

Field Museum of Natural History
Chicago, Illinois
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Seventh Circuit Bar Association Foundation
Field Museum of Natural History

Protecting the Great Lakes
from Diversion, Pollution, Climate Change,
Catastrophes, and Invasive Species

A program examining the legal and policy issues facing the Great Lakes with faculty from both the United States and Canada to present a binational perspective on the issues addressed.

Faculty

Joel Brammeier, President and Chief Executive Officer, Alliance for the Great Lakes

Joel Brammeier is president and CEO of the Alliance for the Great Lakes. He oversees a staff of 20 professionals and more than 11,000 volunteers dedicated to protecting and restoring clean water, educating citizens and youth and building a sustainable future for the Great Lakes. Joel has developed laws and regulations to prevent invasive species in several Great Lakes states and published a first-of-its-kind report describing options for permanent separation of the Great Lakes from the Mississippi River. He also advises the state governors and provincial premiers on regional implementation of the Great Lakes Water Resources Compact. Prior to his work at the Alliance, he worked for the American Medical Association. He received his master's degree from the University of Michigan's School of Natural Resources & Environment and his bachelor's degree from Valparaiso University.

Thomas Cmar, Attorney, Natural Resources Defense Council

Thom Cmar is an attorney for the Midwest Program at Natural Resources Defense Council who focuses on water and energy issues, with a particular focus on litigation and advocacy to protect the Great Lakes ecosystem. Thom joined NRDC in September 2006 as a fellow on the Litigation Team in New York and Washington, DC, before transferring to NRDC's Chicago Office in August 2008. Prior to joining NRDC, Thom worked as a staff attorney for the International Labor Rights Fund and as a federal judicial clerk.

Cameron Davis, Senior Advisor to the United States Environmental Protection Agency Administrator

Cameron Davis is Senior Advisor to the U.S. Environmental Protection Agency Administrator. He provides counsel to Administrator Lisa Jackson on Great Lakes matters, including the Obama Administration's Great Lakes Restoration Initiative. His job includes serving as Administrator Jackson's Great Lakes liaison to Congress. It also includes coordinating Great Lakes policy and funding efforts with more than 16 federal and binational agencies, and with state, municipal, tribal, business, civic and other stakeholders. The focus of this work involves restoring habitat, reducing pollution, preventing the introduction of invasive species, reducing runoff, enhancing coastal health for people, fish and wildlife, and helping to educate future generations.

For more than two decades, Mr. Davis has worked to develop and implement water quality and quantity policy. Starting as a volunteer, he served as a litigating attorney, law teacher at the University of Michigan Law School, and as President & CEO of the Alliance for the Great Lakes. Under his leadership, the organization won the

American Bar Association's Distinguished Award in Environmental Law & Policy, the first time for a public interest organization in the honor's history. He earned his law degree, including certification in environmental and energy law, from the Chicago-Kent College of Law and a B.A. from Boston University in International Relations. He is the author of *Confluence* (BookSurge 2009).

David de Launay, Assistant Deputy Minister, Regional Operations Division, Ontario Ministry of Natural Resources

David de Launay is the Assistant Deputy Minister (ADM) of the Regional Operations Division of the Ontario Ministry of Natural Resources (MNR) where he is responsible for the delivery of a diverse range of programs that strive to ensure the sustainability of natural resources and achieve biodiversity conservation across the province. This delivery is achieved through 1,100 staff in three regional and 25 district offices.

An ADM in MNR since 2004, David has also held the position of Chief Administrative Officer, head of the ministry's Science and Information Resources Division and Director of OMNR's Lands and Waters Programs

It was during his time as Director that he had the honour of leading the Ontario team in the 1999-2005 negotiations that produced the Great Lakes – St. Lawrence River Basin Sustainable Water Resources Agreement. During this period, David was also an associate member of the Great Lakes Commission and sat on two boards of the International Joint Commission. He continues to support the efforts to protect this valuable freshwater system.

David has also led other strategic and complex files that required the balancing of protection objectives while recognizing opportunities for growth and economic development. Most recently he led the government's activity (2007- 2011) that resulted in the Far North Act, legislation that governs 42% of the northern and most remote areas of the province. The Act recognizes the commitment of Ontario to protect the unique ecology and boreal environment while enabling sustainable economic development opportunities benefiting First Nations and the province.

David has his Bachelor of Arts (Economics) from Trent University and lives with his wife and 17-year-old daughter in Peterborough, a small city 130 kilometres northeast of Toronto.

Philip J. Enquist, Partner, Skidmore, Owings & Merrill LLP

Phil Enquist leads the SOM City Design Practice and has brought a commitment to reshaping the urban future according to principles of sustainability and a profound respect for the environmental and human factors that illuminate each project. In 2009, the Chicago Tribune named Mr. Enquist and the SOM team "Chicagoans of the Year in Architecture," noting that, "SOM Chicago has distinguished itself in urban planning, through the city-friendly designs of Phil Enquist."

