



Organized by

**UNITED** Scientific  
Group  
A non-profit organization

**GEM-2027**

Feb 17-19, 2027 | Houston, TX

## AGENDA

11<sup>th</sup> International Conference on

# Global Energy Meet

 February 17-19, 2027 | Houston, TX



**Sheraton North Houston at George Bush  
Intercontinental, Texas**

 [gem@uniscigroup.net](mailto:gem@uniscigroup.net)

 <https://globalenergy.unitedscientificgroup.org/>

GEM-2027 is organized by USG United Scientific Group, a non-profit scientific organization with tax-exempt status under Section 501(c)(3) of the United States Internal Revenue Code.

International Conference on Global Energy Meet is one of the leading annual events in the energy sector, successfully running since its inception in 2016.



Las Vegas

2016



Houston, TX

2018



San Francisco, CA

2019



Houston, TX

2020



Houston, TX

2021



Virtual

2022



Boston, MA

2023



Los Angeles, CA

2024



Houston, TX

2025

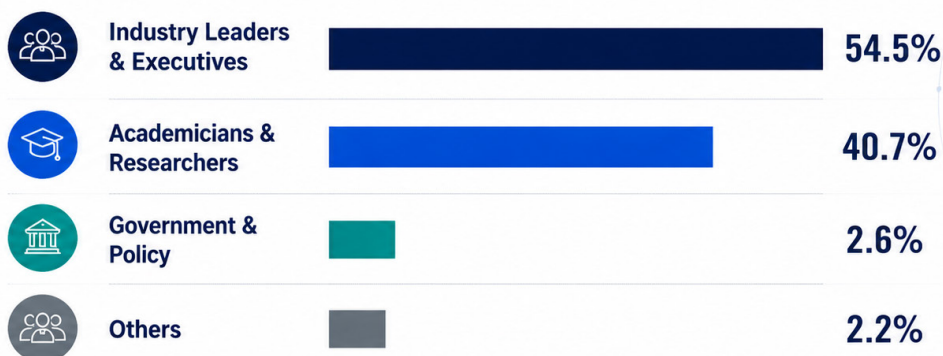


Boston, MA

2026

## PARTICIPANT PROFILE DISTRIBUTION [2016-2026]

A diverse and influential community driving collaboration and thought leadership across sectors.



**DIVERSE PERSPECTIVES. STRONGER IMPACT.**

Uniting leaders, experts, and changemakers to shape the future together.

## About

With sincere appreciation to the researchers, industry leaders, engineers, academicians, and policymakers driving innovation in the energy sector, we are delighted to present the **Eleventh Edition of the Global Energy Meet (GEM-2027)**, scheduled to be held on **February 17-19, 2027**, in **Houston, Texas, USA**.

**Organized** by **USG United Scientific Group**, **GEM-2027** will serve as a global platform for interdisciplinary discussions, knowledge exchange, and networking in fossil and renewable energy sectors. The conference will feature keynote lectures, technical sessions, panel discussions, and presentations by leading experts from academia, industry, and government.

The three-day event will bring together energy professionals, business executives, researchers, engineers, and decision-makers to showcase the latest advancements, technologies, strategies, and solutions addressing global energy challenges and sustainable energy development.

For more information, please visit our website: <https://globalenergy.unitedscientificgroup.org/>

*We warmly welcome you to Houston in February to connect, collaborate, and explore the future of global energy.*

## GEM 2027 Scientific Topics

- Solar Energy
- Smart Grids
- Wind Power & Energy
- Biofuels, Bioenergy & Bio-gas
- Thermal Energy & Management
- Hydroenergy & Hydropower Technology
- Hydrogen & Fuel Cells
- Energy Efficiency
- Natural Gas
- Enhanced Oil Recovery
- Combustion Engines
- Carbon Capture & Storage
- Drilling & Fracking operations
- Energy Conversion & Storage
- Energy Recycling
- Energy Materials
- Environmental & Pollution Issues
- Energy Supply and Economics
- AI Enabled Green Chemistry
- Fuel Chemistry, Technology & Processing
- Filtration and Separation
- Energy & Climate Change
- Pipeline Transportation and Storage
- Unconventional Resources
- Modeling and Simulation
- Sustainable Energy
- Nanotechnology for Energy Applications

### Sending Your Team? Group Discounts Available!

If you would like to register a team of 4 or more, please email [gem@uniscigroup.net](mailto:gem@uniscigroup.net) for your additional discount coupon code before registering. If you have any questions about registrations, please call us on +1-469-854-2280/81.

