

2016 International Petroleum Environmental Conference



Environmental Issues and Solutions
in Exploration, Production, Refining
& Distribution of Petroleum

November 8-10, 2016

New Orleans, LA

Hotel Monteleone (French Quarter)

HIGHLIGHTS INCLUDE:

- Produced Water Treatment Management Strategies & Practices
- In Situ Chemical Oxidation
- Bioremediation of Hydrocarbons
- LNAPL Metrics & Measurements
- Air Emissions



THE UNIVERSITY of
TULSA

*Continuing Education for
Science & Engineering*



OVER
50% *New Presenters
This Year
to Date!*

IPEC CONFERENCE AT-A-GLANCE

Message from the Conference Chairs

We are looking forward to meeting and visiting with you at this year's International Petroleum Environmental Conference (IPEC), being held in New Orleans, LA, November 8-10, 2016.

IPEC has always provided a unique opportunity for individuals from industry, academia and government to join together and evaluate potential environmental issues and solutions in exploration, production and distribution of petroleum based on expert experience and sound scientific analysis.

We hope you will join us this year as we all learn from each other's ideas and experiences on the important technical and regulatory petroleum environmental matters we face as an industry today and in the future.

CONFERENCE CHAIRS

KERRY SUBLETTE, Ph.D.

Sarkeys Professor of Environmental Engineering
The University of Tulsa, Department of Chemical Engineering

JOHN VEIL

President, Veil Environmental LLC
SPE Distinguished Lecturer (2013-2014)

Conference Agenda Summary

It all begins on Monday, November 7, with the Welcome Reception in the Exhibit Hall. The conference continues on Tuesday morning, November 8, with the Opening Breakfast and Plenary Session. The Technical Sessions run Tuesday afternoon, Wednesday and Thursday all day. The Opening Reception will be held on Tuesday, November 8. The all conference networking reception will be held on Wednesday, November 9, with the conference luncheon on Thursday, November 10. The Exhibit Hall will be open Monday evening, Tuesday and Wednesday all day and Thursday through the mid-morning break.

Date, Time and Location

November 8-10, 2016 • New Orleans, LA
Hotel Monteleone (French Quarter)

214 Royal Street, New Orleans, LA 70130 • 504-523-3341

Hotel Monteleone New Orleans

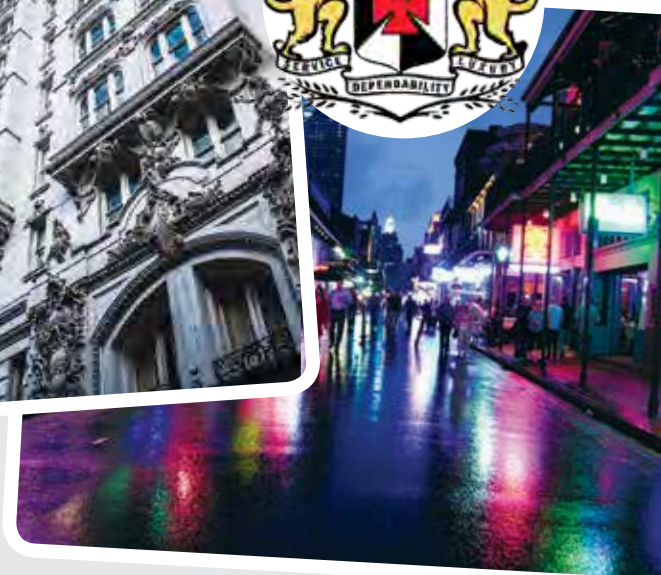
Stay in the heart of the French Quarter at this historic luxury hotel! Sitting majestically at the foot of Royal Street, guests have the best point of departure for all things New Orleans. In addition, the famous Carousel Bar & Lounge, with the city's only revolving bar, is a long-time favorite New Orleans spot for locals and tourists alike.

Hotel reservations must be made before September 30, 2016 to receive the conference rate of \$179⁺⁺.

The group room block will fill up quickly, so make your room reservations right away. All reservations made after the block is filled and/or after the deadline, will be available at the hotel's prevailing rate and availability is not guaranteed. **Reservations can be made by calling 1-800-217-2033** (identify yourself as being with the 23rd IPEC International Petroleum Environmental Conference).

The hotel ONLINE reservations link will be sent via email, plus it is on the conference website page on cese.utulsa.edu.

