

Oklahoma Water Survey

Education, Research, Outreach on Water Issues

Dr. Robert Puls, Director

10/30/2012



Oklahoma Water Survey

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Oklahoma Water Survey

Established by the University of Oklahoma Regents, January
26, 2011



to study the state's water resources and to collect, analyze, interpret and disseminate research-based information about water to researchers, students, teachers, citizens, state and tribal governments, businesses and organizations.



Oklahoma Water Survey

...serve as an open, trusted source of information that will be constantly updated with the most recent data, methods and applications



Workshop Objectives

- 💧 **Present** current scientific state of knowledge on oil and gas operations and protection of water resources
- 💧 **Identify** needed research
- 💧 **Provide** opportunity for participants to interact with technical experts and gain up-to-date information
- 💧 **Elevate** the knowledge level among public leaders, industry, state and federal agencies and tribes on oil & gas operations and the protection of water resources

Desired Outcomes

- 💧 Introduce state water resource stakeholders to the Oklahoma Water Survey
- 💧 Catalyze dialog and collaboration among stakeholders
- 💧 Demonstrate a learning environment that can be a model for future OWS workshops
- 💧 Provide information that can be disseminated statewide
 - 💧 Proceedings, OWS Website, OWS Web Data Portal

Agenda

- Oct 25, 2012
- 8:00 Dr. Robert Puls, Director, Oklahoma Water Survey
- Introduction, workshop objectives, desired outcomes
- Session I. Water availability, supply (15 min oral presentations, 5 min question/discussion)
- 8:15 Ms. Julie Cunningham, OWRB
- 8:35 Dr. Christopher Harich, USGS
- 8:55 Dr. Kyle Murray, OGS
- 9:15 Break and Instructions for breakout groups
- 9:30 Breakout groups session I
- 10:30 Report outs from breakout groups, general discussion

Agenda

- Oct 25, 2012
- Session II. Flowback and produced water treatment, recycling, and disposal practices.
- 11:00 Mr. Tareq Alnajjar, Purestream
- 11:20 Mr. Steve Tipton, Newfield
- 11:40 Mr. Tim Baker, Oklahoma Corporation Commission
- 12:00 LUNCH (catered)
- 1:00 Breakout groups session II
- 2:00 Report outs from breakout groups, general discussion
- 2:30 BREAK

Agenda

- Oct 25, 2012
- Session III. Holistic management approaches for developing new plays/basins
- 2:45 Mr. Nathan Kuhnert, Devon Energy/Mr Ken Nichols, CH2M Hill
- 3:05 Mr. Dan Arthur, ALL Consulting
- 3:25 Mr. Ken Senour, Guernsey
- 3:45 Breakout groups session III
- 4:45 Report outs from breakout groups, general discussion
- 5:15 Summary, Next Steps