### Funding !

Sponsorship for students (only) who are unable to pay with less or no funding, please write to [gem@uniscigroup.net](mailto:gem@uniscigroup.net) to get complimentary tickets to the full conference.

## Meet Renowned Energy Professionals and Leaders at GEM-2027

### Organizing Committee Members



**Hao Huang**

Member of the NAE and Fellow of the NAI, IEEE, and SAE, Retired Technology Chief-GE Aviation Electrical Power, Distinguished Adjunct Professor-University of Houston, TX



**Cumaraswamy Vipulanandan**

Director, Center for Innovative Grouting Material and Technology (CIGMAT), Professor of Civil and Environmental Engineering, University of Houston, TX



**Wolfgang Bauer**

University Distinguished Professor, Department of Physics and Astronomy, Michigan State University, East Lansing, MI



**Oomman K. Varghese**

Associate Professor, Department of Physics, University of Houston, TX



**Bernard Twarog**

Professor, Faculty of Environmental Engineering and Energy, Cracow University of Technology, Poland

### Speakers



**Richard Coffin**

Co-Founder, Strategic Carbon LLC, TX



**Donglu Shi**

Professor of Materials Science and Engineering, University of Cincinnati, OH



**Wolfgang Bauer**

University Distinguished Professor, Department of Physics and Astronomy, Michigan State University, East Lansing, MI



**Paul I. Ro**

Professor of Mechanical Engineering, School of Engineering and Computer Science, Baylor University, TX



**Cumaraswamy Vipulanandan**

Director, Center for Innovative Grouting Material and Technology (CIGMAT), Professor of Civil and Environmental Engineering, University of Houston, TX



**Hao Huang**

Member of the NAE and Fellow of the NAI, IEEE, and SAE, Retired Technology Chief-GE Aviation Electrical Power, Distinguished Adjunct Professor-University of Houston, TX



**Stanko R. Brankovic**

ECS Fellow, Professor, Electrical & Computer Eng. Dep., Chemical & Biomolec. Eng. Dep., Cullen College of Engineering, University of Houston, TX



**Wei-Jen Lee**

PE, IEEE Fellow, Professor and Chair, Endowed Professor-Alfred R. And Janet H. Potvin Chair In Electrical Engineering, Department of Electrical Engineering, The University of Texas at Arlington, TX



**Oomman K. Varghese**

Associate Professor, Department of Physics, University of Houston, TX



**Kaushik Rajashekara**

FIEEE, NAE, Hugh Roy and Lillie Cranz Cullen Distinguished University Professor, Department of Electrical & Computer Engineering, University of Houston, TX



**Bernard Twarog**

Professor, Faculty of Environmental Engineering and Energy, Cracow University of Technology, Poland



**Louise Ödlund**

Deputy Vice-Chancellor for Research, Professor, Linköping Univeristy, Sweden



**Mohammad Almajali**

Associate professor in Mechanical and Aerospace Engineering, Defense and Security Program, Rabdan Academy, Abu Dhabi/UAE



**Claudia Gutiérrez Antonio**

Professor-Researcher, Engineering Faculty, Autonomous University of Querétaro, Mexico



**Abdus Sattar Mollah**

Professor, Department of Nuclear Science and Engineering, Military Institute of Science and Technology, Bangladesh



**Juan Gabriel Segovia-Hernandez**

Professor-Investigator (Titular B), SNII Level: III, Department of Chemical Engineering, Division of Natural and Exact Sciences, University of Guanajuato, Mexico



