

ANNUAL REPORT

2012-2013



IRIS

Institute for Research and Innovation in Sustainability

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Faculties with Active Members

Faculty of Education (2)
 Faculty of Environmental Studies (8)
 Faculty of Fine Arts (2)
 Faculty of Liberal Arts & Professional Studies (8)
 Faculty of Science and Engineering (3)
 Glendon College (2)
 Osgoode Hall Law School (2)
 Schulich School of Business (7)

Total: 34

Partnership with the York Institute for Health Research (YIHR)

Faculty of Health (2)

Charter Dates

First Charter: late 2004
 Last renewal: October 2008
 Charter end date: June 30, 2014

Mandate

IRIS carries out research into diverse aspects of sustainability. While the definition and academic meaning of sustainability remains contested in certain quarters of academia, some of the core principles and concepts have become mainstream, and have been taken up by diverse sectors. There is general agreement, dissension, notwithstanding, that sustainability encompasses environmental, social and economic aspects. Increasingly, ethics is seen as a key factor that frames and drives sustainability discourses and research. The complexity and multi-factorial nature of the sustainability concept, makes defining research into sustainability both simultaneously difficult to define narrowly, and also refreshingly easy to make relevant for diverse publics. To this end, one of the chief activities of IRIS that has emerged since 2004, has been to promote 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, that functions as a portal for groups both within and external to the 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 an evidence-based culture of sustainability within and beyond York University through engagement in practical, collaborative and interdisciplinary research and innovation that drives change, supported by effective knowledge mobilization and uptake.

Goals

- 1 Provide leadership, integration and dissemination of interdisciplinary sustainability research by championing the use of a trans-disciplinary approach.
- 2 Either lead or support research projects related to sustainability, funded by diverse agencies, ranging from federal, provincial and municipal funding agencies, to private foundations.
- 3 Engage with campus communities in the creation of a “next generation” visible and collaborative green curriculum at York University.
- 4 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.
- 5 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.
- 6 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.
- 7 Engage the broader community from local to international to effect change on sustainability by communicating meaningfully with different stakeholder groups. Effective knowledge mobilization is key to this activity.

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Appendix 2: Individual Member Contributions



DIRECTOR’S MESSAGE

Dr. Pieter De Frenne, Dr. Simon Smart, Professor Dawn Bazely, and Dr. Keith Kirby (left to right)

This is the penultimate Annual Report, for which I will have the honour of writing a Director’s Message.

Since I first, naively, assumed the directorship of IRIS in 2006, I have felt like I am hiking along one very long, uphill learning curve. At times, the slope has been steep, and I have felt like I am climbing a mountain. At other times, the terrain has been gently sloping, and I have felt quite fit and able to handle the demands of the trail. At NO time have I felt as if the journey had a downhill slope!

Along the way, I have learned an enormous amount from colleagues, students and friends who have been taking this “sustainability hike” with me. During my sabbatical, a colleague at Harvard Forest commented that I have clearly completed what amounts to a doctorate in the study of sustainability, and science-policy-politics research. I am not sure that I entirely agree: for me, it has been much more of an on-the-job training in education. Education is really what sustainability is about; the continual need to educate and teach, and repeat these efforts *ad nauseum*.

Whom are we educating and teaching? Frankly, it is the entire York community, the residents of Toronto, Ontario, Canada and the world. People both outside of and within the Ivory Tower need constant reminding of what evidence-based policy based on the best research looks like. When it comes to sustainability, like the closely-related field of ecological sciences, many of the evidence-based messages emanating from this scholarly field, challenge prevailing political paradigms relating to consumption, capitalism and models of unfettered economic growth.

I am delighted that research projects based in and supported by IRIS which are collaborative and interdisciplinary, recognize and engage with these kinds of uncomfortable edges. After all, not only is sustainability about constant learning and teaching, but also about learning to like being uncomfortable, because of the challenge to every day thinking that sustainability brings with it.

Dawn Bazely
Director

MEMBERSHIP

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 2012-2013:

Faculty of Fine Arts

Arlene Gould* – Graphic Design Internship Course & WGBC Summer School Course Director that is listed by Faculty of Environmental Studies
Ian Garrett – Blogging

Faculty of Liberal Arts and Professional Studies

Carla Lipsig-Mummé* – W3
David Doorey – TBGI, W3
David Szablowski – TBGI
Gabrielle Slowey* – GAPS Project
Idil Boran – COP18/UNFCCC
Nina Hewitt – 4 Solitudes
Sheila Embleton* – former VP Academic; Climate Justice
Steve Tufts – W3

Faculty of Education

Steve Alsop* – SEPN
Donald Dippo – SEPN

Faculty of Environmental Studies (FES)

Anders Sandberg – SEPN
Catriona Sandilands – Earth Hour
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
Timothy Leduc* – SEPN

Faculty of Science and Engineering

Dawn Bazely* – IRIS Director; W3; 4 Solitudes; GAPS; Climate Justice; Campus Sustainability; IRIS Speaker’s Series Committee; President’s Sustainability Council
Muhammad Yousaf – COP18/UNFCCC
Norman Yan – 4 Solitudes

Glendon

Colin Coates*
Stuart Schoenfeld*

Osgoode Hall

Peer Zumbansen – TBGI
Stepan Wood* Acting Director until June 20, 2012;
4 Solitudes; IRIS Steering Committee, PDG: Transnational Business Governance Interactions (TBGI)

Schulich School of Business

Alan Richardson – TBGI
Note, Alan moved to the University of Windsor this year.
Andrew Crane – TBGI
Burkard Eberlein – TBGI
Dirk Matten – TBGI
Irene Henriques* – 4 Solitudes; President’s Sustainability Council; W3
Kevin McKague – Sustainable Value Creation Speaker Series
Wesley Cragg – 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 2012-2013 senior fellows:

Project Partners

Eric Abitbol – PCIA Conference
Peter Middleton – Glendon Forest initiatives

Learning for a Sustainable Future

Community Partner in the SEPN Project:

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

York University

Office of the President

Andrew Plunkett – Sustainability Project Coordinator
Pavel Graymason – Sustainability Engagement Coordinator

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 (Campus Sustainability)
Nicole Arsenault* – Manager, Transportation Services, CSBO (Campus Sustainability)
Steve Glassman* – Director, Printing and Bookstore Services (Campus Sustainability)

York University Libraries

William Denton*

Post-docs

Andrea Smith – Invasive Species; 4 Solitudes
James MacLellan – 4 Solitudes; Campus Sustainability
Nicole Klenk – 4 Solitudes; Climate Justice

Schulich School of Business

Nancy Sutherland – Associate Director, Business & the Sustainability Program, Schulich School of Business and Associate Director, Centre of Excellence in Responsible Business, Schulich School of Business

York Faculty

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

York Faculty Emeritus

Bill Found
Rebecca Peterson
David Morley

York International

Carol Irving – WGBC Summer School
Larissa Strong – WGBC Summer School
Rachael Hirsh* – Climate Justice

Other

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

Junior Fellows

Junior Fellows are graduate and undergraduate students at York or another university who engage in IRIS-led or IRIS-supported projects. A student may be recognized as a Junior Fellow through 20 hours of volunteer or paid service. 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 volunteers.

The 2012-2013 Junior Fellows include:

Graduate Assistants

- Diane Whitelaw** – CCAA
- Danielle Tucker** – Master’s, Critical Disabilities Studies (Accessibility Survey)
- Prabin Sharma** – Master’s, Environmental Studies (Accessibility Survey)
- Yinuo (Yvette) Guo** – Master’s, Environmental Studies (Transportation Survey)
- Jessica Reeve** – Master’s, Environmental Studies (Events Coordinator)
- Darnel Harris** – Master’s, Environmental Studies (Events Coordinator)

Research Assistants (Graduate Students)

- David Staples** – MSc student, Science (4 Solitudes, GAPS)
- Julia Christensen** – PhD Student, McGill University (GAPS)
- Melanie Goral** – PhD Student, Science
- Paul Marmer** – MSc student, Science (GAPS)

Research at York (RAY) Students

Undergraduate Students

- Sanaz Hojati** – Undergraduate student, Biology (Digital Archiving)

Work Study Students

Undergraduate Students

- Hao Yang** – BBA, Schulich (Events Coordinator)
- Enrique Miranda** – Political Science, LAPS (Engagement Officer)
- Jennifer Evola** – Theatre student, Fine Arts (Graphic Designer)
- Bushra Noureen** – BES (Events Coordinator)
- Mitra Alizadeh** – Psychology, Health (Communications Coordinator)

Other Student Roles

- Netta Undershats** – Undergraduate student, Biology (Digital Archiving)

Interns

York-Sheridan Program in Design

- Amelia Houghton**
- Chelsea Nelson**
- Evan Winland-Gaetz**
- Jane Kim**
- Namkyeong Cho**
- Wyndym Jubis-Hameluck**

Volunteers

IRIS Executive

- Harkirat Takk*** – MBA student, Schulich (Net Impact)
- Jacqueline Medalye*** – PhD student, Liberal Arts & Professional Studies (Climate Justice, Climate Change Blog)
- Michael Long*** – PhD student, Osgoode Hall Law School
- Samantha Point*** – Bachelor of Environmental Studies

Earth Hour

- Kareem Racco** (Master of Ceremonies)

Poetry Workshop Facilitators

- Elana Santana
- Andrea McGavin
- Hannah Glow
- Anne Wordsworth

Focus on Sustainability Film Festival – Food

- Allen Kuo**
- Ecaterina Pascariu**
- Bianca Bell** – LLB student, Osgoode and Environmental Law Society (ELS) (Planning Committee)
- Bart Danko** – MES student, Environmental Studies (Planning Committee)
- Kevin Thompson** – LLB student, Osgoode/ELS (Planning Committee)
- Natalie MacDonnell** – LLB student, Osgoode/ELS (Planning Committee)

Note: Jessica Reeve, Michael Long, Mitra Alizadeh and Annette Dubreuil also served on the committee.



Moving Transportation into the 21st Century
Annual Campus Sustainability Survey:

Research Team

- Christina Persad**
- George (Yiyang) Liu**
- Anthony Dionigi**
- Yeon-Ju Heo**
- Kimisha Ghunowa**

University of Toronto Engineering Students
Electric Vehicle Charging options

- | | |
|-----------------------------|------------------------------|
| Abhijit Kambalapally | Justin Canton |
| Anqi Wu | Laura Marcela Pineros |
| Anton Blochtchinski | Olga Bondarev |
| Arash Taheri | Raad Rihani |
| Chris Shin | Risitha Tennakoon- |
| Christina Mo | Mudiyanselage |
| Guo Xiaoyang | Victor Ko |
| Huanning Wang | Yi Ji |
| James Grech | Yung-Han Yen |
| Jimmy Tieu | |

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

- Andrew Watson** – PhD Student (Former Executive Member)
- Andrew Tanentzap**



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 returned for an additional two terms (July 1, 2012 – June 30, 2014. 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).

Webmaster: Rajiv Rawat (2007-present as Webmaster; working with IRIS since 2006).

