

# OIL & GAS DEVELOPMENT AND WATER ISSUES

Conference to showcase water use and treatment technologies and water re-use opportunities related to oil & gas development and operations

Houston, Texas – Tuesday March 11 and Wednesday March 12, 2014

Conference Venue: Norris Conference Center

816 Town & Country Blvd., Suite 210

Houston, Texas 77024



*This conference on shale-gas and water issues is the third one convened in Texas by AIPG and AGWT. It will bring both water and energy professionals as presenters. Their informed knowledge and familiarity with the industry and the issues will provide an information exchange opportunity among citizens, communities and water and energy professionals. The 2012 and 2013 events were recognized as great source of technical and scientific information presented in an objective and easy-to-understand format.*

*Drought conditions in oil & gas producing regions bring water use, water quality and the concept of water “sharing” into sharp focus from technical, environmental, political and economic perspectives. Public perceptions play an important role in energy/water policy decisions. Water resources managers, water end-users, water planners and environmental NGOs have much to gain from a closer understanding of the actual water requirements of the energy industry and the advances in technology for water use, water treatment and water conservation. The last few years have seen increasing interest in options for oil & gas industry waste-water disposal and the economic potential for re-use in municipal, industrial or agricultural markets.*



*Ignorance is the worst enemy for the development of acceptable policy solutions and reasonable regulations. The best solutions will come from informed awareness that is based on science and fact. To that end, the AGWT and AIPG are acting as “honest brokers” of information about the geological, technical, economic, environmental and regulatory issues at the heart of the energy & water nexus.*



Program jointly organized by:  
American Institute of Professional Geologists  
and American Ground Water Trust



In cooperation with:

Society of Independent  
Professional Earth Scientists



With Special Thanks to the SIPES Houston Chapter



American Geosciences Institute  
Society of Independent Professional Earth Scientists  
International Association of Hydrogeologists Commission on Groundwater for Decision Makers

**CURRENT WATER/ ENERGY ISSUES AND LATEST INDUSTRY TECHNOLOGIES RELATED TO WATER USE, TREATMENT AND DISPOSAL IN OIL & GAS EXPLORATION, DEVELOPMENT AND OPERATION**

**Program - Tuesday March 11th**

9:00 – 10:00 REGISTRATION (coffee)

**10:00 – 10:10 WELCOME AND INTRODUCTION**

Wendy Davidson, Assistant Director, American Institute of Professional Geologists, Thornton, CO

10:10 – 10:35

Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

**Water Supply, Environment and the Oil & Gas Industry**

10:35– 11:10

James Welch, Global Business Development Manager – Water Solutions, Halliburton Energy Services, Inc, Houston, TX

**Water use and management strategies for oil & gas operations**

11:10– 11:45

Jay Accashian, Client Service Manager, CDM Smith, Houston, TX

**Water resource management, treatment and infrastructure approaches**

11:45 – 12:20

Chris Hosek, Principal, Texas Star Alliance, Austin TX

**Texas Oilfield Recycling - the Past, Present and Future**

12:20 – 1:50

LUNCH

**LUNCH-TIME KEYNOTE PRESENTATION (1:20 – 1:50)**



John Tintera, Geologist at Sebree & Tintera, (Executive Director of Railroad Commission of Texas 1990-2012), Austin, TX

**High profile and politically charged issues regarding water, Texas, American national and international interests, and energy**

John Tintera is a regulatory expert and licensed geologist (Texas #325) with a thorough knowledge of virtually all facets of upstream oil and gas exploration, production and transportation, including conventional and unconventional reservoirs. As a former Executive Director and 22-year veteran of the Railroad Commission of Texas (RRC), considered the premier oilfield regulator in the nation, John oversaw the entire regulatory process, from drilling permits to compliance inspections, oil spill response, pollution remediation and pipeline transportation.

