

3rd Symposium on Deep-Sea Oil Spills

December 5, 2019

Hamburg University of Technology

Channel 4 / HS28, room 0.01

Harburger Schloßstraße 28, 21079 Hamburg

09:30 Welcome @ TUHH

Prof. Dr. Ed Brinksma, President of the Hamburg University of Technology

Prof. Dr.-Ing. Michael Schlüter, head of the Institute of Multiphase Flows, C-IMAGE Co-PI

09:45 Keynote Lecture

Hydrocarbon seepage and asphalt deposits at the Campeche-Sigsbee salt province, southern Gulf of Mexico

Gerhard Bohrmann

MARUM - Center for Marine Environmental Sciences and Department of Geosciences, Bremen

10:05 - 12:30 Morning Session

10:05 Amount and Fate of Gas and Oil Discharged at 3400 m Water Depth From a Natural Seep Site in the Southern Gulf of Mexico

Miriam Römer

MARUM - Center for Marine Environmental Sciences and Department of Geosciences, Bremen

10:25 Ultra Deep Oil Spill Modeling: Advances from Ten Years of Deepwater Horizon Science

Claire B. Paris

University of Miami, Rosenstiel School of Marine and Atmospheric Science

10:45 How Energy Dissipation and Degassing Determine Oil Dispersion and Distribution in Submarine Oil Spills

Simeon Pesch

Hamburg University of Technology

11:05 - 11:30 Coffee Break

11:30 Dynamics of live oil droplets and gas bubbles in the deep sea: Aqueous dissolution versus phase transition

Jonas Gros

GEOMAR Helmholtz Centre for Ocean Research, Kiel

11:50 How the deep-sea's high-pressure environment effects oil spills

Fabian Laukotka

Hamburg University of Technology

12:10 The Effect of Upstream Restriction on the Formation of a Free Jet

Craig Booth

University of Western Australia, Perth

12:30 - 12:40 *Group Picture*

12:40 - 13:55 *Lunch Break*

13:55 - 16:20 *Afternoon Session*

13:55 Direct Coupling of Near-field and Far-field Models for prediction of Oil Spill Transport and Fate from Deep-sea Blowout

Ana C. Vaz

University of Miami, Rosenstiel School of Marine and Atmospheric Science

14:15 Bacterial degradation of crude oil at elevated pressure

Max Kschowak

Hamburg University of Technology

14:35 Marine oil snow decomposition and physical fragmentation under controlled laboratory conditions reveal insights into MOSSFA processes

Kai Ziervogel

University of New Hampshire, Durham

14:55 - 15:20 *Coffee Break*

15:20 Origins, spatial distributions, oil budget considerations and a new approach to predicting MOSSFA prone areas to guide future oil spill response and natural resource damage assessment

David J. Hollander

University of South Florida, St. Petersburg

15:40 Trends in enhanced oil and gas recovery – challenges for process safety

Philip Jaeger, Sebastian Schulz

Eurotechnica GmbH, Bargteheide

16:00 Deep sea oil spills: Facing the future

Steven A. Murawski

University of south Florida, St. Petersburg

16:20 - 16:30 *Closing Remarks & End of Symposium*

17:30 *Evening Program: Visit of the “Elbphilharmonie Plaza” (Viewing Platform of the Elbphilharmonie Concert Hall) and Dinner at Restaurant “Gröninger”, Downtown Hamburg*