

UT
ENERGY
WEEK
2016

FEBRUARY 16 – 19, 2016

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About UT Energy Week 2016

UT Energy Week 2016 is hosted by The University of Texas at Austin **Energy Institute**, the student-led **Longhorn Energy Club**, and the **KBH Center for Energy, Law & Business**, in collaboration with several on- and off-campus partners and support from the many academic units and research centers engaged in energy-related research across the UT Austin campus. The conference provides a platform for experts in academia, industry, government, and the non-profit world to provide their insights on vital energy issues facing society today. UT Energy Week also highlights the work of students involved in important energy research and showcases the deep expertise among scientists and researchers at UT Austin, the premier energy research university in the world.

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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.

- Darcia Datshkovsky Sáenz President
- Susan Sharp Vice Chair
- Nicholas Harris Energy Week Co-Chair
- Raj Roy Energy Week Co-Chair
- Andrew Reimers Speakers Committee Chair
- Pooja Sinha Energy Week Logistics Chair
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- Margaret Cook VP of Corporate Relations
- Brooke Holleman VP of Marketing
- Nalbeat Sonny Kwan VP of Entrepreneurship
- Rahul Verma VP of Entrepreneurship
- Samantha Reuter VP of Research
- Chris Podbregar VP of Professional Development
- Adam Smith VP of Professional Development
- Kyle Gabb VP of Finance
- Hobie Temple VP of Marketing
- Matthew Deanner VP of K12 Outreach

Welcome to UT Energy Week 2016

Welcome to the second *UT Energy Week*, co-hosted by The University of Texas at Austin Energy Institute, the Longhorn Energy Club, and the KBH Center for Energy, Law & Business. Conference collaborators include the University's Cockrell School of Engineering, Jackson School of Geosciences, and the Office of Technology Commercialization, along with CleanTX and Texas Exes, with additional support from schools, colleges, and centers engaged in energy research across the UT Austin campus.

UT Energy Week is designed to showcase the interdisciplinary collaboration and sharing of expertise we believe is essential in identifying and solving complex energy problems facing our world. Sponsored by academic, industry, governmental, and not-for-profit partners, the conference aims to further the public discourse of vital energy issues through a candid discussion among experts offering varying perspectives and views.

Our goal for the conference is three-fold: to create a platform for experts who can provide insights on important energy issues and emerging trends; to highlight the work of UT Austin students involved in cutting-edge energy research; and to demonstrate the depth and breadth of knowledge among scientists and other researchers at UT Austin, the premier energy research university in the world.

Through a series of panel discussions and keynote addresses, you'll hear spirited discussions concerning new energy technologies, the interplay of markets and government, and the trade-offs associated with energy development and environmental protection. Experts will tackle an array of topical energy issues, including de-carbonization of the electric grid; the prospects for large-scale energy storage; the science and regulatory response to hydraulic fracturing; powering cities of the future; Mexico's entry into competitive energy markets; and more.

Be sure to check out the student energy research poster competition and start-up challenge, which offers cash and prizes for innovative approaches to solving vexing energy challenges.

UT Energy Week also features several affiliate events, including the Center for Electromechanics' annual workshop on Electrochemistry; the Institute for Computational Sciences' Integrated Computing Workshop on Computation & Energy; and the Environmental Science Institute's K-12 Teachers Program and Middle School Science Fair.

View the complete schedule for *UT Energy Week* in this program, or check out the online schedule of events at <http://energyweek.utexas.edu>.

Thank you for attending *UT Energy Week 2016* and for giving us the opportunity to share with you some of the vital energy research taking place at UT Austin.