CCAA Project Coordinator: Patricia Figueiredo (2010-2013)

Green Change Programmer: Jennifer Chan (November 2012-present)

Campus Sustainability Surveys: Betty Ing (October 2012-present)

GOVERNANCE

IRIS Executive Board

As of April 30, 2013, the IRIS Executive was made up of the following board members:

<u>Name</u>	<u>Affiliation</u>	<u>Membership</u>	<u>Term</u>	<u>Since</u>
Arsenault, Nicole/ Psathas, Helen	Manager, Transportation Services, CSBO. Senior Manager, Environmental Design & 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, 2012 - June 30, 2014	2010
Dubreuil, Annette	IRIS Coordinator	Staff	N/A	2007
Embleton, Sheila	Faculty, Faculty of Liberal Arts & Professional Studies	Core Faculty	July 1, 2012 - June 30, 2014	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, 2012 - June 30, 2014	2007
Gould, Arlene	Faculty Associate, IRIS	Core Faculty	July 1, 2012 - June 30, 2014	2006

<u>Name</u>	<u>Affiliation</u>	<u>Membership</u>	<u>Term</u>	<u>Since</u>
Henriques, Irene	Faculty: Schulich School of Business	Core Faculty	July 1, 2011 - June 30, 2013	2006
Higuchi, Kaz	Faculty of Environmental Studies	Core Faculty	July 1, 2011 - June 30, 2013	2010
Hirsch, Rachael	Post-doc, Faculty of Environmental Studies	Senior Fellow	July 1, 2012 - June 30, 2014	2010
Leduc, Timothy	Faculty of Environmental Studies	Core Faculty	July 1, 2012 - June 30, 2014	2012
Lipsig-Mummé, Carla	Faculty, Faculty of Liberal Arts & Professional Studies & Director of W3	Core Faculty	July 1, 2012 - June 30, 2014	2010
Long, Michael	PhD Student, Osgoode Hall	Junior Fellow	July 1, 2012 - June 30 2013	2012
Perkins, Ellie	Faculty of Environmental Studies	Core Faculty	July 1, 2011 - June 30 2013	2010
Plunkett, Andrew/ Graymason, Pavel	Sustainability Project Coordinator/ Sustainability Engagement Coordinator, Office of the President	Senior Fellow	July 1, 2012 - June 30, 2014	2012
Point, Samantha	Green Coop Board member and BES student	Junior Fellow	July 1, 2011 - June 30, 2013	2012
Schwartzberg, Pam	Executive Director, Learning for a Sustainable Future	Staff	July 1, 2012 - June 30, 2014	2007
Slowey, Gabrielle	Faculty, Faculty of Liberal Arts and Profes- sional Studies	Core Faculty	July 1, 2011 - June 30, 2014	2012
Sutherland, Nancy	Associate Director, Business & the Sustainabil- ity Program, and of the Centre of Excellence in Responsible Business, both at Schulich	Senior Fellow	July 1, 2012 - June 30, 2014	2012
Takk, Harkirat	MBA Student, Net Impact	Junior Fellow	July 1, 2012 - June 30, 2013	2012

<u>Name</u>	<u>Affiliation</u>	<u>Membership</u>	<u>Term</u>	<u>Since</u>
Wood, Stepan	Faculty, Osgoode Hall	Core Faculty	July 1, 2011 - June 30, 2013	2004

The following Executive members finished their term during the 2012-2013 year:

<u>Name</u>	<u>Affiliation</u>	<u>Membership</u>	<u>Years Served</u>
Alsop, Steve	Faculty, Faculty of Education	Core Faculty	2006 - 2012
Medalye, Jacqueline	PhD student, Faculty of Liberal Arts and Professional Studies	Junior Fellow	2010 - 2012
Podur, Justin	Faculty, Faculty of Environmental Studies	Core Faculty	2007 - 2012
Schoenfeld, Stuart	Faculty, Glendon	Core Faculty	2004 - 2012
Vallappan, Arun	MBA Student, Net Impact	Junior Fellow	2011 - 2012



Speaker Series Committee

Dawn Bazely
Annette Dubreuil
Darnel Harris
Hao Yang

Policy Committee

Dawn Bazely
William Denton

IRIS Steering Committee

Dawn Bazely
Sheila Embleton
Helen Psathas
Annette Dubreuil
Michael Long

IRIS STATEMENT OF OPERATIONS

	<u>2012-2013</u>	<u>2011-2012</u>
Total Revenue	255,708	562,889
Internal Funding	36,709	48,274
Government Funding	211,771	509,979
Corporate/NGO/Personal Giving	7,228	4,636
Contracts	-	-
Total Expenses	352,191	417,452
Research Expenses	352,191	414,829
Supported Events at York	-	2,623
Surplus for the current year	(96,483)	145,437
Carryforward from Previous Year	314,566	463,359
Carryforward for the Next Year	218,083	608,796

IRIS ACTIVITIES FOR 2012-2013

Annual Progress in Fulfilling Mandate

- A** Submitted Funding Proposals
- B** Conferences, workshops, exhibits or other events hosted or organized
- C** Knowledge mobilization/engagement/outreach/technology transfer activities and accomplishments
- D** Facilitating faculty or student research through mentorship, development or support programs or services (eg in-house workshops, grant preparation support)
- E** Contributions to teaching (eg delivery or creation of certificate, diploma, graduate, or continuing education programs)
- F** Other research leadership activities of the unit

A

Submitted Funding Proposals

For large scale or team activities in which (A) the PI is an active member of the ORU or (B) the ORU will play a role in the project (for example as grant administrator, re- search partner, provider of space or other resources, or in some other capacity); in- dicate outcome of proposals if known; indicate peer reviewed or non-peer reviewed.

Project Name	IRIS Role	Principal Investigator	Affiliation	Amount Requested	Amount Awarded	Status	Funding Source and/or Type	Peer Reviewed
Assessing the Impact of Peace and Conflict Impact Assessments (PCIA)s: A North-South Participatory Research Project*	Research Partner/ Space	Eric Abitbol	Senior Fellow	\$59,791	\$25,519	Successful through a sub-award agreement	IDRC Small Grants	Yes
Coastal Zones of Bangladesh and Climate*	Grant Administrator	Rick Bello	Core Faculty, Geography	\$55,000	\$0	Denied	IDRC Small Grants	Yes
Creation of a Digital Archive for Wapusk National Park and Populated with Materials from La Perouse Bay*	Grant Administrator	Dawn Bazely	Director	\$6,000	\$6,000	Successful	Parks Canada, and the Churchill Northern Studies Centre	No
Winnipeg Youth Forum	Grant Administrator	Dawn Bazely	Director	\$25,000	\$24,950.	Successful	Public Health Agency of Canada	No
Lessons learned for climate change adaptation from monitoring and assessment networks in Ontario*	Grant Administrator	Dawn Bazely	Director	\$44,8650	-	Waiting	Natural Resources Canada	Yes
Protecting the West Don River at Glendon Campus - Streambank Restoration, Forest Naturalization and Engagement*	Grant Administrator	Dawn Bazely	Director	\$25,000	-	Waiting	Great Lakes Guardian Community Fund - Ministry of the Environment	No
Living with Climate Change: Mapping Experience and Adaptation in the Global South and North*	Research Institute Partner	Michaela Hynie	Core Faculty	\$197,171	-	Waiting	SSHRC Partnership Development Grant	Yes

* Assisted in Grant Preparation

B

Conferences, workshops, exhibits or other events hosted or organized

(indicate total numbers in attendance and total number of participants from outside York University, outside Ontario and outside Canada)

<u>Event Name</u>	<u>Type of Event</u>	<u>Date(s)</u>	<u>Location</u>	<u>Total Attendance</u>	<u>Non-York Attendees</u>	<u>Sponsors</u>
Greening University Campuses: A Global Perspective (Paul Rowland, AASHE)	IRIS Speaker Series	May 18, 2012	Toronto, ON	20	17	IRIS, UNESCO Reorienting Teacher Education to Address Sustainability
TBGI: Interactions in Transnational Business Governance (TBG): Assessing Impacts on Regulatory Capacity and Performance	Workshop	May 2012	Berlin, Germany	25 scholars from 8 countries	23	TBGI Project and Hertie School of Governance
From Soft to Hard Law: Exploring the Role of Transnational Business CSR Standards	Panel Session	June 2012	Law and Society Association Annual Meeting in Honolulu	20	20	TBGI Project
Research Open House – 3rd Floor York Lanes	IRIS Speaker Series	September 25,2012	Toronto, ON	30	0	IRIS, TUBMAN, CBERN, MITACS, YIHR (MCRI)
Design and Build Furniture for the Centre for Green Change	Community Workshop	October 15, 2012	Toronto, ON	30	26	IRIS, Fulbright Canada Foundation, RBC
Youth Rountable on Responsible Citizenship	Roundtable	October 15, 2012	Toronto, ON	26	20	LSF
Redefining water governance in Nairobi in times of climate change" a talk by Stephen Otieno	Speaker Series	October 18, 2012	Toronto, ON	8	1	IDRC-CCAA, IRIS
Green Development Law in Canada: New Forms of Property or the Same Old Dirt?	IRIS/ JD/MES Speaker Series	October 25, 2012	Toronto, ON	50	1	IRIS, FES, Osgoode

<u>Event Name</u>	<u>Type of Event</u>	<u>Date(s)</u>	<u>Location</u>	<u>Total Attendance</u>	<u>Non-York Attendees</u>	<u>Sponsors</u>
Are YoU a Climate Zombie?	Unconference	October 25, 2012	Toronto, ON	45	1	IRIS, CHR, Office of the President
CCAA project’s final meeting	Project Final Meeting	November 5 to 8, 2012	Nairobi, Kenya			IDRC-CCAA
Analyzing Competition, Coordination and Conflict in Transnational Business Regulation	IRIS Speaker Series	November 21, 2012	Toronto, ON	20	2	IRIS, Osgoode, Schulich
David Miller - Nations Talk. Cities Act.	IRIS Speaker Series	November 22, 2012	Toronto, ON	120	0	IRIS, Kaz Higuchi’s class
Doing Business with the Poor – Tal Delhtiar	IRIS/Sustainable Value Creation Speaker Series	January 29, 2013	Toronto, ON			IRIS, Schulich School of Business
Innovations in Education and Sustainable Development: The Uganda Rural Development and Training Program - Dr. Bryan Smith	IRIS/Sustainable Value Creation Speaker Series	January 29, 2013	Toronto, ON	30	0	IRIS, Schulich School of Business
COP-18 Debrief	Lecture/ IRIS Speaker Series	February 4, 2013	Toronto, ON			IRIS, Kaz Higuchi’s class
Innovations in Global Health and Grand Challenges Canada: Dr. Ken Simiyu	IRIS/Sustainable Value Creation Speaker Series	February 5, 2013	Toronto, ON			IRIS, Schulich School of Business
Financing Inclusive Business for Sustainable Development and Poverty Alleviation - Hany Assaad	IRIS/Sustainable Value Creation Speaker Series	February 26, 2013	Toronto, ON			IRIS, Schulich School of Business