As Partner in Charge of Urban Design and Planning, for Skidmore Owings & Merrill LLP (SOM), Mr. Enquist pursues those qualities of urban life with a passion that has put him in the vanguard of planners who are experimenting with new, holistic ways of thinking about cities.

Given that over half the human race today dwells in cities, a compelling argument can be made that urban planning, with its bold objective to bring sustainable thinking to cities, regions and nations, may become the alpha design science of the 21st Century.

Mr. Enquist is currently working on a 100 year plan for the full Great Lakes water shed region of 50 million people in collaboration with the Great Lakes and St. Lawrence Cities Initiative.

Noah D. Hall, Associate Professor, Wayne State University Law School; Visiting Professor, University of Michigan Law School (Winter 2012)

Noah Hall is an Associate Professor at Wayne State University Law School and is a frequent visiting professor at the University of Michigan Law School. He previously served as the founding Executive Director of the Great Lakes Environmental Law Center (www.glelc.org), and he remains active in precedent-setting environmental litigation and policy development.

Professor Hall's research and scholarship focuses on Great Lakes transboundary water management and pollution, climate change adaptation, water law reform, U.S.-Canadian environmental law, and citizen enforcement. He is a co-author of one of the leading environmental law casebooks, "Environmental Law and Policy: Nature, Law, and Society" (Aspen Publishers) and a forthcoming casebook on water law, "Modern Water Law: Private Property, Public Rights, and Environmental Protection" (Foundation Press). His recent articles include "*Interstate Water Compacts and Climate Change Adaptation*" (Environmental & Energy Law & Policy Journal), "*Protecting Freshwater Resources in the Era of Global Water Markets: Lessons Learned from Bottled Water*" (Water Law Review), "*Political Externalities, Federalism, and a Proposal for an Interstate Environmental Impact Assessment Policy*" (Harvard Environmental Law Review), "*Transboundary Pollution: Harmonizing International and Domestic Law*" (University Michigan Journal of Law Reform), and "*Toward a New Horizontal Federalism: Interstate Water Management in the Great Lakes Region*" (Colorado Law Review). He also authors the popular "Great Lakes Law" blog (www.greatlakeslaw.org). All publications are available online at <http://www.greatlakeslaw.org/blog/publications-by-noah-hall.html>.

Before joining the Wayne State University Law School faculty, Professor Hall previously was an attorney with the National Wildlife Federation, managing the Great Lakes Water Resources Program for the nation's largest conservation organization. Professor Hall also worked in private practice for several years, representing a variety of business and public interest clients in litigated and regulatory matters. He has extensive litigation experience and numerous published decisions in state and federal courts, and continues to represent a variety of clients in significant environmental policy disputes.

Susan Hedman, Region 5 Administrator, United States Environmental Protection Agency

Susan Hedman was appointed by President Barack Obama to be EPA Region 5 Administrator on Earth Day 2010. She directs EPA's operations in the six-state Great Lakes region, which includes Illinois, Indiana, Ohio, Michigan, Wisconsin and Minnesota, as well as 35 federally recognized tribal governments. One of her most important roles is that of Manager of the Great Lakes National Program Office, which oversees restoration and protection of the largest freshwater system in the world. Millions of people depend upon the Great Lakes for drinking water and millions more recreate in and around the Great Lakes.

Prior to accepting the President's appointment, Dr. Hedman was environmental counsel and senior assistant attorney general in the Illinois Attorney General's office, where she focused on litigation and legislation relating to environmental protection, energy efficiency, renewable energy, carbon capture technology and associated consumer issues.

Dr. Hedman has over 30 years of experience in the environmental protection field. In the early 1980s she was on the faculty of Northland College in Ashland, Wisconsin, where she taught courses in environmental policy. Dr. Hedman then joined the faculty at the University of Maryland, where she taught environmental policy and law courses, supervised cases in the Environmental Law Clinic, and served as research director for the Center for Global Change.

In 1993, she moved to Chicago and began working for the Environmental Law and Policy Center, where she served as lead counsel for citizen groups involved in environmental cases throughout the Midwest. In 2000, she moved to Geneva, Switzerland, where she was in charge of the legal team for the United Nations tribunal that handled claims for environmental damage from the oil fires in Kuwait and releases of oil in the Persian Gulf, as well as the costs of de-mining and disposal of unexploded ordnance.

Dr. Hedman holds a Ph.D. from the Gaylord Nelson Institute of Environmental Studies, a M.A. from the Robert M. LaFollette School of Public Affairs, and a J.D. from the University of Wisconsin Law School in Madison, Wisconsin. She is a member of the bar in Illinois, Michigan and Wisconsin.

