

U.S. Department of
Homeland Security

United States
Coast Guard



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United States Coast
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19 November 2019

MEMORANDUM

From: Ms. Carol Baillie
Executive Director, Interagency Coordinating
Committee on Oil Pollution Research

Reply to: 202-372-2269
Attn of: Ms. Carol Baillie

To: Members, Interagency Coordinating Committee on Oil Pollution Research (ICCOPR)

Subj: FY 2019 FOURTH QUARTER ICCOPR MEETING MINUTES

1. General: ICCOPR held a meeting at the University of Maryland (UMD) College Park in College Park, MD on September 11, 2019. Ms. Carol Baillie called the meeting to order on September 11, 2019, at 9:00 am and it continued until 4:00 pm. Ms. Carol Baillie (USCG) reviewed the agenda (Enclosure 1). Representatives of ICCOPR agencies that were in attendance or on the phone were:

CAPT Ricardo Alonso, ICCOPR Chair, United States Coast Guard (USCG)

Mr. Scott Lundgren, ICCOPR Vice Chair, National Oceanic and Atmospheric Administration (NOAA)

Dr. Candi Hudson, ICCOPR Incoming Vice Chair, Bureau of Safety and Environmental Enforcement (BSEE)

Ms. Carol Baillie, ICCOPR Executive Director, USCG

CDR JoAnne Hanson, USCG

LT Omar Borges, USCG

Mr. Alex Balsley, USCG

Ms. Karin Messenger, USCG

CAPT Gregory Hall, USCG

Dr. Lisa DiPinto, NOAA

Mr. Steve Lehman, NOAA

Mr. Brian Zelenke, Bureau of Ocean Energy Management (BOEM)

Dr. Zhen Li, BOEM

Mr. Robert Smith, DOT Pipeline and Hazardous Materials Safety Administration (PHMSA)

Ms. Vanessa Principe, Environmental Protection Agency (EPA)

Dr. Greg Wilson, EPA

Dr. Robyn Conmy, EPA

Ms. Karen Stone, BSEE

Mr. Dan Eldredge, United States Navy, Naval Sea Systems Command, Office of the Supervisor of Salvage and Diving (SUPSALV)

Guests:

Dr. Tim Nedwed, ExxonMobil

Dr. Michel Boufadel, New Jersey Institute of Technology (NJIT)
Dr. Michael Gollner, UMD
Dr. Peter Sunderland, UMD
Dr. Jim Milke, UMD
Dr. Ariel Stein, NOAA
Dr. Kevin McGrattan, National Institute of Standards and Technology (NIST)

2. Welcome and ICCOPR Opening Remarks

- a. CAPT Ricardo Alonso (USCG) and Mr. Scott Lundgren (NOAA) opened the meeting and welcomed both ICCOPR members and guests.
- A moment of silence was observed in remembrance of the September 11th, 2001 events.

Action Items:

- CAPT Alonso will pass along any information of interest to ICCOPR resulting from the December 2019 EPPR meeting.

3. Welcome from the UMD Department of Fire Protection Engineering

- a. Dr. Jim Milke, Chair of the UMD Department of Fire Program Engineering, welcomed ICCOPR members to the UMD campus. Dr. Michael Gollner also provided welcome remarks and discussed logistical items.

Action Items:

- There were no action items associated with this portion of the meeting.

4. General Updates/Announcements

- a. Ms. Carol Baillie (USCG) provided the following updates/announcements:
- The ICCOPR Biennial Report to congress is currently on track to begin Phase I USCG routing in mid-October. Comments from the report workgroup are being adjudicated. Version 3 of the draft report will follow shortly for ICCOPR membership body review and comments.
 - ICCOPR membership will be evaluated as per the GAO Audit recommendations. The Executive Director will be taking action to begin the process of reviewing agency membership and will seek recommendations from the membership body.
 - FY2022-2027 Research and Technology Plan statement of work is being drafted with Dr. Candi Hudson (BSEE) taking the lead on this effort. Ms. Baillie and Dr. Hudson are working together on this effort.
- b. CAPT Gregory Hall (USCG) informed the membership of a new database of oil properties that is being developed with the support of NOAA and the Coastal Response Research Center.

Action Items:

- There were no action items associated with this portion of the meeting.

5. Overview of UMD Fire Protection In-Situ Burn (ISB) Research: Dr. Michael Gollner and Dr. Peter Sunderland (UMD) provided an overview of ISB research being conducted at the

university. A research portfolio was presented, covering all faculty within the Department of Fire Protection Engineering.

Action Items:

- There were no action items associated with this portion of the meeting.

6. BSEE ISB Burn Efficiency Research: Ms. Karen Stone (BSEE) provided a presentation on BSEE's techniques and technologies to increase in-situ burning efficiencies. The benefits of in-situ burning was discussed as well as its efficiency in oil removal rates. New techniques and technologies to increase combustion volumes while simultaneously decreasing residues and harmful emissions is the goal of BSEE's research.

Action Items:

- There were no action items associated with this portion of the meeting.

7. ExxonMobil-sponsored Developments Related to Oil Spill Prevention and Response: Dr. Tim Nedwed from ExxonMobil's Upstream Research Company provided a presentation on herding agents that enable in-situ burning of oil slicks at sea. An overview of previous research on herding agents was provided as well as a background on requirements for herding agent utilization in an oil spill scenario. Additionally, Dr. Nedwed discussed ExxonMobil's unmanned surface vehicle (USV) emerging technology for oil spill response.

Action Items:

- There were no action items associated with this portion of the meeting.

8. Applying Plume Modeling to Oil Fires and Hazardous Materials: Dr. Ariel Stein (NOAA) provided a presentation on applying plume modeling to in-situ burning scenarios such as Deepwater Horizon. The HYSPLIT atmospheric transport and dispersion model for either accidental or intentional release of hazardous materials to the atmosphere was discussed in detail.

Action Items:

- There were no action items associated with this portion of the meeting.

9. UMD Fire Science Laboratory – Fire Whirl Demonstration: Dr. Michael Gollner (UMD) provided an overview presentation of fire whirls as well as live demonstrations in his laboratory.

Action Items:

- There were no action items associated with this portion of the meeting.

10. Business Meeting: Ms. Carol Baillie highlighted key activities for awareness purposes, to include the ICCOPR Biennial Report, FY2022-2027 Research and Technology Plan, and the Government Accountability Office (GAO) audit.

Action Items:

- Ms. Baillie will be reaching out to National Aeronautics and Space Administration (NASA) to inquire about agency representation for ICCOPR. The agency does not currently have agency representation.
- Ms. Baillie will work on improving ICCOPR coordination with the National Response Team (NRT).

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Enclosures: (1) Meeting Agenda
(2) Presentation Slides