<u>Event Name</u>	<u>Type of Event</u>	<u>Date(s)</u>	<u>Location</u>	<u>Total Attendance</u>	<u>Non-York Attendees</u>	<u>Sponsors</u>
Focus on Sustainability Film Festival: Food	Film Festival	March 1, 2013	Toronto, ON	70	15	IRIS, Osgoode Environmental Law Society, CHR, Food Services
Are YoU a Food Zombie?	Unconference	March 4, 2013	Toronto, ON	37	0	RIS, CHR, Office of the President
Transforming the Corporate Gift Market to Create Sustainable Employment and Empowerment in Poor Communities: Angie Drascovic	IRIS/Sustainable Value Creation Speaker Series	March 5, 2013	Toronto, ON			IRIS, Schulich School of Business
IRIS Research Showcase	IRIS Speaker Series	March 13, 2012	Toronto, ON	11	2	IRIS
Jobs for the Poor: Reducing Poverty through Impact Sourcing - Karim Harji	IRIS/Sustainable Value Creation Speaker Series	March 19, 2013	Toronto, ON			IRIS, Schulich School of Business
Earth Hour	Half day symposium	March 20, 2013	Toronto, ON	150	2	IRIS, CHR, McLaughlin College, Prof. Cate Sandilands
Are YoU a Water Zombie?	Unconference	March 25, 2013	Toronto, ON	15	0	IRIS, CHR, Office of the President
Learning from Failure - Ashley Good	IRIS/Sustainable Value Creation Speaker Series	March 26, 2013	Toronto, ON			IRIS, Schulich School of Business
Transnational Business Governance Interactions, Part 1: Drivers, Mechanisms, Dynamics and Outputs and Transnational Business Governance Interactions, Part 2: Outcomes and Impacts, panel sessions at International Studies Association Annual Meeting	Conference Panels	April 4, 2013	San Francisco, CA	11 presenters from 4 countries plus audience of approx. 50	48	TBGI Project
Annual General Meeting and Potluck	AGM and Social Event	April 30, 2013	Toronto, ON	70	15	IRIS, Osgoode Environmental Law Society, CHR, Food Services



C Knowledge mobilization/engagement/outreach/technology transfer activities and accomplishments:

- 1 Our article in *Environmental Reviews*, “Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world” is currently on the Top 5 Most Read list of the month for the journal.
- 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 Ian Garrett.
- 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:
 - i Hosted two events with Kaz Higuchi’s FES classes: the David Miller event and COP 18 Debrief.
 - ii Hosted the Sustainable Value Creation Speaker Series with Kevin McKague from Schulich. This series included 7 lecturers from practitioners working in the Global South. The course associated with this series, MGMT 6500, is cross-listed by both the Centre of Excellence in Responsible Business and the Nonprofit Management Leadership specializations at the Schulich School of Business.
 - iii Hosted three unconferences with the Centre for Human Rights and the Sustainability Coordinators. The topics for the unconferences held: Climate Change, Food, Water.



- 5 Continued to disseminate the findings from previous Campus Sustainability Surveys on Food and Waste.
- 6 Working with CSBO, conducted the 2012-2013 Campus Sustainability Survey “Moving Transportation into the 21st Century”
- 7 Using funding from the RBC-Fulbright Canada Eco-Leadership Award (S. Wood) we co-hosted public workshops in Fall, 2012, on sustainable furniture design and construction in partnership with the Jane-Finch Centre for Green Change initiative. We then did a field trip to Professor Emeritus David Wood’s farm to select the wood to create a harvest table, which will be built on May 1, 2013.
- 8 We were featured in a TFO segment on plastic bag ban in Toronto. “Les sacs en plastique seront interdits à Toronto à partir du 1er janvier 2013. Quel en sera l’impact sur les habitudes des consommateurs?” See <http://www1.tfo.org/360/video/l-interdiction-des-sacs-en-plastique-a-toronto>



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

- 1 Grant Preparation – see section a
- 2 Mentorship – 4 GAs and 6 Work Study or RAY students
- 3 Coordinated 2 professors, Idil Boran and Mohammad Yousaf, to attend COP18 in Doha, Qatar
- 4 In-kind organizational support via provision of space to Learning for a Sustainable Future (national charity) and Regenesys @ York (student club)

E Contributions to teaching (eg delivery or creation of certificate, diploma, graduate, or continuing education programs)

- 1 Continue to support the Green Building Course led by Arlene Gould
- 2 LSF continues to deliver the Sustainability and Education Academy with the Faculty of Education and the UNESCO Chair in Reorienting Teacher Education.

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

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

OBJECTIVES FOR UPCOMING YEAR

1 Funding proposals anticipated for submission by April 30, 2014 by active members of the ORU:

- 1 Increase the total number and value (ie. total funds requested) of funding applications submitted through IRIS compared to the past year
- 2 Submit at least one major (\$500,000 or more) funding application through IRIS.

2 Conferences, workshops, exhibits and other events to be hosted or organized by April 30, 2014 and target audience:

- 1 Transnational Business Governance Interactions Project (PI: Stepan Wood): host a major, two-day international academic workshop on transnational business governance inter-actions at York University (target audience: invited researchers, interested York faculty and students). Organize TBGI panel session, Law and Society Association, Boston, May 2013.
- 2 Continue to host 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)
- 3 Host the third annual IRIS Research Showcase Celebration event to showcase IRIS's innovative, interdisciplinary, collaborative research efforts (target audience: interested students and faculty from York and beyond) (target audience: interested students and faculty from York and beyond)
- 4 IRIS Speaker Series: host between 6-10 events, e.g. book launches, film screenings and panel discussions. (target audience: entire York community)



- 5 Continue to host the Unconferences jointly with the Centre for Human Rights and Office of the President sustainability staff (target audience: entire York community)
- 6 Host 3rd 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)
- 7 Host 5th annual Earth Hour event - in partnership with local environmental sustainability and social justice clubs and organizations on campus (target audience: York students)
- 8 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)
- 9 Open House at the Centre for Green Change to launch the harvest table on the Fulbright grant. Part of the celebration for the Centre for Green Change. (target audience: Jane and Finch community, York community)

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

- 1 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.
- 2 Double the number of IRIS blog postings
- 3 Continue to advocate for enhanced campus sustainability by engaging with the University administration and the York community at large
- 4 Continue to disseminate the findings from our previous Campus Sustainability Surveys on Food, Waste and Engagement, Accessibility and Transportation.
- 5 Release and publicize the report of the Campus Sustainability Surveys on Engagement, Accessibility and Transportation.
- 6 Conduct the 2013-2014 Campus Sustainability Survey, on a topic to be determined.
- 7 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.
- 8 Continue to use the IRIS Certificate of Participation and an IRIS Certificate of Engagement, to encourage student participation in IRIS sustainability initiatives and research.
- 9 Co-host the harvest table finishing workshops in May, 2013, in partnership with the Jane-Finch Centre for Green Change initiative, in the context of S. Wood's RBC-Fulbright Canada Eco-Leadership Award and E. Perkins SSHRC grant.
- 10 Participate in the Canadian Society for Ecological Economics (CANSEE) which is to be held at York, November 1-2, 2013.

4 Visitors invited or anticipated:

- 1 Host 2 visitors over the course of the year

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

- 1 Continue to fund IRIS members to attend conferences and other events of significant importance, e.g. the climate change conferences (COPs).
- 2 Increase the funds available to sponsor student participation in conferences and support sustainability events at York University.
- 3 Continue to support IRIS members with preparation of grant applications.

6 Contributions to Teaching:

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

7 Institution building and administration:

- 1 Expand the IRIS membership, including students, staff, faculty, and community members
- 2 Increase the number of Faculties represented on the IRIS Executive Board
- 3 Develop policies or guidelines to manage the relationship between IRIS and IRIS-affiliated research projects, including funding applications, grant administration, conflict resolution, and recognition of IRIS's support for affiliated researchers and organizations.
- 4 Increase efforts to secure more financial support for administrative and overhead costs

APPENDIX 1

Additional Information about Progress in Fulfilling Mandate

Broadly, IRIS's activities in 2012-2013 can be divided between, academic research projects (limited-term) and innovative engagement programs (ongoing).

Academic Research Projects

During 2012-2013, IRIS housed and led numerous limited-term (1-5 years) academic research projects, including: Community-based environmental education and mobilization in marginalized urban communities for equitable watershed governance, Churchill Community of Knowledge, SEPN: The Sustainability and Education Policy Network Transnational Business Governance Interactions; Climate Change Adaptation in Africa; 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.

Community-Based Environmental Education and Mobilization in Marginalized Urban Communities for Equitable Watershed Governance

This project will utilize existing university-community partnerships to develop, test, improve and disseminate arts- and science-base methods and materials for increasing democratic watershed management and civic engagement amongst adults and senior citizens in marginalized communities in Canada. The project will employ a participatory methodology focusing on urban watershed issues and challenges as identified by community members. Expected policy outcomes include the potential for improved environmental governance through increased participation by civil society; greater knowledge and understanding of practical ways to meet the challenge of public ignorance and apathy about the importance of watershed governance; contributions to community cohesiveness and resilience, confidence, and leadership in marginalized communities; and tested, practical strategies for advancing sustainable development in Canada.

In 2012-2013 the project's programming was developed and a pop-up space was created at 2999 Jane Street with the Jane/Finch Community and Family Centre while the permanent home for the programming, the Centre for Green Change is under construction. The pop-up space has already run some workshops, including furniture restoration that are connected to the Sustainable Furniture Project; the wood for the harvest table was cleaned and prepared by youth participating in the pop-up workshops. Additionally, on November 30th, community consultations with local NGOs on how the programming could better serve community partners and residents.

The Churchill Community of Knowledge

An online resource of data and media about the Town of Churchill, its people, Wapusk National Park, and the extensive research supported by the Churchill Northern Studies Centre. This Digital Archive is hosted by the Yorkspace Institutional Repository, York University, Toronto. The first collection in the project celebrates the life and work of Professor Bob Jefferies, who carried out field research in ecology in and near Churchill, for 30 years. In 2012-2013 the archive continued to be populated, and was launched at the Annual IRIS Research Showcase on March 13, 2013.

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.

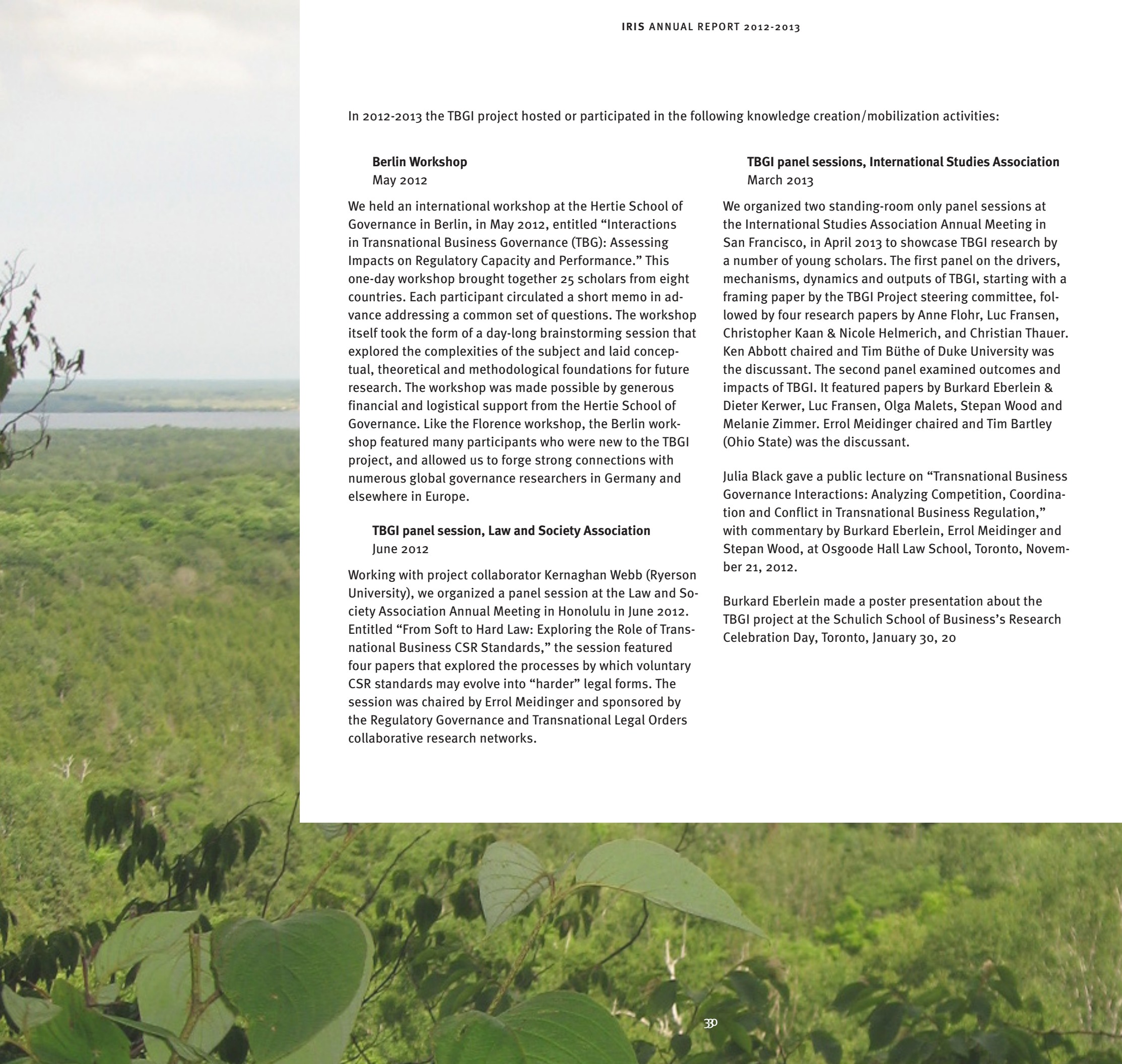
As concern with environmental issues expands across Canadian society, environmental sustainability policy and practice in education has remained largely unexplored. Growing numbers of provincial Ministries of Education as well as university administrations are engaging with sustainability issues, which 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 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.

