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2019

FEBRUARY 4 – 8, 2019

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CONTENTS

WELCOME	3
MONDAY SESSIONS	4
STUDENT RESEARCH COMPETITION	6
TUESDAY SESSIONS	8
PROGRAM OVERVIEW	10
WEDNESDAY SESSIONS	13
UT ENERGY TOURS & AFFILIATED EVENTS	16
THURSDAY – FRIDAY: TJOGL & KBH SYMPOSIA	18
MAPS	20

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Longhorn Energy Club seeks to leverage the world-class academic, co-curricular, and extra-curricular energy opportunities at UT for the betterment of all members of the UT community. In particular, the aim of this organization shall be to build community and collaboration between students at UT, support energy-related activities and events, and to aid members in pursuit of energy careers.

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UT ENERGY WEEK 2019

Welcome to the fifth UT Energy Week, an annual gathering of leading energy experts representing a broad spectrum of interests and perspectives. The conference highlights the interdisciplinary collaboration and sharing of knowledge we believe is essential in solving complex energy challenges facing our world.

UT Energy Week is organized by the student-run Longhorn Energy Club in collaboration with the university's Energy Institute, and is supported by the KBH Center for Energy, Law & Business and the McCombs Energy Initiative, along with several schools and colleges engaged in energy-related research across the UT campus. In addition to panels and presentations covering a wide range of vital energy topics, the Texas Journal of Oil, Gas, and Energy Law will host two days of continuing education courses during the weeklong event.

UT Energy Week is an opportunity for experts from academia, industry, government and regulatory agencies, and nonprofit organizations to express their insights on pressing energy issues and emerging trends; to highlight the work of students involved in energy research; and to demonstrate the depth and breadth of knowledge among scientists and other researchers working at UT Austin.

The 2019 program will explore a variety of issues, from competing visions of a decarbonized economy and the management of above ground challenges in unconventional oil and gas development to the latest trends in sustainable building design and the tipping point for electric vehicle adoption. For more, view the complete schedule for UT Energy Week in this program or the online schedule of events at <https://energyweek.utexas.edu/2019-program/>

This year's conference also will feature a research poster competition for students studying energy and tours of energy-related research facilities, including UT's renowned power plant and micro-grid system.

UT Energy Week is an exemplar of the breadth and depth of energy expertise and research excellence at UT Austin, while also providing a platform for the energy leaders of tomorrow.

Welcome to the world's premier energy university!

Sincerely,

Dr. Varun Rai
Director, Energy Institute

Matthew Haley
President, Longhorn Energy Club

Monday, February 4

Energy Politics and Security

11:30 – 12:45 CONFERENCE REGISTRATION

12:45 – 1:00 WELCOME REMARKS

Sharon Mosher, Dean, Jackson School of Geosciences

3:30 – 4:30 **PANEL 2: IS THERE A POLITICAL CONSENSUS ON CARBON PRICING?**

10 years after the Waxman-Markey bill, what does the future for carbon pricing in the US look like? Despite increasing numbers of conservative think tanks and multinational oil and gas companies pledging support for carbon pricing, even relatively liberal states such as Washington are struggling to gather enough political consensus to legislate carbon pricing. This panel will evaluate if there is an agreeable political middle ground that could be reached to pass carbon legislation. Panelists will offer opinions on some of the key hurdles to achieving carbon pricing, how revenue from carbon taxes should be distributed, how states should (and are) responding to a lack of policy consistency at the federal level, and environmental justice concerns.

1:00 – 2:00 CONFERENCE KEYNOTE:

ENERGY POVERTY AND THE REAL ENERGY TRANSITION

Scott Tinker, Director, Bureau of Economic Geology

David Adelman, Harry Reasoner Regents Chair in Law, UT Austin (Moderator)

Yoram Bauman, Stand-up Economist

Pam Giblin, Senior Policy Advisor, Climate Leadership Council

Robert Bryce, Senior Fellow, Manhattan Institute

Nick Schulz, Director of Stakeholder Engagement, ExxonMobil

2:00 – 2:15 BREAK

4:30 – 5:30 **PANEL 3: POWER RELATIONS BETWEEN THE US, CHINA, AND RUSSIA**

The geopolitics of energy is increasingly important in expanding globalized energy markets. This panel will examine the geopolitics of energy and dissect the current obstacles to a profitable global energy market. What are currently the most important international energy trends? How might these trends play out over time? The panel will focus on relations between the United States, Russia and China.

