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DRILLING INTO GEOTHERMAL ENERGY APPLICATIONS

#SMUPowerPlays

January 10-11, 2018

SMU Campus, Dallas, TX



Southern Methodist University

January 10-11, 2018 SMU Geothermal Conference

Roy M. Huffington
Department of Earth Sciences
Dallas, Texas



SMU | GEOTHERMAL
LABORATORY

Faculty: Matthew Hornbach
Coordinator: Maria Richards
Project Specialist: Cathy Chickering Pace
Outreach Coordinator: Christine Ferguson

<http://www.smu.edu/geothermal>

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SMU | GEOTHERMAL LABORATORY

The SMU Geothermal Lab was established in 1970 by Dr. David Blackwell. We are a self-funded research facility, with a variety of ongoing geothermal resource projects. Our faculty, staff, and students strive to broaden the understanding and use of geothermal energy, from the simplest form, geothermal heat pumps for buildings, to the large-scale deployment of geothermal power plants providing energy for our cities. Our research also explores opportunities to integrate renewable geothermal projects in an oil and gas setting.

Our expertise includes:

- Academic research by faculty, staff, and students
- Data integration into maps such as the Geothermal Map of North America
- National Geothermal Data System Node at <http://geothermal.smu.edu/gtda/>
- Research projects such as Enhanced Geothermal Potential of the Cascades, Geothermal Synthesis of Dixie Valley, Nevada, well temperature logs for climate change indicators, and the stability of methane hydrates along continental shelves
- Well logging with high precision temperature measurements
- Rock sample analysis of thermal conductivity for research and commercial clients

In addition to our research, the Lab assists the public through:

- Teacher and student educational classroom materials for STEM programs
- A monthly newsletter for the geothermal, oil/gas, and energy industries, along with information for the public on events, funding, and research opportunities
- Presentations, news articles, and social media updates
- Hosting the Power Plays conference and industry meetings
- Suggested publications and papers for those interested in learning more

Contact us:

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Conference Agenda

January 10, 2018

6:00 PM **Welcome Reception and Poster Session**

Brian Anderson

West Virginia University, Energy Institute

Feasibility of Deep Direct Use Geothermal on the WVU Campus
Morgantown, WV

Joe Batir

SMU, Roy M. Huffington Department of Earth Sciences

East Texas Reservoir Study for Gas Plant Deep Direct Use Application

Burke Brunson

Univ. of North Dakota, School of Geology & Geological Engineering

Geophysical Analysis of the Paleogeothermal Gradient and Heat Flow in
the Williston Basin, ND

Mark Ingram

Ball State University, Department of Geological Sciences

Basin Analysis and Hydrocarbon Potential of the Bali Basin, Indonesia,
with Expanded Geothermal Heat Flow Map of Sundaland

N. Jayaraju

Yogi Vemana University, Kadapa, India

Geothermal Energy in India: Past, Present and Future Scenarios

Elodie Jeandel and Eléonore Dalmais

EDF/EIFER and ES Géothermie

Hydrocarbon-geothermal Co-production Challenges in Eastern Europe:
Geothermal Pilot Projects for Heat and Electricity in Serbia (GOSPEL
Project)

Arna Pálsdóttir

Cornell University, Cornell School of Chemical & Biomolecular Engineering

Supercritical Fluid Extraction of Lithium from Geothermal Waters using
Strategically Engineered Crown Ether Extractants

Rebecca Pitcock, Kirsten Nicholson and Ahmed Benkhayal

Ball State University, Department of Geological Sciences

Geothermal Heat Flow in Northern Indonesia

Kris Pudyastuti, Atmojo, J., Sugiatmo K., Burhannudinnur M., Maman D., and Fadhlurrahman, S.

*Universitas Trisakti, Jakarta and Upstream Research & Technology, PT
Pertamina (Persero), Indonesia*

Thermal Characteristics in Initial Conditions (Natural State), Geothermal
Field at South Sumatra – Indonesia

Conference Agenda

January 10, 2018

6:00 PM **Welcome Reception and Poster Session (Continued)**

John Sisler

Steamfield Sensors Inc.

