

5 years in review presented by

**ENVIRONMENTAL POLICY INSTITUTE  
AND THE MASTER OF ARTS  
(ENVIRONMENTAL POLICY) PROGRAM**



**GRENFELL**  
CAMPUS



Environmental Policy Institute



## ENVIRONMENTAL POLICY INSTITUTE

**Who are we:** The Environmental Policy Institute (EPI) at Grenfell Campus, Memorial University of Newfoundland is an inclusive community dedicated to excellence in research, teaching and learning, and public engagement on environmental policy issues in Newfoundland and Labrador, in Canada, and internationally.

**Research:** EPI uses theories, approaches, and methods from social sciences, humanities, and natural sciences to solve environmental policy issues.

**Teaching:** EPI faculty are engaged in both undergraduate and graduate teaching and learning activities. The Masters in Environmental Policy (MAEP) program is delivered by EPI core and affiliated faculty.

**Engagement:** EPI builds awareness and stimulates dialogue and debate on environmental policy issues with stakeholders and the broader public through initiatives including workshops, panel discussions and other venues.





## **PEOPLE**

EPI faculty, staff and students come from a broad range of disciplinary backgrounds from the humanities, social and natural sciences, providing an interdisciplinary learning and research environment.

### **EPI Faculty**

Dr. Wade Bowers, professor, biology  
 Dr. Paul Foley, assistant professor, political science  
 Dr. Andreas Klinke, associate professor, political science  
 Dr. Michael van Zyll de Jong, associate professor, applied ecology  
 Dr. Kelly Vodden, associate professor, geography

### **Affiliated Faculty\***

Dr. Catherine Keske, associate professor, economics  
 Mr. Stephen Decker, lecturer, geography  
 Dr. Roza Tchoukaleyska, assistant professor, geography  
 Dr. Gabriela Sabau, associate professor, economics

### **Adjunct Faculty**

Dr. John Dagevos, senior researcher and managing director, Telos, Brabant Centre for Sustainable Development, Tilburg University  
 Dr. Maura Hanrahan, associate professor, Indigenous studies University of Lethbridge (Grenfell 2014-2016)  
 Dr. Stephen Bonnell, environmental assessment practice leader, Amec Foster Wheeler Environment and Infrastructure

### **Staff**

Jerry Collins, research assistant  
 Paula Dawe, staff specialist (Current)  
 Susan Kennedy, staff specialist (2013-2014)  
 Myron King, GIS / research associate  
 Nadia Simmons, staff specialist (2014-2016)

\*Acted as primary supervisor in the MAEP program



## RESEARCH

EPI uses theories, approaches, and methods from social sciences, humanities, and natural sciences to advance excellence in research on environmental policy issues. EPI communicates and mobilizes research and knowledge to both academic and non-academic audiences.

### Research Areas

- Risk governance
- Risk assessment
- Climate change
- Fisheries and wildlife management
- Forest management
- Watershed management
- Ecological economic
- Ecosystem based management
- Human dimensions
- Geographic information systems
- Coastal zone management
- Community and regional Development
- Indigenous research
- Corporate social and environmental responsibility
- Drinking water
- Food and agriculture
- Sustainability indicators and monitoring
- Sustainable tourism

### Metrics

77 research projects  
23+ partners  
1.7 million (principal investigator)  
10.3 million (co-investigator)  
1 peer-reviewed volume  
33 peer-reviewed articles  
27 peer-reviewed book chapters  
68 conference papers  
46 presentations  
41 policy reports and briefs  
43 media stories  
2 workbooks and toolkits



## Sample Projects

- Development of a Planning and Analysis Tool for Ecological Restoration of Rivers
- Assessing the impact of instream barriers and climate change on wild Atlantic salmon population persistence and production in forested boreal watersheds
- The Anticipation and Management of Risks in Global Governance
- Public Participation Best Practices in Environmental Decision Making in Newfoundland and Labrador – Analyzing the Forestry Management Planning Process Project
- Canadian Regional Development: A Critical Review of Theory, Practice and Potentials
- Exploring Solutions for Sustainable Rural Drinking Water Systems
- Shrimp Allocation Policies and Regional Development Under Conditions of Environmental Change: Insights for Aboriginal Groups in Northern Labrador
- Assessing the Outcomes of environmental certification on sustainability; perspectives of forestry and fishery producers in Atlantic Canada.