Fred Beach, Assistant Director for Policy Studies, The University of Texas Energy Institute (Moderator)

David Firestein, UT China Public Policy Center

Matthew Bey, Senior Global Analyst, Stratfor

Svetlana Ikonnikova, Research Scientist, Bureau of Economic Geology

2:15 – 3:15 **PANEL 1: GRID CYBERSECURITY**

The US recognizes reliable flow of energy as critical infrastructure. In order to protect energy supply, great efforts are made at all levels of the energy industry to ensure security, especially in the cyber realm. This panel will address what efforts are being taken by electricity suppliers, transmission providers, and governmental agencies to ensure a reliable grid system. In particular, discussion will focus on emergency response in the event of a breach in cybersecurity and the impact of a breach on everyday life.

Elizabeth Rogers, Michael Best and Friedrich LLP Partner (Moderator)

Kip Fox, President, Electric Transmission Texas

Dave Darnell, CEO, Systrends

3:15 – 3:30 BREAK

5:30 – 7:00 RESEARCH COMPETITION AWARDS RECEPTION



Research into the development of novel energy and resource-related technologies and the affiliated policies is a vital part of addressing the key energy-related challenges facing humanity in the 21st century. To promote the development of energy research in the academic community, UT Energy Week allows for full-time undergraduate and graduate students to participate in an interdisciplinary research poster competition. Prizes will be awarded to the best research posters in each of the categories below:

(1) Emerging Energy Technologies and Solutions

Research on emerging technologies in the energy sector, including but not limited to renewables, storage, and fossil fuels.

(2) Energy Economics, Law, Communication, and Policy

Research on societal impacts, policy, law, and communication and public opinion.

(3) Financial and Economic Solutions

Research on energy finance and economics to shape and facilitate changes in the energy industry.



A panel of judges from academia and industry will score research posters submitted by the students selected to present at the research competition. Prizes will be awarded to the two highest scoring posters from each competition category (there will be a third place depending on number of participants in each category) and there will be one overall crowd favorite and one overall best undergraduate poster:

First place	\$500
Second place	\$250
Third place	\$200
Crowd favorite	\$250
Best undergraduate	\$200

Prizes will be announced at the Awards Reception to be held in the Alumni Center following the Energy Week sessions on Monday, February 4, 2019.

Tuesday, February 5

Emerging Technologies and Solutions

9:00 – 9:15 OPENING REMARKS

9:15 – 10:15 PANEL 1: THE TIPPING POINT FOR ELECTRIC VEHICLES

According to the International Energy Agency, the global fleet of electric vehicles grew 54% in 2017 and will skyrocket from 3 million to 125 million by 2030. From sustainable policy initiatives, to the decreasing price of batteries, to the development of EV charging infrastructure in some areas, various factors may help catalyze this trend. However, many remain skeptical of the long-term affordability and feasibility of EVs. On this panel, three experts with experience in EV charging infrastructure and finance, market analytics and energy efficiency, and oil and gas will discuss the future of electric vehicles and the transportation sector.

Dave Tuttle, UT Research Associate (Moderator)

Brandy Brown, Senior Evaluation Consultant, CLEAResult

Lin Khoo, Senior VP Strategy, Greenlots

Edmond Young, Consultant, Hydrogen Fuel Cell Infrastructure, Toyota Motor North America, Inc.

10:15 – 10:30 BREAK

10:30 – 11:30 PANEL 2: THE FUTURE OF BUILDING ENERGY EFFICIENCY: SMART BUILDING OR BUILDING SMART?



