Twitter (iris.yorku) for social media purposes. We continue our monthly newsletter, highlighting key news items and upcoming events.

APPENDIX 2 – INDIVIDUAL MEMBER CONTRIBUTIONS

NOTE: “Starred items are IRIS contributions. Starred individuals sit on the IRIS Executive.”

DIRECTOR CONTRIBUTIONS

Stepan Wood (Acting Director; W3; 4 Solitudes; IRIS Steering Committee, PDG: Transnational Business Governance Interactions (TBGI))*

Academic & Professional Positions

- *2011 **Visiting Professor, Bar-Ilan University, Faculty of Law, Ramat Gan, Israel (November-December)**
- 2010-2011 **Jean Monnet Fellow, Robert Schuman Centre for Advanced Studies, European University Institute, Florence (Until August 31)**
- 2011 **Visiting Professor, Monash University, Faculty of Law, Prato Law Program, Prato, Italy (July)**

Honours & Awards

- *2011 **Fulbright Canada-RBC Eco Leadership Grant** for project to design sustainable furniture for the Centre for Green Change in the Jane-Finch community of Toronto (C \$3 650)
- 2011 Short-listed for Canadian Political Science Association’s DONALD V. SMILEY PRIZE for best book in Canadian politics, for *A Perilous Imbalance: The Globalization of Canadian Law and Governance* (UBC Press, 2010, co-authored with Stephen Clarkson).

Research Funding

Source & Purpose	Year	Amount	My Role	Status
* Towards a Sustainable Local Food Strategy for Ontario	2012	\$100,00	Co-PI with Peter Middleton	Denied
* Fulbright Canada-RBC Eco-Leadership grant to support a grassroots community-university project to design sustainable furniture for the Centre for Green Change in the Jane-Finch community of Toronto, in partnership with the York Institute for Research and Innovation in Sustainability	2011	\$3,650	Principal Investigator	In Progress
* Social Sciences and Humanities Research Council of Canada, Partnership Development Grant, "Competing, Coordinating, Co-opting...? Interactions in	2011	\$200,000	Principal investigator (with co-applicants Kenneth Abbott, Arizona State University; Julia Black, London School of Economics; Burkard Eberlein, York University; Errol Meidinger, SUNY Buffalo; Alan Richardson, York University; Sasha Courville, ISEAL Alliance; plus 25 collaborators from 18 universities in 7 countries)	In Progress
Transnational Business Regulation" (2011-2014)				
European University Institute, Robert Schuman Centre for Advanced Studies, Jean Monnet Fellowship 2010-2011, "ISO 26000 and the Legitimation of Transnational Governance Authority in the Field of Corporate Social Responsibility"	2010	€24,000 (approx.)	Sole applicant	Completed
* Social Sciences and Humanities Research Council of Canada, Community-University Research Alliance, "Work in a Warming World: Adapting Canadian Employment and Work to the Challenges of Climate Change"	2009	C\$1 million	Co-applicant with Carla Lipsig-Mummé of York University (Principal Investigator) and others from ten universities and 20 partner organizations	In Progress
* Canadian Foundation for Climate and Atmospheric Sciences Knowledge Synthesis Grant, "Connecting four research solitudes: the impact and implications of climate change for invasive species, biodiversity & society"	2009	C\$80,000	Co-applicant with Dawn Bazely of York University (Principal Investigator) and four York University colleagues in Biology, Business, Environmental Studies and Sociology	In Progress

Papers Presented 2011	"Transnational Voluntary Climate Change Initiatives by and for Local Governments," workshop on Local Climate Change Law: The Role of Local Governments, Faculty of Law, University of British Columbia, 22-23 October
Public Lectures *2012	"Business and Human Rights: The Case for Leverage-Based Responsibility," Global Governance Colloquium, Hertie School of Governance, Berlin (23 February) "The Case for Leverage-Based Business Responsibility for Human Rights: Broadening the Ruggie Framework," COERB Responsible Business Dialogue, Centre of Excellence in Responsible Business, Schulich School of Business, York University, Toronto (31 January) "ISO 26000 and Leverage-Based Responsibility," Ryerson Institute for the Study of Corporate Social Responsibility, Ryerson University, Toronto (27 January) "Avoiding the Spiderman Syndrome: When Should Corporate Power Give Rise to Corporate Responsibility?" McLaughlin College and Centre for Practical Ethics, York University, Toronto (12 January)
*2011	"The Case for Leverage-Based Corporate Human Rights Responsibility," Law Department, Bar-Ilan University, Ramat Gan, Israel (28 November)
Teaching	Global Corporate Social Responsibility Standards: Competition and Cooperation in Transnational Private Law-Making (advanced seminar in the undergraduate law program, Bar Ilan University, Faculty of Law) (Nov.-Dec. 2011)
Service 2011-	Osgoode Hall Law School Editor-in-Chief, Osgoode Hall Law Journal Member of the Executive, Osgoode Hall Faculty Association York University Acting Director, Institute for Research and Innovation in Sustainability (IRIS), www.iris.yorku.ca
*2011-	Member, President's Sustainability Council