In 2012-2013 SEPN had four Graduate Assistants associated with the project: Masters students Andrea McGavin, Hannah Glow, Sinead Rafferty, as well as PhD student Ana Martinez.



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?

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.

In 2012-2013 the TBGI project hosted or participated in the following knowledge creation/mobilization activities:

Berlin Workshop
May 2012

We held an international workshop at the Hertie School of Governance in Berlin, in May 2012, entitled “Interactions in Transnational Business Governance (TBG): Assessing Impacts on Regulatory Capacity and Performance.” This one-day workshop brought together 25 scholars from eight countries. Each participant circulated a short memo in advance addressing a common set of questions. The workshop itself took the form of a day-long brainstorming session that explored the complexities of the subject and laid conceptual, theoretical and methodological foundations for future research. The workshop was made possible by generous financial and logistical support from the Hertie School of Governance. Like the Florence workshop, the Berlin workshop featured many participants who were new to the TBGI project, and allowed us to forge strong connections with numerous global governance researchers in Germany and elsewhere in Europe.

TBGI panel session, Law and Society Association
June 2012

Working with project collaborator Kernaghan Webb (Ryerson University), we organized a panel session at the Law and Society Association Annual Meeting in Honolulu in June 2012. Entitled “From Soft to Hard Law: Exploring the Role of Transnational Business CSR Standards,” the session featured four papers that explored the processes by which voluntary CSR standards may evolve into “harder” legal forms. The session was chaired by Errol Meidinger and sponsored by the Regulatory Governance and Transnational Legal Orders collaborative research networks.

TBGI panel sessions, International Studies Association
March 2013

We organized two standing-room only panel sessions at the International Studies Association Annual Meeting in San Francisco, in April 2013 to showcase TBGI research by a number of young scholars. The first panel on the drivers, mechanisms, dynamics and outputs of TBGI, starting with a framing paper by the TBGI Project steering committee, followed by four research papers by Anne Flohr, Luc Fransen, Christopher Kaan & Nicole Helmerich, and Christian Thauer. Ken Abbott chaired and Tim Büthe of Duke University was the discussant. The second panel examined outcomes and impacts of TBGI. It featured papers by Burkard Eberlein & Dieter Kerwer, Luc Fransen, Olga Malets, Stepan Wood and Melanie Zimmer. Errol Meidinger chaired and Tim Bartley (Ohio State) was the discussant.

Julia Black gave a public lecture on “Transnational Business Governance Interactions: Analyzing Competition, Coordination and Conflict in Transnational Business Regulation,” with commentary by Burkard Eberlein, Errol Meidinger and Stepan Wood, at Osgoode Hall Law School, Toronto, November 21, 2012.

Burkard Eberlein made a poster presentation about the TBGI project at the Schulich School of Business’s Research Celebration Day, Toronto, January 30, 2013.

In addition, the TBGI project produced or worked on the following publications during the 2012-13 reporting year

We published eleven papers in the TBGI Project Sub-Series of the respected Osgoode Hall Law School/Comparative Law and Political Economy Research Paper Series on the Social Sciences Research Network (SSRN):

Leonhard Dobusch & Sigrid Quack, “Transnational Copy-right: Misalignments between Regulation, Business Models and User Practice,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 13/2012, TBGI Project Subseries No. 1, available at <http://ssrn.com/abstract=2116334>.

Luc Fransen, “The Embeddness of Responsible Business Practice: National Institutional Environments and Corporate Social Responsibility,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 14/2012, TBGI Project Subseries No. 2, available at <http://ssrn.com/abstract=2116337>.

Graeme Auld & Jessica Green, “Unbundling the Regime Complex: The Effects of Private Authority,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 15/2012, TBGI Project Subseries No. 3, available at <http://ssrn.com/abstract=2116296> (earlier version presented at May 2011 Florence workshop).

Christine Overdevest & Jonathan Zeitlin, “Assembling an experimentalist regime: Transnational governance interactions in the forest sector,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 16/2012, TBGI Project Subseries No. 4, available at <http://ssrn.com/abstract=2116339> (earlier version presented at May 2011 Florence workshop).

Andrew S. Walker, “Process vs. Performance Standards for Sustainable Meeting and Event Management,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 17/2012, TBGI Project Subseries No. 5, available at <http://ssrn.com/abstract=2116342>.

Virginia Haufler, “Transnational Business Governance and the Management of Natural Resources,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 18/2012, TBGI Project Subseries No. 6, available at <http://ssrn.com/abstract=2143388>.

Tony Porter, “Transnational Business Governance Interactions and Technical Systems in Global Finance,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 19/2012, TBGI Project Subseries No. 7, available at <http://ssrn.com/abstract=2143678> (earlier version presented at May 2011 Florence workshop).

Fabrizio Cafaggi, “The Architecture of Transnational Private Regulation,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 20/2012, TBGI Project Subseries No. 8, available at <http://ssrn.com/abstract=2144407> (earlier version presented at May 2011 Florence workshop).

Kernaghan Webb, “ISO 26000: Bridging the Public/Private Divide in Transnational Business Governance Interactions,” Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 21/2012, TBGI Project Subseries No. 9, available at <http://ssrn.com/abstract=2144420> (Earlier version presented at May 2011 Florence workshop).

Graeme Auld. Emerging Private Governance: The Challenges of Choosing a Policy Focus. Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 39/2012, TBGI Project Subseries No. 10, available at <http://ssrn.com/abstract=2174016>

Burkard Eberlein, Kenneth Abbott, Julia Black, Errol Meidinger and Stepan Wood. Transnational Business Governance Interactions: Conceptualization and Framework for Analysis. Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 29/2012, TBGI Project Subseries No. 11; SUNY Buffalo Legal Studies Research Paper No. 2013-017; available at <http://ssrn.com/abstract=2152720>.

A TBGI-themed Special Issue of the peer-reviewed journal *Regulation & Governance*, forthcoming in 2013, including: Burkard Eberlein, Kenneth Abbott, Julia Black, Errol Meidinger and Stepan Wood, “Transnational Business Governance Interactions: Conceptualization and Framework for Analysis;” Christine Overdevest and Jonathan Zeitlin, “Assembling an experimentalist regime: Transnational governance interactions in the forest sector”; Benjamin Cashore and Michael W. Stone, “Does California Need Delaware? Revisiting Vogel’s ‘Trading-up’ Hypothesis through the case of legality verification”; Lars Gulbrandsen, “Dynamic Governance Interactions: Evolutionary effects of state responses to non-state certification programs”; Tim Bartley, “Commentary: Legality, Sustainability, and the Future of Transnational Forest Governance”; Tony Porter, “Technical Systems and the Architecture of Transnational Business Governance Interactions”; and Graeme Auld, “Emerging Private Governance: The Challenges of Choosing a Policy Focus.” Earlier versions of most of these pieces were first presented at a TBGI project workshop at the European University Institute in Florence, Italy, in May 2011.

A peer-reviewed collection of other papers presented at the May 2011 Florence workshop, tentatively planned for publication with Hart Publishing, including John Biggins & Colin Scott, “Extending and Contracting Jurisdictions in a Transnational Private Regulatory Regime: Efficiency, Legitimacy, ISDA and the OTC Derivatives Markets;” Fabrizio Cafaggi, “The Architecture of Transnational Private Regulation”; David Doorey, “A System of Transnational Business Interactions: The Case of the Living Wage”; David Szablowski, “Mimetic diffusion and the potential for interlocking regulation: the IFC performance standards and the extractive industries”; Kernaghan Webb, “ISO 26000: Bridging the Public/Private Divide in Transnational Business Governance Interactions”; Stepan Wood, “Uneasy Alliances in Transnational Business Governance: ISO, the ILO and the Making of ISO 26000”; Virginia Haufler, “Transnational Business Governance and the Management of Conflict Minerals”; and an introduction by Stepan Wood, Ken Abbott, Julia Black, Fabrizio Cafaggi, Burkard Eberlein and Errol Meidinger.



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 are some of the “Strengthening the role of civil society in water sector governance towards climate change adaptation in African Cities – Durban, Maputo, and Nairobi,” Project and Professor Patricia E. Perkins’s Contributions to IRIS for 2012-2013:

On Thursday, October 18, 2012 Stephen Otieno (MA candidate at the University of Nairobi, CIGI Scholar, and Visiting Scholar at FES) gave a talk titled "Redefining water governance in Nairobi in times of climate change". This presentation was jointly hosted by the project and IRIS.

The project’s final meeting was held in Nairobi, Kenya from November 5 to 8, 2012. In both formal presentations and informal conversations, partners shared information and compared situations and views. We reported to each other on the project's challenges and successes, made plans for further dissemination of the project's results. Partners from Maputo and Durban were able to visit the sites where the Nairobi team has been working, in Kibera and Huruma, and speak with local people, officials, and students about climate change, sanitation and water governance. Please click on the following link to access the meeting’s complete report: <http://ccaa.iris.yorku.ca/wp-content/uploads/ccaa/2013/04/Final-Meeting-Report-09-Apr-13-small.pdf>

Major Research Papers: “Some, for all, forever – A Case Study of Participation in Water Management in South Africa’s Umgeni River Catchment” by Elizabeth Lorimer (Doctoral dissertation, Faculty of Environmental Studies in partial fulfillment of the requirements for the degree of Master in Environmental Studies, York University) and; “Responding to Water Insecurity in Durban, South Africa” by Alexander Todd (Doctoral dissertation, Faculty of Environmental Studies in partial fulfillment of the requirements for the degree of Master in Environmental Studies, York University). Both available at: http://ccaa.iris.yorku.ca/?page_id=799

On April 12, 2013 Prof. Patricia E. Perkins presented a paper entitled “Women, Watershed Governance, and Climate Change” (co-authored by Patricia Figueiredo Walker) at the Association of American Geographers (AAG) Annual Meeting in Los Angeles

On April 14, 2013 Routledge published Water and Climate Change in Africa: Challenges and community initiatives in Durban, Maputo and Nairobi, a book edited by Prof. Patricia E. Perkins, containing chapters by project partners. For more information and to purchase the book, please click on the following link: <http://www.routledge.com/books/details/9780415822039/>

Chapters in Books

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.