Panel sponsored by The University of Texas at Austin Student Chapter of ASHRAE

Buildings account for 40% of energy consumption in the United States. In the growing age of 'smart' technologies and sustainable design, how do these influence energy usage in commercial buildings? This panel will assess current design and technology-based solutions for their energy saving capabilities in existing and new commercial buildings and project the future of the industry. Discussion will also touch on the following questions: What does 'smart building' look like now, and in the future? What are barriers to adoption and challenges to implement tech-based solutions? How will standards and certifications (e.g., AEGB, ASHRAE, LEED, WELL, Living Building) evolve to make way for these changes?

Zoltan Nagy, Assistant Professor, Civil, Architectural, and Environmental Engineering, UT Austin (Moderator)

Michael Sweeney, Associate Principal, Arup

Sarah Talkington, Project Manager, Austin Energy – Commercial Green Building

Allison Wilson, Sustainability Director, Ayers Saint Gross

11:30 – 1:00 LUNCH AND KEYNOTE INTERVIEW:

JAPAN'S ENERGY FUTURE: A CASE STUDY

Fred Beach, UT Energy Institute (Moderator)

Hisanori Nei, National Graduate Institute For Policy Studies

1:00 – 2:15 PANEL 3: CLEAN, GREEN OR IN-BETWEEN: COMPETING VISIONS OF A DECARBONIZED ECONOMY

The most recent IPCC report suggests that immediate action is necessary to reduce greenhouse gas emissions and minimize the impacts of climate change. What remains unclear is the path towards achieving this goal. Can the electric grid be comprised of 100% renewable energy sources or will other clean energy sources be needed for this transition? This panel will discuss which energy technologies are vital for this transition as the penetration of intermittent renewables continues to increase. The panel will also discuss the opportunities and challenges associated with rapidly scaling up new emerging technologies such as battery storage, small modular reactors and carbon capture and storage.

Asher Price, Energy Reporter, Austin American-Statesman (Moderator)

David Pettit, Director of the Nuclear Fuels and Materials Division, Idaho National Laboratory

Mike Jacobs, Senior Energy Analyst, Union of Concerned Scientists

Vanessa Nunez-Lopez, Research Scientist, Gulf Coast Carbon Center & Bureau of Economic Geology, UT Austin

2:15 – 2:30 BREAK

Tuesday schedule continues on page 12

Monday, February 4

- 11:30 – 12:45 Registration
- 12:45 – 1:00 Welcome Remarks: Sharon Mosher, Dean, Jackson School of Geosciences
- 1:00 – 2:00 Conference Keynote: "Energy Poverty and the Real Energy Transition,"
Scott Tinker, Director, Bureau of Economic Geology
- 2:15 – 3:15 Panel 1: Grid Cybersecurity
- 3:30 – 4:30 Panel 2: Is there a political consensus on carbon pricing?
- 4:30 – 5:30 Panel 3: Power Relations between the US, China, and Russia
- 5:30 – 7:00 Reception and Announcement of Poster Competition Awards

Tuesday, February 5

- 9:00 – 9:15 Opening Remarks
- 9:15 – 10:15 Panel 1: The Tipping Point for Electric Vehicles
- 10:30 – 11:30 Panel 2: The Future of Building Energy Efficiency: Smart Building or Building Smart?
- 11:30 – 1:00 Lunch and Keynote Interview:
"Japan's Energy Future: A Case Study"
- 1:00 – 2:15 Panel 3: Clean, Green or In-between: Competing visions of a decarbonized economy
- 2:30 – 3:30 Panel 4: Sustainability and Economic Pressures in the Petrochemical Industry
- 3:45 – 5:00 Panel 5: Unconventional Oil and Gas: Opportunities for Future Development and Managing Above-Ground Challenges
- 5:00 GAIN Networking Event