2010-	Other Member of the expert Reference Group to the Climate Bonds Initiative's Climate Bonds Standards Project
2009-	Founder and co-chair, Willms & Shier Environmental Law Moot Court Competition, www.willmsshier.com/moot
1999-	Canadian delegate, International Organization for Standardization, Technical Committee 207 (International committee responsible for developing and maintaining international standards on environmental management) Subcommittee 1 (Environmental Management Systems standards): Head of Canadian delegation, 2008 (Bogotá), 2009 (Cairo); Canadian delegate, 2000 (Stockholm), 2001 (Kuala Lumpur), 2004 (Buenos Aires), 2005 (Madrid); Expert, Working Groups 1 and 2 (responsible for revising ISO 14001 and ISO 14004 environmental management systems standards), 1999-2004; Convener, ISO 14004 Working Draft Editing Group, 2001; Expert, Working Group 3 (responsible for developing ISO 14005 guide for phased implementation of an environmental management system), 2008-2009; Expert, SC1 Joint Technical Coordination Group Mirror Committee (responsible for providing input on alignment and integration of ISO Management Systems Standards), 2008-2009; Member, Working Group 4 (environmental communications), 2004-05; Member, NGO Task Group, 2001-03; Member, Working Group 5 (ISO 14001 revision), 2011-present. Member, Canadian Standards Association, Technical Committee on Environmental Management and Related Activities (Responsible for developing and maintaining Canadian National Standards on environmental management) Vice-Chair, Subcommittee on Environmental Management Systems, 2004- Member, Standards Council of Canada, Canadian Advisory Committee on ISO/Technical Committee 207 (National mirror committee responsible for providing Canadian input on ISO 14000 series of international environmental management standards) Member, Standards Council of Canada, Canadian Advisory Committee on ISO/TC 207, Subcommittee 1 (National mirror committee responsible for providing Canadian input on ISO environmental management systems standards) Vice-Chair, 2004-

FACULTY OF FINE ARTS

*Arlene Gould * (WGBC Summer School Course Director)*

FACULTY OF LIBERAL ARTS & PROFESSIONAL STUDIES

*Carla Lipsig-Mummé * (W3)*

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

Book 2012 Rethinking Work for the Warming World. Carla Lipsig-Mummé, ed. Fernwood Books.[Contract December 2011.]

Book Chapters 2012 "New Carpetbaggers and Old Dreams: Russia between the Union and the Commonwealth", D. S. McClelland, ed., Eyewitness to History: the Soviet Union on the Eve of Collapse. April.

"Trade Union Strategy and Industrial Democracy: Convergences, East and West", D. S. McClelland, ed., Eyewitness to History: the Soviet Union on the Eve of Collapse. April.

Lipsig-Mummé, C. and E. Webster in "Reconnections: Labour Sociologies in a Globalizing Era", A. Sales, ed., Sociology Today: Social Transformations in a Globalizing World, Sage. January.

Scholarly Articles 2012 *"The Effects of Climate Change on the Distribution of Invasive Alien Species in Canada knowledge synthesis of range change projections in a warming world", (A. L. Smith, N. Hewitt, N. Klenk, D.R. Bazely, N. Yan, S. Wood, I. Henriques, J. I. MacLellan, C. Lipsig-Mummé), Environmental Reviews, v.20, #1. Published online January 19, 2012. 16 p.

2011 *"Taking Stock of the Assisted Migration Debate", (N. Hewitt, A. L. Smith, D.R. Bazely, N. Klenk, N. Yan, S. Wood, I. Henriques, C. Lipsig-Mummé, J. MacLellan) Biological Conservation, v.144, #11 pp.2560-2672.

Keynotes 2011 *"Greening Work in a Chilly Climate", International Panel on Work and Climate Change, Toronto, November 17.

*"Work in Canada's Warming World: Wicked Problems and New Alliances", Keynote, The Atlantic Forum, St. Thomas University, Fredericton, New Brunswick, Sept. 28.

2012 "Climate Change and Employment: Australian Perspectives", Keynote, Macquarie University, April 30.

Conference Papers 2012 'Can the World of Work Save the Environment?', Lipsig-Mummé, C., J. Calvert, C. Campbell, J. Holmes, E. Perry with T.J. Albrecht 30th International Labour Process Conference, Stockholm, March 26-29.

'Modelling the Future: International and Australian modelling studies on climate change, work and jobs', Lipsig-Mummé, C., J. Calvert, C. Campbell, J. Holmes, E. Perry with T.J. Albrecht AIRAANZ 2012 Conference, Australia, February 2012.

2011 "The Future of Work: A review of international studies of climate change and jobs", Lipsig-Mummé, C., J. Calvert, C. Campbell, J. Holmes, E. Perry with T.J. Albrecht W3 Research Workshop, Toronto, November 17-19.

Lipsig-Mummé, C. 'Adapting Canadian Employment and Work to the Challenges of Climate Change', Canadian Labour Congress Environment Meeting, Ottawa, November 8.

Conference /Workshop Organising 2012 Stream Organiser (joint), Work, Labour Climate Change, 25th Conference of Association of Industrial Relations Academics of Australia and New Zealand, Queensland, Australia, 2012.

