



The premier annual event for industry and government from North America and beyond to come together and discuss planning, preparedness and response issues for oil and hazardous materials spills

2019 ADVANCE PROGRAM

Final registration discounts expire 10/25/19

Register with your VIP code to secure these discounted registration rates!

**Ernest N. Morial
Convention Center**

New Orleans, LA



October 28-31
Workshops & Conference

October 29-30
Exhibition

www.cleangulf.org

2019 SPONSORS

CORPORATE SPONSORS



INDUSTRY SPONSORS



MOBILE APP SPONSOR



KEYNOTE COFFEE SPONSOR



BAG SPONSOR



CELL PHONE CHARGING STATION SPONSOR



BREAKFAST SPONSOR



BADGE LANYARD SPONSOR



TRACK SPONSOR



NETWORKING BREAK SPONSOR



REGISTRATION DESK SPONSOR



HOUSING SPONSOR



BEVERAGE STATION SPONSORS



\$1K A DAY GIVEAWAY SPONSORS



WORKSHOP SPONSORS



WOMEN IN EMERGENCY MANAGEMENT HAPPY HOUR SPONSORS





YOU'RE INVITED

As the Oil Spill Coordinator for the Louisiana Oil Spill Coordinator's Office, I would like to extend an invitation for you to join me in New Orleans for the 29th annual CLEAN GULF Conference & Exhibition. CLEAN GULF is the premier annual event for industry and government to come together and discuss planning, preparedness and response issues for oil and hazardous materials spills. For the 2019 event, we've added fresh conference content and new events to enhance your attendee experience.

Fresh conference content has been sprinkled throughout this year's conference program. There is an increased focus on the intersection of a spill and its impact on human health in a variety of ways. In addition, sessions will further explore community outreach prior to an event, emerging trends in the human element of oil spill preparedness and response, and the challenges of a maturing industry and workforce. New events and activities were also added to the program, giving you more opportunities than ever to connect with the CLEAN GULF community. We've also incorporated some fun activities in celebration of Halloween that week! New events include Count Dracula's Blood Drive, Meet & Greet with State & Federal Agencies, Women in Emergency Management Happy Hour, Student Program, Mega Session and a Haunted Ghosts & Spirits Tour in the French Quarter.

We are very excited to have CLEAN GULF back in the Big Easy this year! The city of New Orleans is truly unique and is one of the greatest conference locations in the U.S. From the renowned restaurants to the famous attractions of the French Quarter, New Orleans offers endless entertainment options for you to enjoy in addition to all the conference activities.

I look forward to seeing you in New Orleans, October 28 – 31!
Laissez les bon temps rouler!



Marty J. Chabert
CLEAN GULF Conference Chair
Oil Spill Coordinator
Louisiana Oil Spill Coordinator's Office (LOSCO)

Hosted by:



STATE OF LOUISIANA
Oil Spill Coordinator's Office



STATE OF TEXAS
General Land Office



STATE OF FLORIDA
Department of
Environmental Protection



STATE OF ALABAMA
Department of
Environmental Management



STATE OF MISSISSIPPI
Department of
Environmental Quality



Bureau of Safety and
Environmental Enforcement

CLEAN GULF 2019 PLANNING COMMITTEE

State Host: Marty Chabert, Oil Spill Coordinator, Louisiana Oil Spill Coordinator's Office (LOSCO)

Rex Anderson, Senior Emergency Management Specialist, TC Energy

Charles Armbruster, Coastal Resources Scientist Manager, Louisiana Oil Spill Coordinator's Office (LOSCO)

Michael Baccigalopi, Oil Spill Advisor, BP Gulf of Mexico

Ben Badon, Emergency Response Advisor, EHS Central Services, Hess Corporation

Roy Barrett, President, The Response Group

Bradford Benggio, Scientific Support Coordinator, NOAA — Office of Response & Restoration

Kevin Borne, Scientist, Louisiana Department of Environmental Quality (LDEQ)

Victoria Broje, Sr. Emergency Response Scientist, Shell Projects & Technology

Ron Cantin, President, EMSI

Robert Chambers, SVP ERMS, Global Risk Solutions

Josh Clifford, Project Manager, QualiTech Environmental

Gina Coelho, Principal Senior Scientist, Sponson Group Inc.

Tori Copeland, Biologist, Louisiana Oil Spill Coordinator's Office (LOSCO)

Jennifer Crouch, Principal CEM & Security — GOM, BHP Billiton

Cory Davis, Principal Consultant and Senior Vice President, CTEH, LLC

Karolien Debusschere, Deputy Coordinator, Louisiana Oil Spill Coordinator's Office (LOSCO)

Mike Drieu, HSE Advisor, Anadarko Petroleum Corp.

Helen Dubach, Manager, Readiness, CTEH RM

Christopher Dufore, Oceanographer, Bureau of Ocean Energy Management (BOEM)

Greg Duncan, Director, Crisis Management & Emergency Response, ConocoPhillips

T. J. Dunnahoe, Vice President, Stantec

Jim Elliott, President, American Salvage Association

Tj Engstrom, Director-Emergency Services, Clean Harbors

Cody Fisher, Chief, Emergency Response Division, Mississippi Department of Environmental Quality

John Gerken, Vice President Corporate Accounts and Specialty Analytical Services, Pace Analytical

Leo Guidroz, Division Manager, Oil Stop Division of AMPOL

J. Jill Heatley, Associate Professor, Zoological Medicine College of Veterinary Medicine, Texas A&M University

Steve Jeffcote, Principal, CEM and Oil Spill Response, BHP Billiton

Nicholas Lacroix, Coastal Resources Scientist, LDNR/Coastal Management Division

Joshua Latino, Coast Resources Scientist, LDNR/Coastal Management Division

Jeff Leonick, Scientist, Louisiana Department of Environmental Quality (LDEQ)

Lawrence Malizzi, Senior Manager, OBG Part of Ramboll

Angie Martin, Vice President, Heritage Environmental Services

Jimmy Martinez, Deputy Director, Texas General Land Office

Frank May, Response Supervisor, Marine Spill Response Corporation

Lt. Charron McCombs, Incident Management Division Chief, U.S. Coast Guard MSU HOUMA

Stephanie McQueen, Emergency Response and Preparedness Advisor, ExxonMobil Corporation

Rhonda Murgatroyd, Managing Director, Wildlife Response Services, LLC

Eddie Murphy, Training & Exercise Specialist, U.S. DOT PHMSA

JT Newman, President, E3 Environmental

Keith Nichols, Ecological Program Manager, CK Associates LLC

Mike Noel, Commercial Director, HWCG

David Palandro, ER&S Advisor, ExxonMobil Corporation

Kevin Palm, Sr. Business Development Manager, National Response Corporation (NRC)

Paul Panetta, Chief Scientist, Applied Research Associates, Inc. | Ohmsett

Frank Paskewich, President, Clean Gulf Associates

Bob Patterson, Managing Director, Witt O'Brien's

Robin Paulos, Coastal Resources Scientist, Louisiana Oil Spill Coordinator's Office (LOSCO)

Pat Peavler, Manager, HSE Management System, TOTAL E&P USA, INC.

David Pertuz, Sr. Emergency Response Specialist, Shell Exploration & Production Company

Gary Petrae, Senior Preparedness Analyst, Bureau of Safety and Environmental Enforcement (BSEE)

Emily Poe, Emergency Response Specialist, Phillips 66

Jake Rodriguez, Partner, Wilson, Elser, Moskowitz, Edelman & Dicker LLP

Larry Rowland, Business Development, GHD Services

Lisa Saint, HSSE & ER Advisor, BP Shipping

Michael Sams, Incident Management and Preparedness Advisor, U.S. Coast Guard 8th District

Chris Sanfilippo, Environmental Manager — Eastern Division, Texas Petroleum Investment Co.

Roger Scheuermann, Consultant, HWCG & Independent Consultant

Sharon Schmalz, Executive Director, The Wildlife Center of Texas

James Shuler, Emergency Response Manager, Energy Transfer Partners

Robert Simmons, President, Environmental Science Services

Bryant Smalley, Oil Spill & Response Team Leader and Federal On-Scene Coordinator, U.S. EPA, Region 6

Jackie Smith, Business Development, OMI

Tommy Stone, Emergency Services Superintendent, Valero Refinery-Meraux LLC

John Temperilli, Managing Director, KSolv, Garner, OMI

CW03 Matthew Tilimon, Response Marine Safety Specialist, U.S. Coast Guard MSU Port Arthur

Jon Wickersham, ER Specialist, Colonial Pipeline Company

Andrew Willoughby, Kirby Corp

CLEAN GULF 2019 is set to be one of the largest events of the year for the spill prevention and response industry!