Wednesday, February 6

- 8:45 – 9:00 Opening Remarks
- 9:00 – 10:00 Keynote Address: Commissioner Arthur C. D'Andrea, Texas Public Utility Commission
- 10:00 – 11:00 Panel 1: Energy-Only Market Design for Resource Adequacy: Stakeholder Perspectives
- 11:15 – 12:15 Panel 2: Energy Storage: Competitive Market and Policy Frameworks that Encourage Flexibility
- 12:15 – 1:30 Lunch
- 1:30 – 2:45 Panel 3: Funding Renewable Energy Infrastructure in Africa
- 3:00 – 4:00 Panel 4: Managing Uncertainty in Energy Investment
- 4:00 – 4:15 Closing Remarks
- 4:30 – 6:30 Tours: 1) ExxonMobil Historical Collection at the Briscoe Center
2) UT Power Plant

Thursday – Friday, February 7 – 8

TJOGEL Symposium

Friday, February 8

*McCombs Energy Initiative Inaugural Conference:
Permian 2025*

Please see pages 17 – 19 for the program descriptions, schedules, and registration links for the TJOGEL Symposium and Permian 2025 Conference on Thursday and Friday.

Tuesday, February 5

Tuesday schedule, continued

2:30 – 3:30 **PANEL 4: SUSTAINABILITY AND ECONOMIC PRESSURES IN THE PETROCHEMICAL INDUSTRY**

To maintain competitiveness in international markets, the chemical industry must continuously seek to promote sustainability while reducing costs, especially to improve public brand perception in light of growing concern over the environmental impact of plastics. In meeting this sustainability challenge, feedstock and process energy sourcing has become increasingly important with the advent of cheap shale gas drilling and advances in other non-traditional feedstocks such as biomass and CO2. This panel seeks to address how these emerging feedstock and process energy technologies compare in cradle-to-grave environmental footprint and overall economic viability with regards to governmental policy.

Thomas Edgar, The George T. and Gladys H. Abell Chair in Engineering, UT Austin (Moderator)

Edward Stones, Global Business Director of Energy and Climate Change, Dow Chemical

Schweta Karwa, Process Evaluation Engineer, Shell

Tony Go, Chief Engineer, ExxonMobil

3:45 – 5:00 **PANEL 5: UNCONVENTIONAL OIL AND GAS: OPPORTUNITIES FOR FUTURE DEVELOPMENT AND MANAGING ABOVE-GROUND CHALLENGES**

The United States has seen resurgence in petroleum production, mainly driven by improved hydraulic fracturing and directional drilling techniques for natural gas production from shale formations. Application of these technologies enabled natural gas to be economically produced from shale and other unconventional formations and contributed to the United States becoming the world's largest natural gas producer in 2009. However, the rapid expansion of tight oil and shale gas extraction using high-volume hydraulic fracturing has raised concerns about its potential environmental and health impacts. These concerns include potential direct impacts to groundwater and surface water quality, water supplies, and air quality. In addition, some have raised concerns about potential long-term and indirect impacts from reliance on fossil fuels and resulting greenhouse gas emissions and influence on broader energy economics. This panel will examine the broader view of developing unconventional oil and gas. Can the success in the US be replicated elsewhere in the world? What is the most likely course of future shale gas? What are the externalities related to shale gas that we can be further managed to minimize its impacts?

Bill Fairhurst, Project Manager, The Bureau of Economic Geology (Moderator)

Charles Sternbach, President, Star Creek Energy

Colin Leyden, Senior Manager, State Regulatory & Legislative Affairs, Environmental Defense Fund

Sheila Olmstead, Professor, LBJ School of Public Affairs, UT Austin

Richard Chuchla, Director, Energy & Earth Resources Program at UT Austin (Moderator)

5:00 **ADJOURN / GAIN NETWORKING EVENT**

Wednesday, February 6

8:45 – 9:00 **OPENING REMARKS**

9:00 – 10:00 **KEYNOTE ADDRESS:**

Commissioner Arthur C. D'Andrea, Texas Public Utility Commission

10:00 – 11:00 **PANEL 1: ENERGY-ONLY MARKET DESIGN FOR RESOURCE ADEQUACY: STAKEHOLDER PERSPECTIVES**

As an energy-only market, ERCOT's market rules are designed to ensure resource adequacy primarily through price signals. In this session, ERCOT stakeholders will first discuss recent successes and challenges maintaining reserve margins in an energy-only market and then move into a forward-looking discussion about potential market or policy changes that may promote resource adequacy in the next decade. Panelists will address questions such as, does current market design adequately incentivize investment? Which fuels and technologies will be used to maintain reserve margins in the next ten years, and what are the associated challenges?