## Partners & Collaborators

- University of Hull, International Fisheries Institute, UK
- Canadian Forest Service
- Department of Fisheries and Land Resources
- Department of Environment and Municipal Affairs
- Compusult Limited
- Corner Brook Pulp and Paper Limited
- Ducks Unlimited
- Municipalities Newfoundland & Labrador
- Newfoundland and Labrador Environmental Industry Association
- Professional Municipal Administrators
- Qalipu First Nation
- Townsuite Municipal Software- PROCOM Data Services Inc.
- University of Giessen, Germany
- Atlantic Salmon Conservation Foundation
- Department of Fisheries and Oceans
- Indian Bay Ecosystem Corporation



## Sample Publications

Eddy, B. G., B. Hearn, J. E. Luther, M. van Zyll de Jong, W. Bowers, D. Piercey, G. Strickland & B. Wheeler. (2014). An information ecology approach to science policy integration in adaptive management of social-ecological systems. *Ecology and Society* 19 (3): 40

Foley, Paul and Charles Mather. (2016). Making space for community use rights: insights from “community economies” in Newfoundland and Labrador. *Society and Natural Resources* (Open Access).

Foley, Paul and Elizabeth Havice. (2016). The rise of territorial eco-certification: New politics of transnational sustainability governance in the fisheries sector, *Geoforum*, Vol. 69 (February): 24-33

Fox, C., van Zyll de Jong, M., Hearn, B., Moores, L., Foley, P. & Harris, D. (2016) Perspectives on Implementing Certification on Crown Forest: The Case of Newfoundland and Labrador. *Forest Chronicle*, 92(4): 503-513.

Hanrahan, M., A. Sarkar and A. Hudson. Exploring Water Insecurity in a Northern Indigenous Community in Canada: The “Never Ending Job” of the Southern Inuit of Black Tickle, Labrador. *Arctic Anthropology*, 51 (2): 9-22.

Keske C. M.H., Brook-Dare J., Hancock T., and King M. (2016). La connexion entre la sécurité alimentaire, la souveraineté alimentaire et la justice alimentaire dans les écosystèmes boréaux : le cas de Saint-Pierre-et-Miquelon / The connectivity of food security, food sovereignty, and food justice in boreal ecosystems: the case of Saint-Pierre and Miquelon. *Justice Spatiale / Spatial Justice* (No.9)

Klinke, A. (2014). Post national Discourse, Deliberation and Participation toward Global Risk Governance. *Review of International Studies*, 40 (2): 247-75.

Klinke, A. and Renn, O. (2014). Expertise and Experience: A Deliberative System of a Functional Division of Labor for Post-Normal Risk Governance. *Innovation: The European Journal of Social Science Research*, 27 (4): 442-65.

Minnes, S. and K. Vodden. (2017). The Gap: Understanding Impediments to Sustainable Drinking Water Systems in Rural Newfoundland and Labrador. *Canadian Water Resources Journal*.

Sabau, G. and M. van Zyll de Jong. From unjust uneconomic growth to sustainable fisheries in Newfoundland: The true costs of closing the inshore fishery for groundfish. *Marine Policy*. 61: 376-389.

van Zyll de Jong, M.C., & I.G. Cowx. (2016). Long-term response of salmonid populations to ecological restoration procedures in a boreal forest stream. *Ecological Engineering*, 91: 148–157

Vodden, K. and H. Hall. (2016). Long distance commuting in the mining and oil and gas sectors: Implications for rural regions. *The Extractive Industries and Society* 3(3): 577–583.

Vodden, K., G. Baldacchino and R. Gibson (Eds.) (2015). *Place Peripheral: The Promise and Challenge of Place-Based Development in Rural and Remote Regions*. ISER Publications.

Vodden, K. The Promise and Challenge of Collaborative Governance on Canada's Coasts. *Canadian Geographer*. 59(2): 167-180.



