

Program

Massachusetts Shale Gas Forum

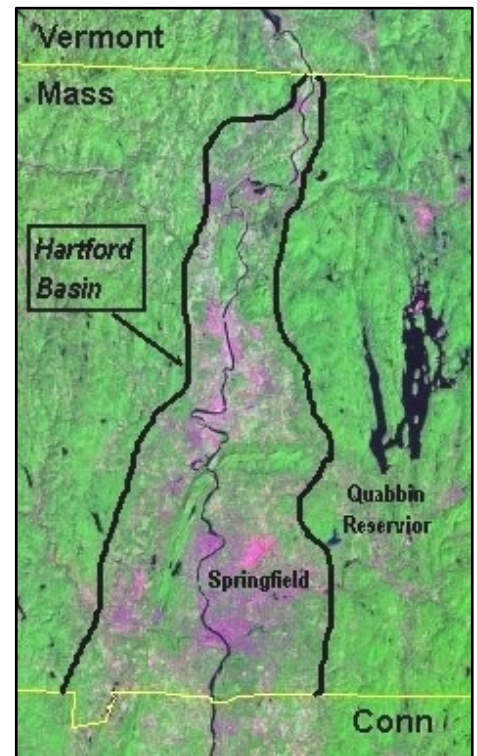


December 13th, Amherst, Massachusetts
University of Massachusetts - Amherst
Lincoln Campus Center, One Campus Center Way
Room 163C



Program Organizer:
American Ground Water Trust
Concord, NH
501(c)(3) education organization

- ◆ WATER SUPPLY ◆
- ◆ LITIGATION ◆
- ◆ LEGISLATION ◆
- ◆ REGULATIONS ◆
- ◆ ENVIRONMENT ◆
- ◆ REGIONAL IMPACTS ◆
- ◆ EXPERIENCE IN OTHER STATES ◆
- ◆ SOURCE PROTECTION ◆
- ◆ CARBON FOOTPRINT ◆
- ◆ BEST PRACTICES ◆
- ◆ EXIT STRATEGY ◆
- ◆ LEASE DEALS ◆
- ◆ SECONDARY IMPACTS ◆
- ◆ INFORMATION EXCHANGE ◆
- ◆ REGIONAL IMPACTS ◆
- ◆ TECHNOLOGY ◆
- ◆ SCIENCE ◆
- ◆ JUST THE FACTS! ◆



Program Presentations & Discussion will be of Interest to:

Landowners
Town Officials
Chambers of Commerce
Environmental/ Conservation Groups

Elected Representatives
Planners and Planning Boards
Conservation Commissions
All Welcome!

American Ground Water Trust

The American Ground Water Trust is a national not-for-profit public education organization. The Trust's mission:

- ◆ Promoting efficient and effective ground water management
- ◆ Communicating the environmental and economic value of ground water
- ◆ Showcasing ground water science and technology solutions
- ◆ Increasing citizen, community and decision-maker awareness
- ◆ Facilitating stakeholder participation in water resource decisions

Program

- 8:00 – 9:00** **REGISTRATION**
- 9:00 – 9:30** **PUBLIC PERCEPTIONS & MIS-PERCEPTIONS OF SHALE-GAS DEVELOPMENT IMPACTS**
Garret Graaskamp, Hydrogeologist, American Ground Water Trust, Concord, NH
- 9:30 – 10:00** **THE GEOLOGY OF THE HARTFORD BASIN**
Richard Little, Professor Emeritus of Geology, Greenfield Community College, Greenfield, MA
- 10:00 – 10:30** **USGS 2011 OIL AND NATURAL GAS RESOURCE ASSESSMENT OF THE EAST COAST MESOZOIC BASINS, WITH EMPHASIS ON THE HARTFORD BASIN - CT & MA**
James Coleman, Jr., Research Geologist, United States Geological Survey, Reston, VA
- 10:30 – 10:45** **NETWORKING BREAK**
- 10:45 – 11:15** **THE ROLE OF STATE AND LOCAL GOVERNMENT IN SHALE GAS DEVELOPMENT**
Gregor McGregor, Esq., McGregor & Associates, Boston, MA
- 11:15 – 11:45** **GROUNDWATER RESOURCES: WHAT TO EXPECT WHEN YOU ARE EXPECTING SHALE GAS DEVELOPMENT IN YOUR AREA**
Aaron Collier, PG, Hydrogeologist, Collier Consulting, Inc., Stephenville, TX
- 11:45 – 1:15** **LUNCH (On your Own -- UPub and Blue Wall restaurants are available in the Conference Center)**
- 1:15 – 1:45** **WATER LAW AND POTENTIAL SHALE GAS DEVELOPMENT IN MASSACHUSETTS**
Julie Steiner, Esq., Professor, Western New England Univ. School of Law, Springfield, MA
- 1:45 – 2:15** **EFFECTIVE GROUNDWATER PROTECTION STRATEGIES DURING SHALE GAS EXTRACTION**
Emily Mercurio, Ph.D., Geologist, Cabot Oil and Gas, Pittsburgh, PA
- 2:15 – 2:45** **SHALE GAS AND LITIGATION: WHO IS SUING WHOM AND FOR WHAT REASON?**
J. Gregory Lahr, Esq. and Martin Eide, Esq., Sedgwick LLP, New York City, NY
- 2:45 – 3:00** **NETWORKING BREAK**
- 3:00 – 3:30** **SCIENCE AND ENVIRONMENTAL RISK ASSESSMENT FOR SHALE GAS DEVELOPMENT**
Peter Murdoch, Research Hydrologist, United States Geological Survey, Troy, NY
- 3:30 – 4:00** **LANDOWNER AGREEMENTS AND SHALE GAS EXTRACTION**
Alan Mandl, Esq., Law office of Alan Mandl, Wayland, MA
- 4:00 – 4:30** **SIERRA CLUB PERSPECTIVE ON POTENTIAL SHALE GAS DEVELOPMENT IN MASSACHUSETTS**
Peter Vickery, Esq., Law office of Peter Vickery, Amherst, MA
- 4:30 – 4:45** **WRAP UP AND ADJOURN**

