



Water and Hydraulic Fracturing in Canada: Information for Investors and Everyone Else

Speaker Biographies

Peter Chapman

Executive Director, Shareholder Association for Research and Education (SHARE)

Peter Chapman is the Executive Director of the Shareholder Association for Research and Education. SHARE is a leading provider of proxy voting, shareholder engagement and policy consulting services to Canadian institutional investors and of governance and investment education to pension trustees and other investment decision-makers. He has worked for more than 25 years in the field of responsible investment, including corporate engagement, education, community investment and public policy, and joined the staff of SHARE in 2000. Peter represents the Canadian Labour Congress on the Global Unions Committee on Workers Capital and is a member of the Network for Sustainable Financial Markets. Peter serves on the board of Canadian development organization Pueblo Partisans and formerly served on the boards of the Social Investment Organization, the Grindstone Co-operative Venture Fund and the West Coast Environmental Law Association, and on the Global Reporting Initiative Stakeholder Council. Peter holds a Bachelor of Arts from Simon Fraser University.

Dr. John Cherry

Director, the University Consortium for Field-Focused Groundwater Contamination Research

John Cherry holds geological engineering degrees from the University of Saskatchewan and University of California Berkley, and a Ph.D. in hydrogeology from the University of Illinois. He was a faculty member at the University of Manitoba for four years before joining the faculty of the University of Waterloo in 1971, where his research focused on field studies of the migration and fate of contaminants in groundwater and groundwater remediation. He retired from the University of Waterloo in 2006 and was granted the title Distinguished Professor Emeritus in 2007. Dr. Cherry co-authored the textbook "Groundwater" with R.A. Freeze (1979) and co-edited and co-authored several chapters in the book "Dense Chlorinated Solvents and Other DNAPLs in Groundwater" (1996). In addition to conducting research concerning subsurface contaminant behaviours, he has

participated in the development of several technologies for groundwater monitoring and remediation and co-holds numerous patents. Dr. Cherry is a Fellow of the Royal Society of Canada and has received awards for groundwater contamination research from scientific and engineering societies in Canada, the United States and the United Kingdom. He is a Foreign Associate of the US National Academy of Engineering. He held the Research Chair in Contaminant Hydrogeology at the University of Waterloo (1996-2006) and is currently the Director of the University Consortium for Field-Focused Groundwater Contamination Research, established in 1998, and the Chair of the Council of Canadian Academies Panel on Environmental Impacts of Shale Gas Extraction. He is also an adjunct professor in the School of Engineering at the University of Guelph.

Monika Freyman

Senior Management, Water Program, Ceres

Monika works on the Water Program at Ceres, researching and conducting corporate and investor engagement on the risks and opportunities related to growing water scarcity and water quality issues. Prior to Ceres, Monika worked as a research consultant for the Initiative for Responsible Investment at Harvard, exploring the roots of the concept of sustainability to inform the Sustainable Accounting Standards Board (SASB) in their efforts to evolve corporate reporting standards and investor integration of environmental and social factors. As a Chartered Financial Analyst and former emerging market analyst, with a Masters in Freshwater Ecology, Monika is particularly interested in driving greater integration of water risks and opportunities into the portfolio management process.

Russell Gold

Senior Energy Reporter at the Wall Street Journal and author of *The Boom: How Fracking Ignited the American Energy Revolution and Changed the World*

Russell Gold is an award-winning investigative journalist at The Wall Street Journal. He started his journalism career at the Philadelphia Inquirer and the San Antonio Express-News. In 2000, he joined The Wall Street Journal and covered Texas and economics, before switching to energy in 2002. His reporting has taken him to five continents and above the Arctic Circle twice. In 2010, he was part of the Wall Street Journal team that covered the Deepwater Horizon explosion and oil spill. The Journal's work was awarded the Gerald Loeb Award for best business story of the year and was a finalist for the Pulitzer Prize in National Reporting. He earned a B.A. in history from Columbia University in 1993. He lives in Austin with his wife and two children.

Jason P. Gosselin

Drinker Biddle & Reath, LLP, Philadelphia, PA

Jason P. Gosselin is a Partner in the Philadelphia office of Drinker Biddle & Reath LLP. He is a veteran litigator and trial attorney whose national practice involves a wide range of civil litigation, including commercial disputes and insurance coverage matters. Jason has represented insurers in disputes involving life, health, and disability insurance, property and casualty, and transportation policies. As a recognized expert on insurance law and related disputes, Jason teaches Insurance Law at the Villanova University School of Law. Jason's focus and primary professional interest in fracking relates to the implications for property and casualty insurers who will be called upon to cover fracking-related risks.