Henry Henderson, Director, Midwest Program, Natural Resources Defense Council

Henry Henderson is the director of NRDC's Midwest office, which opened in Chicago in 2007. Before joining NRDC, Henry served as a partner in the Chicago-based environmental consulting firm Policy Solutions Ltd. Henry was the founding commissioner for the City of Chicago's Department of Environment from 1992 to 1998. As commissioner, he developed an environmental mission for the city, which included the development of the Chicago Brownfield Initiative, a natural resources rehabilitation initiative, the city's energy policies and utility regulations, and Chicago's clean air initiative to improve regional air quality while promoting economic development. Henry served as the Illinois assistant attorney general from 1985 to 1987. Over the past 10 years he has taught environmental law and policy at the University of Chicago, the University of Illinois and Kent College of Law.

Gail Krantzberg, Professor, Civil Engineering; Director, Dofasco Centre for Engineering and Public Policy, School of Engineering Practice, McMaster University

Dr. Gail Krantzberg is actively engaged in research at the interface between science and public policy with extensive expertise on disciplines involving water, remediation of degraded freshwater ecosystems, regeneration policies for natural ecosystem assets, protection of human health, and the advancement of Great Lakes sustainability. She is currently Professor and founding Director of the ArcelorMittal Dofasco Centre for Engineering and Public Policy at McMaster University offering Canada's first Master's Degree in Engineering and Public Policy. At the Centre she has supervised the research of more than 60 successful Masters Students who currently are employed in the public and private sector. She worked for the Ontario Ministry of Environment from 1988 to 2001, as Coordinator of Great Lakes Programs and Senior Policy Advisor on Great Lakes. She is a past president of the International Association of Great Lakes Research sits on the Board of Directors for several Great Lakes and Policy related nonprofit organizations. Dr. Krantzberg was the Director of the Great Lakes Regional Office of the International Joint Commission from 2001 to 2005. She has authored more than 100 scientific and policy articles on issues pertaining to water quality, ecosystem health and sustainability and is a frequent speaker to media and the public.

David Naftzger, Executive Director, Council of Great Lakes Governors

David Naftzger serves as Executive Director of the Council of Great Lakes Governors, a non-partisan partnership of the Great Lakes Governors and Premiers created to advance the region's environmental health and high-performance economy. David directs government relations and communications, and serves as the Council's spokesperson. He has been widely quoted by media including *The Economist*, *New York Times*, *USA Today*, *Chicago Tribune* and many others. David facilitated the negotiation of the "Great Lakes Compact" and coordinates the Governors' broader efforts to restore and protect the Great Lakes. He also oversees six foreign trade offices promoting State exports and the regional tourism partnership.

Separately, David is an elected official serving as a Councilman in the City of Highland Park, Illinois. In this role, he serves more than 30,000 residents, makes local policy and helps steer the City's \$70 million budget.

Previously, David was a consultant and worked with a national initiative to improve public health through increased calcium intake. Before that, he was a government relations director for the National Conference of State Legislatures in Washington, D.C.

David earned a Master's degree in Economics from the London School of Economics, holds a Bachelor's degree in Political Science from DePauw University and studied at the University of Freiburg, Germany.

Kevin Shafer, Executive Director, Milwaukee Metropolitan Sewerage District

Kevin Shafer became executive director at the Milwaukee Metropolitan Sewerage District (MMSD) in March 2002. Prior to this, he served as MMSD's director of technical services since October 1998. In his current role as the executive director, he is responsible for the overall management, administration, leadership and direction for MMSD in meeting short- and long-term goals and objectives; coordinates the establishment of strategic goals and objectives and their approval by the Commission; oversees the development of policies and operating plans; and represents MMSD to its customers, bond rating agencies, and the public.

Since becoming executive director, Shafer has worked diligently on MMSD's \$1 billion Overflow Reduction Plan. Mr. Shafer has been instrumental in providing the regional leadership in implementing green infrastructure in MMSD facilities and on private property. This leadership has resulted in a new development approach by the communities and developers in the region.

He also coordinated a \$58 million long-range planning process that produced the most intensive water quality research ever for six Milwaukee area watersheds. Additionally, under his leadership, MMSD instituted a regional stormwater runoff rule and has been a leader for innovative ways to manage stormwater runoff.

Prior to joining the District, Shafer spent 10 years in private industry with an international engineering firm in Chicago and Milwaukee, and six years with the U.S. Army Corps of Engineers in Fort Worth, Texas.

Shafer received a bachelor's degree in science and civil engineering with a specialty in water resources from the University of Illinois in 1982, and a master's in science and civil engineering from the University of Texas in 1988. Shafer received the 2001 Individual Merit Award for Engineer in Government Service from the Wisconsin Section of the American Society of Civil Engineers. In 2007, Shafer received a National Award from Kodak American Greenways for MMSD's pioneering Greenseams project. He is the past president of the National Association of Clean Water Agencies.