FORUM SPEAKERS - SHALE GAS IN MASSACHUSETTS
PRESENTATION TOPICS AND PRESENTER BACKGROUND
(Listed in presentation order)

PUBLIC PERCEPTIONS & MIS-PERCEPTIONS OF SHALE-GAS DEVELOPMENT IMPACTS ON THE ENVIRONMENT AND WATER SUPPLY INTEGRITY

Garret Graaskamp, Hydrogeologist, American Ground Water Trust, Concord, NH

Garret Graaskamp is a water resource specialist at the American Ground Water Trust. He has over 25 years of ground water experience as a ground water consultant, ground source heating and cooling designer and ground water advocate and educator. He has first-hand experience in source water assessment, ground water remediation, and ground source heating and cooling system design. Garret has convened and coordinated over one-hundred conference programs related to source water protection, ground source heating and cooling technology, habitat and ground water assessment and management and public health oversight of private wells.

THE GEOLOGY OF THE HARTFORD BASIN

Richard Little, Professor Emeritus of Geology, Greenfield Community College, Greenfield, MA

Richard Little, Professor Emeritus, Greenfield Community College earned his BA and MA degrees from Clark University and the University of Southern California, respectively. His thesis involved field work along the coast of Iran and Pakistan. Upon arriving in the Connecticut River Valley in 1969, he soon concluded that this is the best place in the world to teach geology. To this end he has written two books and produced two video programs on Connecticut Valley geology and has presented programs on local geology to hundreds of school and adult groups. He also leads small group "Fantastic Landscapes" tours to North America's spectacular locations. He is the discoverer of rare sedimentary features called armored mud balls. For more information please visit his web site: www.EarthView.Pair.com.

USGS 2011 OIL AND NATURAL GAS RESOURCE ASSESSMENT OF THE EAST COAST MESOZOIC BASINS, WITH EMPHASIS ON THE HARTFORD BASIN - CT & MA

James Coleman, Jr., Research Geologist, United States Geological Survey, Reston, VA

Jim Coleman is a Research Geologist with the U. S. Geological Survey (USGS) conducting studies on the oil and natural gas resources of several basins in the United States, including the Gulf of Mexico, Ouachita-Arkoma, Appalachian, and East Coast Mesozoic basins. Prior to his current assignment, he served as the Science Center Director of the USGS Eastern Energy Resources Science Center, which conducts research and resource assessments on fossil fuel resources and examines the effects of their presence and use on human health and the environment.

At the USGS, he continues his research on unconventional gas systems and oil and gas resource assessments. Before joining the USGS in 2003, Jim worked for 25 years with Amoco and BP on a variety of international and domestic oil and gas exploration and production and produced water management projects. Jim has published articles on unconventional gas reservoirs, oil and gas resource assessments, basin and petroleum system evolution, deep water sandstone deposition and reservoir development, thrust- and fold-belt structural geology and petroleum accumulations, and carbonate sedimentology. He received an M.S. in geology from Mississippi State University in 1978.

THE ROLE OF STATE AND LOCAL GOVERNMENT IN SHALE GAS DEVELOPMENT

Gregor McGregor, Esq., McGregor & Associates, Boston, MA

Gregor I. McGregor is a founding partner of the Boston environmental law firm of McGregor & Associates, P.C. His cases in court during 30 years in practice have broken new ground in the law of environmental impact statements, wetland and floodplain protection, hazardous waste liability, land preservation, Home Rule environmental legislation, and the constitutional doctrine of "taking without compensation." He has been in the private practice of law since 1975. Until then he was an Assistant Attorney General and the first Chief of the Division of Environmental Protection in Massachusetts. Since then he has been a leading environmental attorney in New England. Mr. McGregor has written and spoken widely on environmental subjects.

