

Topic Breakout Sessions

Mik Else
BSEE

Session Topic & Chairperson

<u>Technical “Breakout” Session</u>	<u>Chairperson</u>
1) Well Control (Surface)	Brian Skeels
2) Well Control (Subsea)	Frank Gallander
3) Well Drilling & Completion	Jim Raney
4) Pre-Incident Planning	Alan Summers
5) Post-Incident Containment	Holly Hopkins
6) Risk Assessment	Dan Fraser

Participant Ground Rules

- ▶ One person speaks at a time.
- ▶ Statement/ideas to be shared in orderly fashion.
- ▶ Questions may be asked to clarify statements/ideas.
- ▶ No criticizing.
- ▶ Discussions are about positions, not personalities.
- ▶ Written recordings are to exclude employee names and company affiliation.

Topic 1 – Well Control (Surface)

- ▶ **Chairperson:**
 - Brian Skeels, Emerging Technology Director
 - FMC Technology

- ▶ **Co-Chair:**
 - David Young, Chevron

- ▶ **Well Control – Surface (Scope is wellhead and above)**
 - Technical challenges/limitations of surface equipment, systems, and operations with particular attention to blowout preventers and secondary control systems necessary to ensure marine well containment, to include priority inspection areas and methods.

Topic 2 – Well Control (Subsea)

- ▶ **Chairperson:**
 - Frank Gallander, RP 53 Chair & Subsea Well Intervention
 - Chevron

- ▶ **Co-Chair:**
 - Tony Hogg, ENSCO

- ▶ **Well Control – Subsea (Scope is wellhead and above)**
 - Technical challenges/limitations of subsea equipment, systems, and operations with particular attention to blowout preventers, and secondary control systems necessary to ensure marine well containment, to include priority inspection areas and methods.

Topic 3 – Well Drilling & Completion

▶ Chairperson:

- Jim Raney, API Standards Chair
- Anadarko

▶ Co-Chair:

- Ken Armagost, Anadarko

▶ Well Drilling & Completion Design and Barriers (Scope is wellhead and below)

Topic 4 – Pre-Incident Planning

- ▶ **Chairperson:**
 - Alan Summers, Director – Subsea
 - Diamond Offshore Drilling
- ▶ **Co-Chair:**
 - Dan Sadenwater, Chevron
- ▶ **Pre-incident Planning, Preparedness and Response at different water depths (Scope is the wellhead & barrier between the hydrocarbon and the environment)**

Topic 5 – Post-incident Containment

▶ Chairperson:

- Holly Hopkins, Policy Advisor – Upstream
- American Petroleum Institute

▶ Co-Chair:

- Charlie Williams, Shell

▶ Post-incident Containment and Well Control (Event driven, non-conventional, beyond the Rig)

Topic 6 – Risk Assessment

▶ Chairperson:

- Dan Fraser, Associate Laboratory Director
- US DOE, Argonne National Lab

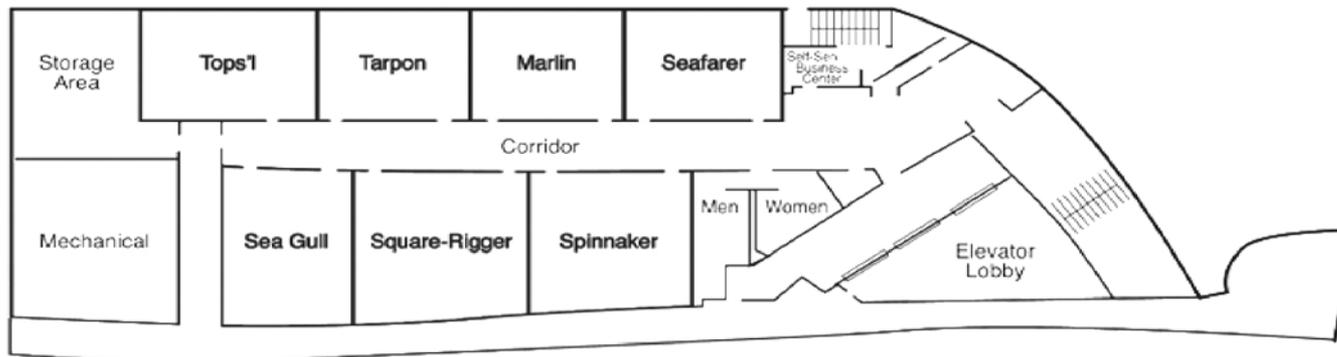
▶ Co-Chair:

- Steve Kropla, IADC

▶ Risk Assessment of Critical Operations and Activities. (Risk Models – Developing the criteria for the future Capping)