A credit card is required to guarantee your room, but it will NOT be charged until you check into the hotel. Your support in staying at the IPEC contracted hotel helps keep the conference costs down, which directly affects registration and exhibitor fees. Therefore, we encourage you to book your room through our block at the conference hotel.



PLENARY SESSION NOVEMBER 8, 2016



Leaping Hoops and Hurdles – Overcoming Regulatory, Policy, and Physical Constraints to Achieve Beneficial Uses with Produced Water

Jeri Sullivan Graham, PhD, Chemical Diagnostics & Engineering Group, Los Alamos National Laboratory, Los Alamos, NM



Oil Biodegradation Potential in Deep Marine Basins Worldwide

Terry C. Hazen PhD, UT/ORNL Governor's Chair Professor, Director, Institute for Secure and Sustainable Environments, The University of Tennessee, Knoxville, TN & Bioscience Division, Oak Ridge National Laboratory, Oak Ridge, TN



Bureau of Offshore Energy Management Water and Air Quality Programs for Offshore Oil and Gas Environmental Assessment, Management and Research

Margaret Metcalf, ScD, Physical Chemical Sciences Section Chief, Bureau of Ocean Energy Management, Gulf of Mexico Region, New Orleans, LA



The Paris Climate Agreement and Bederman's Six Myths About International Law

Markus G. Puder, PhD, The Honorable Herbert W. Christenberry Professor of Law, Loyola University College of Law, New Orleans, LA

IPEC DELIVERS AN UNPARALLELED LINEUP OF SPEAKERS AND TOPICS!

For the past 22 years, the International Petroleum Environmental Conference (IPEC) has brought together professionals involved in developing and implementing technology to address and resolve E&P environmental problems, sharing their best practices and information regarding advances in emerging technology.

This conference has been rated "Excellent" or "Good" by 97% of the participants since 1993.



Full Conference Registration Fee INCLUDES . . .

- Plenary Session & Technical Sessions
- Entrance into Exhibit Hall
- Conference Abstracts & Hand-Out Materials
- Welcome Reception – *Monday, Nov. 7*
- Buffet Breakfast – *Tuesday, Nov. 8*
- Opening Reception – *Tuesday, Nov. 8*
- Networking Reception – *Wednesday, Nov. 9*
- Conference Luncheon – *Thursday, Nov. 10*
- Daily Refreshments
- Conference Proceedings available on the web only.

2016 Corporate Sponsors, Exhibitors and Sponsoring Organizations *(confirmed as of June 30, 2016)*

AquaBlok, Ltd.
DeepEarth Technologies, Inc.
Dexsil Corporation
NMOGA: New Mexico Oil & Gas Association
IOGCC: Interstate Oil & Gas Compact Commission
OCC: Oklahoma Corporation Commission
OERB: Oklahoma Energy Resources Board
Directed Technology Drilling, Inc.
Enviro-Tech Systems
Geotech Environmental Equipment, Inc.
GEL Laboratories, LLC



SPONSORSHIPS and EXHIBIT OPPORTUNITIES are still available.

For information on exhibiting, contact **Steve Hall** at stephen-hall@utulsa.edu.

For Corporate Sponsor Information, contact **Pat Hall** at patricia-hall@utulsa.edu.

IPEC CONFERENCE SNAPSHOT

The following are **randomly selected samples** of presentations currently scheduled and **represent only a portion of the total presentations** which will appear in the final agenda. (They are tentatively classified under the following session topics for the purpose of this brochure).

PRODUCED WATER TREATMENT, MANAGEMENT STRATEGIES AND PRACTICES

(Chairs – John and Deedee Boysen, BC Technologies, Laramie, WY)

- Naturally Occurring Radioactive Materials (NORM) in Flowback and Produced Water
- Centralized Water Treating Facility in the Bakken Shale
- Reuse of Produced Water for Electrolytic Oxidant Production: Challenges and Solutions
- Managing Bacteria and Scaling Species in Produced Water — Taking Control at the Source
- The Concept of Smart Water Discharge (SWD), The Next Revolution in Produced Water Treatment