Sincerely,

Dr. Thomas F. Edgar
Director, Energy Institute

Darcia Datshkovsky Sáenz
President, Longhorn Energy Club

Tuesday, February 16

Mexico's Electric Power Sector Reform: The Role of Natural Gas and Renewables

- 10:00 – 11:00 Registration
- 11:00 – 11:30 Opening Remarks
Jorge Piñón, Director, Latin America and Caribbean Energy Program, UT Austin
Thomas F. Edgar, Director of UT Austin Energy Institute
UT Austin President **Gregory L. Fenves**
- 11:30 – 12:30 Keynote Speaker: **Christopher Smith**, Assistant Secretary for Fossil Energy, U.S. Department of Energy
- 12:30 – 1:30 Lunch
- 1:30 – 2:45 Panel: Electric Power Reform
Norma de la Salud Álvarez Girard, Directora General en la Unidad de Sistemas Eléctricos, Comisión Reguladora de Energía CRE.
Peter Nance, Principal, ICF International
Calvin Crowder, President, Electric Transmission Texas, LLC
Erika Benson, President, Benson International Group, LLC
Max Yzaguirre, CEO, The Yzaguirre Group, L.L.C. (Moderator)
- 2:45 – 3:15 Break
- 3:15 – 4:30 Panel: The Role of Natural Gas
David Madero, General Director, Centro Nacional de Control del Gas Natural CENAGAS.
James Fowler, Editor, ICIS Mexico Energy Report
Carlos Garcia, Lewis Energy Group
Bob Gibb, Associate Director, Navigant
Barry Smitherman, Partner, Energy Regulation, Vinson & Elkins (Moderator)
- 4:30 – 5:00 Program Summary: Challenges and Opportunities
Melinda Taylor, Executive Director, KBH Center for Energy, Law & Business, UT Austin
Barry Smitherman, Partner, Energy Regulation, Vinson & Elkins
Max Yzaguirre, CEO, The Yzaguirre Group, L.L.C.
- 5:30 – 8:00 Cleantech Across the Rio Grande: A CleanTX Signature Event
Blanton Museum of Art ▪ *Register separately via CleanTX.org*

The University of Texas at Austin 2016 Energy Week program for Tuesday, February 16 will examine “Mexico’s Electric Power Sector Reform: the Role of Natural Gas and Renewables.” The program will bring together policy officials, regulators, service providers, industrial consumers, operators, and finance and legal professionals from both sides of the border who understand the complexity of the electric power industry and the significance of Mexico’s transition to a competitive market. Experts will share lessons learned and discuss common challenges and opportunities.

Mexico’s recently enacted energy reform is intended to foster competitiveness and private investment throughout the electric power sector value chain in order to support economic growth and job creation by delivering competitively priced, reliable, clean, and secure electricity.

Today, Mexico accounts for one-fifth of all energy use in Latin America. Growth in demand is estimated to result in an increase of installed electric power generating capacity from 64 GW in 2013 to 118 GW in 2030. More than \$16 billion of investments are expected over the next few years, in infrastructure, renewable energy projects, and combined cycle natural gas generation plants.

U.S. natural gas exports to Mexico account for nearly half of the total U.S. natural gas exports and represented approximately 70% of total Mexican imports in 2014. Mexico’s natural gas imports from the U.S. are expected to increase from 2.0 bcf/d to 5.0 bcf/d in 2020.

As of 2013, total renewable energy capacity in Mexico’s power sector was 14.2GW out of 64GW total system capacity; hydropower represented 18% of that total, with wind and geothermal 4% combined. Mexico’s goal of generating 35% of electricity from non-fossil sources by 2024 is considered an important step in achieving its recent COP 21 pledge to cap GHG emissions by 2026 and reduce carbon emissions 51 percent by 2030.

Panelists with legal, regulatory, wind, solar, and energy storage backgrounds will explore the challenges and opportunities facing various sources of renewable energy in Mexico’s newly reformed energy marketplace, and discuss how to address barriers to cross-border trade and expansion as energy industries on both sides of the border continue to evolve.