2012. “Climate justice partnership linking universities and community organizations in Toronto, Durban, Maputo, and Nairobi,” co-authored with Ana Louise Tavares Leary (second author). In Sustainable Development at Universities: New Horizons, edited by Walter Leal.

Articles in Refereed Journals

“Urban water management in Africa in times of climate change: the importance of equitable public engagement,” co-authored with Mary Galvin, Elias Manjate, Simphiwe Nojiyeza, Elizabeth Lorimer, Stephen Otieno, Nilza Matavel, and Romanus Opiyo, Water vol. 5 no. 1, special issue on Ecological Watershed Management, submitted for review May 2013. (Submitted for review)

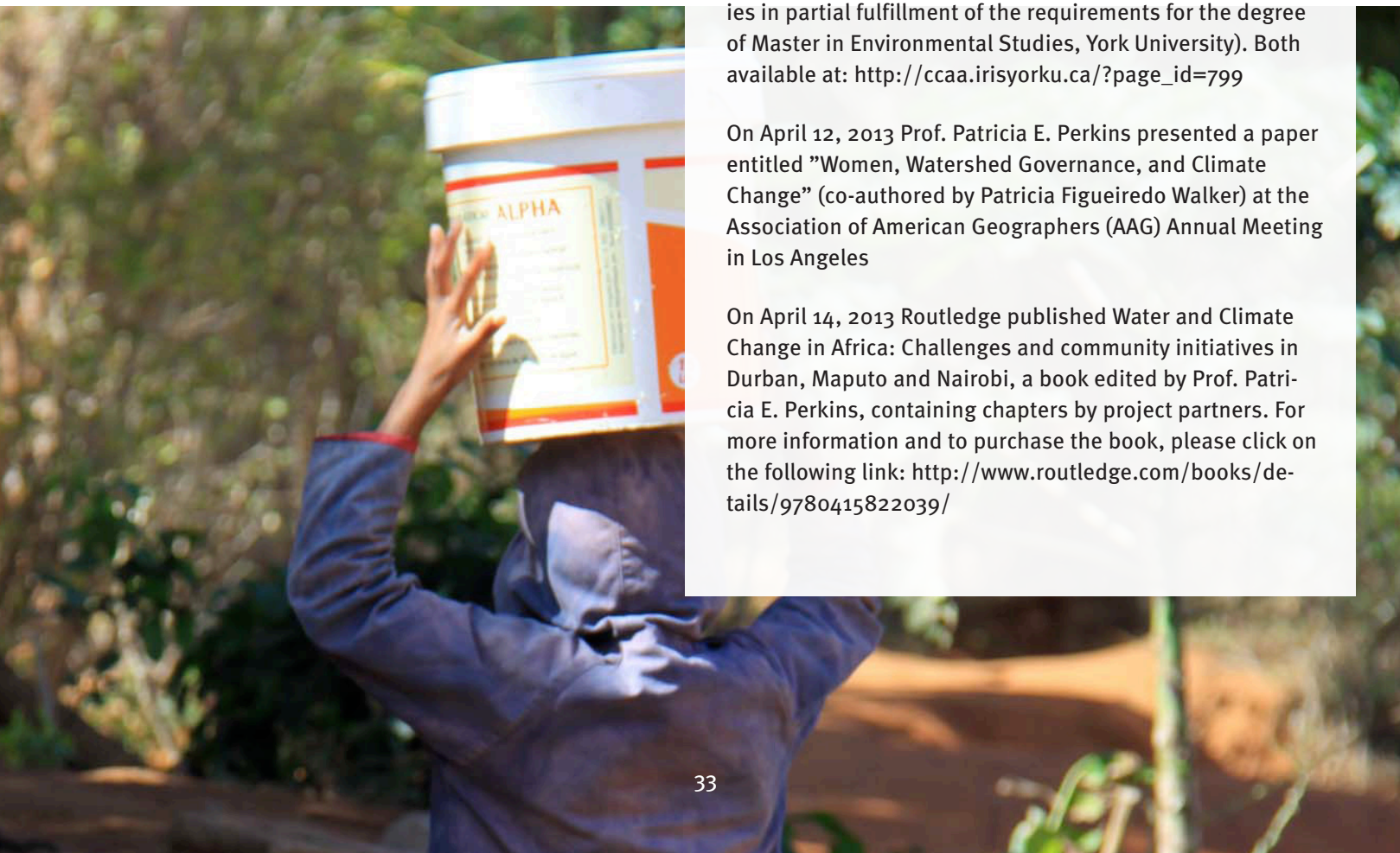
“Women and water management in times of climate change,” co-authored with Patricia Figueiredo, in the Journal of Cleaner Production special issue on Women, Water, Waste, Wisdom, and Wealth, accepted February 18, 2012. (Forthcoming)

Papers Presented at Conferences

“Climate justice partnership linking universities and community organizations in Toronto, Durban, Maputo and Nairobi” by Patricia E. Perkins and Ana Louise Tavares Leary, presented by Ana Leary at the Symposium on Sustainable Development at Universities (WEED-U 2012), Rio de Janeiro, Brazil, June 5-6, 2012.

“Climate justice, redistribution, and ecological economics,” presented at the International Society for Ecological Economics (ISEE) conference, Rio de Janeiro, Brazil, June 16-19, 2012.

“Women, watershed governance, and climate change,” paper presented at the Association of American Geographers conference, panel on Feminist Political Ecology of Watersheds, April 9-13, 2013 Los Angeles, California.



**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, three of the knowledge synthesis reports has been accepted or published:

Taking stock of the assisted migration debate. Biological Conservation 144: 2560-2572.

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.

Second generation biofuels and bioinvasions: An evaluation of invasive risks and policy responses in the United States and Canada. Renewable and Sustainable Energy Reviews (in preparation for resubmission).

The Environmental Review article, in addition to being widely published in the Canadian media last year, is currently on the Top 5 Most Read list of the month.

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



Innovative Engagement Initiatives

During 2012-2013, IRIS sought to innovatively engage the public through a variety of initiatives, including: launching a series of Unconferences, leading a delegation to the 18th Conference of the Parties of the United Nations Framework Convention on Climate Change; running several campus sustainability initiatives at York University, including the 4th Annual Earth Hour event, and 2nd 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.

Unconferences: Are You a Climate/Water/Food Zombie?

This year the President’s Sustainability Council’s Social Justice and Human Rights Working Group’s members collaborated to host three Unconferences at York. Together with IRIS, the Centre for Human Rights and Office of the President sustainability staff hosted “Are YoU a Climate Zombie? How can we walk together” on October 25, “Are YoU a Food Zombie? How do we make better choices?” on March 4th, and “Are YoU a Water Zombie? How can we be water wise?” on March 25th. An unconference uses ‘open space technology’ to host a conference that allows participants to determine the agenda themselves at the start of the day within the scope of a particular topic. So YoU set the agenda! The purpose of the unconferences was to create a forum for students, staff, and faculty to have open conversations around social justice, human rights, and sustainability related to climate change, food and water issues. The end goal was to create opportunities to work together in order to take action both personally and here at York University.

**Community-Designed Sustainable Furniture For
The Centre For Green Change**

In December 2011, IRIS Acting Director Stepan Wood was awarded a Fulbright Canada Eco-Leadership Grant. Working with the Centre for Green Change, this grassroots community-university project is designing and building 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 ethnoracially diverse and marginalized communities. The Centre’s furniture is being 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 are both furnishing the new Centre and acquiring valuable skills.

During 2012-2013 the project held a community workshop on October 15 to brainstorm ideas on what furniture should be built for the new Centre for Green Change. From these ideas, the idea of building a harvest table for the Centre was born. Outreach to community members resulted in designer Lubo Brezina and refurbisher Emanuel Calleja from Old-Fashioned Restoration who agreed to design and finish the table with Jane/Finch community members. The wood for the table was donated by Professor Emeritus David Wood (Atkinson/LA&PS) from 120+ year-old lumber on his Simcoe County farm. The wood was cleaned and restored during Centre for Green Change pop-up workshops in February and March 2013. The table will be built by members of the Jane-Finch and York communities in the Faculty of Fine Arts’ carpentry workshop on May 1, 2013.



Idil Boran

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 2012-2013, the following climate justice initiatives were held:

Are YoU a Climate Zombie? — Unconference

October 25, 2012

COP 18 Conference

*attended by Idil Boran and Mohammad Yousaf
November 26 – December 8

COP 18 Debrief

February 4, 2013

UNFCCC COP18

Two York professors attended the United Nations Climate Change Conference in Doha, Qatar as non-voting delegates with observer status: Idil Boran, a philosophy professor in LA&PS, and Mohammad Yousaf, a chemistry professor in Science. Professor Boran found her recent experience at COP18 in Doha, Qatar, illuminating and informative. “I place real value in backing theory with practice,” she says. Attending the 18th Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC) allowed Boran to witness negotiations in real time, thanks to IRIS, which secured accredited spots. “I thought it would be really important for a philosopher to see the actual conference where the deliberations between sovereign states take place.” She returned with so much more useful information than she ever expected and is now determined to share it with other researchers at the University and beyond. “I would like to think ahead to what the research community could do with it.”

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, campus engagement, accessibility, and transportation. 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. Since 2010, the surveys have been funded by the Vice-President Finance and Administration, and we have worked closely with Campus Services and Business Operations in determining the survey theme. During 2012-2013, the selected theme was “Moving Transportation into the 21st Century”.

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 2013.

Campus Accessibility

IRIS, in consultation with York Access has conducted the fifth annual campus sustainability survey. The 2011-2012 survey's topic was on Campus Accessibility and the survey looked to identify accessibility issues at York. York University is committed to principles of respect, inclusion and equality of all persons with disabilities across campus. The Accessibility for Ontarians with Disabilities Act (AODA) issued by the Ontario government aims to make Ontario fully accessible to persons with disabilities by 2025 and this survey will help prepare York University for the new law. Because of the age of buildings and the size of the University, the work to reduce barriers and increase accessibility is expected to take place over several years. By completing the anonymous survey, York students, staff and faculty helped identify needs and priorities. The collected information will help shape plans and identify concerns, reduce barriers and increase accessibility at York University. A final report for the University will also be prepared by IRIS, and it will be available in the summer of 2013.

Transportation

During 2012-2013, IRIS’s survey theme was “Moving Transportation into the 21st Century”. York University is one of the greenest universities in Canada. In a continuous effort to promote more sustainable transportation and a cleaner environment, the University is investigating the interest in electric vehicle (EV) ownership. This will assist in planning for providing electrical vehicles charging stations. The survey also sought input in planning for other transportation initiatives, including the Yonge-University-Spadina subway expansion to York, parking, as well as assist in building a carpooling culture and improving cycling infrastructure. In addition to conducting a survey, IRIS worked with first year engineering students from the University of Toronto on some designs of possible installations of electric vehicles at York. These ideas will help inform the report of the survey results, which will be available in the summer of 2013.



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.

Design for Sustainability Workshop course, Summer 2012

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.

In June, 2012, the Design for Sustainability workshop course was held for the fourth consecutive year. The workshop, under the direction of part-time faculty member and IRIS Executive Board member, Arlene Gould, is an intensive full-credit course that brings together students from various disciplines to explore the art and science of sustainable building and strategies for sustainable community development. The course was founded in 2009 by IRIS and York University in collaboration with the World Green Building Council. It is hosted by the Faculty of Environmental Studies, and IRIS Director Dawn Bazely is part of the teaching team.

