

The ORCA Project: Operational Resilience and Cognitive Awareness

SCHEDULE: Sunday, May 22, 2022

The Problem: An overview of accident and excess risk:		
0800-0815	Welcome/ Introduction to ORCA	Jim Chimiak, Dick Sadler, Frauke Tillmans
0815-0840	Lessons in cognitive awareness	Dick Sadler
Accidents, Cognition and Safety Interface:		
0840-0900	Operational Diving Resilience: From simple to complex	Michael Lang
0900-0930	Diving incident reporting at DAN and the vision of participative learning	Frauke Tillmans
0930-0945	BREAK	
Cognitive Psychology vs Cognitive Systems		
0945-1015	Using human factors to mitigate risk and improve operational effectiveness	LCDR Matt Shipman
The Sharp End:		
1015-1045	“Stay Alert, Stay Alive” Increasing SCUBA Diver Survivability: A Navy SEAL’s Hot Tips for Diving Safety	CAPT Henry Casey
1045-1115	Human factors lessons learned is subsea and space operations	Michael Gernhardt
1115-1145	Operational Risk Management Lessons from Aerospace Operations	Jon Clark
1145-1230	LUNCH	
Improvement Tools:		
1230-1300	Lessons from breath-hold diving	Kirk Krack
1300-1330	ORCA dashboard (DD/DABOS/GAR)	Jim Chimiak LT Josh Fredrick
1330-1345	BREAK	
1345-1415	The USN Experience	CAPT David Regis
1415-1435	Potential Needle-Movers for Recreational Diving	Karl Shreeves
1435-1455	The Secret to Teaching Human Factors in Scuba Diving	Jeff Seckendorf
1455-1520	From accident cause analysis to injury prevention	Petar Denoble
1520-1550	Saving lives in diving: lessons from checklists in healthcare	Simon Mitchell
1550-1730	SUMMARY	Tillmans, Sadler, Mitchell

The goal of this course will be to address issues surrounding diving incidents and fatalities. Discussion of human factors concerns will be a part of the course.

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CONTINUING EDUCATION

Accreditation Statement: The Undersea and Hyperbaric Medical Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Designation Statements:

- **Physician CME:** The Undersea and Hyperbaric Medical Society designates this live activity for a maximum of **8** *AMA PRA Category 1 Credit(s)[™]*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
- **Nursing CEU:** Approved license types: Advanced Registered Nurse Practitioner; Clinical Nurse Specialist; Licensed Practical Nurse; Registered Nurse; Certified Nursing Assistant; Respiratory Care Practitioner Critical Care; Respiratory Care Practitioner Non-Critical Care; Registered Respiratory Therapist; Certified Respiratory Therapist. This live activity is approved for **8** contact hours by the Florida Board of Registered Nursing Provider #50-10881.
- **NBDHMT:** The NBDHMT does not recognize this educational program as meeting their requirements and scope for credit.

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