

## SCHEDULE: UHMS BREAKOUT

Subject to change: as of 1/27/22

SUNDAY, MAY 22			
7:00 AM	8:00 AM	Registration and continental breakfast for Pre-courses	
8:00 AM	5:00 PM	PRE-COURSE: The ORCA Project: Operational Resilience and Cognitive Awareness: Jim Chimiak, MD; Dick Sadler, MD and Charlotte Sadler, MD	
8:00 AM	5:00 PM	PRE-COURSE: Wound Care for the Hyperbaric Provider: Scott Robins, DO; Andrew Moffat, DO and Brenda Freymiller, BSN, CWOCN, CWS	
12:00 PM	1:00 PM	Lunch (on own)	
6:30 PM	8:30 PM	Welcome Reception with AsMA	
MONDAY, MAY 23			
7:00 AM	8:00 AM	Registration and continental breakfast	
8:00 AM	8:30 AM	<b>Opening Ceremony / Welcome with AsMA</b>	
8:30 AM	9:30 AM	<b>Bauer Lecture with AsMA</b>	
9:30 AM	10:30 AM	AsMA-UHMS Exhibits / Break	
10:30 AM	12:00 AM	<b>UHMS Kindwall Keynote with AsMA:</b> Decision making for HBO <sub>2</sub> for brain injury: Lindell Weaver, MD	
12:00 PM	2:00 PM	Lunch (on own)	
2:00 PM	2:30 PM	<b>Plenary:</b> Protocols for Space Walk: Neal Pollock. PhD	
2:30 PM	3:00 PM	<b>Plenary:</b> The Hyperoxic-Hypoxic Paradox and its Application in Regenerative Medicine: Shai Efrati, MD	
3:00 PM	3:10 PM	<b>A1:</b> Astrocyte-derived microparticles initiate a neuroinflammatory cycle due to carbon monoxide poisoning: Stephen Thom, MD	Posters B16-B30
3:10 PM	3:20 PM	<b>A2:</b> Oxidative Stress after Administration of Oxygen at Different Pressures and Concentrations: Enrico Camporesi, MD	
3:20 PM	3:30 PM	<b>A4:</b> GABA and oxidative brain injury: Heath Gasier, PhD	
3:30 PM	4:00 PM	AsMA-UHMS Exhibits / Break	
4:00 PM	4:30 PM	<b>Plenary:</b> CMS Billing Records of Hyperbaric Oxygen for Radiation Cystitis Reveal Some Interesting Findings: John Feldmeier, DO	
4:30 PM	4:40 PM	<b>B9:</b> Retrospective cohort study of thyroid, bowel, and autoimmune diseases after carbon monoxide poisoning: Lindell Weaver, MD	Posters C46-D60
4:40 PM	4:50 PM	<b>B10:</b> Determining the recovery rate of hearing thresholds across audiometric frequencies with use of hyperbaric oxygen treatment: Nicole P. Harlan, MD	
4:50 PM	5:00 PM	<b>B11:</b> A cardiovascular strategy for management of carbon monoxide-poisoned patients: Sue Churchill, NP	