Pipeline Sensors Laboratory and Field Results

Daniel Wendt, Birendra Adhikari, Christopher Orme and Aaron Wilson

Idaho National Laboratory

Switchable Polarity Solvent Forward Osmosis (SPS FO): Technology Development Status and Economic Potential for Produced Water Treatment

Sherilyn Williams-Stroud and Graham Yielding

Confractus Inc. and Badley Geoscience

Induced Seismicity Related to Fault Structures

H. I. Yoon

Hanjin D&B Co.,Ltd.

Drilling Techniques and Equipment for Granites or Depths Below 6 km

8:00 PM **Close of Day 1**

SMU WiFi

SMU_Guest

SMU_Guest is available to campus visitors as a self-provisioned account for 72 hours. Select SMU_Guest from your WiFi options. At the bottom of the page, create an account using your email address. A password will be emailed to you.

Eduroam

Eduroam is available to guests from other universities.

Conference Agenda

January 11, 2018

7:30 AM **Onsite Registration, Coffee and Networking**

8:00 AM **Maria Richards**

SMU Geothermal Laboratory
Welcome and Opening Remarks

8:15 AM **Panel Discussion Workshop on SedHeat
Coal and Geothermal: A Path Forward**

Bob Pilko - *Blade Energy Partners*

Susan Petty - *HERO Hot Rock Energy Research Organization*

Brian Anderson - *West Virginia University Energy Institute*

William Shaw - *University of Texas, Austin MBA*

9:15 AM **Refresh Break**

9:30 AM **Camisha Simmons**

Simmons Legal PLLC
Purchasing Oil and Gas Assets in Bankruptcy

9:50 AM **Richard Wynn**

Deep River Group, LLC
Lessons Learned Converting Gas Wells to Geothermal Energy

10:10 AM **Minsu Cha**

Texas A&M University, Department of Civil Engineering
Thermal Fracturing Behavior in Well Stimulations of Enhanced Geothermal Systems

10:30 AM **Networking Break**

10:55 AM **Geothermal Storage Applications Panel**

Josh McTigue - *National Renewable Energy Laboratory*
Eastman Chemical Gas Plant East TX Deep Direct Use Project

George Nitschke - *Good Earth Mechanics, LLC*
Converting Geopressured-Geothermal Reservoir Brine into Renewable Energy

Mark Hauenstein - *RenewGeo, LLC*
Reduce Carbon Emissions through Solar - Geothermal Storage

Panel Moderator: Dexter Jacobs - *LoCap Energy, LLC*

12:15 PM **Lunch**

Conference Agenda

January 11, 2018

- 1:10 PM **Ruben Havsed**
Climeon AB
Distributed Low-temperature Geothermal Power from Oil and Gas Wells
- 1:30 PM **Elodie Jeandel**
EDF/EIFER and ES Géothermie
Hydrocarbon-geothermal Coproduction Challenges in Eastern Europe: Pilot Projects for Heat and Electricity in Serbia
- 1:50 PM **Will Gosnold**
Univ. of North Dakota -Hamm Geology & Geological Engineering
Concept for a Distributed Baseload Electrical Power System in the Williston Basin
- 2:10 PM **Networking Break**
- 2:40 PM **Jeff Humber**
USAID Office of Afghanistan and Pakistan Affairs
Assessment of Geothermal Co-production from Oil and Gas Wells in Pakistan
- 3:00 PM **John Sisler**
Steamfield Sensors Inc.
Real-Time Sensors for Multi-Phase Measurement of Pipe Flows in Steam and Gathering Lines
- 3:20 PM **Open Discussion for Attendee Highlights**
- 3:35 PM **Networking Break**
- 4:00 PM **Diego Quiros**
Baylor University - Geosciences
Novel Approach to Automated, In-field Seismic Exploration and Monitoring Via Seismic Interferometry with Ambient Noise
- 4:20 PM **Peter Malin**
ASIR & st1 Deep Heat, Finland
Engineered Geothermal at Otaniemi and Basel: “end” members in drilling and induced seismicity?
- 4:40 PM **Open Discussion**
- 5:00 PM **End of Meeting**

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Thank you for sponsorship of the pre-conference workshop:

Coal and Geothermal: A Path Forward

and sponsoring students to attend Power Plays.