# RESEARCH

## Policy Briefs

### Rural drinking water systems (2016)

- Governance of Drinking Water Systems In Rural Newfoundland and Labrador
- Source Water Quality and Quantity In Rural Newfoundland and Labrador
- Infrastructure and Operations of Drinking Water Systems In Rural Newfoundland and Labrador
- Public Perception, Awareness and Demand of Drinking Water In Rural Newfoundland and Labrador

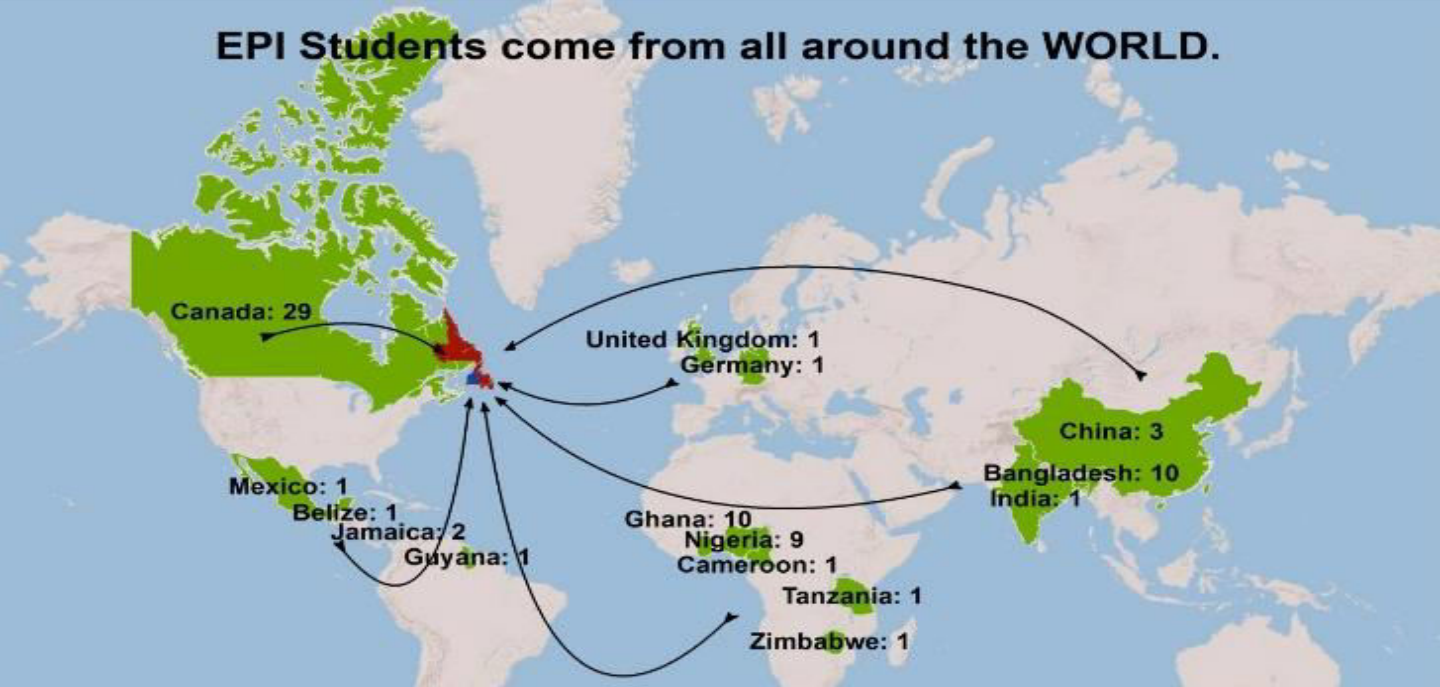
See <http://nlwater.ruralresilience.ca>

### Fisheries and coastal communities (2013)

- Rationalization of the Fishing Industry
- Seafood Prices and Market Access for the Inshore Fishery
- Fisheries Regulations that Work
- The Viability of Coastal and Small Island Communities

See <http://gracilis.carleton.ca/geog/>

## EPI Students come from all around the WORLD.



## TEACHING

EPI delivers undergraduate and graduate programming and learning activities.