CLEAN GULF was designed to benefit today's environmental professional! 2,000+ attendees from industry and government will gather at CLEAN GULF to discuss best practices and solidify relationships vital to preventing a spill and/or running a response on both land and water. You will benefit from the connections made and best practices shared so take the easy trip to New Orleans and join your peers at CLEAN GULF!

WHO SHOULD ATTEND

Anyone involved in oil and hazardous materials spill prevention, preparedness and response in the inland, offshore and marine environments, including, but not limited, to:

- ▶ Academia/Association/ NGO
- ▶ Barge/Tanker
- ▶ Chemical/Petrochemical
- ▶ Consultant
- ▶ Drilling Services
- ▶ Emergency Response/Clean-up
- ▶ Environmental
- ▶ Exploration & Production
- ▶ Financial/Legal
- ▶ Government/Regulatory
- ▶ Marine Salvage & Fire
- ▶ Occupational Health & Safety
- ▶ Oil & Gas Distribution
- ▶ Pipeline
- ▶ Ports/Terminals
- ▶ Processing/Refining
- ▶ Rail
- ▶ Towing/Tugging
- ▶ Trucking/Transportation
- ▶ Storage
- ▶ Subsea
- ▶ Supplier/Manufacturer
- ▶ Wildlife

WHY ATTEND

- ▶ Conference sessions cover the latest issues facing the spill response industry, including the intersection of a spill and its impact on human health, community outreach prior to an event, deepwater ports, and the challenges of a maturing industry and workforce
- ▶ More networking opportunities than ever before, including 2 receptions in the exhibit hall, Women in Emergency Management Happy Hour, Golf Tournament, Meet & Greet with State & Federal Agencies, and a Haunted Ghosts & Spirits Tour in the French Quarter
- ▶ Multiple pre-conference workshops offering additional training opportunities
- ▶ Exhibit hall with more than 150 exhibitors ready to answer your questions and provide solutions to your unique challenges
- ▶ Certificates detailing the sessions you attended are available onsite and they help you meet most state licensing board's requirement for Professional Development Hours

SCHEDULE OF EVENTS*

MONDAY, OCTOBER 28

8:00 AM – 8:00 PM	Exhibitor Move-in		
12:00 PM – 5:00 PM	Registration Open		
1:00 PM – 5:00 PM	TRACK Response Research (1) Overall and Slick Thickness (2) Emulsions, Recovery, and Sampling	WORKSHOP Oil Spill Response 201: The Role of Science and Technology in Support of the Realities of Spill Response	WORKSHOP Homeland Security Challenges including Terror Threats
1:00 PM – 6:00 PM	Golf Tournament — Shotgun start at 2:00 PM		
5:00 PM – 6:00 PM	Women in Emergency Management Happy Hour, sponsored by Chevron and Shell		
5:30 PM – 7:30 PM	Haunted Ghosts & Spirits Tour in the French Quarter		

TUESDAY, OCTOBER 29

8:00 AM – 6:30 PM	Registration Open				
9:00 AM – 10:00 AM	Keynote Address: Scott Angelle (invited), Director, Bureau of Safety and Environmental Enforcement (BSEE)				
10:00 AM – 6:30 PM	Exhibit Hall Hours				
10:00 AM – 10:45 AM	Networking Break, sponsored by BNSF, in the Exhibit Hall				
10:00 AM – 4:30 PM	Count Dracula's Blood Drive in the Exhibit Hall				
10:45 AM – 12:15 PM	Mega Session: Land, Air, and Sea — Not Your Grandfather's Oil Spill				
12:15 PM – 1:30 PM	Lunch in the Exhibit Hall				
	TRACK Evolving Response Technologies	TRACK Inland Preparedness & Response	TRACK Response/ Restoration	TRACK Planning and Preparedness	TRACK Training and Exercise Best Management Practices
1:30 PM – 3:00 PM	Satellite Remote Sensing	Real-Time Response — Using Technology to Enhance Readiness and Initial Response	Deepwater Horizon Restoration	Mexico Response Planning	Exercise Evaluation — Maximizing Value
3:00 PM – 3:30 PM	Networking Break in the Exhibit Hall				
3:30 PM – 5:00 PM	Unmanned Aircraft Systems (UAS) in Oil Spill Response and Monitoring	Strengthening Inland Partnerships — A Unified Command Discussion	Scientific Support Within the Environmental Unit for ESF Hurricane Response	Risk Management Practices Used in Response Planning and Incident Prevention	Inland and Offshore Exercise Compliance Differences
5:00 PM – 6:30 PM	Voodoo on the Bayou Networking Reception in the Exhibit Hall				
6:15 PM	\$1K a Day Prize Giveaway Drawing				

WEDNESDAY, OCTOBER 30

8:00 AM – 6:00 PM	Registration Open				
	TRACK Emerging Trends and Concerns	TRACK Applied Response Techniques	TRACK Response/Restoration	TRACK Planning and Preparedness	TRACK Training and Exercise Best Management Practices
8:30 AM – 10:00 AM	The Human Element — Part II	In Situ Burn (ISB) Applications	Wildlife Oil Spill Response: Policies, Procedures, Observations, and Potential Outcomes	Case Studies — Turning Lessons into Preparation	Exercise Designing for Success
10:00 AM – 10:45 AM	Networking Break in the Exhibit Hall				
10:00 AM – 6:00 PM	Exhibit Hall Hours				
10:00 AM – 4:30 PM	Count Dracula's Blood Drive in the Exhibit Hall				
10:45 AM – 12:15 PM	State and Federal Updates				
12:15 PM – 1:30 PM	Lunch in the Exhibit Hall				
12:15 PM – 1:30 PM	Meet & Greet with the State & Federal Agencies in the Exhibit Hall				
1:30 PM – 3:00 PM	Environmental Data Management 2.0	Generating and Interpreting Toxicity Information for Decision-Making	The Evolution of the Response Community and the Challenges of a Maturing Industry and Workforce	Community Outreach with Emergency Response Planning	Unified Command Development
3:00 PM – 3:30 PM	Networking Break in the Exhibit Hall				
3:30 PM – 5:00 PM	Deepwater Ports — Current and Future Impacts	Dispersants and Oil Spill Response — Overviews of Recent Industry, OSRO and National Academies Efforts	Case Studies — Lessons Learned	Preparing Your Leadership Team to Manage Crisis	Training and Developing Key Incident Management Team (IMT) Members
5:00 PM – 6:00 PM	Nightmare on Bourbon Street Reception in the Exhibit Hall				
5:45 PM	\$1K a Day Prize Giveaway Drawing				
6:00 PM – 10:00 PM	Exhibitor Move-out				

THURSDAY, OCTOBER 31

**schedule of events is subject to change*

8:00 AM – 12:00 PM	Registration Open				
8:00 AM – 12:00 PM	Exhibitor Move-out				
	TRACK Emerging Trends and Concerns	TRACK Response/Restoration	TRACK Planning and Preparedness		
8:30 AM – 10:00 AM	OSRO's — 30 Years Later	Environmental Unit (EU) and Response Considerations	What You Need to Know About Spill Impact Mitigation Analysis (SIMA) and its Broad Range of Practical Applications in a Response		
10:30 AM – 12:00 PM	Port Valdez; The End of the Pipeline, The Beginning of Purpose-Built Response Planning and Preparedness	Salvage and Marine Firefighting: Regulatory Evolution and Case Studies	Wildlife Response Preparation and Planning		

JOIN OVER 2,000 PROFESSIONALS IN SPILL PREVENTION, PREPAREDNESS AND RESPONSE AT CLEAN GULF

NETWORKING EVENTS

GOLF TOURNAMENT — LAKEWOOD GOLF CLUB

MONDAY, OCTOBER 28

SHOTGUN START AT 2:00 PM (CHECK-IN AT 1:00 PM)

\$100.00 PER PERSON / \$375.00 PER FOURSOME

Each registration includes: course fees, range balls, cart, drink tickets, awards reception and prizes (including hole-in-one). Our format is a four-man scramble. Sign up when you register for CLEAN GULF!



WOMEN IN EMERGENCY MANAGEMENT HAPPY HOUR

MONDAY, OCTOBER 28 ▶ 5:00 PM – 6:00 PM

CLEAN GULF's first ever Women in Emergency Management happy hour promotes camaraderie, informal dialogue/conversation and networking in support of the growing community of women in preparedness, response, and recovery. During this reception, attendees can make new inspiring connections across a broad range of experienced women and reinforce existing relationships with key stakeholders in the energy industry, government, and consultancies.



Sponsored by:  **Chevron**



HAUNTED GHOSTS & SPIRITS TOUR IN THE FRENCH QUARTER

MONDAY, OCTOBER 28 ▶ 5:30 PM – 7:30 PM

PRICE: \$35 PER PERSON

New Orleans is often referred to as “The Most Haunted City in America.” Add Halloween to the mix... it's sure to be a spooky week at CLEAN GULF! Join your colleagues for a haunted walking tour in the French Quarter at dusk on Monday, October 28th. This is a private guided tour exclusively for CLEAN GULF attendees. Your tour guide will stop along the route to show off some haunts and to tell the rich, historic secrets of the long departed. It's a can't miss, Halloween week networking event!