**Jianchuan Tan**

Systems Engineer / Data Analyst, Energy and Environment Directorate, Pacific Northwest National Laboratory, Richland, WA



**Kalachand Sain**

J.C. Bose National Fellow at CSIR-NGRI, Advisor, DST CoE for Climate Information (IIT), Outstanding Professor at AcSIR of CSIR, India



**Guillermo Martinez Rodriguez**

Professor, University of Guanajuato, Mexico



**Venkatesh Balan**

Associate Professor, Department of Engineering Technology, Cullen College of Engineering, University of Houston, TX



**Tong Huang**

Assistant Professor, Department of Electrical and Computer Engineering, San Diego State University, CA



**Pooja Sharma**

Associate Professor, University of Delhi, India



**Ebikabowei Ariye**

PhD Research Student, Cranfield University, Bedford, United Kingdom



**Shapovalov Yuriy Alexandrovich**

Academician of the Kazakh National Academy of Natural Sciences, Professor of Department of Biophysics, Biomedicine and Neuroscience of the Farabi University, Doctor of Technical Sciences, Kazakhstan



**Abdalla Mohamed Hassan**

Service Manager at GDMC (Gulf Drilling and Maintenance Company), Saudi Arabia



**Fazal Ayaz**

Post Doctorate Fellow at Wuhan University of Science and Technology, China



**Arun Kumar Shandilya**

Retired Professor and Former Head of the Department of Applied Geology/Center of Advanced Study in Geology (CASG), Dr. Harisingh Gour University, India



**Hussein A M Hussein**

Doctor of Mechanical and Manufacturing Engineering, Maintenance Department, Waha Oil Company, Libya



**Emma Serwaa Obobisa**

Research Economist, World Trade Institute, University of Bern, Switzerland



**Hassan Mehmood Khan**

Associate Professor, Institute of Physics, The Islamia University of Bahawalpur, Pakistan



**Ben Xu**

Department of Mechanical and Aerospace  
Engineering, University of Houston, TX

## OVERVIEW OF THE GEM-2027 SCHEDULE

Feb 17, 2027	Day-1	Feb 18, 2027	Day-2	Feb 19, 2027	Day-3
08:00-08:20	<b>Registration Desk Open</b> (Proceed to collect your badge and the conference materials)	08:00 Onwards	<b>Keynote Talks</b>	08:00 Onwards	<b>Session VII</b>
08:20-08:30	<b>Opening Note</b>		<b>KT-07:</b> <b>Wei-Jen Lee</b> University of Texas at Arlington, TX	25:00 Minutes	<b>Coffee Break</b>
08:30 Onwards	<b>Keynote Talks</b>		<b>KT-08:</b> <b>Oomman K. Varghese</b> University of Houston, TX		<b>Session VIII</b>
	<b>KT-01: Richard Coffin</b> Co-Founder, Strategic Carbon LLC, TX	25:00 Minutes	<b>Coffee Break</b>	<b>Lunch Followed by Virtual Session</b>	
	<b>KT-02:</b> <b>Wolfgang Bauer</b> Michigan State University, MI	50:00 Minutes	<b>Session III</b>		
	<b>KT-03:</b> <b>Paul I. Ro</b> Baylor University, TX	25:00 Minutes	<b>Lunch</b>		
25:00 Minutes	<b>Coffee Break</b>		<b>Session IV</b>		
	<b>KT-04:</b> <b>Cumaraswamy Vipulanandan</b> University of Houston, TX		<b>Coffee Break</b>		
	<b>KT-05:</b> <b>Hao Huang</b> University of Houston, TX		<b>Session V</b>		
	<b>KT-06:</b> <b>Stanko R. Brankovic</b> University of Houston, TX		<b>Session VI</b>		
50:00 Minutes	<b>Lunch</b>				
	<b>Session I</b>				
25:00 Minutes	<b>Coffee Break</b>				
	<b>Session II</b>				
	<b>Poster Presentations Followed by Drinks</b>				

# A Glimpse of GEM 2026 Boston



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