Steven Heim**Managing Director and Director of ESG Research and Shareholder Engagement, Boston Common Asset Management (Boston Common).**

Boston Common Asset Management specializes in sustainable and responsible global equity strategies. Boston Common is an active member in the U.S.-based Investor Network on Climate Risk and is a signatory to the UN-supported Principles for Responsible Investment. Steven is primarily responsible for ESG research on global companies and shareholder engagement. He has over 20 years experience in the field. Steven served on the Board of Trustees of the Vermont Public Interest Research Group for 15 years and for 3 years was the Co-Chair of Interfaith Center on Corporate Responsibility's Global Warming Working Group. For Boston Common, Steven serves as the US investor representative on the PRI's steering committee for a three-year engagement with global oil and gas companies to improve disclosure and practices related to hydraulic fracturing. Steven is co-author of *Disclosing the Facts: Transparency and Risk in Hydraulic Fracturing Operations* that benchmarked 24 companies engaged in hydraulic fracturing. Previously, an eighteen-month investor dialogue convened by Boston Common Asset Management and Apache Corporation provided a venue for extended conversations on risks, management practices and disclosure and review by industry experts of draft practices and indicators. This led to the publication of *Extracting the Facts: An Investor Guide to Disclosing Risks from Hydraulic Fracturing Operations* by the Investor Environmental Health Network and the Interfaith Center on Corporate Responsibility in 2011. The Guide is supported by investors globally with over \$1 trillion in assets under management. Steven serves on the Advisory Council for the Solar Energy Industries Association Solar Commitment, the solar industry code for sustainability. He currently serves on the Steering Committee of US SIF Foundation's Indigenous Peoples Working Group (IPWG) and is chair of the IPWG's advocacy subcommittee. He served for eight years and was a founding member of the Steering Committee for US SIF's Sustainable Investment Research Analyst Network. Steven received two Bachelor of Science degrees from Massachusetts Institute of Technology.

Dave Hughes**Geoscientist and former research manager, Geological Survey of Canada**

David Hughes is a geoscientist who has studied the energy resources of Canada for nearly four decades, including 32 years with the Geological Survey of Canada as a scientist and research manager. He developed the National Coal Inventory to determine the availability and environmental constraints associated with Canada's coal resources. As Team Leader for Unconventional Gas on the Canadian Gas Potential Committee, he coordinated the recent publication of a comprehensive assessment of Canada's unconventional natural gas potential. Over the past decade, he has researched, published and lectured widely on global energy and sustainability issues in North America and internationally. He is a board member of the Association for the Study of Peak Oil and Gas – Canada and is a Fellow of the Post Carbon Institute. He recently contributed to *Carbon Shift*, an anthology edited by Thomas Homer-Dixon on the twin issues of peak energy and climate change, and his work has been featured in *Canadian Business*, *Walrus* and other magazines, as well as through the popular press, radio, television and the internet. He is currently president of a consultancy dedicated to research on energy and sustainability issues.

Adèle Hurley**Director, Program on Water Issues, Munk School of Global Affairs**

Adèle Hurley is the Director of the Program on Water Issues at the Munk School of Global Affairs at the University of Toronto. In the 1980s, during the early days of the Reagan Administration, Adèle Hurley moved to Washington and co-founded the Canadian Coalition on Acid Rain. For several years she worked on a successful campaign that brought about amendments to the US Clean Air Act, as well as regulations that reduced pollutants from large Canadian emitters. In the early 1990s she was appointed to the Board of Ontario Hydro. In 1995, she was appointed by the Prime Minister's Office to serve as Canadian Co-Chair of the International Joint Commission, which oversees Canada/US Boundary water issues according to the Boundary Waters Treaty of 1909. Adèle has served as a member of the Canadian Federal Government's International Trade Advisory Committee – Task Force on Environment and Trade Policy, Board of Directors of the Ontario Power Authority, and Water Advisory Board of the Columbia Basin Trust.