VOODOO ON THE BAYOU NETWORKING RECEPTION IN THE EXHIBIT HALL

TUESDAY, OCTOBER 29 ▶ 5:00 PM – 6:30 PM

It's opening night on the CLEAN GULF Bayou! Gypsies, pirates and fortune tellers galore — join us for a romp in the swamp, a sip of devil's brew and time to connect with your fellow fiendish friends.





RELAX AND RECOVER BREAKFAST, HOSTED BY LIQUIDFRAMEWORKS (INVITATION ONLY)

WEDNESDAY, OCTOBER 30 ▶ 8:00 AM – 10:00 AM

Let LiquidFrameworks help you relax before the day starts or recover from the previous evening's festivities! No sales pitches or presentations, just a breakfast buffet and Bloody Marys.



MEET & GREET WITH THE STATE & FEDERAL REGULATORY AGENCIES

WEDNESDAY, OCTOBER 30 ▶ 12:15 PM – 1:30 PM

Representatives from multiple State and Federal Agencies involved with CLEAN GULF will be on hand in the Exhibit Hall to answer attendee questions relative to their activities. The Meet and Greet will be on Wednesday only.



NIGHTMARE ON BOURBON STREET RECEPTION IN THE EXHIBIT HALL

WEDNESDAY, OCTOBER 30 ▶ 5:00 PM – 6:00 PM

Your time on the exhibit floor is coming to an end — but there's still time for one last Halloween prow! Bring your Halloween spirit for a trick or treat themed dessert reception. Don't be afraid to decorate your booth and dress up for the occasion!

OTHER MEETINGS AND ACTIVITIES

BSEE COMPLIANCE ACTIVITIES

MONDAY, OCTOBER 28 ▶ 4:15 PM – 5:00 PM

This meeting will provide an opportunity for the BSEE Oil Spill Preparedness Division to update and hear from attendees on ongoing regulatory activities related to oil spill response plan submission and compliance; verification of response equipment readiness; evaluation of response team exercises and training; and, the OSPD unannounced exercise program.

COUNT DRACULA'S BLOOD DRIVE

TUESDAY, OCTOBER 29 & WEDNESDAY, OCTOBER 30 ▶ 10:00 AM – 4:30 PM

What better way to help mankind and celebrate Halloween at the same time than to donate blood? CLEAN GULF is hosting a Mobile Blood Drive in the Exhibit Hall. We promise Count Dracula gets none, but you will walk away with a small token of our thanks and a pint lighter. Sign-up in advance online or wander by and sign up onsite. www.cleangulf.org/exhibiton

STUDENT PROGRAM

A student program is being designed in conjunction with CLEAN GULF partners that is meant to interest and educate both high school and college age students about the wide range of careers in the response industry.

CLEAN GULF 2019 EXHIBIT HALL

Discover new products and services for prevention, emergency response, cleanup, remediation, fire and salvage, aerial surveillance, disaster recovery, crisis management and more in the CLEAN GULF exhibit hall. The exhibit hall will be open for 2 days, allowing for ample time to navigate through the 150+ exhibitors on display.

Current exhibitors as of 8/8/19

A&B Environmental Services, Inc.

ABASCO, LLC

AbTech Industries, Inc.

ACME Environmental, Inc.

ACV Enviro

Advanced BioCatalytics

ALAMO1

alBriggs Defesa Ambiental S.A

AMPOL (American Pollution Control Corp)

Ana-lab Corp

Boerger Pumps

CABENO Environmental Services, LLC

Cardno

CK Associates

Clean Earth Systems Inc.

Clean Gulf Associates

Clean Harbors

CleanUpOil.com

Cliff Berry, Inc.

Coastal Response Research Center

COCOABSORB

Cooley Group

COREXIT Environmental Solutions LLC

Cotton Logistics

CRUCIAL, Inc.

CSA Ocean Sciences Inc.

CTEH, LLC.

Defiant Technologies, Inc.

E3 Environmental

Eik International Corporation

Elastec, Inc.

EMSI

EnviroCon Systems Inc.

Environmental Restoration LLC

Essel Environmental

Evans Equipment & Environmental

Evolution Sorbent Products, LLC

Fenstermaker & Associates, LLC

Forestry Suppliers Inc.

GeoEngineers, Inc

GHD Services, Inc

Global Risk Solutions

Grannys Alliance Holdings, Inc.

HARBO Technologies

HAZ-MAT RESPONSE/ HAZ-MAT ONE

Haz Mat Special Services, LLC

HEPACO, LLC

Heritage — Crystal Clean

Heritage Environmental Services

Hilcorp Energy Company

Holland Pump Company

Horizon Environmental

Hull's Environmental Services, Inc.

HWCG

International Air Response

International Bird Rescue

International Spill Control Organization

ION Science, Inc.

Lamor Corporation

Lone Star Hazmat Response, LLC

Louisiana Oil Spill Coordinator's Office (LOSCO)

Marine Spill Response Corp.

EXHIBIT HALL HOURS

TUESDAY, OCTOBER 29 ▶ 10:00 AM – 6:30 PM

WEDNESDAY, OCTOBER 30 ▶ 10:00 AM – 6:00 PM

MAXAR

Mid-South Environmental Services, Inc.

Miko Marine US, LLC

Miller Environmental Services, LLC

Mississippi Dept. of Environmental
Quality (MDEQ)

Moran Environmental Recovery, LLC

National Response Corporation (NRC)

Nightstick

OBG

OCEANPACT

OHMSETT

Oil Spill Response Limited

OMI

OverNite Software, Inc.

Pace Analytical

Paradigm

Parker Systems Inc. (PSI)

Phoenix Pollution Control &
Environmental Services

Polaris Applied Sciences, Inc.

Polaris Sensor Technologies, Inc.

Protect Our Community, LLC

QualiTech Environmental

SGS Galson

SHERP NORTH AMERICA

SLICK Response Services, LTD

Space City Services

Specialized Professional Services, Inc.

Spill Control Association of America
(SCAA)

SpillConsult Ltd

Stantec Consulting

Stericycle Environmental Solutions,
Inc.

Superior Environmental Solutions

SWM International

Technical Response Planning Corp.-
TRP

TEEX Emergency Services Training
Institute

Texas Boom Company

Texas General Land Office

Texas Molecular

The Response Group

Tradebe Environmental Services

Travelliance

Trident Environmental Group

United States Environmental Services

US Fire Pump, LLC

WeCan Logistics and Supply LLC

Whitewater Rescue Institute, Inc.

Wild Goose Chase — K9 Environmental
Group

Witt O'Brien's

EXHIBIT SPACE AND SPONSORSHIPS ARE STILL AVAILABLE!

Contact Anastasia Bisson at **530-363-3506**
or abisson@accessintel.com to discuss exhibit and
sponsorship opportunities at CLEAN GULF 2019!

WORKSHOPS

HOMELAND SECURITY CHALLENGES INCLUDING TERROR THREATS

MONDAY, OCTOBER 28 ▶ 1:00 PM – 5:00 PM

Registration fee: complimentary, sponsored by



This workshop will present and discuss clear and present homeland threats and security issues, including:

- ▶ Hybrid warfare on the homeland, what it is and why you should care
- ▶ Consequence and interagency interdependencies
- ▶ Vulnerabilities from UAS (drones) and other unmanned weapons
- ▶ Cybersecurity and Social Media vulnerabilities

WORKSHOP LEADER: Joseph Leonard MEP, PCP, CEM, CHS-V (CDR, USCG, ret.),
Principal Consultant, Penta Consortium, LLC

OIL SPILL RESPONSE 201: THE ROLE OF SCIENCE AND TECHNOLOGY IN SUPPORT OF THE REALITIES OF SPILL RESPONSE

MONDAY, OCTOBER 28 ▶ 1:00 PM – 5:00 PM

Registration fee: complimentary, sponsored by



AMERICAN PETROLEUM INSTITUTE

The underlying concepts for this workshop draw from a number of emergency response training courses that have been provided by and to government and industry responders over the years. The purpose of this workshop is to continue the discussion between researchers and spill response practitioners in conjunction with real world incident management considerations in order to enhance the use of science in support of emergency response decision-making. A good understanding beyond the basics of spill response capabilities and realities by a wide range of stakeholders and interested parties is important for the broader spill response community to be as effective as possible.