David Spence, Baker Botts Chair in Law, UT Austin (Moderator)

Connie Corona, Division Director of Competitive Markets, Texas Public Utility Commission

Bob Helton, Director of Government & Regulatory Affairs for ENGIE North America

John Dumas, Vice President of Market Operations, Lower Colorado River Authority

Michele Gregg, Executive Director, Texas Competitive Power Advocates

Brandon Whittle, Director of Government & Regulatory Affairs, Calpine

11:00 – 11:15 **BREAK**

Wednesday schedule continues on next page

Wednesday, February 6

Navigating Dynamic Markets

Wednesday schedule, continued

11:15 – 12:15 **PANEL 2: ENERGY STORAGE: COMPETITIVE MARKET AND POLICY FRAMEWORKS THAT ENCOURAGE FLEXIBILITY**

The panel will focus on the unique functions of energy storage and why electricity markets are increasingly valuing 'flexibility.' FERC and the Texas PUC are currently re-considering market design for storage. Panelists will discuss why, despite the multiple value propositions of storage, the technology doesn't fit neatly into current market design. For example, to fully capture the value of storage, should transmission and distribution utilities be able to own these assets, or do other ownership models make more sense? What might new market products for energy storage look like?

Alison Silverstein, Independent Consultant (Moderator)

Judith Talavera, President, AEP Texas

Suzanne L. Bertin, Executive Director, Texas Advanced Energy Business Alliance

Kristin Abbott, Market Analyst, Texas Public Utility Commission

12:15 – 1:30 **LUNCH**

1:30 – 2:45 **PANEL 3: FUNDING RENEWABLE ENERGY INFRASTRUCTURE IN AFRICA**

Globalization has given room for growth, development, fair trade and economic development. Renewable energy is at the forefront due to the 2015 Paris Agreement on climate change. What role will distributed solar generation play in evening the distribution of generation through Sub-Saharan Africa? The panel will focus on trying to evaluate the bankability of main-grid and microgrid solar PV and what this means for the future of financing structures. Panelists will tell their opinions on how current initiatives such as the USTDA's Power Africa and the US's Africa Clean Energy Finance Initiative are drawing investors eager to turn a profit, how main-grid versus microgrid funding structures may differ and possible future trajectories of private investors and funding banks such as Credit Suisse.

Richard Amato, GCG Program Manager, IC2 Institute (Moderator)

Seyi Fabode, CEO/Founder, Varuna

Guy Koloko, CEO, KNS Solar

Joshua Eisenman, Assistant Professor of Public Affairs, LBJ School of Public Affairs

2:45 – 3:00 **BREAK**

3:00 – 4:00 **PANEL 4: MANAGING UNCERTAINTY IN ENERGY INVESTMENT**

The financial markets are currently facing an energy ecosystem in transition. This introduces uncertainties, risks and opportunities with regards to future investment opportunities. While fossil fuels are likely to comprise a dominant share of the energy supply for decades, we see significant changes in that arena. Coal's declining future is clear as it is marginalized by natural gas, renewables are capturing a significant share of the growing demand for power locally displacing natural gas and burgeoning natural gas supply from shale oil and gas is being pushed overseas as LNG. Many car manufacturers and jurisdictions have committed to all electric light duty vehicle fleets. Shale resources have not entirely delivered on their financial promise with little to no free cash flow being generated by the industry as a whole. The backdrop is volatile oil prices and growing concern about rising CO2 emissions from combustion of fossil fuels.