2011 Lead Organiser, International Panel on Greening Work in a Chilly Climate, Toronto, November.

Lead Organiser, Researchers' Workshop, Toronto, November 18-19

Grant Applications 2012 Lead Investigator, "Adapting Canadian Workplaces to Climate Change", SSHRC Partnership Grant Letter of Intent, February.

2011 Lead Investigator, "Responding to Climate Change in the World of Work", Ontario Research Fund, October. Programme terminated during application process.

David Doorey (TBGI, W3)

David Szablowski (TBGI)

Gabrielle Slowey (GAPS Project)

Conference Presentation & Participation

Paper 2012 "Fractured Politics ." Canadian Political Science Association Meetings. June. Edmonton, AB.

Panelist 2012 "Breaking Barriers: New Directions and Strategies in Aboriginal Governance." Centre for Global Challenges. Glendon College, York University. 12 April.

Speaker 2012 *Symposium Speaker/Presentation, "Oil and Gas Development: Dealing with a Necessary Evil," Transcending Interdisciplinary Research Barriers: Best Practices for Mobilizing Knowledge. The Institute for Research and Innovation in Sustainability (IRIS) Speaker Series. York University. 8 March.

Panelist 2012 "Aboriginals in Canada: Tackling a Legacy of Oppression." York University. Toronto, ON. 5 March.

Speaker 2012 *Symposium Speaker/Presentation, "Oil and Gas Development: Dealing with a Necessary Evil," Transcending Interdisciplinary Research Barriers: Best Practices for Mobilizing Knowledge. AAAS (American Association for the Advancement of Science). Vancouver, BC. 16-18 February.

Nina Hewitt (4 Solitudes)

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

*Andrea L. Smith, Nina Hewitt, Nicole Klenk, Dawn R. Bazely, Norman Yan, Stepan Wood, Irene Henriques, James I. MacLellan, Carla Lipsig-Mummé. 2012. Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world. Environmental Reviews 20: 1-16.

Sheila Embleton (Former VP Academic; Climate Justices)*

Publications (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. 2012, pages 225-232. [details still confidential]

"Comment on Eric W. Holman et al.'s "Automated Dating of the World's Language Families Based on Lexical Similarity", Current Anthropology, volume 52, number 6, December 2011, p. 867.

(with assistance from Neil Gold, André Lapierre and Michael Stevenson), commissioned report "Canada's International Education Strategy: Focus on Scholarships", August 2011.

"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).

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

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

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

review of 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).

review of Joy Damousi, 'Colonial Voices. A Cultural History of English in Australia 1840-1940', Canadian Woman Studies (to appear).

Grants final year of SSHRCC Standard Research Grant, with Dorin Uritescu, \$100,997, "The Romanian Online Dialect Atlas II".

York Ad Hoc conference travel to LSA/ANS [Linguistic Society of America/American Name Society] Annual Meeting, Portland, Oregon, January 2012.

Contracts Special advisor to the CEO of Mitacs, Vancouver. Expert Consultant, Education Practice, Stoakley-Dudley Consultants, Inc., Toronto. Associate, Directions Evidence and Policy Research Group, LLP, Vancouver. Illuminate Consulting Group, Santa Clara, California, Member of ISAFM Advisory Board [International Student Analytics and Forecasting Model]