THANKS FOR YOUR SUPPORT

Coffee Breaks sponsored by **Blade Energy Partners**



and **Roy M. Huffington Department of Earth Sciences**

Earth Sciences serves as a core discipline in the SMU Dedman College and helps students ponder some of the most pressing issues of our day including climate change, natural resources and hazards. The study of the Earth places the consequences of our activities such as pollution, land use, resource exploitation and population growth into the greater framework of Earth history and planetary evolution.

With funding from organizations such as the U.S. Departments of Defense and Energy and the National Science Foundation, the Earth Sciences has achieved international recognition in the research areas of seismology, geothermal studies and paleoclimatology. Recently, an Earth Sciences faculty member helped develop a pilot project on setting up a seismic network on the Moon.

MEDIA PARTNER



THINK
GEOENERGY

BIOSKETCH OF PRESENTERS

(ALPHABETICAL ORDER)



Brian Anderson

West Virginia University Energy Institute

Brian Anderson is the Director of the Energy Institute and the GE Plastics Materials Engineering Professor in the Department of Chemical Engineering at West Virginia University. He has a Ph.D. in Chemical Engineering and a Masters in Chemical Engineering Practice from MIT. His research interests include intermolecular interactions of gases such as CH₄, H₂, CO₂, with water and with solid surfaces, molecular modeling of natural gas hydrates, economic modeling of energy technology, and Enhanced Geothermal Systems. In 2012, he received the Presidential Early Career Award for Scientists and Engineers. Outside of his energy research and business pursuits, he is an accomplished vocalist.



Joe Batir

Southern Methodist University Huffington Dept. of Earth Sciences

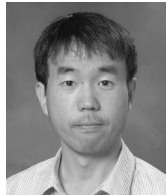
Joseph Batir is a Research Geoscientist at the Southern Methodist University Geothermal Laboratory where he focuses on reservoir characterization, mapping, thermal numerical modeling, and data mining to find new and underutilized energy resources. He earned his Ph.D. in Geophysics from SMU, publishing two peer-reviewed articles and producing the newest edition of the surface heat flow map of Alaska during his studies. Joe has completed projects throughout the United States as well as in Iceland and Africa. To increase his status as a professional globetrotter, Joseph always proposes site visits and new data collection as part of every project.



Daniel Burke Brunson

University of North Dakota School of Harold Hamm Geology and Geological Engineering

Burke Brunson is a local of the Mobile, AL area. He is currently participating in graduate studies at the University of North Dakota School of Geology and Geological Engineering in Grand Forks, ND under the tutelage of Dr. William Gosnold. Coursework involves a combination of geophysics, structural geology, geomechanics, and engineering. A Master's thesis project involving creation of a 3-D thermal model and heat flow assessment of the Williston Basin was completed in December 2017. He also works as a Core Library Technician for the North Dakota Geological Survey's Laird Core and Sample Library. He previously worked for Schlumberger as a Geoservices Offshore Drilling Data Analyst - Grade 7 (Field Technical Analyst 1) out of Lafayette, LA. A B.S.G. degree majoring in Geology and a B.S. degree dual-majoring in Chemistry and Biology from The University of Alabama in Tuscaloosa, AL. He has conducted various scientific research projects in the areas of geology, chemistry, and biology during that time. He also enjoyed full-time teaching position of junior- and senior-year science and math courses at St. Paul's Episcopal School in Mobile, AL before re-entering school for Geology. He goes outdoors for adventure and exercise activities at every opportunity.



Minsu Cha

Texas A&M University Department of Civil Engineering

Minsu Cha is an assistant professor in the Zachry Department of Civil Engineering at Texas A&M University. He received his Ph.D. and M.S. in Geotechnical Engineering from Georgia Tech and degrees in Civil Engineering from KAIST, Korea (M.S.) and from Pusan National University, Korea (B.S.). He was a postdoctoral fellow in the Civil Engineering Department and the Petroleum Engineering Department at the Colorado School of Mines. His research interests lie in the study of fundamental concepts and engineering solutions that address geo-challenges related to energy ge-engineering, such as sediment dissolution, reservoir geomechanics, CO₂ geostorage, and geothermal energy, and the development of innovative tools to investigate these areas. He has also done the fabrication/instrumentation of lab-scale geophysical methods and particulate discrete element modeling.