### Program

MA Environmental Policy  
PhD student supervision: geography, biology, Interdisciplinary

### Core Courses

Foundations of Environmental Policy  
Applied Environmental Problem Solving  
Research Design and Methods  
Environmental Political Thought  
Internship

### Elective Courses

Political Economy, Political Ecology and Policy  
Ecological Economics  
Labor and Environmental Policy  
Environmental Impact Assessment  
Risk Assessment and Analysis  
Energy Policy  
Management and Regulation of Water Resources  
Natural Resources Policy and Decision Making  
Special Topics Course 1- Policy and Planning for Sustainable Communities  
Special Topics Course 2- Indigenous Peoples and Environmental Policy

### Metrics

77 students enrolled (70 MA (environmental policy) and 7 PhD)  
15 countries represented  
25 graduates  
10 theses  
13 research papers  
26 scholarships and awards  
10+ peer-reviewed student publications  
Highly successful post-graduate employment placement rate  
54 internships  
34 partners





# TEACHING

## Internships

**Government of Canada:** Natural Resources Canada Fisheries and Oceans Canada; Parks Canada Environment Canada

**Government of Newfoundland and Labrador:** Fisheries and Land Resources; Environment and Municipal Affairs; Executive Council

**Government of Nova Scotia:** Natural Resources

**Government of Germany:** Ministry of the Environment

**Local Government:** Town of Deer Lake; Black Tickle-Domino; Municipalities Newfoundland and Labrador

**Indigenous Groups:** NunatuKavut Community Council; Torngat Secretariat; No'kmaq Village (The Flat Bay Band Inc.)

**Industry:** Kruger; Pennecon; Federation of Agriculture; NL Environmental Industry Association, Compusult, PROCOM Data Services Inc

**Not for Profits:** Indian Bay Ecosystem Corporation; Kairos; Organic Agriculture Centre of Canada; Nature Conservancy of Canada; Conservation Corp NL; Bedfordshire Wildlife Trust, IRD Duhallow Ireland

**Agencies:** Waste Management Authorities of NL; State Bank of India; National Petroleum Investment Management Services, Nigeria

**Universities:** Universidad de Queretaro; Shahjerlal University



## POST-GRADUATE EDUCATION & EMPLOYMENT

### Sample Employers

- Natural Resources Canada
- Environment Canada
- Department of Fisheries and Oceans Canada
- Pennecon
- ADRA Canada
- University of Guelph

### Continuing Education

- University of Waterloo
- University of Oxford
- University of Calgary
- University of Saskatchewan



# PUBLIC ENGAGEMENT & OUTREACH

EPI plays an important role in fostering public engagement at Grenfell Campus by researching and facilitating debate on critical environmental policy issues within and beyond Newfoundland and Labrador.

## Metrics

71 total workshops, conferences or public events organized and/or represented.

## Sample Events

### Public Engagement Events

Reel Green Films Series  
NL Nature Atlas Partnership  
2014 - 2016 World Water Day Events  
EPI @ CU Expo 2013  
Fracking forum  
World Wetland Day  
Coleman's grocery stores

### Research Workshops

Expert Workshops Vulnerability Assessment of Boreal Forest to Climate Change  
Experts Workshop on Forest Certification on Public Lands  
Expert Workshop on Incorporating Ecosystem Services into Watershed Management Planning  
Experts Workshop on Drinking Water Assessment

### Media

CBC News Radio  
The Western Star  
The Northern Pen  
The Advertiser  
The Telegram  
News streams  
Corner Brook Café  
Grenfell's official social media channels







## ENGAGEMENT

### Policy Competitions

- Development of a Wetlands Policy for Newfoundland and Labrador
- Development of Cumulative Environmental Effects Frameworks
- Vulnerable Areas and Economic Development
- An Objectives Based Approach to Improving Electric Vehicle Infrastructure in Newfoundland and Labrador
- Reducing Emissions from Transporting Goods and Services
- Ecosystem Services Valuation (ESV) Framework for Land-use Proposals
- Greening Tourism
- Incorporating Climate Change Adaptation Tools in Decision Making
- Extraction Maximum Value from Fisheries Resource (Fish Auction Systems)
- Sustainable Development Policy



## FUTURE GOALS

PhD program in sustainability

Environmental Design and Decision Making Lab

Continuous growth in research, teaching and engagement

For more information on EPI activities summarized in the metrics within this report [click here](#).



## NOTES

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