BIOREMEDIATION OF HYDROCARBONS: CONDENSATES, CRUDE, FUELS

- Validation of a TPH Detector at a Crude Contaminated Site in Kuwait
- Young's Bargaining Model for Optimal Design of Groundwater In-Situ Bioremediation
- In-situ Bioremediation of Mixed-Source Petroleum Hydrocarbons: An Analysis of the Critical Variables at Sites Across North Dakota and Montana
- Large Scale Bioremediation of Hydrocarbon Contaminated Sites in Desert Environment — Case Study
- Kuwait Environmental Remediation Program (KERP): Total Remediation Strategy (TRS)
- Overburden and Bedrock Remediation Using BOS 200® at Former Retail Petroleum Sites

BIOREMEDIATION OF BRINE SPILLS: SOIL, GROUNDWATER, WETLANDS

- Implementation of Electrokinetic Based Soil Desalinization
- Mechanisms Contributing to Degradation of Soils by Produced Water and an Improved Process for In-Situ Remediation
- Innovative Combined Remedies Approach Using Liquid Activated Carbon (LAC) and Calcium Oxyhydroxide Applied to Benzene Plume Reaches Non-Detect Within 30 Days
- Multi-Site Performance Review of Liquid Activated Carbon for Groundwater Treatment

IN SITU CHEMICAL OXIDATION

(Chair – William Lundy, DeepEarth Technology, Inc. Alsip, IL)

- Safer, More Effective ISCO Remedial Actions: Non-Extreme Persulfate Activation plus Sustained Secondary Biotreatment

- Upgradient Persulfate Injection and Downgradient Ozone Sparging to Accelerate Closure of a Petroleum Hydrocarbon-Impacted Site
- Use of Pneumatic Emplacement of Amendments in Shallow, Tight Swelling Clays to Remediate Petroleum Contaminant

REMEDIATION OF HYDROCARBON SPILLS

- Horizontal Directional Drilling and Well Installation at Small Site
- Middle East Bulk Petroleum Terminal Remediation Strategy
- Use and Application of Organophilic Clay Materials for Adsorption for Petroleum and to Address Pipeline and Storage Facility Related to Water Issues
- Rapid Remediation of Bunker C Fuel Oil Contaminated Soil by Chemical Oxidation and Use of Surfactants and Solvents Formulation
- Impact of Rock Wettability on Surfactant-Enhanced Aquifer Remediation

AIR EMISSIONS

- MACT Rule as it Pertains to Flare Measurement
- Multiphase Pumping Eliminates Flaring and Venting
- Refinery Sector Rule Focus on Flare Combustion Control Parameters
- Decreasing LDAR Cost, While Increasing LDAR Efficiency
- A Unique Approach to Comply with the New Source Performance Standards (NSPS) for Methane Emissions for Hydrocarbon Producing Wells
- Odor Control: Tracking the Source of Odors
- Satisfying the Corrective Action Requirements of the Refinery Sector Rule
- Measurement of Hydrogen Cyanide Air Emissions In Refinery Operations

OPEN DISCUSSION ON PRODUCED WATER AND OTHER WATER ISSUES

(Chair: John Veil, Veil Environmental, Annapolis, MD)

Interested in presenting?

Time slots are still available. Please contact Steve Hall at stephen-hall@utulsa.edu right away about this possibility.



WHY ATTEND?

- Establish new business contacts and visit with colleagues from previous conferences.
- Gain insight into issues affecting the oil and gas industry worldwide.
- Hear first hand what leading professionals have to say on the important environmental issues you face.
- Technical sessions give you up-to-date information on new technologies and solutions.
- The Industry Exhibits will show you what's new in research, products and services.
- Solutions! Find out what has worked for others who have experienced environmental problems in exploration, production and refining.
- The knowledge gained by attending will assist you in making better decisions for your company.
- **IPEC's Concurrent Technical Session Schedule!** The presentations are scheduled to begin simultaneously in each session. This allows participants to move easily from one session to another in order to attend the talks in which they are most interested.
- **Networking!** The continual informal discussions (sharing information and forming future collaborations) are a key benefit.

WHO ATTENDS?

Industry: **81.7%**

Government Agencies: **8.7%**

Academics & Students: **9.6%**



Participants of this long running conference work in industry, government and academia across the U.S. and various international locations. It continues to provide them with a forum to discuss various aspects of current oil and gas environmental issues.

It brings together professionals who are involved in developing and implementing new technology to address and resolve environmental problems in exploration, production, refining, as well as health and safety.