Wednesday, February 17

Energy & Society

- 8:30 – 9:00 Registration and Continental Breakfast
- 9:00 – 10:15 Panel: Food for Thought: Energy-Food Nexus
Ty Vaughn, Monsanto
Michael Webber, Professor of Mechanical Engineering and Deputy Director of the Energy Institute, UT Austin
Rajeev Patel, Research Professor, LBJ School of Public Affairs, UT Austin (Moderator)
- 10:15 – 10:30 Break
- 10:30 – 11:45 Panel: Water Initiatives in Texas: Energy, Technology, and Policy
Charles Porter, Professor, St. Edward's University
Brewster McCracken, Pecan Street, Inc.
Darrell Peckham, Water Quest, Inc.
Bridget Scanlon, Bureau of Economic Geology, UT Austin
Jim Malewitz, Energy Reporter, *Texas Tribune* (Moderator)
- 11:45 – 12:00 Break
- 12:00 – 1:15 Lunch and Keynote Speakers:
Russell Gold, UT Energy Journalism Fellow and Journalist at the *Wall Street Journal*
Seamus McGraw, Author of *The End of Country: Dispatches from the Frack Zone*
- 1:15 – 1:30 Break
- 1:30 – 2:45 Panel: The Science of Fracking
Rob Jackson, Professor, School of Earth, Energy & Environmental Sciences, Stanford University
Cliff Frohlich, Associate Director, Institute for Geophysics, Jackson School of Geosciences, UT Austin
David T. Allen, Professor, Department of Chemical Engineering, Cockrell School of Engineering, UT Austin
David Spence, Professor, School of Law and McCombs School of Business, UT Austin (Moderator)

- 2:45 – 3:00 Break
- 3:00 – 4:15 Panel: Regulatory Responses to Fracking
Scott Anderson, Senior Policy Director, US Climate and Energy Program, Environmental Defense Fund
Mike Smith, Executive Director, Interstate Oil & Gas Compact Commission
Matt Lepore, Director of the Colorado Oil and Gas Conservation Commission, Colorado Department of Natural Resources
John Smelko, Environmental and Regulatory Compliance Manager, North Region, Cabot Oil & Gas Corporation
Melinda Taylor, Executive Director, KBH Center for Energy, Law & Business, UT Austin (Moderator)
- 4:15 – 4:30 Break
- 4:30 – 5:45 Panel: Powering the Cities of the Future
Bert Haskell, Pecan Street Inc.
Josh Rhodes, Postdoctoral Fellow, Energy Institute, UT Austin
Roger Duncan, Research Fellow, Energy Institute, UT Austin
Mark Sanders, Texas Renewable Energy Industry Alliance
Petra Liedl, School of Architecture, UT Austin (Moderator)
- 5:45 – 7:00 Reception with Energy Thought Summit
Clive Bar on Rainey Street
Come to an open-bar happy hour sponsored by Zpryme and Energy Thought Summit 2016! Pre-registration required via <http://tinyurl.com/zc9swtl>.

- 8:30 – 9:00 Registration and Continental Breakfast
- 9:00 – 10:15 Panel: Storage, Renewables, and Grid Management
Genevieve Dufau-McCarthy, Solar City
Bill Muston, Oncor
Todd Kiehn, Active Power
Ramkumar Krishnan, CTO, Fluidic Energy
Fred Beach, Assistant Director, Energy Institute, UT Austin (Moderator)
- 10:15 – 10:30 Break
- 10:30 – 11:45 Panel: De-Carbonizing the Grid
Khalil Shalabi, Austin Energy
Beth Garza, Potomac Economics
David Gee, Boston Consulting Group
Jim Marston, Environmental Defense Fund
Ross Baldick, Professor, Department of Electrical & Computer Engineering, UT Austin (Moderator)
- 11:45 – 12:00 Break
- 12:00 – 1:15 Lunch and UT Energy Poll Presentation:
Sheril Kirshenbaum, Director, UT Energy Poll
- 1:15 – 1:30 Break
- 1:30 – 2:45 Panel: Financing Electrons
The panel members will discuss such topics as the rationale for various financing structures, some history of these structures/strategies, and particular dynamics underway right now that will influence the generation mix.
Kevin Howell, Illinois Power Generating Company
Shaila Hossain, Captra Capital LLC
John Hackney, Wells Fargo
Andy Bowman, Pioneer Green Energy LLC
Dave Tuttle, UT Austin (Moderator)
- 2:45 – 3:00 Break
- 3:00 – 4:15 Panel: Menace or Miracle? Rethinking Nuclear Waste
Managing radioactive waste in the United States has been a contentious issue for decades, and it likely hinders the expansion of nuclear power. But what if spent nuclear fuel isn't really spent, just partly used?
Charles Maguire, Texas Commission on Environmental Quality
Steve Biegalski, Director, Nuclear Engineering Laboratory, UT Austin
Monty Humble, AFCI Texas
Jessica Lovering, Breakthrough
Bob Hebner, Director, Center for Electromechanics, UT Austin (Moderator)
- 4:15 – 6:15 Happy Hour / Networking
Poster Competition People's Choice Voting
- 6:15 – 6:45 Award Presentations for Poster and Start-up Competitions
- After the panels, please join us in a Happy Hour Co-Hosted with Young Professionals in Energy (Austin Chapter) and view the outstanding energy-related posters included in our Poster Competition. You can cast your vote for the People's Choice award. We'll close out the night with an announcement of the winners.*