Dr. Richard Liroff**Executive Director, Investor Environmental Health Network**

Dr. Richard Liroff is founder and Executive Director of the Investor Environmental Health Network, a group of investment advisors and managers working to reduce the “toxic footprint” of businesses – their production and use of toxic chemicals. With Green Century Capital Management in Boston, Massachusetts, since 2009 Dr. Liroff has led investor efforts to promote increased disclosure by energy companies to reduce the environmental and business risks of hydraulic fracturing operations for unconventional reserves. He is principal author of *Extracting the Facts: An Investor Guide to Disclosing Risks From Hydraulic Fracturing Operations*. It identifies twelve core management goals, practices to implement them, and indicators for reporting progress. It provides guidance for equity analysts and private equity firms for evaluating/benchmarking company management and it provides companies with a framework for benchmarking themselves. Dr. Liroff is author/editor of a half dozen books and numerous articles, reports and blogs on environmental policy, corporate social responsibility, and sustainability. He holds a Ph.D in Political Science from Northwestern University and a B.A. in Politics from Brandeis University.

Andrew Logan**Director, Oil & Gas and Insurance Programs, Ceres**

Since joining Ceres in 2002, Andrew has launched and directs two program areas for the organization. The first focuses on working with investors to engage the oil sector on key sustainability issues including climate change, biodiversity and water. Andrew's second area of focus is the insurance sector, particularly the role that insurers could play in encouraging solutions to climate change. Andrew has a background in corporate strategy from his work with Bain & Company, a leading management consultancy. While with Bain, Andrew developed high-level strategy for companies in the finance, e-commerce, manufacturing, retail and media sectors. Prior to joining Ceres, Andrew directed U.S. PIRG's corporate campaign to protect the Arctic National Wildlife Refuge. He graduated summa cum laude from Amherst College.

Lana Lowe**Director, Department of Land and Resources, Fort Nelson First Nations**

Lana Lowe is the Director of the Fort Nelson First Nation Lands Department and holds an undergraduate degree in Geography and a Master's degree in Indigenous Governance from the University of Victoria. Lana has worked with Indigenous organizations in North and Central America, including the Union of BC Indian Chiefs and the Nahual Foundation in Guatemala, CA. Lana is a proud member of the Fort Nelson First Nation.

François Meloche**Extra Financial Risk Manager, Bâtirente**

François Meloche is Extra Financial Risk Manager for Bâtirente, a pension fund system servicing members of the CSN labour organization, in Quebec, Canada. Mr. Meloche has over a decade of experience in the responsible investment community having worked for Jantzi-Sustainalytics, the Interfaith Center on Corporate Responsibility (ICCR) and Groupe investissement responsable inc. He is also co-founder of Equiterre, an organization advocating responsible consumption.

Stephanie Merrill**Director, Freshwater Protection Program, Conservation Council of New Brunswick**

Stephanie Merrill is the Director of the Freshwater Protection Program for the Conservation Council of New Brunswick, the province's longest standing environmental non-profit. Since 2010, Stephanie has been working on issues related to provincial level water policy such as wetlands, watershed protection and the regulatory frameworks for the review of new projects such as shale gas and mining. Currently Stephanie is working on a research project to understand the barriers and opportunities to instituting a public health impact assessment framework for New Brunswick, with shale gas as the main backdrop of public health concern. Stephanie has worked as a researcher at the University of New Brunswick and Mount Allison University on watershed management and community sustainability. She has a Masters degree from the faculty of Forestry and Environmental Management at the University of New Brunswick.

Andrew Nikiforuk**Author of *The Energy of Slaves* and forthcoming book, *Fracking the Earth* (due for release 2015)**

Andrew Nikiforuk is an award-winning Canadian journalist who has been writing about the oil and gas industry for more than two decades. His books include the critically acclaimed *The Energy of Slaves*, *Empire of the Beetle*, which was nominated for the Governor General's Literary Award for Non-Fiction, *Saboteurs*, which won the Governor General's Award for Literary Non-Fiction and the 2002 Crime Writers of Canada Arthur Ellis Award for Best True Crime, and *Tar Sands*, which won the Rachel Carson Environment Book Award and became a national bestseller. In 2013, Nikiforuk was the recipient of the Writers' Trust Matt Cohen Award in Celebration of a Writing Life. He lives in Calgary, Alberta.

Ralph Pentland**Formal Federal Director of Water Planning and Management, President of Ralbet Enterprises**

Ralph Pentland is currently President of Ralbet Enterprises. He has consulted on water and environmental policy issues in many countries all around the world since 1991. He also currently serves as Acting Chairman of the Canadian Water Issues Council. Between 1978 and 1991, Ralph was Director of Water Planning and Management in the Canadian public service, where he was responsible for overseeing a wide array of river basin planning, flood damage reduction, and interjurisdictional water management arrangements. He was the primary author of the 1987 Federal Water Policy, and has co-chaired five different International Joint Commission Boards and Task Forces, including three dealing with Great Lakes diversions and consumptive uses.

