



Wednesday • October 5, 2016 • Austin, Texas

The TAMEST Shale Task Force is a first-of-its-kind, comprehensive review of the scientific research and related findings on the impacts of shale oil and gas production in Texas.

**OPENING SESSION**

- 8:30–9:00 AM *Opening Remarks*  
David Russell, TAMEST President  
Vice Provost and Dean of Basic Research  
The University of Texas Southwestern Medical Center
- Christine Economides, Chair, TAMEST Shale Task Force  
Professor and Hugh Roy and Lillie Cranz Cullen Distinguished  
University Chair, Cullen College of Engineering  
University of Houston
- 9:00–9:10 AM *Sponsor Perspectives*  
Marilu Hastings, Vice President, Sustainability Program  
The Cynthia & George Mitchell Foundation

**EXPERT PRESENTATIONS**

- 9:10–9:35 AM *Geology and Seismicity*  
Peter Hennings, Research Scientist, Bureau of Economic Geology  
The University of Texas at Austin
- 9:35–10:00 AM *Land Resources*  
Forrest Smith, Dan L. Duncan Endowed Director of  
South Texas Natives and Texas Native Seeds Projects,  
Caesar Kleberg Wildlife Research Institute  
Texas A&M University–Kingsville
- 10:00–10:20 AM **BREAK**
- 10:20–10:45 AM *Water*  
Cal Cooper, Director of Special Projects and Emerging Technology  
Apache Corporation
- 10:45–11:10 AM *Air*  
David Parrish, Senior Research Scientist, Cooperative  
Institute for Research in Environmental Sciences (CIRES)  
University of Colorado
- 11:10–11:35 AM *Transportation*  
Cesar Quiroga, Senior Research Engineer, Texas A&M  
Transportation Institute (TTI)  
The Texas A&M University System
- 11:35 AM–12:00 PM *Social and Economics*  
Thomas Tunstall, Senior Research Director, Institute for  
Economic Development  
The University of Texas at San Antonio

12:00–1:15 PM **LUNCH**

**TEXAS STATE AGENCIES**

- 1:15–1:40 PM *Texas Water Development Board*  
Kathleen Jackson, Board Member
- 1:40–2:05 PM *Railroad Commission of Texas*  
Lori Wrotenbery, Director, Oil and Gas Division
- 2:05–2:30 PM *Texas General Land Office*  
Robert Hatter, Deputy Director, Energy Resources

2:30–2:50 PM **BREAK**

**OIL AND GAS TRADE ASSOCIATION**

- 2:50–3:15 PM *Texas Oil & Gas Association*  
Todd Staples, President

**ENVIRONMENTAL NGO**

- 3:15–3:40 PM *Environmental Defense Fund*  
Nichole Saunders, Attorney, U.S. Climate and  
Energy Program
- 3:40–4:00 PM **BREAK**

**PANEL DISCUSSION: COMMUNITY PERSPECTIVES**

- 4:00–5:00 PM *PANEL MODERATOR*  
Gene Theodori, Professor, Department of Sociology  
Sam Houston State University

**BARNETT SHALE REGION**

Judge Roger Harmon, Johnson County, Cleburne

**EAGLE FORD SHALE REGION**

Cristi LaJeunesse, Executive Director, Kenedy Housing Authority  
Jeanette Winn Moczygemba, Superintendent, Karnes City  
Independent School District

**PERMIAN SHALE REGION**

Judge Mike Bradford, Midland County, Midland

- 5:00–5:15 PM *Closing Remarks*  
David Russell, TAMEST President

5:15 PM **ADJOURN**



## Environmental and Community Impacts of Shale Development in Texas

### Task Force Members

**Christine Economides, NAE** (*Chair*)

Professor, Petroleum Engineering  
University of Houston

**David Allen** (*Lead*)

Professor, Department of Chemical Engineering  
The University of Texas at Austin  
Area of expertise: Air

**Ramón Alvarez**

Associate Chief Scientist  
Environmental Defense Fund  
Area of expertise: Air

**John Barton** (*Lead*)

Professor of Practice, Zachry Department of Civil Engineering  
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Area of expertise: Transportation

**Denny Bullard**

Instructor in Petroleum Engineering  
Texas Tech University  
Area of expertise: Water

**Joseph Fitzsimons**

Attorney  
Uhl, Fitzsimons, Jewett & Burton, PLLC  
Area of expertise: Land

**Omar Garcia**

President and CEO  
South Texas Energy & Economic Roundtable  
Area of expertise: Social/Economic

**Matthew Harrison**

Vice President  
AECOM: Americas - Upstream Oil & Gas  
Area of expertise: Air

**Tracy Hester**

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University of Houston Law Center  
Area of expertise: Land

**Urs Kreuter**

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Area of expertise: Social/Economic

**K.J. (Kris) Nygaard**

Senior Consultant  
ExxonMobil Upstream Research Company  
Area of expertise: Seismicity

**Craig Pearson**

State Seismologist  
Railroad Commission of Texas  
Area of expertise: Seismicity

**Cesar Quiroga**

Senior Research Engineer  
Texas A&M Transportation Institute  
Area of expertise: Transportation

**Amelie Ramirez, NAM**

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Area of expertise: General

**Danny Reible, NAE** (*Lead*)

Professor, Civil, Environmental Construction Engineering  
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Area of expertise: Water

**Brian Stump** (*Lead*)

Albritton Professor of Earth Sciences  
Southern Methodist University  
Area of expertise: Seismicity

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Senior Lecturer, School of Law  
Executive Director, Kay Bailey Hutchison Center  
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Area of expertise: Land

**Gene Theodori** (*Lead*)

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Area of expertise: Social/Economic

**Michael Young**

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Area of expertise: Water

**Kenneth Arnold, NAE** (*Task Force Board Liaison*)

K Arnold Consulting, Inc.

**David Russell, NAS** (*Task Force Board Liaison*)

Provost; Dean of Basic Research; Eugene McDermott  
Distinguished Chair in Molecular Genetics  
The University of Texas Southwestern Medical Center

**Jeffrey Jacobs** (*Task Force Project Director*)

Senior Science Fellow, Institute for Water Resources  
U.S. Army Corps of Engineers