Those benefiting from attending the conference include:

- Health, Safety, Environmental Specialists and Engineers
- Oil Service Companies
- Compliance Officers
- Landmen
- Environmental Professionals
- Oil & Gas Attorneys
- Oil & Gas Consultants
- Water Treatment Management Firms
- Operations Managers
- Remediation Companies
- Soil Scientists
- Petroleum Environmental Engineers
- Professionals from the petroleum industry concerned with environmental issues and solutions
- Federal Regulators / Technicians
- Geologists

2016 International Petroleum Environmental Conference

5

EASY WAYS TO SIGN-UP

1. Online at www.cese.utulsa.edu (credit cards only)
2. Mail the completed Registration Form to:
TU CESE, 800 S. Tucker Drive, Tulsa, OK 74104-3189
3. Call us at 918-631-3088
4. Fax the Registration Form to 918-631-2154
5. Email cese@utulsa.edu

Save \$\$\$ by registering early!

"A very worthwhile experience! The level of expertise and knowledge of the presenters are excellent. I appreciate their willingness to explain concepts and the opportunity to ask questions."

"We have gained business contacts during the networking opportunities that have increased our bottom line!"

"It doesn't matter how many times I attend, I always learn something new!"



Environmental Issues and Solutions in Exploration, Production, Refining & Distribution of Petroleum

Nov. 8-10, 2016 • New Orleans, LA

Hotel Monteleone (French Quarter)

☐ **Yes!** Register me for the **23rd International Petroleum Environmental Conference**, November 8-10, 2016, New Orleans, LA, held at the Hotel Monteleone (French Quarter), 214 Royal Street, New Orleans, LA, Hotel Phone (504) 523-3341

FIRST NAME	LAST NAME		
<input type="text"/>	<input type="text"/>		
JOB TITLE			
<input type="text"/>			
ORGANIZATION / COMPANY NAME			
<input type="text"/>			
ADDRESS			
<input type="text"/>			
CITY	STATE	ZIP	COUNTRY
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PARTICIPANTS PHONE			
<input type="text"/>			
PARTICIPANTS EMAIL			
<input type="text"/>			

Online Registration available at www.cese.utulsa.edu *(credit card payments only)*

SELECT ONE — fees listed are per person and in net US Dollars:

- ☐ **\$895.00** **GROUP DISCOUNT** (available to 3 or more from the same company)
- ☐ **\$995.00** **EARLY REGISTRATION DISCOUNT** (expires September 30, 2016)
- ☐ **\$1,195.00** **REGISTRATION FEE AFTER SEPTEMBER 30, 2016**
- ☐ **\$1,495.00** **ON-SITE REGISTRATION FEE**
- ☐ **\$395.00** **Pre-CONFERENCE WORKSHOP MONDAY, NOVEMBER 7, 2016**
Remediation and Restoration of Hydrocarbon and Brine Contaminated Soil

TOTAL AMOUNT DUE: \$

PAYMENT METHOD

- ☐ **CHECK ENCLOSED** Make payable to The University of Tulsa, CESE
- ☐ **VISA** ☐ **MasterCard** ☐ **Discover** ☐ **American Express**

CREDIT CARD NUMBER	EXP. DATE (MO./YR.)	CVC CODE	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
NAME ON CARD			
<input type="text"/>			
BILLING ADDRESS			
<input type="text"/>			
CITY	STATE	ZIP	COUNTRY
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

PRE-CONFERENCE WORKSHOP

Remediation and Restoration of Hydrocarbon and Brine Contaminated Soil

**Monday, November 7, 2016
8:00 am - 5:00 pm**

*A one-day workshop instructed
by Kerry Sublette, University of Tulsa
and Sublette Consulting, Inc.*

This pragmatic workshop teaches hydrocarbon and brine remediation in a way that is particularly relevant to technical personnel from oil companies and oil service companies, landmen, environmental attorneys, non-technical personnel supporting engineers and geologists, state and federal regulators/technicians, agricultural extension agents, and soil scientists.

Participants learn how to design, plan, and implement full-scale soil remediation projects. No prior knowledge of microbiology or soil science is assumed.

\$395 per person



Contact our office at:

The University of Tulsa – CESE
800 S. Tucker Drive, Tulsa, OK 74104-3189
Fax 918.631.2154
Phone 918.631.3088
Email: cese@utulsa.edu
Online registration: cese.utulsa.edu