SAMAP

Submarine Air Monitoring Air Purification Conference

Resurgence in Submarine Shipbuilding

AGENDA



4th - 6th November 2019

Crowne Plaza Newcastle, Newcastle, UK





Sponsored by

Sunday 3rd November

Arrivals

13:00 - 17:00 Registration desk

Monday 4th November

07:30 - 08:30	Registration desk & refreshments
08:45	Welcome address Cpt Martyn Boyes, Royal Navy
09:00 - 10:00	Keynote speaker - Tom Limero Subs in Space, Johnson Space Centre, Houston., USA.
10:00 - 10:30	Atmosphere Monitoring - Assessing functional limits of detection Alan Chapman; Maritime Life Support, QinetiQ, Haslar Marine Technology Park, Gosport, Hampshire, PO12 2AG, UK.
10.30 - 11:00	Refreshments
11:00 - 12:00	A brief history of submarine air quality W. Mazurek; Australia
12:00 - 12:30	Contaminant Detection in the Submarine Environment M. Leist; Defence Science & Technology Group, 506 Lorimer St, Fishermans Bend, Victoria 3207, Australia
12.30 - 13:30	Lunch
13:30 - 14:00	Novel Approaches for the Investigation of Submarine Air Quality

13

A.V. Qualley, B Vaught, L Beardslee, D.M. Fothergill and H.M. Rubenstein; UES, Inc., Air Force Research Laboratory, 711th Human Performance Wing/RHMO, 2510 Fifth Street, Area B, Building 840, Wright-Patterson AFB, OH 45433, USA; United States Navy Naval Submarine Medical Research Laboratory, Naval Submarine Base, Bldg. 141, Trout Ave, Groton, CT 06349, USA; United States Air Force 711th Wing – Air Force Research Laboratory, 711th Human Performance Wing/RHMO, 2510 Fifth Street, Area B, Building 840, Wright-Patterson AFB, OH

14:00 - 14:30 Acute Exposure to Diesel Exhaust Emissions: Irritants

W. Mazurek; Australia

14:30 - 15:00	Refreshments
15:00 - 15:30	Carbon Monoxide Release From Whole Bean Roasted Coffee in Storage Alan McCarrick and Benjamin Letter, Shannon O'Dwyer, Matthew Knighton, Sara Jane Neal
17:00 - 20:00	Evening reception - Boat ride along the River Tyne (17:30 board time - 18:00 sail time)

Tuesday 5th November

09:30 - 10:00	An Evaluation of Monoethanolamine (MEA) Degradation and Mitigation under the Conditions used in Submarine Carbon Dioxide Removal Plants Charles Cummings, Timothy Taylor. QinetiQ, Haslar Marine Technology Park, Gosport, Hampshire, PO12 2AG, UK
10:00 - 10:30	Volatile Organic Compound Interaction with High and Low Temperature Carbon Monoxide/Hydrogen Oxidation Catalysts Gareth Toft, Charles Cummings and Tina Goodall; QinetiQ, Haslar Marine Technology Park, Gosport, Hampshire, PO12 2AG, UK and Ministry of Defence (MOD), Abbey Wood, UK
10:30 - 11:00	Refreshments
11:00 - 11:30	Design Improvements to the MPOG Oxygen Generator Peter Hutchinson, Molecular Products, Parkway, Harlow, Essex, UK
11:30 - 12:00	Monitoring the CO ₂ Levels within a CO ₂ Scrubber to give an Indication as to when to Change the Scrubber M.Richardson, Analox Sensor Technology, 15 Ellerbeck Court, Stokesley Business Park, Stokesley, North Yorkshire, UK, TS9 5PT
12:00 - 12:30	Test Results of two New Non-Regenerative Carbon Dioxide Scrubbers Peter Row and Thomas Daley; TPG Maritime Ltd., UK; and Micropore Inc., USA
12:30 - 13:30	Lunch
13:45	Buses depart for trip to HMS Trincomalee
16:00	Return to host hotel, evening on own

Wednesday 6th November

09:30 - 10.30	Open forum discussion on the future of submarines Facilitated by W. Mazurek and V. Pigg
10:30 - 11:00	Refreshments
11:00 - 12:00	Open forum discussion Facilitated by W. Mazurek and V. Pigg
12:00 - 12:30	A History of ${\rm CO_2}$ Scrubbing onboard Walrus Class Submarines Toon Mariën, Ministry of Defence, NL
12:30 - 13:30	Lunch
13.30 - 14:00	Why use a DSVDS for Submarine Rescue? Jos Bogaert; SMERAS Consultant. Den Helder, The Netherlands
14:00 - 14:30	Closing speeches Cdr Gill & W. Mazurek