Richard Chuchla, Director, Energy & Earth Resources Program at UT Austin (Moderator)

Glenn Jacobson, Partner, Trilantic North America

Billy Prather, Director of Natural Resources, UTIMCO

George Vaughan, Principal Consultant, Corporate Investment Appraisal, ConocoPhillips

4:00 – 4:15 **CLOSING REMARKS**

4:30 – 6:30 **TOURS** (see following page)

UT Energy Tours

UT AUSTIN POWER PLANT TOUR

The Carl J. Eckhardt Combined Heating and Power Complex is often described as the largest and most integrated microgrid in the U.S. The University of Texas at Austin campus features a Combined Heat and Power plant (CHP) with a 135 MW power capacity and 1.2 million lb/hr steam generation capacity. It provides 100% of the electricity and heating for the university's main campus. This includes 4 chilling stations and a 4 million gallon chilled water thermal storage tank that provides the cooling requirements for 18 million square feet. Connections to the City of Austin electrical grid exist only for emergency backup, providing the university independence in generating all utilities required for a campus the size of a small city. Please join us for this informational, behind the scenes tour of one of the largest microgrids in the nation. The UT Power Plant Expansion Building (PPE) is located at 2401 San Jacinto Boulevard, 78705.

NOTE: Power Plant Tour attendees should wear closed-toe shoes and long pants.

BRISCOE CENTER TOUR: EXXONMOBIL HISTORICAL COLLECTION

Join the Briscoe Center for American History for an exhibit of historical documents, films, and artifacts dating to the early days of Standard Oil Company, the Texas oil boom, and Exxon Mobil Corporation. Included will be film of Red Adair fighting the 1961 Gassi Touil gas well fire and first-hand accounts of the Texas oil boom. Through the American Energy Industry Collections, the Briscoe Center collects, preserves, and provides access to original records, photographs, and moving images documenting the critical importance of the energy industry in Texas and the United States.

The collection is located in Sid Richardson Hall, Unit 2 at 2300 Red River St., on the UT Austin campus.

Affiliated Events

UT LAW CLE: 2019 RENEWABLE ENERGY LAW

Monday-Tuesday, January 28-29, 2019 – AT&T Conference Center
Join leading attorneys and industry experts in wind, solar, and storage for two days of the latest developments affecting renewable energy in Texas and nationwide. The Renewable Energy Law Conference blends together law, economics, technology, finance, tax, and regulatory policy.

<https://utcle.org/conferences/WE19>

14TH ANNUAL TJOGEL SYMPOSIUM

Thursday-Friday, February 7-8, 2019

Etter-Harbin Alumni Center

The Texas Journal of Oil, Gas, and Energy Law (TJOGEL) is the largest student-run publication focusing on energy law scholarship in the United States; the Symposium brings together legal practitioners from across the state and country to discuss the latest developments in the world of oil, gas, and energy law.

MCCOMBS ENERGY INITIATIVE INAUGURAL CONFERENCE: PERMIAN 2025

Friday, February 8, 2019 – AT&T Conference Center

The Permian 2025 Conference will focus on the current and future opportunity represented by the Permian Basin, the current center of the unconventional global energy industry, bringing together recognized industry leaders with faculty and students from across campus for a series of thought provoking presentations and discussions.