Will Gosnold

University of North Dakota Harold Hamm School of Geology and Geological Engineering

William Gosnold is a Chester Fritz Distinguished Professor in the Harold Hamm School of Geology and Geological Engineering at the University of North Dakota. He is Director of the Petroleum Research Education and Entrepreneurship Center at UND. He was Department Chair (2006-10), and Interim Director of University of North Dakota Office of Research and Program Development (2001-04). Will works with the North Dakota Geological Survey and petroleum industry partners to develop geothermal energy in the Williston Basin. He has served as Custodian of the Global Heat Flow Database of the International Heat Flow Commission since 2001. During this time he converted the database from FORTRAN code to ASCII and Microsoft EXCEL, then accessible from the internet. Over his career, Will served as Principal Investigator on ten US Department of Energy (DOE) funded geothermal project. He has conducted geothermal resource assessments for the DOE for the states of Nebraska, South Dakota, North Dakota, and Minnesota including development of thermal-stratigraphic models of energy content. Will is just as active in the US Masters swimming with seven 1st place finishes in the National competition in both the freestyle long and short course events. As Advisor to the UND Cross Country Ski Club Will keeps his students running to keep up.



Mark Hauenstein

RenewGeo, UC-Won and Homestretch Geothermal

Mark Hauenstein is a Chemical Engineering graduate from the University of Kansas where he studied the use of CO₂ injection in the Permian Oil Basin as part of tertiary oil recovery. Registered as a professional engineer since 1986 and licensed in six western states, Mark is currently working with Homestretch Geothermal, the oldest geothermal plant in Nevada, to monitor and improve the efficiency of their 5.6 MW binary cycle generation equipment. For the past three years, Mark has been the energy chair for Western Nevada Development District, working with energy related infrastructure challenges in nine rural Nevada counties.



Ruben Havsed

Climeon AB

Ruben Havsed is located in Kista, Sweden as the Head of Geothermal Sales at Climeon, a cleantech equipment vendor and a world leader in converting low temperature heat into electricity. Previous to this position he worked for Carnegie Investment Bank as a Business Support Specialist. Ruben has a Bachelor of Business Administration in Finance from Stockhoms University, and an International Financial Management degree from Hogeschool van Amsterdam.



Jeff Humber

USAID Office of Afghanistan and Pakistan Affairs

Jeffrey Humber has more than 25 years of experience in international project finance and project development, attracting private investment to emerging market countries. He is currently Senior Energy Advisor to the US Agency for International Development's Office of Pakistan and Afghanistan Affairs. He formerly was creator and Director of USAID Africa Bureau's Africa Infrastructure Program, a program providing experienced international project finance experts to assist African governments in attracting \$1.5 billion in private investment and moving sub-Saharan electricity sector projects to financial closure. Africa Infrastructure Program provided the template for USAID's Power Africa Program. Previously, he was Vice President of Project Finance at the Bank of Tokyo-Mitsubishi, an international Independent Power Project developer with an international consortium of companies developing Pakistan's 1300 MW Hub Power Project, a Director of USAID's Private Sector Energy Development Program, a long-term advisor to the World Bank; and a Vice President of Advanced Engineering Associates International. Jeff has an MBA in Finance from the MIT Sloan School of Management, a Masters in Urban Planning from Boston University, and a BA from the University of Massachusetts.



Mark Ingram

Ball State University Dept. of Geological Sciences

Mark Ingram is a second year geology graduate student at Ball State University. The project presentation encompasses his thesis work to which Richard Fluegeman advises, as well as an additional geothermal project supervised by Kirsten Nicholson.



Dexter Jacobs

LoCap Energy, LLC

Dexter Jacobs is the Chief Executive Officer of LoCap Energy, LLC and a Managing Partner at Solid Design Works, LLC in Dallas. With a background as an engineering consultant in the aerospace/automation industries, Dexter has developed a keen sense of design. His interest in sustainable energy systems lead to extensive research into geothermal co-generation and other forms of waste energy harvesting and storage technologies to develop various peak shaving solutions. This effort led to starting LoCap Energy with co-founder Jeff Dye. Dexter graduated from SMU with degrees in Mathematics and Mechanical Engineering.