	DFAIT (with assistance from Neil Gold, André Lapierre and Michael Stevenson), commissioned report “Canada’s International Education Strategy: Focus on Scholarships”, August 2011.	Panel presentation on “Moving Towards Corporate Universities”, CII (Confederation of Indian Industries) conference, Delhi, India, November 14-15, 2011. Panel is November 14, 17:00-18:30.		
	DFAIT, Member, Focus India Working Group.	(with Natasha Scollard) “What is Mitacs?”, Inaugural conference of ACCRU (Association of Canadian Comprehensive Research Universities), Ottawa. November 29, 13:45-15:00.	Member of 3 Royal Society of Canada working groups, representing Academy I.	2012 Applying TIEDI’s Knowledge Mobilization Model to Immigrant Cities in Canada. Presentation to 14th National Metropolis Conference February 30, Toronto, ON
Funding Proposals	Have applied for a SSHRCC grant for 2012-15. Have been part of 4 teams bidding for contracts with higher education institutions and/or federal government and/or provincial governments, and advisor on 3 confidential bids for major funding initiatives.	“University 101”, Mitacs Annual Team Meeting, Vancouver, November 30, 13:00-14:30.	Member of the Board, CBIE [Canadian Bureau for International Education], Mprime Networks Inc., and various subcommittees of each.	2012 Secondary Data Sets and the Impact of Settlement Services on Labour Market Integration. Presentation to “The Impact of the Sector Serving Immigrants: A Critical Introduction”. 14th National Metropolis Conference February 29, Toronto, ON
Presentations	(with Dorin Uritescu and Eric Wheeler) “Defining Dialect Regions with Interpretations: Advancing the Multidimensional Scaling Approach”, Methods in Dialectology 14, University of Western Ontario, London, Ontario, August 3, 2011.	Associate Senior Fellow, Massey College, University of Toronto.	Member of Reference Group on Accessibility for People with Disabilities: Information and Communications Working Group, and of Working Group on Implications of the Accessible Information and Communications Standards for the University Sector, COU [Council of Ontario Universities].	*2012 The Nature of Hospitality and Worker Response to Climate Change Paper presented at the Annual Meeting of the Association of American Geographers, February 24, New York, NY
	“Driving Opportunities for Canada-India Research and Education Partnerships”, Canada India Forum, University of Western Ontario, London, Ontario, October 18, 2011.	Referee for 12 journal articles, abstracts for two conferences, one US promotion case, and 3 major grant applications.		*2012 What Will Work in a Warming World Look Like? Presentation in Symposium “Transcending Interdisciplinary Research Barriers: Best Practices for Mobilizing Knowledge” Annual Meeting of the American Association for the Advancement of Science (AAAS), February 18, Vancouver
	(with Roopa Desai Trilokekar) “Access, Social Equity and the Challenges of Internationalizing Higher Education: Implications for Canada & India”, CSSHE [Canadian Society for the Study of Higher Education] Conference on “Higher Education, Globalization, and Social Justice”, Vancouver, November 3, 2011.	Member of 2 grant referee panels.	Steve Tufts (W3)	*Tufts S, Milne S 2011 The Shift towards Green Hotels and Fair Labour Practices, in Canada, US, Ireland, and Australia. Paper presented and the Sustainable Community Business Conference. July 15, Sydney, NS
	with Rod Skinkle), “International Student Prospect Survey – India Cohort 2011”, CBIE Annual Conference, Ottawa, November 21, 2011.	Evaluator for Research Assessment Exercise, Romanian National University Research Council and Executive Agency for Higher Education, Research, Development and Innovation Funding (Assessment domain – Philology), Bucharest, Romania, 2010-2011 (site visits in Bucharest and Iasi, August 30 - September 2, 2011).	Publications 2011 2011 Renewal from Different Directions: The Case of UNITE-HERE Local 75. In V. Shalla (ed) Working in a Global Era, Canadian Perspectives Second Edition. CSP, Toronto, Chapter 14 2012. Can Labour Precipitate a ‘Useful Crisis’ at Air Canada? The Bullet - Socialist Project • E-Bulletin No. 618, April 17, www.socialistproject.ca	Exhibits & Other Activities & Outputs 2011 Renewal from Different Directions: The Case of UNITE-HERE Local 75. In V. Shalla (ed) Working in a Global Era, Canadian Perspectives Second Edition. CSP, Toronto, Chapter 14 2012. Can Labour Precipitate a ‘Useful Crisis’ at Air Canada? The Bullet - Socialist Project • E-Bulletin No. 618, April 17, www.socialistproject.ca
	(with André Lapierre), “Canada’s International Education Strategy: Focus on Scholarships / La Stratégie Internationale en Matière d’Éducation: Les Bourses d’Études”, CBIE Annual Conference, Ottawa, November 23, 2011.	Invited expert assessor, University of Göttingen, German Excellence Initiative – Institutional Strategies, September – December 2011 (site visit December 19-21, 2011).	*2011. Greening Work in an Age of Uncertainty: Is There Something Worse than Climate Change Denial? The Bullet - Socialist Project • E-Bulletin No. 579, December 13, www.socialistproject.ca	
	“Names in India”, American Name Society Annual Meeting, Portland, Oregon, January 6, 2012. [invited key note address]	Member of 5 conference organizing committees. Associate Editor, Review Editor, Member of Editorial Board for 6 journals, and 5 book series.	Funding Proposals Thomas, M (Principal Investigator) Tufts S (Co-Applicant) Insight Development Grant Proposal submitted January 2012	Invited Lectures to Academic Institutions: 2012 Non-stop Flights to Nowhere? What’s Up with Air Canada? Invited panelist on York LA&PS “York Speaks Out...” Series, March 28
	“Internationalization Alliances: Canada-India Collaborations in Post-Secondary Education” Policy Formation in Post-Secondary Education: Issues and Prospects in Turbulent Times, Toronto, March 17, 2012. [invited]	Member of Executive of International Linguistic Association; and of International Quantitative Linguistics Association.	Presentations *2012 Work in a Warming Urban World. Presentation to Re-imagining our Cities: Toward a Comprehensive Strategy for the Urban Economies of Southern Ontario. Discussion Forum hosted by the New Democratic Party of Canada and the City Institute at York University, April 13, Toronto	2012 Hospitality unionism and labour market adjustment in an era of uncertainty. Presentation to Faculty of Liberal Arts and Professional Studies Research Matters Speaker Series “The Future of Work”, York University, January 5
	Panel presentation on “Internationalization”, FICCI (Federation of Indian Chambers of Commerce and Industry), Delhi, India, November 11-12, 2011.	President, International Council of Onomastic Sciences, until September 2011. President, Canada India Education Council, 2011-2012. Chair of the Board of Directors, LACUS (Linguistic Association of Canada and the US). Co-Chair, SSHRCC Aid to Workshops and Scholarly Conferences in Canada Adjudicating Committee. 3 conference sessions chaired.	Tufts, S and Thomas M 2012 Worker Power in an Age of Uneven Austerity. Alternate Routes Conference - The Global Economic Crisis and Canada: Perception Versus Reality, March 23, Ryerson University, Toronto	2011 Hotel workers, labour crisis, and the struggle for the city. Presentation to MA Program in Geography, Brock University, St Catharines, Ontario November 23