Desired outcomes include:

- ▶ Greater understanding of the imperatives behind response actions and the decision-making process (especially as they often occur during a very hectic time with limited opportunities for deep scientific discourses)
- ▶ Exploration of the potential roles of Research Scientists and how they may be used as Technical Specialists
- ▶ Enhanced awareness of ICS/IMS and SIMA/NEBA processes used during the planning, initial, and ongoing phases of an emergency response
- ▶ A more in-depth knowledge of SIMA through a facilitated practical approach
- ▶ A focus on the science associated with spill response and how specific research results can help inform the decision-making process

INSTRUCTORS: Tom Coolbaugh, Ph.D., Oil Spill Response Advisor, ExxonMobil Corporation
Colin Frazier, Policy Advisor, American Petroleum Institute

REGISTRATION RATES INCREASE AFTER 10/25/19. USE YOUR VIP CODE TO SECURE THE FINAL DISCOUNT AVAILABLE FOR CLEAN GULF!

GENERAL SESSIONS

KEYNOTE SESSION

TUESDAY, OCTOBER 29 ▶ 9:00 AM – 10:00 AM

SCOTT ANGELLE, DIRECTOR, BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT (BSEE), INVITED



Director Angelle is responsible for promoting safety, protecting the environment and conserving resources through the regulatory oversight and enforcement of energy industry operations on the U.S. Outer Continental Shelf. He joined the bureau on May 24, 2017, following more than 30 years of reforming agencies and organizations in both the public and private sectors. His career is characterized by a strong desire to achieve results that lead to greater success for the organizations he leads.

In 2004 he was appointed Secretary, Louisiana Department of Natural Resources, a position he held until 2012 under both the Kathleen Blanco and Bobby Jindal gubernatorial administrations. In May of 2010, he was appointed as Interim Lieutenant Governor of Louisiana during the height of the worst oil spill in U.S. history. On behalf of the state, he successfully achieved an early end to the offshore drilling moratorium imposed by the federal government. In November 2010, he returned to the position of Secretary for Natural Resources until resigning to run for Public Service Commissioner.

MEGA SESSION: LAND, AIR, AND SEA — NOT YOUR GRANDFATHER'S OIL SPILL

TUESDAY, OCTOBER 29 ▶ 10:45 AM – 12:15 PM

Subject Matter Experts will discuss recent ship channel oil/chemical responses, the Unified Command structure, agency jurisdiction and integration, as well as the corresponding port commerce disruptions. Potential agencies represented will be the U.S. Coast Guard, Port Coordination Team (PCT), Harris County, NOAA, and Vessel Traffic System (VTS)

MODERATOR/CHAIR: John Temperilli, Managing Director, KSolv, Garner, OMI

STATE AND FEDERAL UPDATES

WEDNESDAY, OCTOBER 30 ▶ 10:45 AM – 12:15 PM

An integral part of preparing for an oil spill response is being current and up-to-date on state and federal regulations. Learn what you need to know to conduct business relative to oil spill response and remediation directly from the federal and state regulators who are responsible for proposing new rules as well as implementation and enforcement.

- ▶ Marty Chabert, Oil Spill Coordinator, Louisiana Oil Spill Coordinator's Office (LOSCO)
- ▶ Jimmy Martinez, Deputy Director, Texas General Land Office
- ▶ Cody Fisher P.E., BCEE, Chief, Emergency Response Division, Mississippi Department of Environmental Quality
- ▶ Capt. Ricardo Alonso, Chief, U.S. Coast Guard, Office of Environmental Response Policy (CG-MER)
- ▶ Bryan Rogers, Acting Chief, Preparedness Verification Branch, Bureau of Safety and Environmental Enforcement (BSEE)
- ▶ Bryant Smalley, Oil Spill & Response Team Leader and Federal On-Scene Coordinator, U.S. EPA, Region 6
- ▶ TBD, Alabama Department of Environmental Management

TRACK ► RESPONSE RESEARCH

Research — Overall and Slick Thickness

MONDAY, OCTOBER 28 ► 1:00 PM – 2:30 PM

This session will provide a brief summary of research and development projects funded by BSEE Oil spill Preparedness Division. Additionally, three specific projects will be presented.

CHAIR: Gary Petrae, Senior Preparedness Analyst, Bureau of Safety and Environmental Enforcement (BSEE)

BSEE's Oil Spill Response Research Program

Suzanne Chang, Engineer, Bureau of Safety and Environmental Enforcement (BSEE)

In Situ Measurement of Oil Slick Thickness in Open Water Environments

Imad Elhadj, Professor, Mahdi Saleh, PhD Student, and Daniel Asmar, Associate Professor, American University of Beirut

Measurement of Slick Thickness and Dispersant Effectiveness from Remotely Operated Vehicle (ROV) and Autonomous Underwater Vehicle (AUV) Platforms

Paul Panetta, Chief Scientist and Alan Guarino, Senior Test Engineer, Applied Research Associates, Inc. | Ohmsett

Capabilities and Limitations of Oil Spill Thickness Determination from Synthetic Aperture Radar

Cathleen Jones, PhD, Signal Analysis Engineer, Xueyang Duan, Systems Engineer, and Benjamin Holt, Research Scientist, Jet Propulsion Laboratory (JPL)

Research — Emulsions, Recovery, and Sampling

MONDAY, OCTOBER 28 ► 2:45 PM – 4:15 PM

This session will provide presentations describing the creation of long-term stable emulsions, unique burner development for emulsified oils, novel measurements of oil-water mixtures to measure skimmer efficiency and innovative sampling techniques.

CHAIR: Paul Panetta, Chief Scientist, Applied Research Associates, Inc. | Ohmsett

System Development, Integration, and Testing of an Emulsified Crude Spray Burner

Steven Tuttle, PhD, Research Mechanical Engineer, U.S. Naval Research Laboratory

Improved Oil Recovery Sensor

Slawomir Winecki, Senior Research Scientist, Battelle

Supporting Emergency Response: Technological Advancements and Sampling Improvements

Judith Morgan, VP, Chief Compliance & Training Officer and Johnny Mitchell, Vice President of Operations, Pace National

Generation of Long-Term Stable Emulsions at Ohmsett

Alan Guarino, Senior Test Engineer, Applied Research Associates, Inc. | Ohmsett

TRACK ► EVOLVING RESPONSE TECHNOLOGIES

Satellite Remote Sensing

TUESDAY, OCTOBER 29 ► 1:30 PM – 3:00 PM

This session will focus on satellite remote sensing technologies to aid in detecting and tracking oil spills and guiding response efforts.

CO-CHAIR: John Gerken, Vice President Corporate Accounts and Specialty Analytical Services, Pace Analytical

CO-CHAIR: Christopher Dufore, Oceanographer, Bureau of Ocean Energy Management (BOEM)

New Capabilities in Satellite Environmental Monitoring

Andreas Hay Kaljord, International Sales Manager, Kongsberg Satellite Services

Oil Slick Characterization using RADARSAT Constellation Mission Simulated Data

Gordon Staples, Senior Staff Scientist, R&D, MDA and Benjamin Deschanps, Physical Scientist, Canadian Ice Service, Meteorological Service of Canada

Satellite Detection of Marine Oil Using Multispectral Imagery and Synthetic Aperture Radar

Ellen Ramirez, Physical Scientist, Oil Spill Monitoring Operations Lead, NOAA Center for Weather and Climate Prediction

Unmanned Aircraft Systems (UAS) in Oil Spill Response and Monitoring

TUESDAY, OCTOBER 29 ► 3:30 PM – 5:00 PM

This session will examine evolving surveillance and visualization technologies to aid and improve oil spill response and monitoring. The use of various sensors will also be discussed.

CHAIR: Robin Paulos, Coastal Resources Scientist, Louisiana Oil Spill Coordinator's Office (LOSCO)

MODERATOR: Andy Carlson, Finance Officer, Louisiana Oil Spill Coordinator's Office (LOSCO)

Floating Oil Spill Detection and Autonomous Monitoring

Justin Vaden, Senior Optical Engineer and David Chenault, President, Polaris Sensor Technologies, Inc.

Multispectral UAS System for Detecting, Characterizing, and Mapping Oil Spills on Near Shore Environments

Oscar Garcia, Director, Water Mapping, LLC

Unmanned Aircraft Systems (UAS) Contamination Assessment Survey Using Visible, Thermal and LiDAR

Zachary Powers, Remote Aircraft Specialist and E. Daniel Carré, Associate, GHD

Underwater Autonomous Vehicle (UAV) Applications During Oil Spills

Coy LeBlanc, Environmental Field Specialist, C. H. Fenstermaker & Associates, L.L.C.

TRACK ► PLANNING AND PREPAREDNESS

Mexico Response Planning

TUESDAY, OCTOBER 29 ► 1:30 PM – 3:00 PM

In this session the speakers will provide an update on drilling operations in Mexico, and lessons learned from their own operational preparedness. They will also discuss identified and potential challenges and concerns.