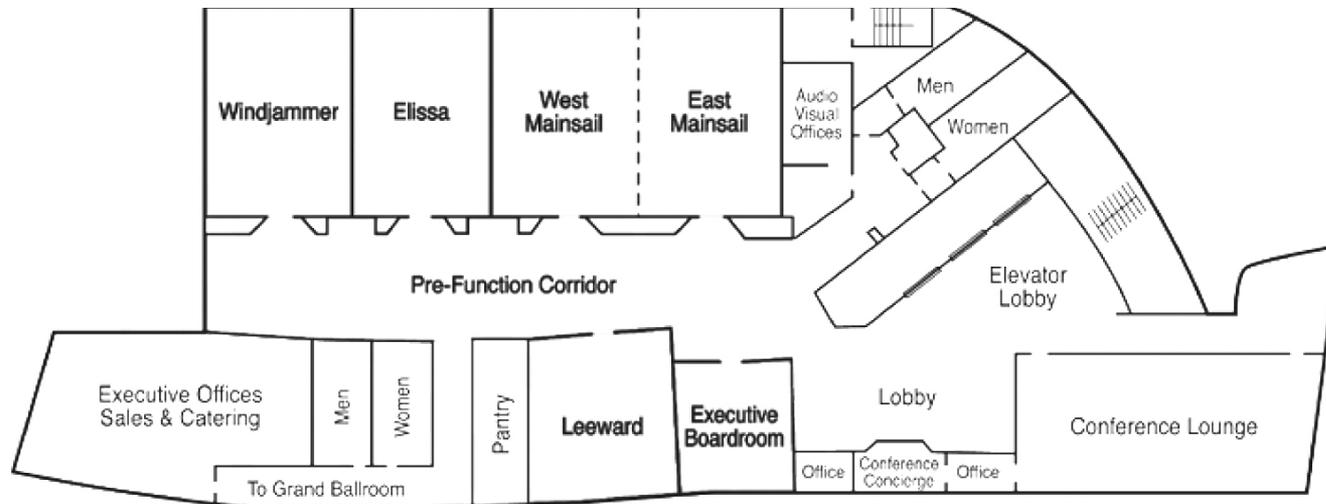
First Floor Session Rooms

- ▶ Topic 1 – Tarpon
- ▶ Topic 4 – Sea Gull
- ▶ Topic 5 – Square-Rigger
- ▶ Topic 6 – Spinnaker



Second Floor Session Rooms

- ▶ Topic 2 – Elissa
- ▶ Topic 3 – Windjammer



Organization

Session Chairs

Session 1: Well Control with surface BOPs (Tarpon Room)

Chair: Brian Skeels, FMC Technologies

Co-Chair: David Young, Chevron

Session 2: Well Control with subsea BOPs (Elissa Room)

Chair: Frank Gallander, Chevron

Co-Chair: Tony Hogg, ENSCO

Session 3: Well Drilling & Completion Design and Barriers (Windjammer Room)

Chair: Jim Raney, Anadarko Petroleum Corporation

Co-Chair: Ken Armagost, Anadarko Petroleum Corporation

Session 4: Pre-incident Planning, Preparedness & Response at Different Water Depths (Sea Gull Room)

Chair: Alan Summers, Diamond Offshore Drilling, Inc.

Co-Chair: Dan Sadenwater, Chevron

Session 5: Post-incident Containment and Well Control (Square-Rigger Room)

Chair: Holly Hopkins, American Petroleum Institute

Co-Chair: Charlie Williams, Shell Energy Resources, Inc.

Session 6: Risk Assessment of Critical Operations and Activities (Spinnaker Room)

Chair: Dan Fraser, Argonne National Laboratory

Co-chair: Steve Kropla, International Association of Drilling Contractors

Workshop Steering Committee

Joe Braun, Nuclear Engineering Program Manager, Argonne National Laboratory

Mik Else, Safety Research Engineer, DOI/BSEE

Dan Fraser, Principal Architect, Argonne National Laboratory

Frank Gallander, Subsea Well Intervention, Chevron

Holly Hopkins, Senior Policy Advisor, American Petroleum Institute

Steve Kropla, Group Vice President—Operations and Accreditation, IADC

Jim Raney, Director, Engineering and Technology, Anadarko Petroleum Corporation

Kumkum Ray, Senior Regulatory Specialist, DOI/BSEE

Brian Skeels, Emerging Technologies Director, FMC Technologies

Alan Summers, Director—Subsea Department, Diamond Offshore Drilling, Inc.

Agenda

Tuesday, November 1

5—9 pm Early Registration—Grand Ballroom Lobby

Wednesday, November 2

7:30 am Registration & Continental Breakfast—Grand Ballroom Lobby

9:00 am Welcome, Mik Else, BSEE

9:10 am Introduction, Dan Fraser, Argonne National Laboratory

9:30 am Plenary Speaker: David Miller, American Petroleum Institute

10:00 am Refreshment Break—Grand Ballroom Lobby

10:30 am Plenary Speaker: Sandi Fury, Offshore Operators Committee

11:00 am Plenary Speaker: Michael J. Saucier, BSEE

11:30 am Introduction to Topics and Breakout Sessions

12:00 pm Lunch—Café (Third Floor)

1:00 pm	Session 1: Well Control with surface BOPs	Session 2: Well Control with subsea BOPs	Session 3: Well Drilling & Completion Design and Barriers	Session 4: Pre-incident Planning, & Response	Session 5: Post-incident Containment and Well Control	Session 6: Risk Assessment of critical operations and activities
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3:00 pm Refreshment Break—First and Second Floor Corridors

3:30 pm	Continued discussions	Continued discussions	Continued discussions	Continued discussions	Continued discussions	Continued discussions
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6:00 pm Adjourn

Thursday, November 3

8:00 am Continental Breakfast—First and Second Floor Corridors

9:00 am	Session 1 Recommendations	Session 2 Recommendations	Session 3 Recommendations	Session 4 Recommendations	Session 5 Recommendations	Session 6 Recommendations
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10:30 am Refreshment Break—First and Second Floor Corridors

11:00 am	Finalize presentation	Finalize presentation	Finalize presentation	Finalize presentation	Finalize presentation	Finalize presentation
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12:00 pm Lunch—Café (Third Floor)

1:00 pm Session 1-3 Reports and Discussion

2:30 pm Refreshment Break—Grand Ballroom Lobby

3:00 pm Session 4-6 Reports and Discussion

4:45 pm Final Remarks and Closing

5:00 pm Adjourn

Agenda is color-coded to map on last page.