N. Jayaraju

Yogi Vemana University, Kadapa, India

N. Jayaraju is an Assistant Professor in the Department of Geology, Yogi Vemana University in India. He received his PhD in Environmental Marine Science from S. V. University along with his M.Sc. and B.Sc. His research experience includes environmental geoscience, marine ecology, marine pollution, coastal zone resources, sediments of marine marginal water bodies, lakes and estuaries



Elodie Jeandel

EDF/EIFER and ES Géothermie

Elodie Jeandel holds a PhD in Applied Geochemistry from the Paris Sud University in France in collaboration with the IFP Energies Nouvelles. She is employed at the European Institute for Energy Research as research engineer since 2008 and works for EDF research and development in the framework of the GOSPEL project. EDF Group covers power projects from generation to trading and transmission grids. Elodie's work history includes projects on geothermal energy, CO₂ geological storage, energy storage and sustainable cities. Her current work focuses on geothermal energy potential, market opportunities and risks assessment of prospects located in various countries, as well as the evaluation of innovative technologies applied to underground applications for decision makers.



Peter Malin

ASIR

Peter Malin has 40 years of experience in crustal seismology and geophysical research in both academic and industry settings. He is best known for his work in fault-zone and energy reservoir seismology, borehole seismology, instrument design and installation, seismic monitoring, and interest in rock fractures. He has worked extensively on several continental plate-boundary transform faults, including the San Andreas and North Anatolian Faults, uncovering new fault guided and refracted waves. Peter designed, installed and monitored at other sites around the globe, including USA, New Zealand, Iceland, Kenya, Taiwan, Turkey, Switzerland, Caribbean, Israel, Japan, Central America, Saudi Arabia and China. Recently Peter served as Director of IESE - the Institute of Earth Science and Engineering - a research and development institute in Auckland, New Zealand. Since returning to the US, Peter has resumed both academic and industrial research and seismic services, the latter at Southern Methodist University and the German Geosciences Center (GFZ) in Potsdam, the former by founding the new R&D company Advanced Seismic Instrumentation and Research (ASIR).



Josh McTigue

National Renewable Energy Laboratory

Josh McTigue is a post-doctoral researcher in the Thermal Sciences group at the National Renewable Energy Laboratory. His research concentrates on hybrid energy systems which integrate geothermal power, concentrating solar power and thermal energy storage. Josh has an M.Eng. and PhD in Mechanical Engineering from the University of Cambridge, UK. For his graduate work, Josh researched packed-bed thermal storage with an emphasis on exergy analysis, system design and optimization. His expertise lies in heat transfer, thermodynamics, and optimization techniques.



George Nitschke

Good Earth Mechanics, LLC

George Nitschke has 23 years' experience in the aerospace industry and 12 years' experience drilling oil, gas, and geothermal wells in the U.S. and abroad. George holds patents in Geopressured-Geothermal (GPGT) systems and was a principal contributor to the U.S. Department of Energy's GPGT consortium. He formed Good Earth Mechanics in 2007 to promote the optimal conversion of the GPGT resource into Salinity Gradient Solar Pond (SGSP) systems to help solve the integrated water and energy challenges in the US and abroad.



Arna Pálsdóttir

Cornell University School of Chemical and Biomolecular Engineering

Arna Palsdottir is a PhD candidate at Cornell University at the Robert Fredrick Smith School of Chemical and Biomolecular Engineering. Her research focuses on the extraction of lithium from geothermal waters using supercritical fluids. In addition to her research Arna was a Cornell Engineering Commercialization Fellow in 2017, looking into the commercial potential of supercritical fluid extraction of lithium from a variety of resources, including traditional lithium brines and geothermal waters. Arna received her undergraduate degree from the University of Iceland in Chemical Engineering in 2013. During her undergraduate studies she did research at Caltech University and the University of Maryland and spent a semester as an exchange student at the Royal Technical Institute in Stockholm.