	Tuesday	Wednesday
	Mexico's Electric Power Sector Reform	Energy & Society
		Registration 8:30 – 9:00
Session 1	Registration 10:00 – 11:00	Food for Thought: Energy-Food Nexus 9:00 – 10:15
Session 2	Opening Remarks: UT Austin President Gregory Fenves 11:00 – 11:30	Water Initiatives in Texas: Energy, Technology, and Policy 10:30 – 11:45
Session 3	Keynote Speaker followed by Lunch: Christopher Smith 11:30 – 1:30	Lunch and Keynote Speakers: Russell Gold and Seamus McGraw 12:00 – 1:15
Session 4	Electric Power Reform 1:30 – 2:45	The Science of Fracking 1:30 – 2:45
Session 5	The Role of Natural Gas 3:15 – 4:30	Regulatory Responses to Fracking 3:00 – 4:15
Session 6	Program Summary 4:30 – 5:00	Powering the Cities of the Future 4:30 – 5:45
Session 7	CleanTX Signature Event: Cleantech Across the Rio Grande 5:30 – 8:00	Reception with Energy Thought Summit (Clive Bar) 5:45 – 7:00

	Thursday	Friday
	Utilities & The Grid	Challenges in the Oil & Gas Industry
	Registration 8:30 – 9:00	Registration 8:30 – 9:00
	Storage, Renewables, and Grid Management 9:00 – 10:15	Perpetuating the Boom? Advancements in Operations and Technology 9:00 – 10:15
	De-Carbonizing the Grid 10:30 – 11:45	Financing Hydrocarbons 10:30 – 11:45
	Lunch and UT Energy Poll Presentation 12:00 – 1:15	Lunch and Keynote Speaker: Jonathan Lewis, Halliburton 12:00 – 1:15
	Financing Electrons 1:30 – 2:45	Energy and Geopolitics 1:30 – 2:45
	Menace or Miracle? Rethinking Nuclear Waste 3:00 – 4:15	Oil & Gas Limbo: How Low Can Price Go? 3:00 – 4:15
	Happy Hour / Networking with Poster Competition 4:15 – 6:15	Keynote Speaker: Helge Hove Haldorsen, 4:15 – 5:30
	Award Presentations for Poster and Start-up Competitions 6:15 – 6:45	Reception Hosted by Texas Exes 5:30 – 7:00