Lectures to Professional Organizations:

2012 The Strategic Importance of Air Canada. Presentation to Solidarity YYZ (Unions at Pearson Airport), April 16

Media Appearances

Media Appearances and Extra-University Community Service (pro bono publico)

2012 Interviewed by Rachel Osborne on CHRY News, March 26, 2012

2012 Interviewed by Laura Di Battista on CBC Here and Now, "City, Union Butt Heads as Sunday Deadline Looms" February 3, 2012

FACULTY OF EDUCATION

Steve Alsop* (IRIS Speaker's Series Committee, SEPN)

Donald Dippo (SEPN)

Book Chapters Don Dippo, "Pre-Service Teaching and Pedagogies of Transformation", in Rosalyn McKeown and Victor Nolet (Eds.), *Schooling for Sustainable Development in Canada and the United States*, Berlin: Springer (forthcoming).

Papers in Refereed Journals Don Dippo, Marcela Duran and Ranu Basu, "Settlement and Schooling: The Unique Circumstances of Refugees and Forced Migrants", *International Migration*, (in review).

Presentations Don Dippo and Negin Dahya, "Social Age and Education: A Focus Group Discussion with WUSC Students from Dadaab", *Age and Generation in Migration Contexts Seminar Series*, Centre for Refugee Studies, York University, Toronto, October 2011.

External Research Funding SSHRC Partnership Development Grant (w/ Wenona Giles) "The Provision of Higher Education for Long Term Refugees in Dadaab Camps, Kenya", 2011-2013 -- \$225,912.

Master Card Foundation (w/Wenona Giles) "Reaching Higher: The Provision of Higher Education for Long Term Refugees in Dadaab Camps, Kenya", 2011-2012 -- \$249,663.

FACULTY OF ENVIRONMENTAL STUDIES (FES)

Anders Sandberg (SEPN)

Ellie Perkins* (Climate Justice; Campus Sustainability; Climate Change Adaption in Africa(CCAA))

Community & Government Service *2011-2012 Co-organizer, with the York Institute for Research and Innovation in Sustainability, of several virtual forums on climate justice both before and after York's delegation of graduate students and community members attended COP17 in Durban, South Africa.

Grants & Contracts 2011 Social Sciences and Humanities Research Council of Canada, Public Outreach grant, \$100,000: "Community-based environmental education and mobilization in marginalized urban communities for equitable watershed governance."

2011 York SSHRC travel grant, \$282.60 for travel to Boston, MA for a conference on "Innovation, diversity and sustainable development in areas of social vulnerability," Nov. 17-18.

2011 FES conference travel grant, \$1,075, for travel to Boston, MA for a conference on "Innovation, diversity and sustainable development in areas of social vulnerability," Nov. 17-18.

Chapters in Books *Forthcoming "Climate justice partnership linking universities and community organizations in Toronto, Durban, Maputo, and Nairobi," co-authored with Ana Louise Tavares Leary, in book on *Sustainable Development at Universities: New Horizons*, edited by Walter Leal (Frankfurt: Peter Lang Scientific Publishers, 2012)

*Forthcoming "Social vulnerability and climate justice: community-based strategies for political engagement." Submitted December 2, 2011 for publication in *A Global Survey of Sustainable Development in Areas of Social Vulnerability*, edited by Adenrele Awotona.

Forthcoming "Environmental activism and gender." Submitted December 1, 2011 for publication in *Gender and Economic Life*, edited by Deborah Figart and Tonia Warnecke (Northampton, MA: Edward Elgar).

Articles in Refereed Journals *Forthcoming "International synergies to address climate change: participatory community organizing in Toronto and the Baixada Fluminense, Brazil," co-authored with Ana Louise Tavares Leary, in *The Global Studies Journal*, vol. 4, 2012.

*Forthcoming "Women and water management in times of climate change," co-authored with Patricia Figueiredo, in the *Journal of Cleaner Production* special issue on Women, Water, Waste, Wisdom, and Wealth, accepted February 18, 2012.

Papers Presented at Conferences 2012 **"Gender justice and climate justice: building women's economic and political agency in times of climate change," at the conference of the International Association for Feminist Economics (IAFFE), Barcelona, Spain, June 16-17.

*Various panels and presentations, Cupula dos Povos (People's Summit), Rio+20 conference on sustainable development and poverty reduction, Rio de Janeiro, Brazil, June 15-20.

**"Climate justice, redistribution, and ecological economics," at the International Society for Ecological Economics (ISEE) conference, Rio de Janeiro, Brazil, May 29-June 1.

**"Watersheds as geographical spaces for political organizing in climate change adaptation: fractals, veins and feedbacks," in panel on "Water governance organizing and climate change adaptation across scales in Southern Africa," and other panels/presentations, at the Initiative on Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) III conference, May 18-20, New York City.

"Degrowth, equity, and local/global redistribution," at Montreal Degrowth conference, May 13-19.