Mr. Tintera has BS and MS degrees in Geology from Michigan State University and almost 30 years of combined technical and managerial experience: 11 years as an industry petroleum geologist and 18 years as a state regulator. He has an in-depth knowledge of the state and federal regulatory framework of the E&P industry, including RCRA, CERCLA, SDWA and OPA. In addition, Mr. Tintera has a comprehensive knowledge of environmental assessment, remediation and emergency response.

1:50 -2:25

Bob Barrett, Director/Geologist and Frank Amend, Director, Materials & Products, GeoStabilization International, Grand Junction, CO

**Geotechnical guidelines and strategies for mitigating environmental impacts of oil & gas well pads, access roads and pipelines**

2:25 – 3:00

Kevin King, Director of Global Sales, Aston Evaporative Services, Grand Junction, CO

**Accelerated Natural Evaporation technology for on-site frac & produce water disposal**



3:00 - 3:20 BREAK

3:20 – 3:55

Pete Spicer, ConocoPhillips Company, Houston, TX  
**Use and management of “Challenged” water resources in the Eagleford**

3:55 – 4:30

Hughbert Collier, President – Hydrogeologist, Collier Consulting, Stephenville, TX  
**Water, Water Everywhere...Utilizing What’s Not Fit to Drink**

4:30 - 5:05

David P Ross, Attorney, Sedgwick LLP, Washington DC  
**Oil & Gas and Water: Federal Regulatory Developments to Watch for in 2014**



**Program - Wednesday March 12<sup>th</sup>**

7:15 – 8:30 REGISTRATION (coffee continental breakfast)

8:30 – 9:05

Wesley McCoy, TX Board of Professional Geoscientists and Christopher C. Mathewson, Regents Professor, Emeritus, Department of Geology & Geophysics, Texas A&M University, College Station, TX  
**Texas exempts “the exploration for and development of oil, gas and other minerals” from licensure: Is this in the public interest?**

9:05 – 9:40

Russ Mack, Industrial Business Development Manager, Layne Energy Inc., Houston, TX  
**Treatment technologies for frac water**

9:40 – 10:15

Elizabeth Fazio, General Counsel & Committee Director - Committee on Natural Resources, Texas House of Representatives, Austin, TX  
**House Bill 4, SWIFT funding for Texas water projects**

10:15 – 10:30 BREAK

10:30 – 11:05

Bridget Scanlon, Senior Research Scientist, Bureau of Economic Geology, University of Texas Austin, Austin, TX  
**Using natural gas for electricity generation is saving water and making Texas less vulnerable to drought**

11:05 – 11:40

Jeff Hubbard, Director, Environmental Practice, Towerstone Inc., Dallas TX  
**How insurance carriers assess risk when underwriting oil & gas operations**

11:40 – 12:15

Robert Traylor, Geologist, Austin, TX (Advisor to the Texas Rail Road Commission)  
**Discussion of economic and environmental issues related to oil & gas development**

12:15 – 12:30

### CONFERENCE CLOSING KEYNOTE



Colin Tyrie, Secretary. Produced Water Society, Houston, TX

Colin Tyrie is the owner and Principal Consultant of Clean H2O Services Inc and has been active in the industry for forty four years specializing in solving the problems found with the clean up of produced and allied oilfield waters for both reinjection and overboard discharge.

He is the founder and secretary of the **Produced Water Society** the members of which are engineers and industry professionals with the common purpose to study and improve the separation, treatment, analysis of Offshore and Onshore Produced Water with the goal to meet the discharge and operation requirements of the industry and the environment.

Colin has written many papers on produced water and is a past Distinguished Lecturer for the SPE. He was educated in Wales and Scotland and has a degree in Mechanical Engineering



### CONTINUING EDUCATION



Geologists:

AIPG will award 1 CEU or 10 PDH's to conference attendees

Other participants:

Certificates of attendance from the AGWT will be available for all attendees who complete sign-in and sign-out forms

### 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