Friday, February 19

Challenges in the Oil & Gas Industry

- 8:30 – 9:00 Registration and Continental Breakfast
- 9:00 – 10:15 Panel: Perpetuating the Boom? Advancements in Operations and Technology
Brad Keating, Electric Drilling Technologies
Kumar Ramurthy, Halliburton
Amit Singh, Chevron
Claudia Hackbarth, Shell
Mukul Sharma, UT Austin (Moderator)
- 10:15 – 10:30 Break
- 10:30 – 11:45 Panel: Financing Hydrocarbons
Rob Baldwin, PwC
Cameron Dunn, Natural Gas Partners
Rob Jones, Shell Midstream Partners, GP LLC
Thomas Hiddemen, KPMG
John Corrigan, Strategy&
- 11:45 – 12:00 Break
- 12:00 – 1:15 Lunch and Keynote Speaker
Jonathan Lewis, Senior Vice President, Completion and Production, Halliburton
- 1:15 – 1:30 Break
- 1:30 – 2:45 Panel: Energy and Geopolitics
Ken Medlock, Baker Institute
Corey Grindal, Cheniere
Matthew Bey, Stratfor
Joshua Busby, UT Austin (Moderator)
- 2:45 – 3:00 Break
- 3:00 – 4:15 Panel: Oil & Gas Limbo: How Low Can Price Go?
Peter Nance, Que Advisors
Arthur Berman, Labyrinth Consulting Services
Kirk Goehring, Jones Energy
Xuan Si, Arete Investment
Sheridan Titman, UT Austin (Moderator)
- 4:15 – 5:30 Keynote Speaker: “E&P 2.0” **Helge Hove Haldorsen**, SPE President 2015 and Director General Statoil Mexico
- 5:30 – 7:00 Reception Hosted by Texas Exes
Join UT alumni and the Texas Exes for a happy hour. Texas Exes is the largest alumni organization of the University of Texas. It invites you to socialize with your former classmates and network with fellow Longhorns who are also in the energy industry. Special guest speakers will be present, including the President of the Society of Petroleum Engineers.

Student Research

The University of Texas at Austin

is one of the leading universities for energy research, but beyond that it is the center for interdisciplinary research, something that is necessary to gain an accurate perspective on energy issues and which is emphasized throughout Energy Week.

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.

Poster Competition

Competition Judges

Environmental Sustainability

Mark Stehouwer, HES Specialist, Chevron

Dr. Kerry Kinney, L.P. Gilvin Centennial Professor in Engineering, Environmental and Water Resources Engineering

Energy Economics, Law, Communication, and Policy

Colin Meehan, Director Regulatory & Public Affairs, First Solar

Katherine Carmichael, Public Affairs Specialist, Texas Alliance of Energy Producers

Renewable Energy and Energy Storage

Karl Popham, Emerging Technologies and Electric Vehicles Manager, Austin Energy

John Herbst, Associate Director, Center for Electromechanics, The University of Texas at Austin

Fossil Fuels & Byproducts

Jolene Litzman, Manager, PcW Consulting

Michele Thomas, Upstream Portfolio Manager and Corporate Strategic Research, Exxon Mobil

Student Research

Competition Abstracts

Energy Economics, Law, Communication, and Policy

Yaran Jin	<i>Economic Evaluation of Voluntary Cap and Trade Programs: Evidence from Texas</i>
Ankur Kumar	<i>Optimal Sensor Placement for Energy Efficient Operation of Industrial H2 Plants through Smart Manufacturing</i>
Abigail Ondeck	<i>Economic Optimization of Combined Heat & Power for Residential Neighborhoods: A Data-Driven Modeling and Design Study</i>
Richard Pattison	<i>A Novel Model Reduction Framework to Enable Industrial Consumers to Shift Power Consumption Off-Peak</i>
Alex Zhou	<i>Future of US Unconventional Play in Current Low Price Environment</i>

Fossil Fuels & Byproducts

Mahdi Haddad	<i>Integration of Dynamic Microseismic Data with a True 3D Modeling of Hydraulic Fracture Propagation in Vaca Muerta Shale</i>
Han Jiang	<i>Characterization of microscale hydrocarbon flow pathway in fractured shale using gas adsorption</i>
Pranav Karve	<i>Inverse source problems for enhanced oil recovery by stress wave stimulation of oil reservoirs</i>
Xiangyu Liu	<i>Enhanced Zonal Isolation in Oil/Gas Wells using Geopolymers</i>
Ehsan Moaseri	<i>Copolymer-Grafted Stabilization of Superparamagnetic Iron Oxide Nanoclusters at High Ionic Strength and High Temperature Designed by Combinatorial Materials Chemistry</i>
Arjang Shahriari	<i>Electrically enhanced boiling heat transfer for desalination and materials processing applications</i>
Sogo Shiozawa	<i>Simulation of proppant transport with gravitational settling and fracture closure in a three-hydra</i>
Kaustubh Shrivastava	<i>Alternate Slug Fracturing using Polymer-Enhanced Foam</i>
Qian Wu	<i>Advanced Fiber Optic Sensors for Monitoring Zonal Isolation</i>
Yifei Xu	<i>Discrete Fracture Modeling of Complex Hydraulic Fracture Geometries in Reservoir Simulators</i>