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5:00 PM	5:10 PM	<b>B12:</b> Hyperbaric oxygen treatment appears to be safe for patients with severe COVID-19 and moderate ARDS. Interim safety results from the clinical trial COVID-19-HBO: Anders Kjellberg, MD	Posters B31-C45
5:10 PM	5:20 PM	<b>B13:</b> Retrospective analysis of radiation cystitis: mortality and transfusion requirements with and without hyperbaric oxygen: Kayla Deru	
5:20 AM	5:30 PM	<b>B14:</b> Hyperbaric oxygen therapy for the treatment of perianal fistulas in 20 patients with Crohn's disease: results of the HOT-TOPIC trial after 1-year follow-up: CA Lansdorp, MD	
<b>TUESDAY, MAY 24</b>			
7:00 AM	8:00 AM	Registration / continental breakfast / Vendors	
8:30 AM	8:45 AM	<b>Announcements with AsMA</b>	
8:45 AM	10:00 AM	<b>Reinhart Panel with AsMA (shared history)</b>	
10:00 AM	10:30 AM	AsMA-UHMS Exhibits / Break	
10:30 AM	11:00 AM	<b>Plenary:</b> DCS/bubble dynamics and related content: Michael Gernhardt, PhD	
11:00 AM	11:30 AM	<b>Plenary:</b> Filling the Gaps - Future Navy Diving Needs: Capt. David Regis, MD	
11:30 AM	12:00 AM	<b>Plenary:</b> Enhancing Safety through Mishaps and Significant Incidents Lessons Learned: Jon Clark, MD	
12:00 PM	2:00 PM	Lunch (on own)	
2:00 PM	2:10 PM	<b>B15:</b> Oxygen Dose: A new perspective: Kent MacLaughlin, MD	Posters D61-D75
2:10 PM	2:20 PM	<b>C32:</b> Gas Bubble Mechanics in the Spinal Cord: Jens-Christian Meiners, PhD	
2:20 PM	2:30 PM	<b>C33:</b> Decompression sickness rates in underwater divers utilizing air surface decompression vs. oxygen surface decompression: Christine Lee	
2:30 PM	2:40 PM	<b>C34:</b> Capsule Project: A physiological survey during 3 days of shallow saturation dives in a very limited space: Emmanuel Dugrenot, PhD	Posters D76-F89
2:40 PM	2:50 PM	<b>C35:</b> SWEN 21 the approach to suggest new air dive tables for the Swedish Armed Forces: Marten Silvanus	
2:50 PM	3:00 PM	<b>D51:</b> Shared Medical and Performance Challenges in the Naval Undersea and Aerospace Operational Domains: Ben Lawson, PhD	
3:00 PM	3:10 PM	<b>D52:</b> Evaluations of Divers after COVID-19 Infection: Charlotte Sadler, MD	Posters A1-B15
3:10 PM	3:20 PM	<b>D53:</b> DAN looks at longitudinal return to diving and vaccination results from divers with COVID-19 infection: Frauke Tillmans, PhD	
3:20 PM	3:30 PM	<b>E79:</b> High Oxygen Tension Takes Its Toll: Disparate Effects of Hyperbaric Oxygen and Hyperoxia on Viral Entry Gene and Toll-like Receptor Pathway Gene Expression in Normal and COPD-Diseased: Yu-Chia Tsao, RRT	
3:30 PM	4:00 PM	AsMA-UHMS Exhibits / Break	