He is Editor of the authoritative two-volume treatise, *Massachusetts Environmental Law*, published by Massachusetts Continuing Legal Education, Inc. (MCLE). He is Contributing Editor to the Business & Legal Reports, Inc. monthly newsletter, *Environmental Compliance in Massachusetts*. He writes the Massachusetts chapters for Mathew-Bender's treatises on *Brownfields* and on *State Environmental Law*. He is a co-founder of the national Environmental Law Network linking specialty law firms to better serve their clients. Mr. McGregor served twice as President of the Massachusetts Association of Conservation Commissions (MACC) and was presented the Environmental Leadership Award by the New England Environmental Network, the Environmental Merit Award by EPA, and the National Wetlands Award by the Environmental Law Institute. He is a graduate of Dartmouth College and Harvard Law School.

GROUNDWATER RESOURCES: WHAT TO EXPECT WHEN YOU ARE EXPECTING SHALE GAS DEVELOPMENT IN YOUR AREA

Aaron Collier, PG, Hydrogeologist, Collier Consulting, Inc., Stephenville, TX

Mr. Collier is a hydrogeologist with Collier Consulting, a Texas based geosciences, environmental, and engineering firm. Aaron has over 10 years of experience in consulting, research, and technical support for litigation. His role at Collier Consulting is primarily lead investigator or project manager for many of the projects that have a hydrogeologic component. He has a geology degree from Tarleton State University and Masters in hydrogeology from the University of Texas in San Antonio. Aaron is licensed as a Professional Geologist in Texas.

Aaron, along with his colleagues at Collier Consulting, has conducted hydrogeological investigations throughout the United States. Recent projects have included groundwater contamination investigations, hydrogeologic and engineering services for groundwater development, surface and borehole geophysics for environmental and geotechnical applications, characterization of subsurface contaminant migration pathways, groundwater modeling, and regional water planning for agricultural, municipal, and industrial clients. Since the development of shale gas plays and the need for water for hydraulic fracturing, Collier Consulting has been working with industry, land owners, and governmental entities to ensure that the water needed for the oil and gas operators' purposes are met, while minimizing the effects on neighboring groundwater users.

WATER LAW AND POTENTIAL SHALE GAS DEVELOPMENT IN MASSACHUSETTS

Julie Steiner, Esq., Assistant Professor, Western New England Univ. School of Law, Springfield, MA

Professor Steiner teaches basic and advanced coursework in Environmental Law, Toxic Torts and Land Use. Prior to her appointment at Western New England University School of Law, she was a member of the full-time faculty at St. John's University School of Law. Before entering academia, Professor Steiner practiced for over a decade in the Environmental, Land Use and Natural Resource Departments of two major New York City law firms. During that time, she provided legal representation to the private sector on a variety of environmental and land use matters, including regulatory compliance, remediation efforts and liability, and environmental risk management. She previously served as an editor of the American Bar Association Energy Litigation Journal. Professor Steiner is a graduate of Boston University School of Law.

EFFECTIVE GROUNDWATER PROTECTION STRATEGIES DURING SHALE GAS EXTRACTION

Emily Mercurio, Ph.D., Geologist, Cabot Oil and Gas, Pittsburgh, PA

A native of southwestern Pennsylvania, Emily Constantine Mercurio obtained a B.S. in Geosciences from Pennsylvania State University, a M.S. in Geology from Michigan Technological University, and a Ph.D. in Geology from the University of Pittsburgh. Before joining Cabot Oil and Gas in 2011, she worked for nine years in GIS and remote sensing with a focus on creating and implementing innovative mapping techniques for environmental projects in California and the northeastern United States. Dr. Mercurio's current professional and academic interests are in the geology of shale gas reservoirs, the groundwater geology of Pennsylvania, volcano-ice/water interaction, and high-temperature geothermal systems. Personal interests include community-supported agriculture, K-12 science education, sustainability, and the arts.

SHALE GAS AND LITIGATION: WHO IS SUING WHOM AND FOR WHAT REASON?

J. Gregory Lahr, Esq. and Martin Eide, Esq., Sedgwick LLP, New York City, NY

J. Gregory Lahr is a partner at Sedgwick LLP. Attorney Lahr litigates complex commercial disputes, prepares coverage analyses and litigates and provides counseling on insurance coverage matters involving first- and third-party property and casualty, environmental, directors and officers' professional liability and employment practices claims. Mr. Lahr's clients represent a cross section of industries and include insurers, environmental contractors, airlines, employment staffing companies and recruiters. He has lectured on coverage litigation issues relating to mold, pollution and the discovery process. Greg received a B.A. from Providence College and his law degree from The Catholic University of America, Columbus School of Law (cum laude).