CHAIR: Bob Patterson, Managing Director, Witt O'Brien's

MODERATOR: David Pertuz, Sr. Emergency Response Specialist, Shell Exploration & Production Company

Planning and Preparedness in Mexico — A Collaborative Approach

Kirstin Taylor, Principal Consultant, Oil Spill Response Limited

Mexico Operations Update — AMEXHI

David Pertuz, Sr. Emergency Response Specialist, Shell Exploration & Production Company

Lessons Learned: Perdido Belt Exploration

Luis Roberto Elizonda, HSE Advisor and Steve Jeffcote, Principal, CEM and Oil Spill Response, BHP Billiton

Lessons Learned: Cuenca Salinas Exploration

Gil Martinez, Sr. Emergency Response Specialist, Murphy Oil Company Ltd., Invited

Risk-Based Management Practices Used in Response Planning and Incident Prevention

TUESDAY, OCTOBER 29 ► 3:30 PM – 5:00 PM

This session will demonstrate how industry has applied risk-based decision making for preventing incidents. Risk-based decision making started in the late 1990's to help the shipping industry to decrease the number of incidents, including oil spills and personnel safety accidents. Over the years, risk-based decision making has evolved to include the offshore oil and gas industry. Speakers in this session will cover different risk-based planning tools by using examples that show how they have helped improve safety and decrease environmental incidents.

CO-CHAIR: Mike Drieu, HSE Advisor, Anadarko Petroleum Corp.

CO-CHAIR: Jennifer Crouch, Principal CEM & Security — GOM, BHP Billiton

Update of Worst-Case Discharge: Risk Based Discharge Work Group

Evan Zimmerman, Executive Director, The Offshore Operators Committee

Applying “Risk Assessment” Principles to Incident Mitigation Planning Illustrated by Multiple Spill Event Case Studies

Kelly Wilson REM, CESCO, Vice President, CTEH RM

“An Ounce of Prevention...” Failure Assessment, Risk Ranking, and Mitigation as a Strategy for Minimizing Incident Frequency

Josh Gravenmier, Incident Response and Recovery-Oil & Gas Market Sector Leader and
Jeff Budzich, Program Manager, ARCADIS

Offshore Risk Based Planning for Dropped Object

Jonathan Deegan, GOM HSE Risk Manager, Anadarko Petroleum Corp.

Case Studies — Turning Lessons into Preparation

WEDNESDAY, OCTOBER 30 ▶ 8:30 AM – 10:00 AM

In this session lessons learned from recent incidents will be examined and how you can apply those learnings to contingency plans.

CHAIR: Pat Peavler, Manager, HSE Management System, TOTAL E&P USA, INC.

MODERATOR: Charles Armbruster, Coastal Resources Scientist Manager, Louisiana Oil Spill Coordinator's Office (LOSCO)

Bayport Channel Collision and ITC Tank Farm Fire: Improved Assessments for Mid-Stream Petroleum Refining Products

Paige Doelling Ph.D., State Scientific Coordinator, NOAA/NOS/ORR/ERD

Lessons Learned from the Glider Field Subsea Well Spill

Shawn Essert, Emergency Response Manager, Shell Exploration & Production Company

Community Outreach with Emergency Response Planning

WEDNESDAY, OCTOBER 30 ▶ 1:30 PM – 3:00 PM

Far too often industry organizations and federal/state agencies become the face of a response. And sometimes we wait until an incident has occurred to involve the public that would be impacted. From driving the research and networking, to supplementing necessary training programs, community organizations are often times the source for local knowledge and manpower. In this session we will highlight what planning and preparedness truly is through shared training and preparedness opportunities with our community partners.

CHAIR: Ben Badon, Emergency Response Advisor, EHS Central Services, Hess Corporation

MODERATOR: Lt. Charron McCombs, Incident Management Division Chief, U.S. Coast Guard MSU HOUMA

Citizen Scientist Program Approach to Pre-impact Response Planning: Dauphin Island, Alabama

Mark Kulp, Associate Professor and Dinah Maygarden, M.A., Director of Coastal Education Program in Pontchartrain Institute for Environmental Sciences, UNO, University of New Orleans, Ed Owens, Ph.D., President, Owens Coastal Consultants

Training Fishermen as Oil Spill Responders — 10 Years of Learnings

Shannon MacDonald, Principal, Triox Environmental Emergencies

STEM Program Oil Spill Workshop Guidance and Case Study

Cheryl Scott, EHS Advisor, Hess Corporation

Session continued on page 16

SONRIS — LDNR's Public Web-Based Portal, and How it Can Be Used During Emergencies

Mark Hogan, Coastal Resource Scientist Supervisor, Louisiana Department of Natural Resources (LDNR)

Preparing Your Leadership Team to Manage Crisis

WEDNESDAY, OCTOBER 30 ▶ 3:30 PM – 5:00 PM

In this session the speakers will define the difference between crisis response and incident response, using best practices and sharing their experience through case studies. High performance leadership focusing on critical crisis issues and not the tactical response will be highlighted. Managing the crisis, managing the messaging, and effective stakeholder engagement will also be addressed.

CHAIR: Bob Patterson, Managing Director, Witt O'Brien's

MODERATOR: Rex Anderson, Senior Emergency Management Specialist, TC Energy

Crisis Management vs Incident Response

Jessica Jackson, Manager — HSE, Crisis Management & Security, Murphy Oil Company Ltd.

Executive Crisis Management Team Response

Rex Anderson, Senior Emergency Management Specialist, TC Energy

Managing Crisis Communication

Grace Burley, Managing Director, Witt O'Brien's

What You Need to Know About Spill Impact Mitigation Analysis (SIMA) and its Broad Range of Practical Applications in a Response

THURSDAY, OCTOBER 31 ▶ 8:30 AM – 10:00 AM

Speakers in this session will discuss the Spill Impact Mitigation Assessment (SIMA) process, which is intended to support Net Environmental Benefit Analyses (NEBA). Identified in the session will be key elements required to complete a SIMA which include environmental impacts, health and safety impacts to communities and response workers, as well as cultural and economic concerns associated in the trade-off decision making process associated with an oil spill response. It is hoped that attendees will gain a sense of how to practically apply this approach across a broad range of response scenarios, as these will be considered and evaluated as part of this interactive session.

CHAIR: Colin Frazier, Policy Advisor, American Petroleum Institute

PANELISTS: Brandi Todd, NOAA SSC, NOAA — Office of Response & Restoration
Gina Coelho Ph.D., Principal Senior Scientist, Sponson Group Inc.
Mike Drieu, HSE Advisor, Anadarko Petroleum Corp.

Wildlife Response Preparation and Planning

THURSDAY, OCTOBER 31 ▶ 10:30 AM – 12:00 PM

Effective Wildlife response requires excellent planning and preparedness in resource areas: (1) facilities; (2) people; (3) Wildlife Care Teams. This session will introduce guidelines for planning and preparation response for affected wildlife. The session end with a question and answer panel of experienced wildlife responders.

CHAIR: Andy Tirpak, Principal, A To Sea Environmental

MODERATOR: Sharon Schmalz, Executive Director, The Wildlife Center of Texas

Managing People to Meet the Needs Based on Affected Species: Guidelines for Staffing an Oiled Wildlife Response

Jordan Terrell, Operations Specialist, Tri-State Bird Rescue & Research, Inc.

Health Care Team Creation for Wildlife Response

J. Jill Heatley DVM MS DABVP (Avian) DACZM, Associate Professor, Zoological Medicine College of Veterinary Medicine, Texas A&M University

Panel Discussion: The Logistics of Animal Care: Facilities, Enclosures and Care — Meeting the Needs

PANELISTS: Tony Savoie, Responder, Clean Gulf Associates

Sharon Schmalz, Executive Director, The Wildlife Center of Texas

Rhonda Murgatroyd, Managing Director, Wildlife Response Services, LLC

Frank May, Response Supervisor, Marine Spill Response Corporation

Javier Nevarez PhD, Louisiana State University School of Veterinary Medicine

TRACK ▶ INLAND PREPAREDNESS AND RESPONSE

Real-Time Response — Using Technology to Enhance Readiness and Initial Response

TUESDAY, OCTOBER 29 ▶ 1:30 PM – 3:00 PM

This session will simulate a real-time spill scenario and demonstrate tools and technology that can be used to improve Initial Response. From enhanced situational awareness to resource management and protection of sensitive/critical areas; we will demonstrate the use of GIS, phones, tablets, applications and drones to drive a better response. You will see in real-time, how one operator uses these tools to build their initial response and set the framework for better management of ongoing operations in a Proactive Response.