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4:00 PM	4:10 PM	<b>D54:</b> Chest CT analysis of lung cysts after SARS-COV-2 / <b>D58:</b> Prevalence of underlying lung cysts by chest computed tomography: Lin Weaver, MD	
4:10 PM	4:20 PM	<b>D62:</b> The effect of arterial bubbles on cerebral autoregulation in humans: Simon Mitchell	
4:20 PM	4:30 PM	<b>D64:</b> Arterial blood gas measurements during deep open-water breath-hold dives. Tom Scott	
4:30 PM	5:00 PM	<b>Plenary:</b> TBD	
5:00 PM	5:30 PM	<b>Plenary:</b> Manned Testing of Rapid Pressure Fluctuations Associated with Naval Aviation Physiological Events (PE): LT Travis Doggett	
<b>WEDNESDAY, MAY 25</b>			
7:00 AM	8:30 AM	Registration / continental breakfast / Vendors	
8:30 AM	10:00 AM	<b>UHMS Lambertsen Keynote with AsMA:</b> Undersea Medicine is Out of this World! - Hyperbaric Medical Support at NASA's Neutral Buoyancy Lab: Bob Sanders, MD	
10:00 AM	10:30 AM	AsMA-UHMS Exhibits / Break	
10:30 AM	11:00 AM	<b>Plenary:</b> Update on Emergency use of HBO <sub>2</sub> and what if any traction we've received though our congressional efforts: Richard Moon, MD	
11:00 AM	11:10 AM	<b>E80:</b> Hyperbaric Oxygen Exposure Disparately Affects Lineage-Specific and Apoptosis-Associated Marker Expression in Differentiated Normal and COPD-Diseased Human Bronchial Epithelial Cells: Fang-Chang Lin	
11:10 AM	11:20 AM	<b>E81:</b> Quantification of indications received at two emergency-capable hyperbaric medicine centers: Michael Tom, MD	
11:20 AM	11:30 AM	<b>B20:</b> Hyperbaric oxygen therapy improves symptoms, brain's microstructure and functionality in veterans with treatment resistant post-traumatic stress disorder: Keren Doenyas-Barak. MD	
11:30 AM	11:40 AM	1-10 min fellow oral lecture	
11:40 AM	11:50 AM	1-10 min fellow oral lecture	
11:50 AM	12:00 PM	1-10 min fellow oral lecture	
12:00 PM	2:00 PM	Lunch (on own)	
2:00 PM	2:10 PM	<b>F88:</b> Electroencephalogram functional connectivity is sensitive for nitrogen narcosis in air breathing at 608 kPa: Xavier Vrijdag, PhD	
2:10 PM	2:20 PM	<b>F89:</b> Comparison between arterial blood gases, SpO <sub>2</sub> and ORI in a scuba diver breathing air: Enrico Camporesi, MD	
2:20 PM	2:55 PM	<b>Plenary:</b> UHM Fellows: Top articles in Undersea Medicine: Ian Kirby, MD: UCSD Fellow	
2:55 PM	3:30 AM	<b>Plenary:</b> UHM Fellows: Top articles in Hyperbaric Medicine: Russell Gray, MD: Brooke Army Medical Center Fellow	
3:30 PM	4:00 PM	AsMA-UHMS Exhibits / Break / UHMS Business Meeting	

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4:00 PM	5:30 PM	<b>RAM Bowl with AsMA</b>	
<b>THURSDAY, MAY 26</b>			
7:00 AM	8:15 AM	Registration / continental breakfast	
8:15 AM	9:15 AM	<b>Armstrong Lecture with AsMA</b>	
9:15 AM	10:00 AM	Break	
<b>ASSOCIATES BREAKOUT SESSION</b>			
10:00 AM	10:30 AM	<b>B31:</b> Under Pressure: A Case Study of Violence While at Depth in the Hyperbaric Chamber: Beth Cipra, DNP, RN, APRN-CNS, CCRN-K	
10:30 AM	11:00 AM	<b>E87:</b> Pneumatic Device to Assist Patients with Middle Ear Pressure Equalization: Geness Koumandakis, RRT	
11:00 AM	11:30 AM	<b>E86:</b> Pneumatic Device from Respiratory Care Equipment to Assist Patients with Middle Ear Pressure Equalization: Fredric Ashton, RRT	
11:30 AM	1:30 PM	Lunch (on own)	
1:30 PM	2:00 PM	<b>E82:</b> ZOLL Z-Vent Ventilator Use Under Hyperbaric Conditions: Greg Brown, CHT	
2:00 PM	2:30 PM	<b>E83:</b> Recruitment and Retention Outcomes in a Study on Hyperbaric Oxygen for Persistent Symptoms after Brain Injury: Rosemary Ziernik	
2:30 PM	3:00 PM	Gunshot Testing to A Pressurized Monoplace Hyperbaric Chamber: Lindell Weaver, MD	
3:00 PM	3:30 PM	break	
3:30 PM	4:00 PM	Infection Prevention in the Hyperbaric Environment: Gus Gustavson, RN	
4:00 PM	4:30 PM	COVID and the pediatric patient: Jay Duchnick, RN	
4:30 PM	5:00 PM	TBD	
6:00 PM	9:00 PM	AsMA / UHMS honors night	
9:00 PM	12:00 PM	AsMA / UHMS after party	