

SHALE-GAS DEVELOPMENT AND WATER ISSUES

Solutions to energy industry water needs for shale-gas development & operation
and long-term water resources sustainability

Thursday March 22 and Friday March 23, 2012

Austin Marriott South, 4415 S IH-35, Austin, Texas 78744

This conference program will provide a balanced information-exchange opportunity among the energy industry, the water industry and citizens and communities with an interest in the economic potential of shale gas development and the long-term environmental sustainability of water sources and water dependent ecosystems.

Symposium organizers:

American
Ground Water
Trust



American Institute
of Professional
Geologists

In cooperation with:



BUREAU OF
ECONOMIC
GEOLOGY

SIPES

Society of Independent Professional Earth Scientists



Society of Independent Professional Earth Scientists.
Texas Groundwater Association
'Energy Institute – University of Texas at Austin'
Bureau of Economic Geology
Jackson School of Geosciences, University of Texas at Austin
International Association of Hydrogeologists Commission on Groundwater for Decision Makers

Event Sponsors

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PROGRAM – Thursday, March 22

10:00 – 11:00 REGISTRATION AND EXHIBITS

11:00 – 12:30 Session 1 SHALE GAS

So where is all this gas? What are the economic drivers and development projections?

11:00 – 11:15 WELCOME AND PROGRAM INTRODUCTION

Presenters from AIPG & AGWT

11:15 – 11:45 GEOLOGIC ORIGINS AND GEOGRAPHIC DISTRIBUTION OF NORTH AMERICAN SHALE-GAS

Presenter 1

11:45 – 12:15 CURRENT STATUS OF DEVELOPMENT OF THE SHALE GAS INDUSTRY IN TEXAS

Presenter 2

12:15 – 1:30 LUNCH AND KEYNOTE PRESENTATION

12:15 – 1:00 Luncheon

1:00 – 1:30 Keynote Presentation



**Scott Tinker, Director, Bureau of Economic Geology,
Jackson School of Geosciences, University of Texas at Austin**

Scott Tinker's passion is education. Toward this end, Scott is actively engaged in building bridges between academia, industry, and government. Scott weaves energy, the environment, and the economy into his talks, in which he envisions a very challenging, but positive, global future. In visiting more than 45 countries and numerous cities in the United States, Scott has given more than 400 invited and keynote lectures. His latest educational project is a major documentary film on global energy. It is from these experiences and passions that Dr. Tinker has developed a vision for America's energy future. He concludes that energy security – available, affordable, reliable, and environmentally sustainable – must drive energy policy and that efficiency and diversity are key elements to long-term energy security. Ultimately, energy security requires a reasoned balance among energy, environment, and the economy.

Dr. Tinker worked in the oil and gas industry for 17 years in research, exploration, and development, prior to coming to The University of Texas at Austin in 2000. Scott has been a licensed professional geoscientist in Texas since 2003. He is very active in professional organizations and societies and is the past President of the American Association of Petroleum Geologists and the Association of American State Geologists. He will serve as President of the Gulf Coast Association of Geological Societies in 2012. Dr. Tinker also holds appointments to the National Petroleum Council and the Interstate Oil and Gas Compact Commission, and he currently serves on several private, university, and professional boards. Dr. Tinker is the Director of the Bureau of Economic Geology (BEG) and the Director of the Advanced Energy Consortium. He is also the acting Associate Dean for Research and Professor, and he holds the Allday Endowed Chair in the Jackson School of Geosciences at The University of Texas at Austin. He graduated *magna cum laude* with a B.S. in Geology and Business Administration from Trinity University. He received his M.S. in Geology from the University of Michigan and his Ph.D. in Geosciences from the University of Colorado.

**Charles G. Groat, Associate Director, Energy Institute
Jackson School of Geosciences, The University of Texas at Austin**



Chip Groat rejoined The University of Texas at Austin as Director of the Center for International Energy and Environmental Policy and Director and Graduate Advisor of the Energy and Earth Resources Graduate Program in June 2005. He holds the John A. and Katherine G. Jackson Chair in Energy and Mineral Resources in the Department of Geological Sciences, Jackson School of Geosciences, and is Professor, LBJ School of Public Affairs. He assumed these positions after serving 6 ½ years as Director of the U.S. Geological Survey, Department of the Interior, having been appointed by President Clinton and retained by President Bush. He served as interim dean of the Jackson School of Geosciences at UT from July 2008 to August 2009. His previous experience at UT was as Associate Director and Acting Director of the Bureau of Economic Geology and Associate Professor of Geological Sciences. He was appointed an Associate Director of the Energy Institute in the spring of 2010.

Prior to his position with the U.S. Geological Survey, he was Associate Vice President for Research and Sponsored Projects at The University of Texas at El Paso following a term as Director of the Center for Environmental Resource Management and Professor of Geological Sciences there. He also directed the interdisciplinary Environmental Science and Engineering Ph.D. program at UTEP. His previous experience includes Chairman of the Department of Geological Sciences at The University of Texas at El Paso; State Geologist and Director of the Louisiana Geological Survey; Assistant to the Secretary of the Louisiana Department of Natural Resources administering the Coastal Zone Management and Coastal Protection programs; Professor of Geology and Geophysics and Director of the Center for Coastal, Energy and Environmental Resources at Louisiana State University; and Executive Director of the American Geological Institute.

He has been a member of the National Research Council Board on Earth Sciences and Resources and the Outer Continental Shelf Policy Board. He is a past President of the Association of American State Geologists and of the Energy Minerals Division and Division of Environmental Geosciences of the American Association of Petroleum Geologists. He has been a member of and chaired several National Research Council study panels.

His degrees in geology are from the University of Rochester (A.B.), University of Massachusetts (M.S.), and The University of Texas at Austin (Ph.D.).

12:00 – 12:15 Wrap-up and Adjourn

American Ground Water Trust - American Institute of Professional Geologists

The American Institute of Professional Geologists (AIPG), was founded in 1963, and is the largest association dedicated to promoting geology as a profession. It presently has more than 5,500 members in the U.S. The purposes of the Institute:

- Advance the geological sciences and the profession of geology
- Establish qualifications for professional geologists
- Certify the qualifications of specific individual Member geologists to the public
- Promote high standards of ethical conduct among its Members and Adjuncts, and within the profession of geology
- Represent, and advocate for, the geological profession before government and the general public.

The American Ground Water Trust AGWT was formed in 1986 as a non-profit education organization with the mission of promoting interest and awareness in ground water issues and to achieve the objective of science-based water resources policies at local, state and federal level. Specifically, the AGWT's conference and workshop programs and educational materials seek to:

- Communicate the environmental and economic value of ground water
- Showcase ground water science and technology solutions
- Increase citizen, community and decision-maker awareness
- Facilitate stakeholder participation in water resource decisions