CHAIR: Jon Wickersham, ER Specialist, Colonial Pipeline Company

An Operator's Perspective: In-House Tools and UAS for Initial Response

Craig Wyatt, Manager, Emergency Response, Jon Wickersham, ER Specialist, and Brandon Klopfenstein, Emergency Response Program Specialist, Colonial Pipeline Company, with support from Philip Lyons, AMPOL

Drone Technology Simulation

Walt Wylupek, Chief Technology Officer, Skyfire Consulting

Strengthening Inland Partnerships — A Unified Command Discussion

TUESDAY, OCTOBER 29 ▶ 3:30 PM – 5:00 PM

After an initial overview of the growth of the inland oil and gas industry, the panel will discuss various and timely topics relating to preparedness. Planning and the importance of strengthening partnerships as we continue to develop our interior regions.

CHAIR: Greg Duncan, Director, Crisis Management & Emergency Response, ConocoPhillips

PANELISTS: Jon Wickersham, ER Specialist, Colonial Pipeline Company
Cody Fisher P.E., BCEE, Chief, Emergency Response Division, Mississippi Department of Environmental Quality
Bryant Smalley, Oil Spill & Response Team Leader and Federal On-Scene Coordinator, U.S. EPA, Region 6
Vincent Velasquez, Response Planning Manager, Wild Well Control
Nic Winslow, Manager, Hazmat Planning, BNSF Railroad

TRACK ▶ APPLIED RESPONSE TECHNIQUES

In Situ Burn (ISB) Applications

WEDNESDAY, OCTOBER 30 ▶ 8:30 AM – 10:00 AM

This session will focus on In Situ Burn application in inland and offshore environments. Presentations will include history/case studies of ISB's in Louisiana, direct measurement of ISB rates/efficiency, and a guide on ISB emissions.

CHAIR: Chris Sanfilippo, Environmental Manager — Eastern Division, Texas Petroleum Investment Co.

Lessons Learned from Nearly Two Decades of In-Situ Burning of Wetlands in Louisiana

Jacqueline Michel, President and Scott Zengel, Senior Scientist, Research Planning, Inc. (RPI)

The Direct Measurement of In-Situ Burn (ISB) Rate and Efficiency

Paul Panetta, Chief Scientist, Richard Byrne, Principal Scientist, and Hualong Du, Principal Scientist, Applied Research Associates, Inc. | Ohmsett

Recent Developments on Surface Collection Agent (aka Herder) Research

Tim Nedwed Ph.D., STP-A, ExxonMobil Upstream Research Company

Generating and Interpreting Toxicity Information for Decision-Making

WEDNESDAY, OCTOBER 30 ▶ 1:30 PM – 3:00 PM

This session will evaluate challenges and best practices in laboratory testing of dispersed oil toxicity and interpretation of results for dispersants decision-making.

CHAIR: Victoria Broje, PhD, Sr. Emergency Response Scientist, Shell Projects & Technology

MODERATOR: Bradford Benggio, Scientific Support Coordinator, NOAA — Office of Response & Restoration

Aligning Science with Operational Needs: Modernizing Dispersant and Dispersed Oil Testing Protocols

Gina Coelho Ph.D., Principal Senior Scientist, Sponson Group Inc.

Bridging the Gap between Laboratory Studies and the Real-World: Challenges and a Path Forward

Adriana Bejarano PhD, Sr. Ecotoxicologist, Risk Science Team, Shell Health — Americas

Use of Science Data in Operational Decision-Making

Paige Doelling Ph.D., State Scientific Coordinator, NOAA/NOS/ORR/ERD

Dispersants and Oil Spill Response — Overviews of Recent Industry, OSRO and National Academies Efforts

WEDNESDAY, OCTOBER 30 ▶ 3:30 PM – 5:00 PM

This session will provide an opportunity to hear about the final outcomes from long term API-sponsored scientific studies on the potential use of dispersants, a summary of the National Academies eagerly anticipated report on the evaluation of dispersant use, and an overview of a model comparing different combinations of response tools for use in a subsea release scenario.

CHAIR: Tom Coolbaugh, Ph.D., Oil Spill Response Advisor, ExxonMobil Corporation

MODERATOR: Michael Sams, Incident Management and Preparedness Advisor, U.S. Coast Guard 8th District

Overview of National Academies of Science, Engineering and Medicine 2019 Report on the Evaluation of Dispersants

Stacey Karras, Program Manager, National Academy of Sciences

Summary of API-Sponsored Studies of Dispersant Effectiveness

Marty Cramer, Principal Emergency Response Consultant, ConocoPhillips

Summary of API-Sponsored Studies of Dispersant Toxicity

Ray Arnold, Staff Scientist, Chevron Energy Technology Company

Analysis of Response Alternatives for the Deepwater Horizon Spill to Inform Response Planning

Deborah French-McCay, Director, Research and Model Development, RPS

TRACK ► RESPONSE/RESTORATION

Deepwater Horizon Restoration

TUESDAY, OCTOBER 29 ► 1:30 PM – 3:00 PM

Nine years after the Deepwater Horizon (DWH) oil spill, restoration is being implemented in the impacted states, as agreed to, as per the Restore Act and Natural Resource Damage Assessment settlements. This session will include a review of example DWH restoration in regards to topics including; shoreline loss, salt marsh and other habitat recovery, and other restoration aspects.

CHAIR: Lawrence Malizzi, Senior Manager, OBG Part of Ramboll

MODERATOR: Lyle Trumbull Ph.D., Manager, OBG Part of Ramboll

Vegetation Planting after Shoreline Cleanup Treatment Improves Salt Marsh Recovery Following the Deepwater Horizon Oil Spill

Scott Zengel, Senior Scientist and Jacqui Michel, President, Research Planning, Inc. (RPI), Nicolle Rutherford, Biologist, Emergency Response Division, Office of Response and Restoration, NOAA

A Review of Gulf of Mexico Shoreline Erosion Studies following the 2010 Deepwater Horizon Oil Spill and Comparison to 4 Years of Shoreline Loss Data from 2011-2015

Greg Challenger, President/Marine Scientist, Stephan Gmur, Environmental Scientist, and Elliott Taylor, Principal & Sr. Scientist, Polaris Applied Sciences

Scientific Support Within the Environmental Unit for ESF Hurricane Response

TUESDAY, OCTOBER 29 ► 3:30 PM – 5:00 PM

This is a “must attend session” for anyone wanting to better understand the many nuances and challenges that face state and federal entities after a major hurricane landfall. This session will highlight often overlooked, but significantly important, aspects of the ESF-10 pollution mitigation mission.

CHAIR: Bradford Benggio, Scientific Support Coordinator, NOAA — Office of Response & Restoration

Overview of ESF-10 Mission

Michael Sams, Incident Management and Preparedness Advisor, U.S. Coast Guard 8th District

Overview of Scientific Support Within the Environmental Unit for ESF Hurricane Response

Adam Davis, Scientific Support Coordinator, Emergency Response Division, Office of Response and Restoration, NOAA and Timyn Rice, State Scientific Support Coordinator, Florida Fish and Wildlife Conservation Commission (FWC)

Photo Acquisitions and Interpretations to Support ESF 10 Hurricane Response

Mark White, GIS Analyst and Jacqui Michel, President, Research Planning, Inc. (RPI)

Seagrass Impacts and Restoration following Large Vessel Salvage under the ESF-10 Hurricane Michael Response in Northwest Florida

Hal Fravel, Senior Scientist and Scott Zengel, Senior Scientist, Research Planning, Inc. (RPI), Timyn Rice, State Scientific Support Coordinator, Florida Fish and Wildlife Conservation Commission (FWC)

Wildlife Oil Spill Response: Policies, Procedures, Observations, and Potential Outcomes

WEDNESDAY, OCTOBER 30 ▶ 8:30 AM – 10:00 AM

This session will provide an overview of wildlife response in Louisiana and discuss the fates and effects of oil on wildlife. Professionals in the field will explore these topics and discuss outcomes seen through, observation, rehabilitation, and toxicity studies.

CHAIR: Gina Saizan, Natural Resource Damage Assessment Manager, Louisiana Oil Spill Coordinator's Office (LOSCO)

MODERATOR: Rhonda Murgatroyd, Managing Director, Wildlife Response Services, LLC

Oil Spill Wildlife Response Operations in Louisiana

Jonathan Wiebe MS, Oil Spill Program Manager, Louisiana Department of Wildlife and Fisheries

Toxicology of Avian Wildlife with Oil Exposure

Kendal Harr, DVM, MS, DACVP, Veterinary Pathologist, URIKA

Oiled Wildlife Rehabilitation: A Veterinarian Perspective on Data Collection

Michael Ziccardi DVM MPVM PhD, Director, Oiled Wildlife Care Network

The Evolution of the Response Community and the Challenges of a Maturing Industry and Workforce

WEDNESDAY, OCTOBER 30 ▶ 1:30 PM – 3:00 PM

This session will cover a variety of topics: the evolution of incident management, OSRO's and clean up contractors, consultants, salvors, and loss of expertise due to a retiring workforce. Other topics to be discussed could include how is an incident managed, are field operations efficient, what do regulations supply/provide, or how do we get our swagger back?