Martin Eide is an Associate with Sedgwick LLP. Attorney Eide's practice focuses on complex litigation matters including commercial contract and coverage disputes for property, casualty and environmental insurers. Before joining the firm, he served as a senior environmental claims analyst for a major international insurer as well as an environmental health and safety regulatory affairs specialist in the paper and chemical industries. Mr. Eide wrote "Shale Gas Development & Hydraulic Fracturing: The Risk & Insurance Issues" co-presented at a private seminar for Iron Starr Excess Agency Ltd., Hamilton, Bermuda (April 2012) and co-authored with Stevi Raab, "New EPA Rules Regarding Air Pollution from Natural Gas Wells," Sedgwick's Hydraulic Fracturing Digest (June 2012). Martin received a B.S. from Rutgers University and his law degree from Seton Hall University School of Law.

SCIENCE AND ENVIRONMENTAL RISK ASSESSMENT FOR SHALE GAS DEVELOPMENT

Peter Murdoch, Research Hydrologist, United States Geological Survey, Troy, NY

Pete Murdoch currently serves as a Science Advisor to the USGS Regional Executive for the Northeast Area. He has spent most of his career to date as a Research Hydrologist with the Watershed Research Group of the US Geological Survey in Troy, New York. From 1982 to 2006 he lead research projects on watershed biogeochemical processes, and the effects of acid rain and climate change on aquatic systems. In the mid-1990s he served as the Department of Interior (DOI) representative to the White House Committee on Environmental and Natural Resources (CENR), where he co-authored the "Framework for Environmental Monitoring and Research." In 2004-06, he served as the DOI representative to an interagency committee that oversees the North American Carbon Program. From 2008-2010 he served as the Coordinator of the DOI National Climate Effects Network (CEN), which was initiated in the Yukon River Basin in 2008 to test integrated research and monitoring strategies for addressing complex environmental issues. As CEN Coordinator, he was a frequent invited speaker at conferences and took on many national and international roles in the planning of continental and global strategies for understanding and tracking the effects of climate change on ecosystems and natural resources. With the suspension of CEN activities in 2011, Pete stepped back from leadership in climate change discussions and assumed the NE Area Science Advisor role. In this new role, Pete has been helping coordinate a multi-agency team of scientists in developing a set of monitoring and research recommendations in response to the expended energy development in the Northern Appalachian region. In 1999 he was awarded the DOI Meritorious Service Award for his contributions to the science of biogeochemistry and his volunteer efforts in environmental education of the public.

LANDOWNER AGREEMENTS AND SHALE GAS EXTRACTION

Alan Mandl, Esq., Law office of Alan Mandl, Wayland, MA

Alan D. Mandl has over 30 years' experience representing corporate, governmental and consumer interests in energy, telecommunications and cable television regulatory and contract-related matters. He formerly served as an Assistant Attorney General and Chief of the Massachusetts Attorney General's Utilities Division. In the energy field, Mr. Mandl has handled numerous utility rate cases and related regulatory proceedings, including zoning exemption matters. He has represented municipal utilities, public authorities and municipalities in connection with competitive procurements of electric power supply, solar power purchase agreements, ESCO agreements and related regulatory issues. He has represented clients in connection with the siting of communications and energy facilities. Most recently, Mr. Mandl has combined private practice with service as an Assistant City Solicitor in the City of Newton Law Department, where he specializes in energy and communications, including leasing of municipal building space for energy and communications purposes. He is trained as a mediator and assisted the New Hampshire Public Utilities Commission with a complex mediation involving multiple parties and the flow through of refunds from a waste to energy facility owner to an electric utility and its customers. Mr. Mandl is a graduate of Yale University and Boston College Law School. He is a member of the Massachusetts and Rhode Island bars.

SIERRA CLUB PERSPECTIVE ON POTENTIAL SHALE GAS DEVELOPMENT IN MASSACHUSETTS

Peter Vickery, Esq., Law Office of Peter Vickery, Amherst, MA

Peter Vickery is a graduate of Oxford University (Jesus College), the University of the West of England, Boston University School of Law, and the Center for Public Policy & Administration at the University of Massachusetts, Amherst. He is a former member of the Governor's Council, the elected body that reviews the Massachusetts governor's nominations to the state courts, and currently practices law in Amherst, Western Massachusetts. Peter's practice focuses on counseling — and resolving disputes for — individuals and small businesses in the areas of employment, discrimination, and trademark law. In addition to practicing law, Peter has taught courses on public policy, legislative drafting, and negotiation. He is an active Green and a member of the Sierra Club.

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