Environmental Sustainability

Jeffrey Bean, Dongyu Wang, Surya Dhulipala, Lea Hildebrandt Ruiz	<i>Atmospheric Impacts of Hydraulic Fracturing: Ozone and Particulate Matter Production from flowback fluid</i>
Maggie Flicker Byers	<i>Optimization of the Passive Recovery of Uranium from Seawater</i>
Hari S. Ganesh	<i>Energy efficient operation of an industrial heat treating furnace</i>
Krystian Perez	<i>Analysis and Mitigation of High-Impact Residential Energy Loads from Smart Meter Data</i>
Mahmood Shakiba, Seyyed Hosseini	<i>Application of Pressure Pulse Test Analysis in CO2 Leakage Detection and Monitoring</i>
Zhuang Sun, Matthew T. Balhoff, Nicolas Espinoza	<i>Pore-scale Modeling of the Effect of Cementation on Rock Indentation Test</i>
Scott Vitter	<i>Closed-loop predictive pump scheduling to maximize peak load shifting in the power sector</i>
Enakshi Wikramanayake	<i>Flared natural gas and landfill gas based atmospheric water harvesting (AWH) for sustainable oilfield operations</i>
Ni Yan, Donald R. Paul, Benny D. Freeman	<i>Fundamental Water and Ion Transport Studies in Model Sulfonated Crosslinked Polymers for Water Purification and Energy Generation Applications</i>

Renewable Energy & Energy Storage

Chi-Hao Chang, Arumugam Manthiram	<i>From Trash to Treasure: Transforming Waste Newspaper to an Interlayer of Lithium-Sulfure Battery for Improving Electrochemical Performance</i>
Sheng-Heng Chung, Arumugam Manthiram	<i>High-loading Structural Cathodes for Electrochemically Stable Li-S Batteries</i>
Yu Ding	<i>A Bioinspired Organic Based Liquid Battery for Renewable Energy Storage</i>
Li Ji	<i>Enabling Dielectric Hard Breakdown in Application of Solar-Fuel-Conversion with Metal-Oxide-Semiconductor Photoelectrodes with Permalloy as a Novel Cocatalyst</i>
Alina LaPotin, Erich Schneider	<i>Large Scale Energy Storage for Nuclear Power Plants</i>
Craig Milroy	<i>Printed Electrodes for Scalable, High-areal-capacity Lithium-sulfur Batteries</i>
Sean Wood	<i>Simple Additive Could Enable the Use of Lithium Metal Anodes and Increase Battery Capacity by 10x</i>
Bryan Wygant, Karalee Jarvis, William Chemelewski, Oluwaniyi Mabayoje, Hugo Celio, C. Buddie Mullins	<i>Structural and Catalytic Effects of Iron-and Scandium-Doping on a Strontium Cobalt Oxide Electrocatalyst for Water Oxidation</i>

Energy Technology

The energy technology open competition showcases students, faculty and the general startup community with brilliant ideas and startups across several aspects of energy: Oil & Gas, Cleantech, Software, and Water & Energy Efficiency. Join us for technology exhibition and idea pitches by over 15 exciting new companies.

“What starts here changes the world”

