PRELIMINARY SAMAP AGENDA - 2017

Monday, November 13, 2017:

- Arrivals
- 1:30 pm to 5:00 p.m. - Registration Desk
- Stop by to check in and pick up a packet of information

Tuesday, November 14, 2017:

- 7:30 a.m. - Registration desk open
- 7:30 a.m. to 8:45 a.m. - Breakfast (Vouchers provided in your packet for the Seasons restaurant buffet)
- Meeting Session / Exhibits / Lunch

08:45 WELCOME ADDRESS
  Wally Mazurek (Covenor)
  Bob Scagni and Mark Lantzakis ((UTAS)
  Joshua Manney (NSWC Philadelphia)

09:00 INTRODUCTION AND KEYNOTE LECTURE
  RDML(sel) David A. Goggins (US NAVY)

AIR MONITORING SESSION  Chair: Lucio Ricciardi and Tom Limero

10:00 ATMOSPHERE MONITORING – EQUIPMENT ACCEPTANCE PROCESS. Peter Armstrong* and Charles Cummings; *MOD and QinetiQ, UK

10:30 ANITA2 – THE ADVANCED MULTICOMPONENT INTERNATIONAL SPACE STATION (ISS) AIR ANALYSER FOR USE IN SUBMARINE ENVIRONMENTS. PART 1: SYSTEM AND PROJECT OVERVIEW. Timo Stuffer*and Atle Honne; °OHB System AG, Oberpfaffenhofen, Germany, ° SINTEF, Oslo, Norway

11:00 Coffee Break / Exhibits

11:30 ANITA2 – THE ADVANCED MULTICOMPONENT INTERNATIONAL SPACE STATION (ISS) AIR ANALYSER FOR USE IN SUBMARINE ENVIRONMENTS. PART 2:
EXPERIENCE FROM THE ISS. Atle Honne* and Timo Stufler°; *OHB System AG, Oberpfaffenhofen, Germany, ° SINTEF, Oslo, Norway.

12:00 PREPARATION OF THE NASA AIR QUALITY MONITOR FOR A U.S. NAVY SUBMARINE SEA TRIAL. Thomas Limero¹, William T. Wallace¹ Joshua A. Manney², Matthew J. Smith², Sara Jane O’Connor³ and Paul D. Mudgett⁴. ¹KBRwyle, Houston, TX 77058, ²Naval Warfare Center Philadelphia Division, Philadelphia, PA 19112, ³Naval Sea Systems Command, Washington Navy Yard, DC 20376, ⁴NASA Johnson Space Center, Houston, TX 77058.

12:30 DEVELOPMENT OF A 2ND GENERATION MULTI-GAS MONITOR FOR ISS AND ORION. Paul D. Mudgett*, Mary R. Coan* and Jeffrey S. Pilgrim. *NASA Johnson Space Center, Houston, TX 77058, Pilgrim Vista Photonics Inc. Las Cruces, NM.

13:00 Lunch

14:00 ATMOSPHERE MONITORING OF 30 GAS SPECIES ON A SUBMARINE USING COTS SENSORS. Mr. Mark Elkin and Mr. William Mark Lewis

14:30 BEHAVIOR OF DRÄGER TUBES UNDER CONDITIONS OF ELEVATED PRESSURE, PAST EXPIRATION DATE AND LOW LIGHT. Alan McCarrick and Benjamin Letter. Naval Surface Warfare Center Philadelphia Division Submarine Life Support (NSWCPD) Code 416

15:00 RETROSPECTIVE ANALYSIS TECHNIQUES FOR THE SUBMARINE ENVIRONMENT. M. Leist, DST, Department of Defence, Australia.

15:30 Coffee Break / Exhibits

16:00 POTENTIAL FOR DERMAL EXPOSURE TO CHEMICALS IN THE SUBMARINE ENVIRONMENT. W. Mazurek, Australia.


18:00 – 20:00 – RECEPTION (HOR D’OUVERS / DRINKS) IN EXHIBIT AREA

Wednesday, November 15, 2017:

Exhibition & Meetings

AIR PURIFICATION SESSION
CHAIR: Joshua Manney, Tom Daley

09:00 AIRBUS DEFENCE AND SPACE AIR PURIFICATION SYSTEMS. Lutz Schauer and Günther Dorst. Airbus Defence and Space GmbH, Germany.

09:30 THE VORTEX: A NON-POWER ACTIVE CARBON DIOXIDE (CO2) SCRUBBER SYSTEM FOR ENCLOSED ENVIRONMENTS. Nurul Alam* and Mike Clarke. Molecular Products, Plc., UK

10:00 FUTURE CO2 CONTROL USING MICROPORE POWCUBE ABSORPTION ONBOARD HNLMS SUBMARINES (DEVELOPMENT UPDATE). Jos Bogaert*, Tom Daley and Rick Oddo. *Royal Netherlands Ministry of Defence; Micropore Inc., USA.

10:30 Coffee Break / Exhibits

11:00 REGENERATIVE AND NON-REGENERATIVE CARBON DIOXIDE REMOVAL SYSTEMS FOR USE IN SUBMARINES. P. Row and A. Buxcey. TPG Maritime, UK


12:00 MODULAR ADVANCED CARBON DIOXIDE REMOVAL UNIT (MACRU) FOR INTEGRATION WITH DIESEL- ELECTRIC & AIP SUBMARINES. Benjamin E. Bishop, Jr. United Technologies Aerospace Systems (UTAS), USA.

12:30 POWER AND VOLUME SAVINGS THROUGH THE INCORPORATION OF LOW TEMPERATURE CATALYTIC OXIDATION OF HYDROGEN, CARBON MONOXIDE AND METHANE FOR SUBMARINES. Ping Yu and Timothy Nalette. United Technologies Aerospace Systems (UTAS), USA.


13:30 Lunch

14:30 Buses depart

15:00 – 17:00 – Tour US Navy Submarine force Museum

17:00 – Return to Hotel – Dinner on own

Thursday, November 16, 2017

9:00 ATMOSPHERIC IMPACT ON-BOARD SUBMARINES FROM COMBUSTION OF MARINE POLYMERS Alan D Chapman, Stephen Woods and Charles Cummings, QinetiQ, UK
09:30  FURTHER DEVELOPMENTS WITH NON-POWERED OXYGEN GENERATORS IN THE UK SUBMARINE SERVICE.  Alex Goodall. MoD Abbey Wood, Bristol, UK

10:00  ELECTROCHEMICAL CAPTURE OF CARBON DIOXIDE FROM AIR FOR LIFE SUPPORT IN CLOSED ENVIRONMENTS  Stephen Szymanski*, Katherine Ayers and Wayne Gellett.  *Proton OnSite, Wallingford, CT, USA.

11:00  GOLD CATALYST FOR LOW TEMPERATURE POLLUTANT ABATEMENT.  Marius Tarrès, Raquel Osuna and Ernest Mendoza.  Astrea Materials S.L Barcelona, Spain

11:30  INCREASED UTILIZATION OF NON-STRATEGIC METALS FOR PEM ELECTROLYZERS.  Stephen Szymanski*, Katherine Ayers, Luke Dalton and Thomas Jaramillo.  *Proton OnSite, Wallingford, CT; USA, Stanford University, CA. USA

12:00  Closing Remarks

12:30  Departures