"Degrowth, equity, and feminism," in panel on "Occupy Earth: Ecofeminist perspectives II" at the Left Forum, Pace University, Mar. 16-18.

2011 **"Social vulnerability and climate justice: Community-based strategies for political engagement," presented at the workshop on "Innovation, Diversity and Sustainable Development in Areas of Social Vulnerability," University of Massachusetts Boston, November 18-19.

"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.

Addresses, Panels & Talks 2012 *Panel member, IRIS workshop on "COP17 debrief", January 12.

*Panel member, IRIS open discussion on "How do we move forward from COP17?", Feb. 13.

2011 Moderator of "Women and labour: contributors' panel discussion," Women and Environments International 35th anniversary celebration and launch, November 24.

**"Climate justice and community resilience in Durban, Maputo and Nairobi," presented as part of a panel on "Climate Justice: Perspectives from the Margins," in the "Exclusion, Expulsion and Extraction" lecture series, Faculty of Environmental Studies, York University, November 8.

*Panel moderator, student-led Climate Justice and Politics Workshop on "Bringing a Democratic Canadian Perspective to the Climate Change Conference in South Africa: Taking Action on Climate Change," Institute for Research and Innovation in Sustainability, York University, October 26.

Jose Etcheverry*

Justin Podur*

Kaz Higuchi* (Climate Justice; Campus Sustainability)

Leesa Fawcett (SEPN)

Mark Winfield* (Until the end of 2011)

Timothy Leduc (SEPN)

FACULTY OF SCIENCE & ENGINEERING

Dawn Bazely (IRIS Director; W3; 4 Solitudes; Gaps; Climate Justice; Campus Sustainability; IRIS Speaker's Series Committee; President's Sustainability Council)*

*Hewitt, N., 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* 144:2560-2572.

*Andrea L. Smith, Nina Hewitt, Nicole Klenk, Dawn R. Bazely, Norman Yan, Stepan Wood, Irene Henriques, James I. MacLellan, Carla Lipsig-Mummé. 2012. Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world. *Environmental Reviews* 20: 1-16.

Norman Yan (4 Solitudes)

*Hewitt, N., 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* 144:2560-2572.

*Andrea L. Smith, Nina Hewitt, Nicole Klenk, Dawn R. Bazely, Norman Yan, Stepan Wood, Irene Henriques, James I. MacLellan, Carla Lipsig-Mummé. 2012. Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world. *Environmental Reviews* 20: 1-16.

GLENDON

*Colin Coates**

*Stuart Schoenfeld**

OSGOODE HALL

Peer Zumbansen (TBGI)

SCHULICH SCHOOL OF BUSINESS

Alan Richardson (TBGI)

Burkard Eberlein (TBGI)

Dirk Matten (TBGI)

Irene Henriques (W3; 4 Solitudes)*

*Hewitt, N., 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* 144:2560-2572.

*Andrea L. Smith, Nina Hewitt, Nicole Klenk, Dawn R. Bazely, Norman Yan, Stepan Wood, Irene Henriques, James I. MacLellan, Carla Lipsig-Mummé. 2012. Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world. *Environmental Reviews* 20: 1-16.

Wesley Cragg (TBGI)

SENIOR FELLOWS

Eric Abitbol

Contracts Consulting Researcher, Developing a Virtual Community of Practice (VCOP), National Collaborating Centre on the Determinants of Health (NCCDH), St. Francis Xavier University, Antigonish, Canada; January-March 2012

Funding Proposals **Assessing the Impact of Peace and Conflict Impact Assessments (PCIA): A North-South Participatory Research Project' submitted to IDRC - Small Grants for Innovative Research and Knowledge Sharing, April 2012

Presentations

*Environmental Cooperation and Israel-Palestinian Relations, Speakers' Series – Institute for Research and Innovation in Sustainability (IRIS), York University, Toronto, Canada; March 15, 2012

Transboundary Water Governance and the Israel-Palestinian Conflict, University for Peace, Department of Environment, Peace and Security (DEPS), San José, Costa Rica – on Skype; March 7, 2012

L'eau, la paix et le conflit Israélo-palestinien, Université du Québec à Montréal (UQAM), Département de sociologie, pour la Professeure Élisabeth Abergel, Montréal, Canada; 2 février 2012

Water, Peacebuilding and the Israel-Palestinian Conflict, Trent University, Department of Politics and the Department of International Development Studies, Peterborough, Canada; January 24, 2012

Rachel Hirsch

**Tracking Arctic climate change research to policy integration from the bottom-up*

I have been engaged in a pilot project working with Gwen Healey of the Qaujigiartiit Health Research Centre (QHRC) in Iqaluit, Nunavut since July 2010. This project aims to identify how community-based knowledge (Inuit and non-Inuit) is integrated into climate change and health policy developments, with a focus on food security, at multiple scales. Data collection (questionnaire interviews) in Iqaluit and Ottawa is now complete and two graduate research assistants from the University of Guelph and York University have been hired to help with analysis. A main objective of this research is to test the feasibility of a knowledge tracking tool developed with Iqaluit-based partners from a methods workshop hosted in March 2011. Our long-term goal is to contrast Arctic food security policy communications across the Canadian Inuit Nunangat ('home-land'). This project has already been awarded over \$39,000 in research grants and other support from SSHRC, ArcticNet, and York University. Preliminary results have now been presented at the 2012 International Polar Year Conference and the first paper on this project has been re-submitted as part of a special issue to *Polar Geography*.
*IRIS collaborators on SSHRC grant (Dawn and Gabrielle)