RSVPs: <https://events.attend.com/f/1383787485>

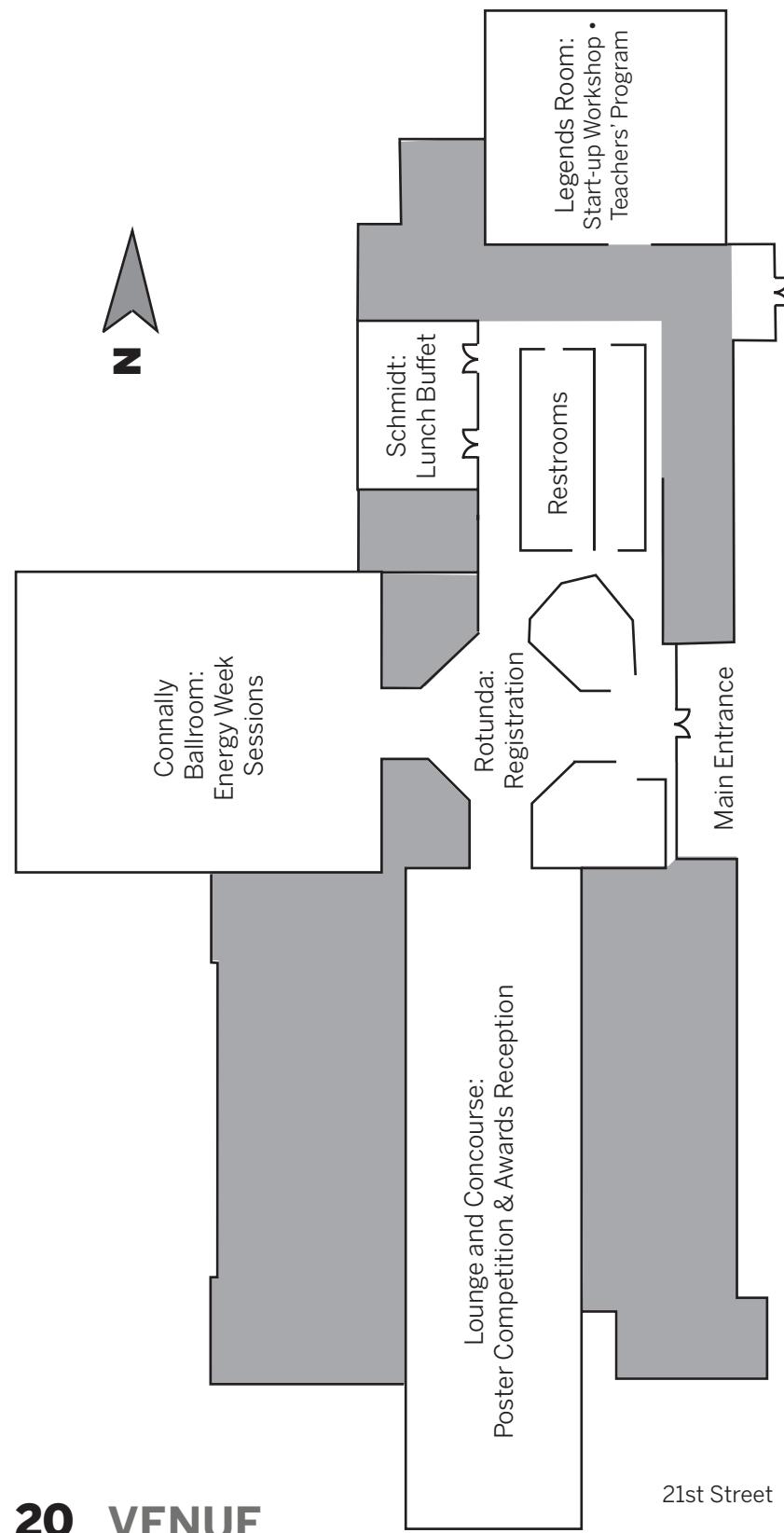
See the program details for TJOGEL and Permian 2025 on the next page.