The hands-on workshop format gives students the opportunity to collaborate in small groups and to practice the use of design methodologies and tools for visioning, scenario building, stakeholder engagement and environmental assessment. Ontario green building experts present guest lectures and lead field trips. The course culminates with a one-day design charrette. In 2012, the course engaged the Jane /Finch community and the Centre for Green Change in a charrette for the students, tower residents, the City's Tower Renewal team and local experts. The event brought 60 people together at the San Romanoway community centre for a day of knowledge sharing and collaborative brainstorming.

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 2½ 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 7th SEdA seminar was held in June in Regina Saskatchewan in partnership with the UNESCO Chair in Reorienting Teaching for sustainable development and the Faculty of Education at York University.

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 2013, IRIS and Planet in Focus with the Osgoode Environmental Law society and Climate Consortium for Research Action Integration (CC-RAI) presented the second annual Focus on Sustainability Film Festival. The 2013 theme was food and was held March 1st at the Nat Taylor Cinema, Keele Campus. This entertaining and educating experience featured domestic and foreign documentaries, a panel discussion with filmmakers, a lawyer, and activists, as well as prizes provided by host of restaurants in Toronto. The films screened during the inaugural event were Bitter Seeds, Love Meat Ender, Urban Roots, Teo in Toronto, and Sushi: The Global Catch.

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 4th Annual Earth Hour Event in collaboration with human rights and environmental groups. It was held on Wednesday, March 20th at Michelangelo's Restaurant. Presenters included the York's Director of Energy, Brad Cochrane and Rob Shirkey, Executive Director of Our Horizon. A sustainability clubs fair was also held, as was a lantern-making workshop. This was a free event, with dinner provided. The evening ended with live acoustic music and smores!

In addition, this year a poetry workshop was held. "Poetic Energy: Writing in a Warming World" was a poetry writing workshop in which participants were asked to reflect on the role of reading and writing poetry in environmental activism, particularly dealing with issues of climate change, social justice, and sustainability. The Poetry Workshop was delivered by grad students under the direction of Prof. Cate Sandilands.

This year's Earth Hour partners included the Centre for Human Rights, Regenesi @ York, BESSA – Bachelor of Environmental Studies Student Association, McLaughlin College, and the President's Sustainability Council Student Sub-Committee.



2012/2013 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 2012-2013 academic year, IRIS hosted speakers on a broad range of sustainability issues. 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:

Greening University Campuses: A Global Perspective (Paul Rowland, AASHE) – On May 18, 2012, Paul Rowland, executive director of the Association for the Advancement of Sustainability in Higher Education (AASHE), discussed making universities green at the Institute for Research & Innovation in Sustainability (IRIS) speakers' series.

Research Open House – 3rd Floor York Lanes. On September 25, 2012, IRIS along with the projects and groups on the 3rd Floor of York Lanes host an open house. Guest Lecture by Michael Johnny from the Knowledge Mobilization Unit.

David Miller: Nations Talk. Cities Act. – On November 22, 2012, IRIS hosted former city of Toronto mayor David Miller who spoke on the challenges facing cities today, and the steps he took to combat this while he was mayor. The presentation had a specific focus on Toronto city plans and how they are driving action on combatting climate change. View David Miller's presentation.

Transnational Business Governance Interactions (TBGI): Analyzing Competition, Coordination and Conflict in Transnational Business Regulation – On Wednesday, November 21, 2012, Julia Black, Professor of Law at the London

School of Economics and Political Science spoke about TBGIs. The interdisciplinary TBGI Project, co-led by Stepan Wood (Osgoode), is housed by IRIS.

Green Development Law in Canada: New Forms of Property or the Same Old Dirt? - On October 25, 2012, Professor Deborah Curran, Hakai Professor in Environmental Law and Sustainability at the University of Victoria spoke about green development case studies, focusing on the legal innovations and burdens that sustainable development offers for both the public interest and private property. The talk was hosted by JD/MES Joint Program Coordinators.

COP 18 Debrief – On February 4, 2013, Idil Boran, Philosophy professor from FES gave a debriefing on her experience at COP 18 in Doha, Qatar.

IRIS Research Showcase – On March 13, 2013 IRIS held its 2nd Annual Research Showcase. The focus was on the Churchill Communities of Knowledge, an online resource of data and media about the Town of Churchill and its people. The Showcase featured the Churchill Communities of Knowledge: Mobilizing Ecological Knowledge through Yorkspace, our Open Access Institutional Repository panel.

Mayor David Miller: Nations Talk, Cities Act. 2012

Sustainable Value Creation Speaker Series

This joint Speaker Series was organized by IRIS and Schulich Course Director Dr. Kevin McKague and his MGMT 6500 Sustainable Value Creation course (Business Model Innovation for Poverty Alleviation), which is cross-listed by both the Centre of Excellence in Responsible Business and the Nonprofit Management Leadership specializations at the Schulich School of Business.

The 2013 series included seven lectures:

January 15th	Doing Business with the Poor Guest Speaker: Tal Dehtiar, Founder and CEO, Oliberté and one of Fast Company’s Most Creative Business People of the Year.
January 29th	Innovations in Education and Sustainable Development: The Uganda Rural Development and Training Program Guest Speaker: Dr. Bryan Smith, President, Broad Reach Innovations Inc. and advisor, URDT.
February 5th	Innovations in Global Health and Grand Challenges Canada Guest Speaker: Dr. Ken Simiyu, Program Officer, Grand Challenges Canada
February 26th	Financing Inclusive Business for Sustainable Development and Poverty Alleviation Guest Speaker: Hany Assaad, Co-founder Avanz Capital.
March 5th	Transforming the Corporate Gift Market to Create Sustainable Employment and Empowerment in Poor Communities Guest Speaker: Angie Drascovic, Founder and CEO Zoë Alliance.
March 19th	Jobs for the Poor: Reducing Poverty through Impact Sourcing Guest Speaker: Karim Harji on Impact Sourcing, Co-Founder Venture Deli, Co-Founder of SocialFinance. ca and Social Entrepreneurship Mentor and Instructor
March 26th	Learning from Failure Guest Speaker: Ashley Good, Engineers without Borders and Founder Admitting Failure

Supported Events

During 2012-13 IRIS participated in the following events:

The RBC Collaborating for Impact Conference – February 1, 2013: Organized by the Nonprofit Management Association, Core Faculty Ellie Perkins and project partner Clara Stewart-Robertson (Jane/Finch Community and Family Centre) were part of a panel on “Collaboration at a Local Level: Creating change in our Communities”, which was moderated by IRIS Coordinator Annette Dubreuil

Glendon Roots and Shoots Eco-Conference – March 22, 2013: IRIS Coordinator Annette Dubreuil presented about IRIS’ Campus Sustainability Surveys



University Service

IRIS participated on the following University bodies:

President’s Sustainability Council (PSC) was created in 2008 by President Shoukri with broad representation from across the University to provide input on how to address sustainability issues on a pan-University level. IRIS has a seat at the Council and contributes to provide critical input. Dawn Bazely and Annette Dubreuil shared a seat on this committee in 2012-2013.

Council of Research Directors (CRD) is a forum for the discussion of operational and support issues with respect to the smooth functioning and development of ORUs. Further, the CRD also provides an opportunity for the VPRI to seek the advice of ORU directors as a group with respect to the strategic development of research at York.

In-Kind Organizational Support

IRIS provides 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 2012-2013 LSF continued to expand its programs for elementary and secondary students to take action. The Resources for Rethinking database continues to grow and house more exemplary classroom resources that are thoroughly reviewed to meet the highest sustainability and pedagogy principles. In 2012 LSF added the review of Children’s Literature resources for Kindergarten through grade 5. During 2012-2013 IRIS worked with LSF to secure a grant of \$25,000 from the Public Health Agency of Canada to support an EcoLeague Youth Forum in Winnipeg. IRIS also supported LSF with a letter of support from the successful Enterprising Non-Profits Toronto grant that LSF received to conduct market research to expand their professional development services. LSF’s Executive Director, Pamela Schwartzberg, sits on the Board of the Sustainability and Education Policy Network (SEPN), for which IRIS houses the York University portion of that SSHRC Partnership Grant funded project, which is led out of the University of Saskatchewan. Finally, IRIS Core Faculty member Norm Yan is working with LSF on an invasive species project, which resulted from discussions at this year’s 3rd Floor York Lanes Open House. 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. Originally, Regenesis@York had four core projects areas: Farmers Market, Cycling Advocacy and Infrastructure, Future of Our Forest and an Environmental Education Initiative. Since then, Regenesis@York’s activities have expanded to include developing the following initiatives: World Garden (Urban Agriculture), York Community & Sustainability Projects Fund, York Community Kitchen, Community Arts Gallery, York U Free Store, Free bike share network, Glendon Greenhouse, Glendon Outdoor Ice Rink.

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 remains current and a user-friendly resources. 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 and Fine Arts Professor Ian Garrett. 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](https://twitter.com/iris_yorku)) for social media purposes. We continue our monthly newsletter, highlighting key news items and upcoming events. Finally, this year we added sustainability theme buttons to the website – to help users navigate to our research projects more easily. The 6 themes are: Shifting Policies, Biodiversity & Invasives, Arctic & Northern, Climate Change, Social Justice, and Campus Sustainability.

Appendix 2

Individual Member Contributions

Core Faculty Members

Faculty of Fine Arts

Arlene Gould* (WGBC Summer School Course Director)

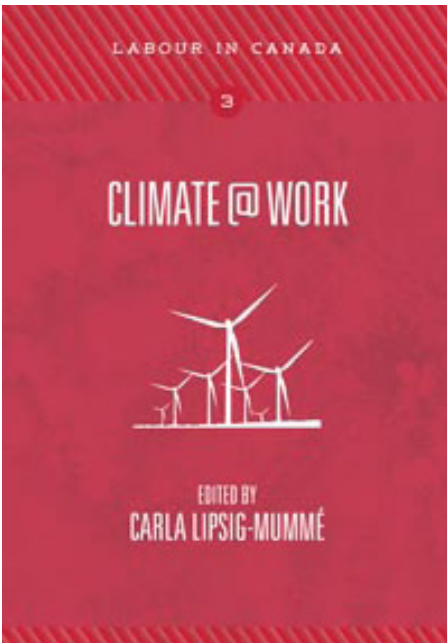
Served on the IRIS Executive.

Rethinking Ontario Place – In December, 2012, Arlene Gould organized a design charrette for Toronto creative leaders and students to explore an alternative vision for Ontario Place that would preserve the site as an iconic public space. The charrette was co-hosted by the Design Industry Advisory Committee, the Martin Prosperity Institute and the Ontario Public Service Employees Union. <http://www.rethinkingontarioplac.com/2012/12/>

Taught the Summer 2012 edition of the Design for Sustainability Workshop course

Ian Garrett

Blogs for IRIS, under the Arts & Culture Blog Category.



Faculty of Liberal Arts and Professional Studies

Carla Lipsig-Mummé* (W3)

Climate@Work, edited by Carla Lipsig-Mummé, (Fernwood Publications), was published in April 2013.

David Doorey (TBGI, W3)

David Doorey, “A System of Transnational Business Interactions: The Case of the Living Wage”. TBGI Edited book of Florence workshop papers - While some of the Florence workshop papers will appear in the Regulation & Governance special issue, others are being finalized for inclusion in an edited volume under consideration at Hart Publishing.