Climate justice virtual events and COP 17

Dr. Hirsch coordinated several virtual events fall 2011, including a Inuit knowledge film festival and a climate justice workshop, hosted by York University's Institute for Research and Innovation in Sustainability (IRIS) and the Association of Polar Early Career Scientists (APECS) in preparation for the 17th United Nations Framework Convention on Climate Change (UNFCCC) Conference of the Parties in Durban, South Africa (COP 17). The aim of these events was to provide a virtual forum for dialogue and democratic action highlighting the views of Canadian students, youth, and Inuit. Network objectives are to: connect Canadians who have something to say or share about their experiences within a changing world; and, work together to voice the important issues that should be the focus of climate politics at the COP 17 meetings in Durban, South Africa, and thereafter. Dr. Hirsch also coordinated activities for York's COP 17 delegation including submitting a successful exhibit booth application hosted by two Inuit youth from Arviat, Nunavut association with the Nanisiniq History Project.

Other Projects

Collaborator with Damian Castro (Memorial University), Glen Lesins (Dalhousie University), and Kaz Higuchi (Environment Canada and York University [IRIS and FES]) on a project titled: "Cooperative food sharing in Sheshatshiu: Uncovering scenarios to support the 'emergent capacity' of Northern communities". This work has been submitted for publication as a book chapter with MIT University Press through the Institute for Environmental Diplomacy and Security at the University of Vermont.

2. Dr. Hirsch is the co-chair of the Climate Consortium for Research Action Integration (CC-RAI) working group on interdisciplinary collaboration based at York University (IRIS is a collaborator on this project). During the fall 2011, climate change researchers on campus at York University were sent a link to an online survey that Dr. Hirsch helped to develop in order to determine who is interested in and how they would like to collaborate on climate change research at York.

Refereed Articles

Hirsch, R., & Baxter, J. (2011). Context, cultural bias, and health risk perception: The 'everyday' nature of pesticide policy preferences in London, Calgary, and Halifax. *Risk Analysis*, 31(5), 847-865.

Submitted Manuscripts

Castro, D., Lesins, G., Hirsch, R., & Higuchi, K. Cooperative food sharing in Sheshatshiu: Uncovering scenarios to support the 'emergent capacity' of Northern communities. Submitted for review with Yale University Press in Ali, S. H., & Pincus, R (Eds.), *Polar Diplomacy: Energy, the Environment, and Emergent Cooperation in the Arctic and Antarctica* [Chapter 14].

Hirsch, R., & Baxter, J. Avoiding neighbourhood conflict: A narrative policy analysis of residents' urban pesticide policy preferences in Halifax and Calgary. Manuscript being revised for resubmission to *Environmental Politics*.

Hirsch, R., Durdle, J., Edmunds-Potvin, S., Healey, G., Noah, J., Shirley, J., & Thomas, M. E. Sharing research findings in Nunavut: A tool to track the use and integration of communitybased knowledge about food (in)security. Revision submitted to *Polar Geography* as part of a special issue on local knowledge and data management.

Hirsch, R., & Saint-Charles, J. Ecosystem approaches to health communication: At the sciencepolicy interface in a socially networked world. Revision submitted to *Ecohealth* [Student Dialogues Section].

Manuscript in Preperation

Collaborator with Damian Castro (Memorial University), Glen Lesins (Dalhousie University), and Kaz Higuchi (Environment Canada and York University [IRIS and FES]) on a project titled: "Cooperative food sharing in Sheshatshiu: Uncovering scenarios to support the 'emergent capacity' of Northern communities". This work has been submitted for publication as a book chapter with MIT University Press through the Institute for Environmental Diplomacy and Security at the University of Vermont.

Major Scholarships, Fellowships & Grants

2012 Labrador Institute and Faculty of Arts (Geography), Memorial University of Newfoundland Postdoctoral Fellowship \$38,000

2011-2012 Social Sciences and Humanities Research Council (SSHRC) Standard Research Grant (Principal Investigator) \$30,261

Conferences & Workshop Presentations

Hirsch, R., Healey, G., Shirley, J., Durdle, J., Svoboda, M., Noah, J., & Edmunds-Potvin, S. (2012, April). A message from Nunavut: Tracking Arctic climate change research to policy integration from the bottom-up. To be presented at the International Polar Year Conference, Montréal, Québec.

Castro, D., Lesins, G., Hirsch, R., & Higuchi, K. (2011, December). Simulating food sharing in Sheshatshiu, Labrador: Modelling household versus community level cooperation. Copresented with Kaz Higuchi at the Annual Meeting of the Canadian Mathematical Society, Toronto, Ontario. [Invited]

Perkins, E., Hirsch, R., & Konsmo, E. (2011, November). Climate Justice: Perspectives from the Margins. Presented with a panel as part of the Faculty of Environmental Studies (FES) Lecture Series, York University, Toronto, Ontario. [Invited]

Hirsch, R., Edmunds-Potvin, S., Durdle, J., Healey, G., Noah, J., Shirley, J., & Thomas M. E. (2011, November). Sharing research findings in Nunavut: A tool to track the use and integration of community-based knowledge about food (in)security. Presented at the ELOKA Workshop, "Data Management and Local Knowledge: Building a Network to Support Community- Based Research and Monitoring," University of Colorado, Boulder.