Debra Shore, Commissioner, Metropolitan Water Reclamation District of Greater Chicago

Debra Shore is a member of the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago. The District, with its mission to treat waste water for five million residents of Cook County and numerous industries, has enormous impact on quality of life in the greater metropolitan region. Debra chairs the Stormwater Management committee and believes we must begin to view rainwater as a resource and not as a problem.

Before taking office in December 2006, Debra served as founding editor of *Chicago WILDERNESS* Magazine, a regional quarterly devoted to the rare nature of the Chicago region and to the more than 200 public and private organizations working together to protect, preserve, and manage the biological diversity of the region. Debra has been an active volunteer in habitat restoration in the Cook County forest preserves, and has served on the board of Friends of the Forest Preserves, the Illinois Environmental Council, and the women's board of the University of Chicago. She is currently board chair of the Gay & Lesbian Victory Institute and serves on the board of her congregation, Sukkat Shalom in Wilmette, and the Great Lakes Protection Fund.

Debra lives with her partner, Kathleen Gillespie, in Evanston and has a 28- year old son, Ben Smith. She has climbed 42 of the 54 mountains in Colorado more than 14,000 feet high.

Edward Tanzman, Co-director, Center for Integrated Emergency Preparedness Decision and Information Sciences Division, Argonne National Laboratory

Edward Tanzman manages emergency management programs totaling approximately \$10 million annually, including the Chemical Stockpile Emergency Preparedness Program, Public Health Emergency Preparedness Training Course, and Support Program for The University of Chicago Hospitals Terrorism and Disaster and Terrorism Response Planning Process. He administers a group of 20 full-time planners, risk communications

specialists, and social scientists, plus various adjunct professionals who investigate a variety of emergency management problems for government and private program sponsors.

Mr. Tanzman has 25 years of experience analyzing unusually complex domestic and international legal questions; assisting all levels of government and private firms in planning, training, and exercising for radiological, chemical, and biological emergencies; advising U.S. negotiators on constitutional issues raised by on-site inspection verification provisions in international arms control agreements; teaching international audiences about options for arms control compliance legislation; analyzing technically difficult environmental and energy law questions; and leading multidisciplinary project teams.

Mr. Tanzman received a J.D. from the Georgetown University Law Center and a B.A. in Political Science from The University of Chicago.

David Ullrich, Executive Director, Great Lakes and St. Lawrence Cities Initiative

David Ullrich is the Executive Director of the Great Lakes and St. Lawrence Cities Initiative. His responsibilities include working with U.S. and Canadian mayors from across the Great Lakes and St. Lawrence Basin to advance the protection and restoration of the resource. The Initiative leads many efforts to accelerate the work to become a more sustainable region by integrating the environmental, economic, and social activities to improve the quality of life and well being of its people.

Prior to assuming his current position, Mr. Ullrich served for thirty years at the U.S. Environmental Protection Agency's Great Lakes regional office in Chicago, working on environmental issues in the six states of the upper Midwest. He worked in many capacities over the years, including Acting Regional Administrator, Deputy Regional Administrator, Waste Management Division Director, Deputy Regional Counsel, Air Enforcement Chief, and Water Enforcement Attorney. For six years, he was the U.S. Chair of the Water Quality Board for the International Joint Commission, and was a founding member and chair of the Midwest Natural Resources Group. He continues to serve on the Water Quality Board, and in 2006 was appointed by the President to the Great Lakes Fishery Commission where he serves as U.S. Section Chair. In 1986, he completed a six month executive exchange assignment with the German Interior Ministry. U.S. EPA recognized Mr. Ullrich for a number of his accomplishments during his public service career.

Mr. Ullrich graduated from Dartmouth College in 1970 with a degree in English and received his law degree from the University of Wisconsin Law School in 1973, with an emphasis in environmental law. He is a runner and outdoor sportsman. He was married for 39 years to the late Polly Ullrich, an art critic, curator, teacher, and ceramic artist, and their son Eric is a student at the University of Illinois at Champaign-Urbana majoring in environmental science.

Philip W. Willink, Fish Biologist, Field Museum of Natural History

Philip Willink, Ph.D., is in the Fish Division of The Field Museum. He has traveled around the world to study fishes, including such places as Bolivia, Brasil, Guatemala, Guyana, Jamaica, Madagascar, Mexico, Papua New Guinea, Peru, Suriname, United States (including Great Lakes and Chicago Region), and Venezuela. His research interests include the discovery of new species, distribution of fishes in relation to habitat and geography, historical changes in fish communities in response to humans modifying aquatic environments, foraging ecology, conservation, writing field guides, and invasive species. He has helped film nature documentaries with BBC / Discovery Channel and National Geographic Channel, as well as providing information for Animal Planet's *River Monsters*.