Brian Stewart**Former foreign affairs reporter and senior correspondent for CBC TV News, Distinguished Senior Fellow, Munk School of Global Affairs**

Brian Stewart is one of Canada's most respected foreign correspondents. Over more than two decades his reports for CBC's *The National*, his acclaimed international documentaries, and his show, *CBC News: Our World* provided Canadians with a window on the world. A past Gemini-award winner as Canada's Best Overall Broadcast Journalist, he is a critical reporter with a depth of understanding gained by many years working abroad and has a noted ability to bring compassion and humanity to foreign coverage. He is currently a Distinguished Senior Fellow at the Munk School of Global Affairs at the University of Toronto. Throughout his reporting career, Stewart has worked extensively in conflict areas, and in humanitarian crises. He was the first North American reporter to focus the world's attention on the Ethiopian famine of 1984. His report about his efforts to track down a girl that he had come across during the famine, received international coverage and led Stewart and the girl, now a college graduate, to an appearance on Oprah years later. In the Gulf War he was the first Canadian reporter to get into the liberated Kuwait City. He has also filed award-winning reports from Somalia, from Sudan, where he covered child slavery during their Civil War, and from Rwanda, where he uncovered advanced warnings of the mass murders. Over a long career he has covered many of the world's conflicts and reported from 10 war zones, from El Salvador to Beirut and Afghanistan. His interest in military affairs and extensive conflict coverage has made him the CBC's TV's primary commentator of Canadian and allied defence issues, and he has frequently reported on this country's involvement in Afghanistan since 2002. Though now retired from daily journalism, Stewart continues to write a regular column for CBCNews.ca on international affairs and frequently contributes to CBC documentary and news reports.

Sarah Teslik**Senior Vice President, Policy and Governance, Apache Corporation**

Sarah B. Teslik was appointed senior vice president, Policy and Governance at Apache Corporation in October 2006. Prior to joining the company, she was chief executive officer of the Certified Financial Planner Board of Standards, Inc. from November 2004 to October 2006, and was executive director of the Council of Institutional Investors from July 1988 to

October 2004. Teslik holds a bachelor's degree from Whitman College, a master's degree from Oxford University, and a *juris* doctorate from Georgetown University.

Hugo Tremblay

Lawyer and Researcher, University of Montréal's Faculty of Law

Hugo Tremblay, LL.D. (Dundee), LL.M. (Laval), LL.B. (Montreal), BA (McGill), is currently pursuing a post-doctorate at the Faculty of Law of the University of Montreal. After practicing as a litigation lawyer for a few years in Montreal, he completed a Masters in Environmental Law at Laval University on groundwater management in Quebec. After working on capacity building for local authorities in the management of drinking water and international development assistance in the water sector with the World Water Council, Hugo completed a thesis Ph.D. on the protection of aquatic ecosystems with a view to national comparative law.

Robert Walker

Vice President of ESG Services, NEI Investments

With two decades of experience, Robert Walker is a leader in the development of responsible investment in Canada and abroad. He is the Vice President of ESG Services for NEI Investments, which has approximately \$5 billion in assets under management, including almost \$2 billion in NEI Ethical Funds. Based in Vancouver, Bob leads the team responsible for implementing NEI's ESG Investing Program, a set of activities designed to advance long term sustainable value creation. Bob has designed and shepherded this program since its inception more than ten years ago. It is regarded as one of the most effective, comprehensive and transparent of its kind and has earned numerous Canadian Investment Awards, an Ethics in Action Award, and the Globe Conference Award for Sustainable Finance, as well as being the focus of academic study. Corporate engagement is the program's cornerstone and it has contributed to significant sustainability advances among Canada's banks, retail companies, electronics firms and resource extraction industries, tackling issues across the ESG spectrum from climate action to human rights to excessive compensation. A former executive director of the Social Investment Organization, Bob has also helped advance responsible investment and corporate social responsibility at the policy level both nationally and internationally through engagement with the United Nations, the Government of Canada and provincial governments. Currently, Bob is Chair of the Boreal Leadership Council (BLC) working with companies, environmental organizations and First Nations communities to preserve Canada's boreal forest, and is also a member the Canadian Association of Petroleum Producers' Responsible Canadian Energy Advisory Group. A thought leader in his field, he is frequently called upon to speak at conferences and in the media.