Workshop Participation

November 2011 Data Management and Local Knowledge Workshop: Building a Network to Support Community-Based Research and Monitoring hosted by the Exchange for Local Observations and Knowledge of the Arctic (ELOKA) at the University of Colorado, Boulder, United States. The goals of this three-day workshop included a review of projects, discussion of key issues, and the formation of a network focused on local knowledge and data management. I hosted Madeleine Redfern, the Mayor of Iqaluit, as a guest attendee.

Andrea Smith

Publications *Smith, A. L., N. Hewitt, N. Klenk, D. R. Bazely, N. Yan, S. Wood, I. Henriques, J. I. MacLellan and C. Lipsig-Mummé. 2012. Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world. *Environmental Reviews* 20: 1-16.

doi:10.1139/A11-020 (covered by the Canadian Press and Global News online Jan. 19-21 2012, and Scientific American March 23 2012).

Other Activities & Outputs:

Starting in April 2011 I began working with CAISN (the Canadian Aquatic Invasive Species Network), examining Canada's preparedness to deal with aquatic invasive species through policy, education, and public awareness. I've been on a 6 month secondment (Oct 2012-Mar 2012) with the Ontario Ministry of Natural Resources, conducting a review of federal and Ontario legislation on invasive species for the provincial government. This has involved extensive consultation with government staff, and review of legislation, regulations, and associated plans, and will culminate with a final report presented to the Ministry at the end of April 2012.

Perry Sadorsky

Book Chapters Refereed

Sadorsky, P. (2012). Green Financing After the Global Financial Crisis, in Paul Shrivastava and Matt Statler (editors) *Learning From The Financial Crisis: Creativity, Reliability*, Stanford University Press.

Sadorsky, P. (2011). Modeling Renewable Energy Consumption For A Greener Global Economy, in *Planet Earth 2011 - Global Warming Challenges and Opportunities for Policy and Practice*, Edited by E.G. Carayannis, InTech Publishers.

<http://www.intechweb.org/books/show/title/planet-earth-2011-global-warming-challenges-and-opportunities-for-policy-and-practice>

Journal Articles Refereed

Sadorsky, P. (2012) Energy Consumption, Output And Trade In South America, *Energy Economics*, 34, 2, 476-488.

Basher, S. A. Haug, A. and P. Sadorsky (2012). Oil Prices, Exchange Rates and Emerging Stock Markets, *Energy Economics*, 34, 1, 227-240.

Sadorsky, P. (2012) Correlations And Volatility Spillovers Between Oil Prices And The Stock Prices Of Clean Energy And Technology Companies, *Energy Economics*, 34, 1, 248-255

Sadorsky, P. (2012) Modeling Renewable Energy Company Risk, *Energy Policy*, 40, 39-48.

Sadorsky, P. (2011) Some Future Scenarios For Renewable Energy, *Futures*, 43,10, 1091-1104.

Sadorsky, P. (2011) Trade And Energy Consumption In The Middle East, *Energy Economics*, 33, 5, 739-749.

Invited Presentations Oil prices and the carbon market, presented at, Workshop on Carbon Market Design: Issues and Opportunities, sponsored by USDA, National Farm Foundation and Commodity Futures Trading Commission, Washington DC, Jan. 31 – Feb. 1, 2011.

JUNIOR FELLOWS

Kevin McKague

Grants SSHRC Doctoral Fellowship (\$81,000) to work with Aneel Karnani at the University of Michigan Ontario Graduate Scholarship (\$15,000)

Publications McKague, K. (2012). Bangladesh's Rural Sales Program: Towards a Scalable Rural Sales Agent Model for the Distribution of Socially Beneficial Goods to the Poor. *Social Enterprise Journal*. Vol. 8, No 1.

McKague, K. (2011). Dynamic Capabilities of Institutional Entrepreneurship. *Journal of Enterprising Communities*, Vol. 5, No. 1: 11-28.

Case Study "Value Chain Development: CARE Kenya's Challenge to Make Markets Work for the Poor." Part (A), Part (B) and Teaching Note. Ivey Business School Publishing. 2012.

Book Chapter Realizing Socially Inclusive and Sustainable Development in Africa (with David Wheeler and Aneel Karnani) in the forthcoming book, *Sustainable and Social Innovation in Africa*, edited by Ralph Hamman and Martin Hall.

Andrew Watson

OGS scholarship 2011/12

CO-chair of Online Environment History Student Workshop; Place & Placelessness (<http://virtualeh.wordpress.com/>)

Graduate Student Representative, Local Organizing Committee, 2013 American Society of Environmental History annual conference (Toronto, April 2013)

Keynote Speaker, Muskoka Stewardship Conference (Bracebridge, Ont, April 2012)