Susan Petty

Hotrock Energy Research Organization

Susan Petty is the President and Founder of Hotrock Energy Research Organization. Susan is also the CTO, President, and Co-founder of AltaRock Energy Inc. After working in the Oil and Gas Industry she took her knowledge and moved into geothermal exploration. Now with over 30 years of geothermal experience, Susan's work has included all aspects of testing, evaluation, analysis, modeling and optimization for wells, well fields and power plants. Susan worked on geothermal electrical generation projects in locations around the world, including California, Nevada, Indonesia, the Philippines, and Central America. For the Department of Energy she performs policy studies on the economic modeling of geothermal pricing, and the impact of technology improvement on the cost of geothermal power. She has been instrumental in developing information, planning and designing software for use in developing public policy in geothermal energy and as a lead author in the MIT Future of Geothermal Energy Report. Susan is active in mentoring other women participating in C3E and WinG. Her BA is from Princeton University in Geology, and an MS in Groundwater Hydrology from the University of Hawaii.



Kris Pudyastuti

Universitas Trisakti, Indonesia

Kris Pudyastuti Dra. MSc. MM. is a faculty member of the Earth Technology and Energy, Department Petroleum Engineering Trisakti University, Jakarta, Indonesia. Kris has experiences in areas of liquid hydrocarbon (crude oil/condensate, LPG/LNG) commercial, EP Assets portfolio, business plan, performance management, applied geophysics, and geothermal reservoir engineering. She is currently an advisor for PERTAMINA International EP, having worked with them since 1993. Her Master's degree is from the Institut Teknologi Bandung (ITB) in Applied Geophysics, Geothermal Reservoir.



Robert Pilko

Blade Energy Partners

Bob Pilko has 39 years in many facets of the upstream gas, oil, and geothermal industries domestically and internationally. Since 2003 as Strategic Relations Director for Blade Energy Partners, Bob was key in Blade's expansion to a global technological leader in complex and critical project management, field development, well design, engineering, and operations. He has successfully concluded IP, risk management, transactional, and investment negotiations; and resolved conflicts and claims inside or outside of litigation that included investments in organizations owning properties that drilled, produced, and/or distributed gas, oil and products. Bob's career spans positions as U.S. General Manager, North America Negotiator and Production Services Manager, and Executive V.P. in Houston for energy firms, and a series of positions for Schlumberger divisions in Houston, Lafayette, Edmonton, Singapore, Jakarta, and Bangkok, culminating as N. Far East Base Manager for one of its divisions. Recently, he organized and chaired an IEL-CAIL Oilfield Services Law Workshop on Government regulations, a HBA OG&ML Meeting on Master Services Agreements, and through Blade Energy Partners sponsored six projects combining law, business, engineering, and geoscience under the UT McCombs Enhance Programs, including three focused on converting coal or industrial facilities to geothermal power providers. Bob is an active technical contributor and member of AADE-DETG, RPSEA, DeepStar, SPE, IADC, and GRC. Bob brings a J.D. from South Texas College of Law, M.B.A.-Finance from Texas Southern Univ., and B.S. from the Univ. of Wisconsin-Madison.



Rebecca Pitcock

Ball State University Dept. of Geological Sciences

Rebecca Pitcock is an undergraduate geology student at Ball State University, in Muncie Indiana. Upon graduation, she is interested in pursuing a Masters at IUPUI in geology. Rebecca works as a Lab Assistant at Ivy Tech Community College and is also a Research Assistant at Ball State for the geothermal project focused on Indonesia.



Diego Quiros

Baylor University Department of Geosciences

Diego Quiros is a Postdoctoral Associate at in the Geophysics Research Group at Baylor University under Jay Pulliam. His is from Costa Rica and did his undergraduate degree in Physics at Florida Tech. He received his PhD at Cornell University in Geophysics under the direction of Larry D. Brown.