Competition Judges

Kirk Coburn, Founder, SURGE Ventures

Becky Taylor, Shell

Mitch Jacobson, Austin Technology Incubator

Scott Kosch, Kosch Capital Management

Jitendra Jain, Office of Technology Commercialization

Bob Metcalfe, UT Austin

Andrew Johnston, Zpryme

Open Competition

Startup Teams

AeroClay LLC

Atom Mines LLC

EBIK

ExpertKnowledge expertknowledge.com

GNOSYS www.gnosys.com

Infitoom www.infitoom.net

Nexushaus www.nexushaus.com

Onboard Dynamics www.onboarddynamics.com

Recollect Energy

Seismos Inc. seismos.com

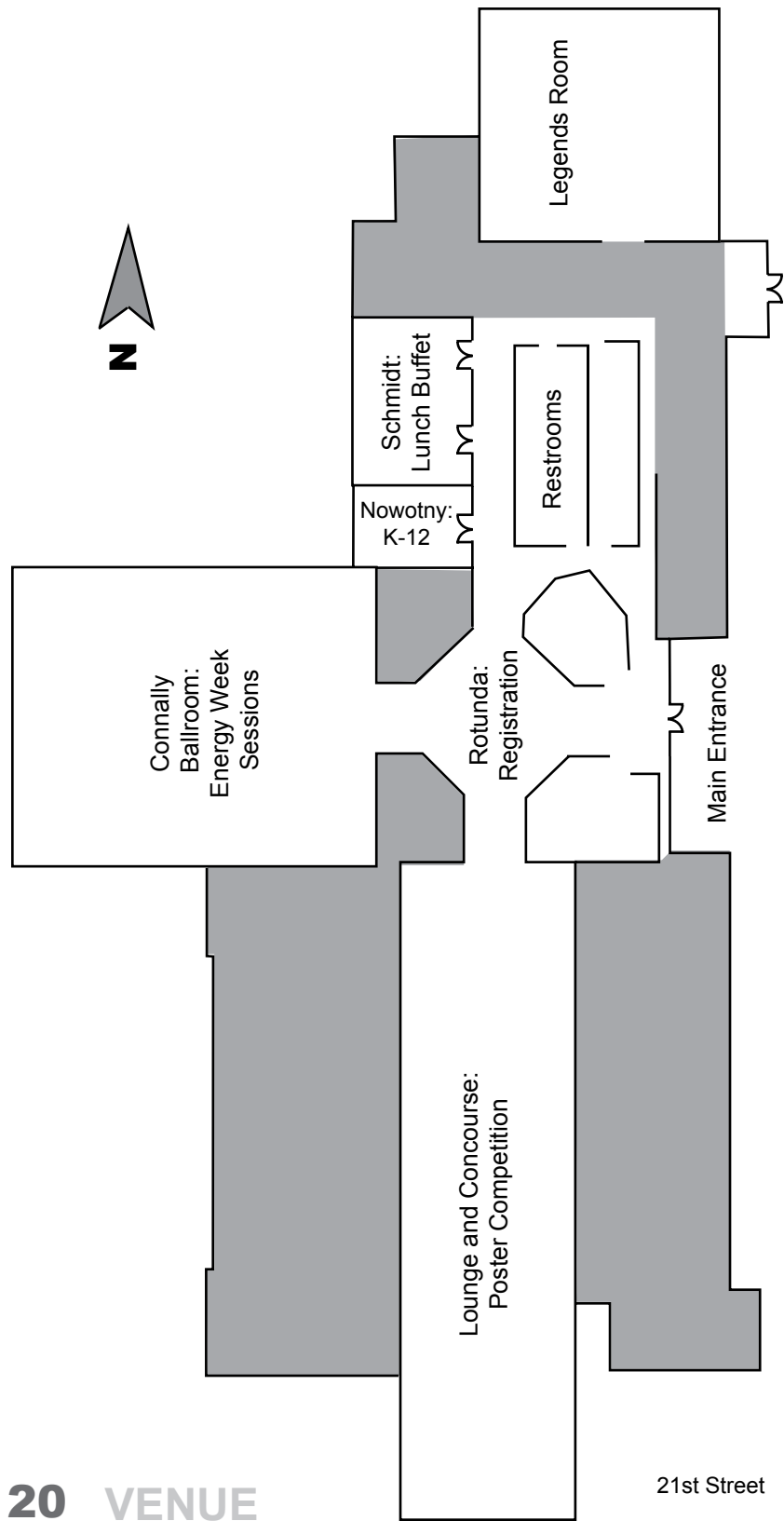
Simplify Solar www.simplifysolar.com

Texas Guadaloop

VERT Solar Finance www.vertsolar.com

Water Lens, LLC www.waterlensusa.com

Xyber Technologies www.xyber.tech



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