



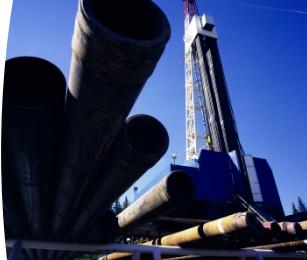
# Interstate Oil & Gas Compact Commission

## Welcome

Energy Resources, Research & Technology  
Committee

Chair: Tom Williams

Vice Chair Scott Dawson



# Energy Resources, Research & Technology

A national forum, the Energy Resources, Research and Technology (ERRT) Committee debates, studies and develops positions on economic, technical, research and safety issues that confront domestic oil and natural gas production.



# Annual Business Meeting

**Oklahoma City, OK**

**Agenda: Monday, May 8, 2017**

**1:00 – 4:30 PM**

1. Regulatory Adaption to Emerging Technology and Practices in Oil and Gas Production – Discussion for Action and Planning – Tom Williams - Chair
2. National Oil and Gas Gateway – Shirley Neff, Senior Advisor, U.S. Energy Information Administration (EIA)
3. Fate of World Oil and New Mexico Natural Gas Export to Mexico – Dr. Daniel Fine, New Mexico State Coordinator of Natural Gas Exports and Associate Director, New Mexico Center for Energy Policy, New Mexico Tech

# ERRT committee meeting

## **Regulatory Adaptation to Emerging Technology and Practices in Oil and Gas Production report**

- Work products that help regulators "scan and track" and share knowledge about emerging oilfield practices and technologies.
- Information sharing among state regulators
- Better and more systematic knowledge sharing and transfer between industry, regulators and stakeholders.
- Report – 9 recommendations

# Today

- IOGCC Steering Committee discussed the report, recommended four of the nine should be referred back to the ERRT Committee for further action/planning.
- #1 Identifying Issues and Compiling Responsive Technical Information
- #3 Regulatory Excellence Academy
- #6 Non-Rulemaking Policies
- #9 Technology Transfer

# Regulatory Adaptation to Emerging Technology and Practices in Oil and Gas Production

**Study Presented at the 2016 Annual Conference  
Little Rock, Ark.**

**Objectives for this discussion today**

- 1 Prepare a List of Current Topics (Recent Innovations)**
  - 2 Regulatory Excellence Academies (Continuous Regulatory Improvement)**
  - 3 Develop a list of informal and semi-formal policy tools**
  - 4 Technology Transfer (effective Transfer and Federal Funds)**
- Resolution needed**

# **Identifying Issues and Compiling Responsive Technical Information**

**The IOGCC should coordinate with organizations including American Petroleum Institute (API), International Association of Drilling Contractors (IADC), American Geological Institute (AGI), Society of Petroleum Engineers (SPE) and others as appropriate, to develop a structured process to aid in identifying and tracking high level changes in technology or operational practices that have the potential to lead to significant regulatory changes.**

# Discussion

1. Coordinate with API, IADC, AGI, SPE, AAPG, GE and other organizations (*who is missing*) as needed to identify recently adopted or amended Standards and Recommended Practices. (mostly journals and conference papers) – *is this supported by these organizations and recommendations for how.*
2. Review notes from the recent CSRO meetings and develop a list of current topics that seem to be affecting the states and topics communicated during the CSRO discussions. *Notes to ERRT chair (or committee), sent to organizations? Schedule necessary to make this work?*
3. Reach out to each state via *a survey or simple e-mail* requesting them to provide their top five issues – and concentrate on the top five, then move to the next five. But taking an approach of 5 at a time would seem to be more productive. *Does this make sense, who and how?*
4. Develop a Standing Committee or working group to review and agree on the most effective new emerging technologies and practices, and agree amongst the committee on the critical practices needed to focus on. *Committee from ERRT?*

# Regulatory Excellence Academy

**The IOGCC in coordination with its state agency members should develop processes or venues that allow higher-level regulatory officials professional development opportunities to share lessons learned from regulatory adaptation efforts associated with new technologies or operational practices.**

# Discussion

- Need to get feedback from other states and their ideas on this, including their respective constraints (if any, budget?).  
**Send email requesting feedback.**
- Some of the organizations (listed in 1) or their working committees, or industry initiative may fund academies and schools that are available – we should **develop a list** of the schools in the US and see if some of the schools could help us in our efforts. **TOPCORP as an example, New Mexico – planned at New Mexico Tech.**

# **Non-rulemaking Policies**

**IOGCC develop a list of informal and semi-formal policy tools (other than rulemakings and decisions in contested cases) that are available to administrative agencies, gathering and analyzing examples under differing regulatory regimes.**

# Discussion

- **MAKE A LIST OF RESOURCES:** Best Practices – U of Colorado BMP website, BLM – Gold Book – others?
- Look into ways to use less formal procedures and policies to monitor, track and respond to new and emerging technologies and operational practices.  
**Suggestions?**
- Conduct brainstorming and have regular meetings with industry, NGOS, oil and gas associations and others that could have great ideas on which technologies and rules and regulations that are most important to review, assess and implement.  
**Ideas on how to do this?**
- Urge industry to conduct pilot studies and science projects and regulators to approve that are better than current policies and procedures. Document and transfer this information. This out of the box thinking could enable both regulators and industry to utilize best management practices to effectively produce more oil and gas in an environmentally safe manner. Focus more on the performance and outcome of the studies.

# Technology Transfer

IOGCC, (perhaps through the ERRT Committee), consult with RPSEA and PTTC regarding the most effective ways to facilitate technology transfer for the regulatory audience, and help convene and sponsor opportunities as appropriate. We further recommend a specific focus on technology transfer of federally funded research to state agencies.

# Discussion

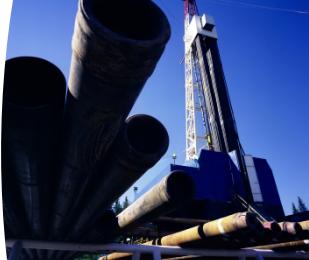
- 1994 paper entitled, “Development of a Model Technology Transfer Program to Assist Independent Operators” (SPE 27783) Dr. Lanny Schoeling. Concepts in the paper were presented to IOGCC and IPAA in 1990, who encouraged DOE funding these recommendations - the foundation for PTTC and basis for RPSEA TT model to Small Producers Program.
- 2017 SPE abstract SPE-187239 accepted “Development of a Technology Transfer Model in the 2020 Era for the Oil and Gas Industry”; Authors: L. Schoeling (consultant), J. Viscomi, (PTTC), T. Williams (RPSEA). **Can include a section for regulators.**
- **Financial Support is needed. What is the best way to fund it?**

# Discussion

- Action items:

Start Addressing the four (4) items that were Identified as the most important draft recommendations from the IOGCC Steering Committee.

Prepare a recommendation report and possible resolutions to the IOGCC Steering Committee with the most effective processes that will enable the ERRT to achieve our goals.



# Contact Information

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Thanks and Have a Great  
Rest of Your Day!