David Szablowski (TBGI)

David Szablowski, “Mimetic diffusion and the potential for interlocking regulation: the IFC performance standards and the extractive industries”. TBGI Edited book of Florence workshop papers - While some of the Florence workshop papers will appear in the Regulation & Governance special issue, others are being finalized for inclusion in an edited volume under consideration at Hart Publishing.

Gabrielle Slowey (GAPS Project)

Served on the IRIS Executive

Idil Boran (COP18)

Attended COP18

Speaker at the COP18 Debrief – February 4, 2013

Nina Hewitt (4 Solitudes)

Spontaneous tree migration and the dilemma of assisted colonization. With G. Larocque, D. Greene, D. Bazely. Annual Meeting of the Association of American Geographers, Los Angeles, April 2013.

Assisted migration for a fragmented (forest) nation? With G. Larocque and D. Bazely. Graduate Student Colloquium Series, Geography, York University, Jan 2013 (invited).

Smith, A.L., N. Klenk, S. Wood, N. Hewitt, I. Henriques, N. Yan, D.R. Bazely. Second generation biofuels and bioinvasions: An evaluation of invasive risks and policy responses in the United States and Canada. Renewable and Sustainable Energy Reviews (Revised and resubmitted).

Sheila Embleton * (Former VP Academic; Climate Justice)

Queen Elizabeth II Diamond Jubilee Medal, November 2012.

“Scholarships for Study in Canada”, A World of Learning: Canada’s Performance and Potential in International Education / Un monde à apprendre: resultants et potential du Canada en matière d’éducation internationale, ed. Jennifer Humphries, Ottawa: Canadian Bureau for International Education, 2012, page 68.

“Importance of Scholarships to International Eduwacation”, A World of Learning: Canada’s Performance and Potential in International Education / Un monde à apprendre: resultants et potential du Canada en matière d’éducation internationale, ed. Jennifer Humphries, Ottawa: Canadian Bureau for International Education, 2012, pages 30-32.

(with Dorin Uritescu and Eric Wheeler) “Defining Dialect Regions with Interpretations: Advancing the Multidimensional Scaling Approach”, Literary and Linguistic Computing: Journal of Digital Scholarship in the Humanities, volume 28, number 1, 2013. 10 pages. Free access to PDF at <http://llc.oxfordjournals.org/cgi/reprint/fqso48?ijkey=NzoVKzEF9cRtmO3&keytype=ref>

(with Dorin Uritescu and Eric Wheeler) “Continuum et fragmentation géolinguistiques d’après l’Atlas linguistique de la Cri ana en ligne”, in Actes del 26é Congrès de Lingüística i Filologia Romàniques (València, 6-11 de setembre de 2010), Emili Casanova Herrero and Cesáreo Calvo Rigual (eds.), Berlin, Walter de Gruyter, 2013, 116-126.

Steve Tufts (W3)

Hall, S and Tufts S 2013 Work, Climate Change and Young Workers. Paper presented at the United Association for Labour Education Annual Conference. April 17-20, Toronto.

Carey, J and Tufts S 2013 'Greening Work' in Lean Times: The Amalgamated Transit Union and Eco-socialization of Canadian Transportation Systems. Paper presented at the W3 Workshop, January, Toronto.

Tufts, S 2012 Work in a Warming Urban World: Some Reflections on Toronto Vancouver. Paper presented Work

and Climate Change Workshop co-sponsored by W3 and the SFU Morgan Centre for Labour Research, Simon Fraser Harbour Centre Campus, Vancouver, Friday, September 21.

Faculty of Education

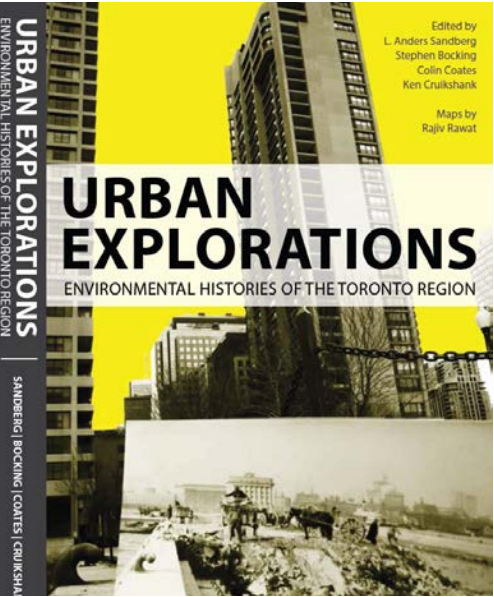
Steve Alsop* (SEPN)

Board Member and York University lead on the Sustainability and Education Policy Network (SEPN)

Donald Dippo (SEPN)

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 2012.

Don Dippo, “Sustainability and Professional Development in Teacher Education”, Seventh Meeting of the UNESCO International Network for Reorienting Teacher Education to Address Sustainability, Toronto, May 2012.



Faculty of Environmental Studies (FES)

Andres Sandberg (SEPN)

2013 (Sandberg, A., S. Bocking, C. Coates, and K. Cruikshank) (eds.) Urban Explorations: Environmental Histories of the Toronto Region. Hamilton, ON: L.R. Wilson Institute for Canadian History, McMaster University.

2013 (Sandberg, A., G. Wekerle, and L. Gilbert) The Oak Ridges Moraine Battles: Development, Sprawl, and Nature Conservation in the Toronto Region. Toronto: University of Toronto Press.

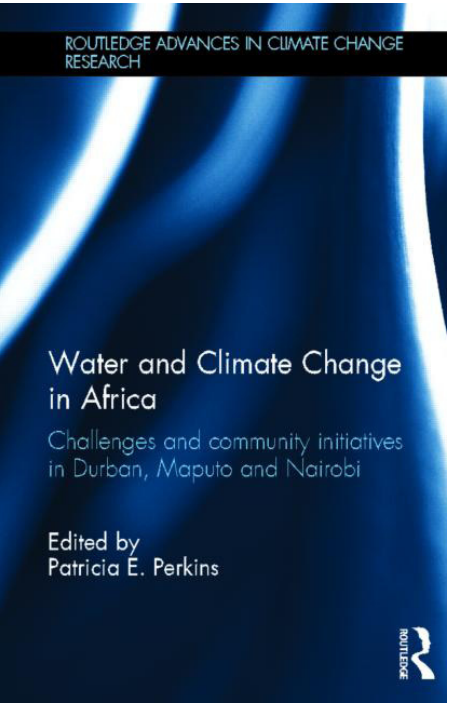
Catriona Sandilands

Mentored gradate students who performed a Poetry Workshop at Earth Hour

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

Book

Water and Climate Change in Africa: Challenges and Community Initiatives in Durban, Maputo and Nairobi. London/New York: Routledge/Earthscan.



Chapters in Books

“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). (Forthcoming).

“Social diversity, globalization, and sustainability in community-based economies.” In Women in a Globalizing World: Transforming Equality, Development, Diversity and Peace, edited by Angela Miles (Toronto: Inanna Publications and Education), pp. 515-524). (2013).

Articles in Refereed Journals

“Urban water management in Africa in times of climate change: the importance of public engagement,” co-authored with Mary Galvin, Elias Manjate, Simphiwe Nojiyeza, Elizabeth Lorimer, Stephen Otieno, Nilza Matavel, and Romanus Opiyo, Water vol. 5 no. 1, special issue on Ecological Watershed Management, submitted for review March 2013. (Submitted for review).

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 (Forthcoming)

Jose Etcheverry*

Served on the IRIS Executive

Etcheverry, J. (2012) A sustainable deployment of photovoltaics: What is wrong with current policy and technology focus? The Electricity Journal, 25 (2), 24-31.

Justin Podur*

Served on the IRIS Executive until the end of his term (June 30, 2012).

Kaz Higuchi* (Climate Justice; Campus Sustainability)

IRIS Speaker Series event featuring David Miller, which was conjunctly a guest lecture in his ENVS 3400 course on climate change and policy; organised and supported by IRIS

IRIS Speaker Series featuring Idil Boran giving a COP-18 debriefing, held conjunctly with his ENVS 5502 course on climate change mitigation and adaptation; organised and supported by IRIS

Leesa Fawcett (SEPN)

Chapters in Books

2012 “Three Degrees of Separation: Accounting for Naturecultures in Environmental Education Research Issues.” In M. Brodey, J. Dillon, R. Stevenson & A. Wals (eds.) International Handbook of Research on Environmental Education. Washington, DC: AERA/Routledge.

2012 (with C. Russell) “Moving Margins in Environmental Education Research.” In M. Brodey, J. Dillon, R. Stevenson & A. Wals (eds.) International Handbook of Research on Environmental Education. Washington, DC: AERA/Routledge.

Articles in Refereed Journals

2012 The Case of the Mimic Octopus: Agency and World Making. Antennae: Animal Influence, 21 (Summer), pp. 58-66. Timothy Leduc (SEPN)

Books/Monographs

Draft Completed (with D. Morley). Four Decades of Environmental Studies at York: Sustaining an Educational Innovation in an Emerging Field. (Submitting manuscript for Faculty review in Spring 2013)-SSHRC SEPN grant informed this research

Proposal (accepted). A Canadian Ecology of Mind: From the Fur Trade to the Tar Sands and Beyond. McGill-Queens University Press (to be submitted Spring 2014).

Journal Articles/Review Essays

In Press (with S. Crate). ‘Reflexive Shifts in Climate Research and Education: Towards Re-localizing Our Lives’. Nature + Culture (summer 2013).

Book Chapters (Refereed)

2013. ‘Ancestral Climate Wisdom: Return to a Thoughtful Etiquette’. In M. Schönfeld (ed.), Global Ethics on Climate Change: The Planetary Crisis and Philosophic Alternatives. Routledge.

Accepted (book in progress). ‘Critical Land Changes in Ecological Thought: A Pedagogical Place for Urban Experience’. In S. Bocking and R. O’Connor (eds.), The Great Green North. University of Calgary Press (tentative for 2014).

Faculty of Science and Engineering

Dawn Basely * (IRIS Director; W3; 4 Solitudes; GAPS; Climate Justice; Campus Sustainability; IRIS Speaker’s Series Committee; President’s Sustainability Council)

Smith, A.L., N. Klenk, S. Wood, N. Hewitt, I. Henriques, N. Yan, D.R. Bazely. Second generation biofuels and bioinvasions: An evaluation of invasive risks and policy responses in the United States and Canada. Renewable and Sustainable Energy Reviews (Revised and resubmitted).

Speaker and session moderator: Terrestrial Invasive Plants Conference, Sault St. Marie, Ontario. Session: Current State of Invasive Plants in Ontario. Lecture in this session: “Kudzu has arrived! So why aren’t people more freaked out?” (August)

2012, Speaker at the second International Polar Year GAPS Project Workshop, Tromsø, Norway. (June)

Poster Presentation: Gordon Research Conference – Plant-Herbivore Interactions, Ventura, California –with Andrew Tanentzap. (February)

Invited talk at University of New Brunswick, Fredericton in February.

Mohammad Yousaf

Attended the UNFCCC COP18 Climate Change conference in Doha, Quatar.

Norman Yan (4 Solitudes)

Smith, A.L., N. Klenk, S. Wood, N. Hewitt, I. Henriques, N. Yan, D.R. Bazely. Second generation biofuels and bioinvasions: An evaluation of invasive risks and policy responses in the United States and Canada. Renewable and Sustainable Energy Reviews (Revised and resubmitted).