TJOGEL & KBH Symposia

Thursday – Friday, February 7 – 8

THURSDAY		TJOGEL SYMPOSIUM
8:30		TRENDS IN ROYALTY LITIGATION IN TEXAS AND ON THE FIFTH CIRCUIT Tim McConn, <i>Yetter Coleman LLP</i>
9:30		DRILLCO TRANSACTIONS: THE NUTS AND BOLTS AND LATEST TRENDS Tom Hillebrand and Thomas Laughlin, <i>Kirkland & Ellis LLP</i>
10:30		CHEVRON DEFERENCE: WITH GORSUCH AND KAVANAUGH ON SCOTUS, ARE CHEVRON'S DAYS NUMBERED? Barry Smitherman, <i>University of Texas School of Law</i>
11:30		DON'T BOX ME IN BY SQUARING THE CIRCLE: UNITS IN THE OIL PATCH Richard Hemingway and Conrad Hester, <i>Thompson & Knight LLP</i>
12:30		LUNCH
1:00		WHERE ARE WE IN THE MIDSTREAM SECTOR? OIL, GAS, AND WATER: IT'S ALL IN THE MIX Michael Darden, Justin Stolte, and Matt Savage, <i>Gibson Dunn & Crutcher LLP</i>
2:00		REGULATORY UPDATE Olga Kobzar, <i>Scott Douglass & McConnico LLP</i>
3:00		ETHICS UPDATE: CONVENIENCE V. CONFIDENTIALITY – ARE EMAILS AND CLOUDS ETHICAL? Alexander Schoch, <i>Railroad Commission of Texas</i>
4:00		THE ROLE OF M&A IN THE OILFIELD SERVICES INDUSTRY Brittany Sakowitz, Matt Strock, and Michael Marek, <i>Vinson & Elkins LLP</i> Robert Wilson, <i>Patterson-UTI Energy</i>
FRIDAY		TJOGEL SYMPOSIUM
8:30		CFIUS: WHAT ENERGY LAWYERS AND LANDMEN NEED TO KNOW Coleson Bruce, <i>Shearman & Sterling LLP</i>

9:30	RECENT DEVELOPMENTS IN RENEWABLE ENERGY LAW Becky Diffen, <i>McGuireWoods LLP</i>
10:30	PAID TO PERSUADE: THE DOS AND DON'TS OF LOBBYING IN TEXAS Randy Erben, <i>Texas Ethics Commission</i>
11:30	IP ISSUES TO LOOK OUT FOR IN THE OIL & GAS FIELD Liz Flannery and Paul Morico, <i>Baker Botts LLP</i>
12:30	LUNCH
1:00	TEXAS LEGISLATIVE UPDATE: WHAT TO EXPECT FROM THE 86TH SESSION Rep. Travis Clardy, <i>Texas House of Representatives</i> Scott Braddock, <i>The Quorum Report</i>
FRIDAY	
	MCCOMBS ENERGY INITIATIVE INAUGURAL CONFERENCE: PERMIAN 2025
8:30	WELCOME: Dean Hartzell and John C. Butler
9:00	YOUNG ENERGY ENTREPRENEURS PANEL "Lessons Learned from Building a Business in a Highly Volatile and Dynamic Industry" Rhett Bennett, Jamie Farmer and Ryan Springmeyer; Moderated by Chris Carter
9:30	"MOVING FROM DISCOVERY TO DELINEATION TO MANUFACTURING MODE" Matt Gallagher
10:30	"FUTURE INNOVATIONS TO ENABLE CONTINUED PERMIAN GROWTH" David Baldwin
11:00	"PERMIAN PRODUCTION GROWTH OUTLOOK AND MIDSTREAM SOLUTION – WE NEED TO MOVE THOSE BARRELS" Marshall Adkins, Justin Jenkins and Brett Wiggs
12:10	"THE ROLE OF HYDROCARBONS IN THE FUTURE ENERGY MIX" Dr. Scott W. Tinker
1:00	INDUSTRY LEGENDS PANEL: Bud Brigham, Gary Thomas, Doug Foshee; Moderated by Gene Shepherd and John C. Butler
1:45	CLOSE OF PROGRAM - UT ENERGY INITIATIVES AND FUTURE PLANS Dean Hartzell and John C. Butler





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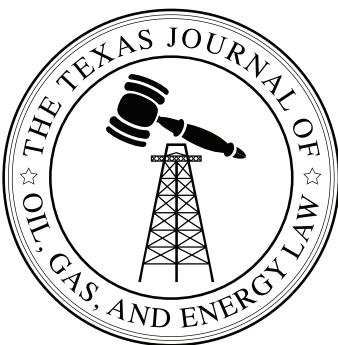


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