CHAIR: Robert Chambers, SVP ERMS, Global Risk Solutions

MODERATOR: Lawrence Malizzi, Senior Manager, OBG Part of Ramboll

PANELISTS: Thomas Wiker, Vice President — Operations, Gallagher Marine Systems
Robert Simmons PE, President, Environmental Science Services
Jackie Smith, Business Development, OMI, Invited
Devon Grennan, President, Global Diving & Salvage, Inc.

Case Studies — Lessons Learned

WEDNESDAY, OCTOBER 30 ▶ 3:30 PM – 5:00 PM

Case studies always present an opportunity to reflect upon the realities encountered during an actual response. In this session, several case studies will be presented along with the lessons learned during each event. The lessons learned from such events are critical for assisting responders in better preparing for future incidents.

CHAIR: Frank Paskewich, President, Clean Gulf Associates

Response Efforts at the MC20 Site

Capt. Kristi Luttrell, Sector Commander, U.S. Coast Guard Sector New Orleans

Response Efforts for Hilcorp Energy Well Discharge into Rattlesnake Bayou

Matthew Hollis, Environmental Scientist, Louisiana Oil Spill Coordinator's Office (LOSCO)

Intercontinental Terminals Co. (ITC) Tank Fire and Hazardous Material Release into the Houston Ship Channel

Capt. Kevin Oditt, Sector Commander, U.S. Coast Guard Sector Houston-Galveston

Environmental Unit (EU) and Response Considerations

THURSDAY, OCTOBER 31 ▶ 8:30 AM – 10:00 AM

This session will address the role of the Environmental Unit, as well as some response planning and tactical considerations for responses on Texas beaches and Chemical Hazard assessments.

CHAIR: Simmons PE, President, Environmental Science Services

Role of the EU in Agency Liaison During a Response

Helen Dubach, Manager, Readiness, CTEH RM

Oil Spill Response on Gulf Beaches in Texas

Brent Koza, Corpus Christi Regional Manager, Texas General Land Office

Effective Hazard Assessments for Chemical Response

Scott Skelton, Senior IH/ER Consultant, CTEH, LLC

Salvage and Marine Firefighting: Regulatory Evolution and Case Studies

THURSDAY, OCTOBER 31 ▶ 10:30 AM – 12:00 PM

Ten years after the U.S. published salvage and marine firefighting regulations, the salvage industry continues to effectively respond to marine casualties while managing an evolving regulatory and oversight framework. This session will discuss policy issues and present multiple recent case studies.

CHAIR: Rebecca Garcia-Malone, Assistant Director of Vessel Services, T&T Salvage

The U.S. Salvage and Marine Firefighting Regulatory Framework: A Ten-Year Perspective on the Impacts and Effectiveness of these Game-Changing Rules

Jim Calhoun, Chairman, Regulatory Affairs, American Salvage Association

Oil Assessment and Recovery on the WWII-era Tanker COIMBRA

Aaron Josef, Manager, QHSE, Resolve Marine Group and CDR Keith Donohue, Deputy Sector Commander, U.S. Coast Guard Sector Long Island Sound

The Containership Yantian Express: Salvage and Marine Firefighting Response

Jaco Sluijmers, Operations Manager and Savage Master, SMIT Salvage Americas

Marine Firefighting Case Studies in the Gulf of Mexico

Rick Francis, Lead Firefighter, T&T Salvage LLC

TRACK ▶ TRAINING AND EXERCISE BEST MANAGEMENT PRACTICES

Exercise Evaluation — Maximizing Value

TUESDAY, OCTOBER 29 ▶ 1:30 PM – 3:00 PM

This session seeks to explore key aspects of exercise evaluation, and its importance to truly improving response capability.

CHAIR: Michael Sams, Incident Management and Preparedness Advisor, U.S. Coast Guard 8th District

Exercise Evaluation Qualifications

Linda Manka, Manager, Emergency Response, Shell

Identifying Areas for Improvement and Their Root Causes

Ron Cantin, President, EMSI

Evaluation Guidelines and Tools

Sara Moore, Senior Preparedness Analyst, BSEE Oil Spill Preparedness Division

From Lessons to Action — Improvement Planning

Craig Wyatt, Manager, Emergency Response, Colonial Pipeline Company

Inland and Offshore Exercise Compliance Differences

TUESDAY, OCTOBER 29 ▶ 3:30 PM – 5:00 PM

This panel of experts will discuss and compare the compliance requirements for inland and offshore operators and how they meet them.

CHAIR/MODERATOR: Michael Baccigalopi, Oil Spill Advisor, BP Gulf of Mexico
PANELISTS: Joe White, HSE Manager, Crisis and Emergency Management, Anadarko Petroleum Corp.
Bryan Rogers, Acting Chief, Preparedness Verification Branch, Bureau of Safety and Environmental Enforcement (BSEE)
Randy Wagner, Vice President of Exercise, Response & Training, The Response Group
Eddie Murphy, Training & Exercise Specialist, U.S. DOT PHMSA

Exercise Designing for Success

WEDNESDAY, OCTOBER 30 ▶ 8:30 AM – 10:00 AM

This session will focus on designing exercises to not only meet NPREP and company requirements, but to also serve as a training opportunity. It will highlight how to go beyond Homeland Security Exercise and Evaluation Program (HSEEP) to design exercises that test the plans and challenges faced by Incident Management Teams (IMT).

CHAIR: Emily Poe, Emergency Response Specialist, Phillips 66

Exercise Insights

Randy Wagner, Vice President of Exercise, Response & Training, The Response Group

Real-World Experience in Exercises

Art Powers, Emergency Preparedness & Response Advisor, ExxonMobil Corporation

Exercise Elements

Jon Wickersham, ER Specialist, Colonial Pipeline Company

Unified Command Development

WEDNESDAY, OCTOBER 30 ▶ 1:30 PM – 3:00 PM

This session will include discussion on the development of Unified Command. It will focus on Federal On-Scene Coordinator (FOSC), State On-Scene Coordinator (SOSC), and Responsible Party Incident Command (RPIC) development.

CHAIR: Lisa Saint, HSSE & ER Advisor, BP Shipping
PANELISTS: Capt. Jason E. Smith, Deputy Sector Commander, Coast Guard Sector / Air Station Corpus Christi
Bryant Smalley, Oil Spill & Response Team Leader and Federal On-Scene Coordinator, U.S. EPA, Region 6
Brent Koza, Corpus Christi Regional Manager, Texas General Land Office
Barbara Parker, EM Science and Advocacy Manager — PTS Emergency Mgmt., Shell Exploration & Production Company
Jennifer Crouch, Principal CEM & Security — GOM, BHP Billiton

Training and Developing Key Incident Management Team (IMT) Members

WEDNESDAY, OCTOBER 30 ▶ 3:30 PM – 5:00 PM

Incident Management Team (IMT) success depends on those who fill key positions being able to effectively fill their roles. Building on the experience of the presenters this session will focus on how to develop, train and support those key position holders.

CHAIR: Stephanie McQueen, Emergency Response and Preparedness Advisor, ExxonMobil Corporation

Environmental Unit Staff Preparedness for Emergency Response

Victoria Broje, PhD, Sr. Emergency Response Scientist, Shell Projects & Technology

The Role of the Resources Unit

Billy Haley, Vice President of Operations, EMSI

Immersive (AR/VR) Technologies to Improve and Transform Emergency Response Training

Kristen Todtz, Associate — Immersive Digital Solution Lead (North America), GHD

TRACK ▶ EMERGING TRENDS AND CONCERNS

The Human Element — Part II

WEDNESDAY, OCTOBER 30 ▶ 8:30 AM – 10:00 AM

This session further explores emerging trends in the human element of oil spill preparedness and response, which was first incorporated into the 2018 Clean Gulf program. Speakers will highlight evolving knowledge about potential worker and public health concerns associated with spilled oil and dispersants during response.

CHAIR: Ann Hayward Walker BFA, MBA, President, SEA Consulting Group

Human Health Considerations for Oiled Wildlife Responders

Michael Ziccardi, Director, Oiled Wildlife Care Network

Human-Health Focused Collaborative Workshop Series of the National Academies of Science and Gulf Research Program: Regional Priority Setting for Health, Social, and Economic Disruption from Spills

Christine Hale, Sea Grant Oil Spill Science Outreach Specialist, Texas Sea Grant

Human Health Considerations in the National Academies of Sciences, Engineering, and Medicine Report: The Use of Dispersants in Marine Oil Spill Response

Bernard Goldstein PhD, Professor Emeritus, Environmental and Occupational Health, University of Pittsburgh, Invited

Looking Back at the Deepwater Horizon Oil Spill: Can Exposure to Dispersants Really be Linked to Health Effects?