Maria Richards

SMU Geothermal Laboratory, Roy M. Huffington Department of Earth Sciences

Maria Richards is the SMU Geothermal Laboratory Coordinator in the Huffington Department of Earth Sciences. Her research is on geothermal resources and energy development. Projects vary from computer generated temperature-depth maps for Google.org to on-site geothermal exploration of the volcanic islands in the Northern Mariana Islands. Currently her concentration is on the conversion of oil/gas wells into geothermal energy producers. Along with Cathy Chickering Pace, she coordinates the SMU Node of the National Geothermal Data System funded by the Department of Energy. Past research includes the Eastern Texas Geothermal Assessment, Geothermal Map of North America, Dixie Valley Synthesis, and the resource assessment for the MIT Report on the Future of Geothermal Energy. Maria is President of the Geothermal Resources Council Board of Directors. Maria holds a Master of Science degree in Physical Geography from the University of Tennessee, Knoxville and a BS in Environmental Geography from Michigan State University.



William Shaw

University of Texas at Austin MBA Program

William Shaw is part of a team of MBA students at the University of Texas, Austin with an Energy focus. Other members of the team include Jack Schommer, Jason Gerenscer, Varit Goel, and Preston Kurtz. The team has 30+ years of oil and gas and chemical processing industry experience. They are fortunate enough to have worked for energy related companies, including: Air Products, Baker Hughes, BP, Halliburton, Marathon Petroleum Company and Wood Group Mustang. Individually they have led efforts in engineering and design, quality assurance, facility management, construction execution and planning, logistics/sourcing and risk management. The functional diversity of their team includes undergraduate and graduate degrees in Chemical Engineering, Mechanical Engineering, Industrial Engineering and Business Administration.



Camisha Simmons

Simmons Legal PLLC

Camisha Simmons is the managing member and founder of Simmons Legal PLLC, a law firm dedicated to assisting creditors and other parties in protecting their interests in the event of an insolvency, bankruptcy, distressed debt workout, litigation and/or financing transaction. She founded the firm after practicing in New York and Dallas for close to 8 years as an associate attorney for the global law firms of Weil, Gotshal & Manges LLP, DLA Piper and Norton Rose Fulbright. In 2013, Texas Lawyer named Camisha to its inaugural list of Legal Leaders on the Rise for those under 40. She serves as an Adjunct Professor at the University of North Texas College of Law. She started her career in the United States Army as a personnel services soldier from 1999 to 2003.



John Sisler

Steamfield Sensors Inc.

John Sisler is a Mechanical Engineer with Masters from the University of Auckland in studies of geothermal energy production, and a Bachelor of Science degree from University of California, Davis. His career has included extensive work with electromagnetics and development of electronic equipment. In September 2017, he received a patent on Radio Frequency Based Void Fraction Determination, US 20170276528 A1, this is just one of his many registered patents.



Sherilyn Williams-Stroud

Confractus Inc.

Sherilyn Williams-Stroud is President and CEO of Confractus, Inc. She leads with over twenty-five years U.S. and international geological analysis experience in government and industry projects, including ten years of team management in both sectors. Previously held positions with USGS, Chevron, Microseismic, Occidental Petroleum (Oxy), and California Resources Corp. She provides training and short courses in structural modeling, fracture modeling and microseismic mapping. Her expertise as a Structural geologist include fracture modeling, stress and strain analysis, and rock fracture mechanics with applications to oil and gas exploration and production, unconventional resources, and geothermal energy. Sherilyn's PhD is from John Hopkins University and her BA is from Oberlin College. Sherilyn is also an Adjunct Faculty of the California State University Northridge.



Daniel Wendt

Idaho National Laboratory

Daniel Wendt is a research engineer in the Energy Resource Recovery and Sustainability Department of the Idaho National Laboratory. He has over 15 years of research experience in areas including geothermal power cycle analysis, hybrid energy systems, water treatment technology, and biofuels production processes. Daniel is skilled in the use of process modeling, heat exchanger design and rating, and process economic analysis software tools. He has a Master's degree in Mechanical Engineering from the University of Idaho and a Bachelor's degree in Chemical Engineering from Cornell University.



Richard Wynn

Deep River Group

Richard Wynn is the founder of the Deep River Group of companies advancing alternative energy applications and E&P generated waste recycling services. He is an independent oil and gas geologist with over three decades of experience in oil and gas exploration and well-site operations, encompassing all major basins in the mid-continent USA.

H.I. Yoon

Hanjin D&B Co., Ltd. Gwangju, South Korea



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