Glendon

Colin Coates*

Served on the IRIS Executive

Stuart Schoenfeld*

Served on the IRIS Executive until the fall 2012.

Osgoode Hall

Peer Zumbansen (TBGI)

Law and Legal Pluralism: Hybridity in Transnational Governance, in: Regulatory Hybridization in the Transnational Sphere (Poul Kjaer, Paulius Jurcys, and Ren Yatsunami eds., The Hague: Brill, 2013), 49-70 [Refereed]

Transnational Private Regulatory Governance: Ambiguities of Public Authority and Private Power, in: Law and Contemporary Problems (2012), forthcoming, available at: <http://ssrn.com/abstract=2185031> (OHLS CLPE Research Paper 45/2012)

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

Smith, A.L., N. Klenk, S. Wood, N. Hewitt, I. Henriques, N. Yan, D.R. Bazely. Second generation biofuels and bioinvasions: An evaluation of invasive risks and policy responses in the United States and Canada. Renewable and Sustainable Energy Reviews (Revised and resubmitted).

Burkard Eberlein, Kenneth Abbott, Julia Black, Errol Meidinger and Stepan Wood. Transnational Business Governance Interactions: Conceptualization and Framework for Analysis. Osgoode Hall Law School Comparative Research in Law and Political Economy Research Paper No. 29/2012, TBGI Project Subseries No. 11; SUNY Buffalo Legal Studies Research Paper No. 2013-017; available at <http://ssrn.com/abstract=2152720>; revised version forthcoming in Regulation & Governance Special Issue on Transnational Business Governance Interactions.

Eberlein, Burkard, Kenneth Abbott, Julia Black, Errol Meidinger and Stepan Wood, eds. Forthcoming 2013. Transnational Business Governance Interactions. Special issue of Regulation and Governance.

Wood, Stepan and Kevin Thompson. 2012. Transnational Voluntary Climate Change Initiatives for Local Governments: Key Variables, Drivers and Likely Effects. In Benjamin J. Richardson (ed.) Local Climate Change Law: Environmental Regulation in Cities and other Localities. Cheltenham, UK: Edward Elgar.

Wood, Stepan. 2012. The International Organization for Standardization. In Darryl Reed, Peter Utting and Ananya Mukherjee-Reed, eds., Business Regulation and Non-State Actors: Whose standards? Whose development? 81-94. New York: Routledge.

Schulich School of Business

Alan Richardson (TBGI)

“Merging the Profession: A Historical Perspective on Accounting Association Mergers in Canada” (with E. Kilfoyle) Accounting Perspectives V11 N2 (2012): 77-109 [DOI: 10.1111/j.1911-3838.2012.00033.x]

Andrew Crane (TBGI)

Crane, A. (2013), ‘Modern slavery as a management practice: exploring the conditions and capabilities for human exploitation’. Academy of Management Review, vol. 38 (1): 49-69.

Burkard Eberlein (TBGI)

Burkard Eberlein made a poster presentation about the TBGI project at the Schulich School of Business’s Research Celebration Day, Toronto, January 30, 2013.

Burkard Eberlein, Kenneth Abbott, Julia Black, Errol Meidinger and Stepan Wood. Transnational Business Governance Interactions: Conceptualization and Framework for Analysis. Osgoode Hall Law School Comparative

Research in Law and Political Economy Research Paper No. 29/2012, TBGI Project Subseries No. 11; SUNY Buffalo Legal Studies Research Paper No. 2013-017; available at <http://ssrn.com/abstract=2152720>.

TBGI panel sessions, International Studies Association, April 2013: paper featured.

Burkard Eberlein, Kenneth Abbott, Julia Black, Errol Meidinger and Stepan Wood, “Introduction: Transnational Business Governance Interactions: Conceptualization and Framework for Analysis.” TBGI Edited book of Florence workshop papers - While some of the Florence workshop papers will appear in the Regulation & Governance special issue, others are being finalized for inclusion in an edited volume under consideration at Hart Publishing

Dirk Matten (TBGI)

K. Bondy, J. Moon, D. Matten * An institution of corporate social responsibility (CSR) in multi-national companies (MNCs): form and implications, Journal of Business Ethics, Vol. 111 (2012), No. 2, 281-299

S. Brammer, G. Jackson, D. Matten* Corporate Social Responsibility and Institutional Theory: New Perspectives on Private Governance, Socio Economic Review, Vol. 10 (2012), No. 1, 3-28

Irene Henriques * (W3; 4 Solitudes)

Journal Articles

Henriques I. P. Sadorsky (forthcoming) Environmental Management Practices and Performance in Canada, Canadian Public Policy.

Henriques I., Husted, B.W. & Montiel, I. (2013) Spillover effects of voluntary environmental programs on greenhouse gas emissions: Lessons from Mexico. Journal of Policy Analysis & Management 32(2): 296-322.

Perez-Batres L.A., V.V. Miller, M.J. Pisani, I. Henriques and J.A. Renau-Sepulveda (2012) Why do firms engage in national sustainability programs and transparent reporting? Evidence from Mexico’s Clean Industry Program. Management International Review, 54 (1): 107-136.

Smith, A.L., N. Klenk, S. Wood, N. Hewitt, I. Henriques, N. Yan, D.R. Bazely. Second generation biofuels and bioinvasions: An evaluation of invasive risks and policy responses in the United States and Canada. Renewable and Sustainable Energy Reviews (Revised and resubmitted).

Conference Papers

“Environmental Management Practices and Performance in Canada”, Workshop on Innovative Approaches to Environmental Policy in Canada, University of Ottawa, September 17-18, 2012.

“The Role of Financial Institutions in Encouraging Social Entrepreneurs”, Workshop on The Financial Sector’s Impact on Sustainable Development, Balsillie School for Global Governance, University of Waterloo, October 4-5, 2012.

Wesley Cragg (TBGI)

CBERN hosted its 2012 Annual Conference on the theme of “Leadership, Ethics and Energy” (May 9-12, 2012) at the University of Calgary

CBERN co-hosted the PRI-CBERN 2012 Academic Network Conference: “Evolution of Responsible Investment: Navigating Complexity” at York University (October 1-3 2012).

CBERN received a \$22,129 SSHRC Connection grant for the 2013 PhD Winter Research Meeting and Webinar Series held at York University (March 22-24 2013).

Wesley Cragg published an edited volume titled “Business and Human Rights” (Edward Elgar Publishing, 2012)

Senior Fellows

Eric Abitbol

Organizing the Assessing the Impact of Peace and Conflict Impact Assessments (PCIA) conference at York University, to be held at York May 22-24th.

David Bell

Served on the IRIS Executive

Member of the Education Sectoral Commission of the Canadian Commission for UNESCO

Keynote address to the AQPC (prof association of the 17,000 CEGEPS profs in Quebec) in Gatineau, June 1012: "The Challenge of Sustainability and the Role of Higher Education"

Chaired 5 LSF Roundtable sessions on Responsible Citizenship held in Edmonton, Winnipeg, toronto (2) and Halifax (April to Oct 2012)

Presented the work of LSF to the ESD Steering Committee of the 54 nation UN Economic Commission for Europe meeting in Geneva (March 2013)

Bill Found

Served on the IRIS Executive

Served on the IRIS Policy Committee

Found, W. and M. Berbés-Blázquez, “The Sugar Cane Landscape of the Caribbean Islands: Resilience and the Changing Plantation Social-Ecological System”, chapter 10 in D. Plieninger and C. Bieling (eds.), Resilience and the Cultural Landscape: Understanding and Managing Change in Human-Shaped Environments, Cambridge, Cambridge University Press, 2012, pp. 164-184.

Steve Glassman

Served on the IRIS Executive

Peter Middleton

Through his role as the CEO of the Green Education Council (an alliance of universities, colleges and other organizations committed to accelerating sustainability both on campus and in the community at large), Peter has worked with IRIS (York University is a Founding Partner of the Council) to bring forward a number of sustainability initiatives, including possible collaborations in the Glendon community.

Helen Psathas

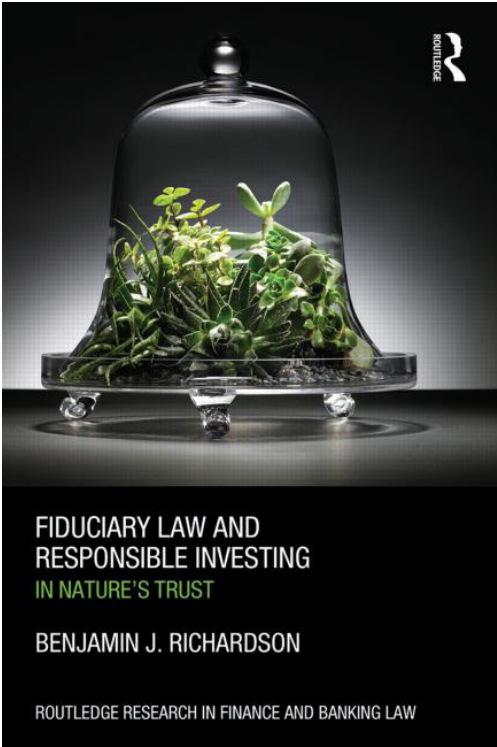
Served on the IRIS Executive

Served on the IRIS Steering Committee

Served on the planning committee for the “Are YoU a Climate Zombie? How can we walk together?” unconference held October 25, 2012

Liaison with CSBO for the Annual Campus Sustainability Survey. This year’s topic was “Moving Transportation into the 21st Centurey”. Continued support on last year’s topic of accessibility.

Support IRIS students and researchers with questions about the campus.



Benjamin Richardson

Fiduciary Law and Responsible Investing: In Nature’s Trust.
Series: Routledge Research in Finance and Banking Law.
Published April 18th 2013 by Routledge.

Richard Saunders

Received funding from UNRISD, Geneva for a 2-year
Zimbabwe case study in the multi-country research phase
of the “Politics of Domestic Resource Mobilisation for Social
Development” project

Awarded FLA&PS Internationalisation Seed Grant to
support convening of a labour-civil society network on
miningrestructuring in Southern Africa, based in Cape Town

Developed multi-country, multi-partner project proposal for
submission to IDRC-Nairobi, on “Women’s Ecohealth in East
Africa” (co-applicant)

Convened seminars by visiting scholars, including Prof
David McDonald (Queens) and Dr. Firoze Manji (Pambazuka/
Fahamu, CODESRIA), and a special doctoral public seminar,
“Excavating Development: resource extraction, social
classes and the new ‘Developmental State’”

External Examiner, Graduate Programme in Development
Studies, University of Johannesburg, South Africa

Andrea Smith

Smith, A. 2012. Review of federal and Ontario legislation on
invasive alien species prevention, early detection and rapid
response. Report to MNR. 50 pp + 248 pp Appendix.

Smith, A. 2012. Summary Report: Review of federal and
Ontario legislation on invasive alien species. Report to MNR.
10 pp.

Presentations

Smith, A. Tackling invasive plants in Ontario: What’s in our
legislativetoolbox? Ontario Invasive Plant Council Annual
General Meeting, Guelph, October16 2012.

Smith, A. Review of federal and Ontario legislation on
terrestrial invasive plant species. Terrestrial Invasive Plant
Species Conference, Sault St. Marie, August 21 2012.

Smith, A. Review of federal and Ontario legislation on
aquatic invasive species. CAISN AGM, Montreal, May 2 2012.

Nancy Sutherland

Served on the IRIS Executive

Liaison between IRIS and the Centre of Excellence in
Responsible Business at the Schulich School of Business

Helps to promote IRIS events and activities to the Schulich
School of Business Community



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