Paul Nony, Director, Toxicology and Occupational Health, CTEH, LLC

Environmental Data Management 2.0

WEDNESDAY, OCTOBER 30 ▶ 1:30 PM – 3:00 PM

This session will provide participants insight into advancements in incorporating environmental data management into response. Building on the session delivered at the 2018 conference, we will specifically highlight a unique approach to incorporating environmental data management within the Incident Command System during a Preparedness for Response Exercise Program full-scale exercise.

CO-CHAIR: Maria Hartley Ph.D., Technical Lead, Emergency Preparedness & Response, Chevron

CO-CHAIR: Michael Sams, Incident Management and Preparedness Advisor, U.S. Coast Guard 8th District

Testing the Flexibility of ICS; Incorporating Environmental Data Management into its Own Unit Under the Planning Section

James McCormack M.S.E.S., M.P.A., CHMM, Director, Sales and Marketing, CTEH, LLC

Managing Environmental Data Within Response

Buzz Kaman, Environmental Scientist/Response Specialist, Shell Exploration & Production Company

NOAA's Role and Progress in Environmental Data Management

George Graettinger, Environmental Scientist, NOAA Office of Response and Restoration

Environmental Data Management — A State's Perspective

Gina Saizan, Natural Resource Damage Assessment Manager, Louisiana Oil Spill Coordinator's Office (LOSCO)

National Level Perspective — Advancing Environmental Data Management

Nancy Kinner Ph.D., Director, Coastal Response Research Center

Deepwater Ports — Current and Future Impacts

WEDNESDAY, OCTOBER 30 ▶ 3:30 PM – 5:00 PM

The demand for crude oil export facilities exceeds current capacity. Several initiatives are underway to close this export procession capacity gap. This session will provide an overview of deepwater port permitting and approval process as well as address potential impacts to existing oil pollution planning, preparedness, and response protocols.

CHAIR: Zachary Pickett (CDR, USCG, ret.), Emergency Preparedness, U.S. Coast Guard Sector Corpus Christi

A Discussion of Regulatory Processes for Deepwater Port Development in Texas

D'Anne Stites, Compliance and Enforcement Coordinator, Texas General Land Office

Offshore Crude Oil Exports; Are We Ready to Respond

Capt. Jason E. Smith, Deputy Sector/Air Station Commander, U.S. Coast Guard Sector Corpus Christi

A Deepwater Port's Emergency Management and Preparedness Program

Stephen Pepper, Director, Crisis Management, Phillips 66

National Deepwater Port Regulatory Overview

Linden Houston, Transportation Specialist, U.S. DOT, Maritime Administration

OSRO's — 30 Years of Change

THURSDAY, OCTOBER 31 ▶ 8:30 AM – 10:00 AM

A mixture of technology, risk mitigation, legislation, and corporate social responsibility have created an historically low volume of spills, yet response readiness expectations are at a historical high. In the midst of this genesis OSROs have evolved as essential preparedness partners with the O&G industry. Panelists will focus on key elements to include, modern day challenges with legacy response services, best practices in contracting for response services, and combating GIUE anxiety through practical and mental preparation. Questions and discussion welcomed!

CHAIR: Stephen Kastensmidt, Crisis and Emergency Management, Anadarko Petroleum Corp.

MODERATOR: Steve Buschang, Director of Research and Development State Scientific Support Coordinator, Texas General Land Office

PANELISTS: Tj Engstrom, Director-Emergency Services, Clean Harbors
James Hanzalik, Vice President, Clean Gulf Associates
Michael Sample, Vice President & General Counsel, Marine Spill Response Corporation
Angie Martin P.E., CHMM, Vice President, Heritage Environmental Services
Bryant Smalley, Oil Spill & Response Team Leader and Federal On-Scene Coordinator, U.S. EPA, Region 6
Lt. Matthew Edes, Program Manager, U.S. Coast Guard, Office of Environmental Response Policy (CG-MER)

Port Valdez; The End of the Pipeline, The Beginning of Purpose-Built Response Planning and Preparedness

THURSDAY, OCTOBER 31 ▶ 10:30 AM – 12:00 PM

This session will focus on lessons learned over the last 20 years in Prince William Sound. Where we were, where we are and where we are going...

CHAIR: Josh Clifford, Project Manager, QualiTech Environmental

The 20-Year Transition, Transitioning into New Technologies and Purpose-Built Response Organizations. A historical Overview of Valdez, Alaska and Prince William Sound

Mike Day, SERVS Operations Manager, Alyeska Pipeline Service Company

Bringing The Gulf of Mexico to Alaska: Strong Design, Craftsmanship and Quality to a New Environment

Gary Chouest, President, Edison Chouest Offshore

Developing Technologies with Purpose and Extreme Environmental Specifications

Dag Nilsen, R&D Manager, NOFI AS

REGISTRATION INFORMATION

INDIVIDUAL REGISTRATION OPTIONS

Full Conference \$929*

Access to all conference sessions, general sessions, exhibit hall, receptions, lunch and online conference proceedings

Full Conference — Exhibitor \$499

Access to all conference sessions, general sessions, exhibit hall, receptions, lunch and online conference proceedings

Full Conference — Government..... \$649*

Access to all conference sessions, general sessions, exhibit hall, receptions, lunch and online conference proceedings

Expo Only — Supplier/Manufacturer or Service Company \$299

Access to exhibit hall, receptions, and General Sessions

Expo Only — Energy Producer, Transportation, Government, Academia..... \$199

Access to exhibit hall, receptions, and General Sessions.

**Pricing increases after 10/25/09*

Register with your enclosed VIP code to secure these rates

UPGRADE OPTIONS

Golf Tournament:

Individual \$100
Foursome..... \$375

Haunted Ghosts & Spirits Tour \$35

Join your colleagues for a haunted walking tour in the French Quarter. This is a private guided tour exclusively for CLEAN GULF attendees.

Pick 2 Upgrade:

Expo-Pass Upgrade \$150

Any expo-only pass holder can purchase the pick 2 upgrade and attend 2 conference sessions of their choice.

Pick 3 Upgrade:

Expo-Pass Upgrade \$225

Any expo-only pass holder can purchase the pick 3 upgrade and attend 3 conference sessions of their choice.

GROUP REGISTRATION PACKAGES

CLEAN GULF has created group registration packages that offer you significant savings if you send 5 or more to CLEAN GULF. With a group package you'll save hundreds of dollars per individual, and everyone on your team will receive access to all conference sessions, networking activities, lunch and the exhibit hall.

To set up your group registration or for more information, please contact Jill Dean at 713-343-1880 or jdean@accessintel.com

OFFICIAL HOTEL BLOCK AT CLEAN GULF

NEW ORLEANS DOWNTOWN MARRIOTT AT THE CONVENTION CENTER



859 Convention Center Blvd

385 feet away from the Ernest N Morial Convention Center

RATE: **\$232**

- Starbucks within the property
- Complimentary WiFi access for Marriott Rewards Members
- Rooftop pool

HILTON GARDEN INN CONVENTION CENTER



1001 South Peters Street

0.2 miles away from the Ernest N Morial Convention Center

RATE: **\$205**

- Streetcar stop from the Riverwalk and Harrahs Casino
- 24-hour Business Center
- Dining selections at the Garden Grille & Bar

OMNI RIVERFRONT



701 Convention Center Blvd

0.2 miles away from the Ernest N Morial Convention Center

RATE: **\$219**

- Steps away from the Contemporary Arts Center
- New Fulton St. Bistro & Bar
- Well-equipped fitness center

EMBASSY SUITES NEW ORLEANS CONVENTION CENTER



315 Julia Street

0.2 miles away from the Ernest N Morial Convention Center

RATE: **\$234**

- Complimentary, cooked-to-order breakfast
- Each room is a spacious suite
- Complimentary Manager's Reception nightly from 5:30 pm – 7:30 pm with wine, beer and dry snacks

HAMPTON INN & SUITES NEW ORLEANS CONVENTION CENTER



1201 Convention Center Blvd

0.2 miles away from the Ernest N Morial Convention Center

RATE: **\$215**

- Located across the street from Hall D — our CLEAN GULF exhibit space
- Complimentary Standard WiFi access
- Complimentary continental breakfast

HILTON NEW ORLEANS RIVERSIDE



Two Poydras Street

0.3 miles away from the Ernest N Morial Convention Center

RATE: **\$242**

- On the banks of the Mississippi River
- In house restaurant, Dragos
- Complimentary in room WiFi access

We know you have many options when booking your stay in New Orleans. That's why the CLEAN GULF show management team has worked with MCI Group to secure the best pricing for your favorite hotels. Stay within our block for discounted pricing and other perks! Book your room by October 8, 2019, to secure these discounted rates — www.cleangulf.org/travel

REGISTRATION RATES INCREASE AFTER 10/25/19. USE YOUR VIP CODE TO SECURE THE FINAL DISCOUNT AVAILABLE FOR CLEAN GULF!