



Beneath the Sea
March 29, 30, 31, 2019
Meadowlands Exposition Center
Secaucus, New Jersey



Diving Science Symposium Beneath the Sea 2019



This year's Diving Sciences Symposium will present the most up-to-date information on Dive Medicine, Dive Safety and Dive Technology. Information is relevant to the entire Diving Community. All members of the Diving Community who attend will gain insight and the most up-to-date information on pertinent topics: Diving Leadership, Diving Safety Officers, Technical, Recreational, Public Safety Scientific, Commercial and Military Divers. Leaders in the field of Dive Medicine, Dive Safety and Dive Technology will lead the conversation.

This program is designed and appropriate for both medical and nonmedical divers. The program is approved by the Undersea and Hyperbaric Medical Society for a maximum of 5.5 AMA PRA Category 1 Credits (CME) Location: Meadowlands Expo Center Fee: \$85 Lunch will be included.

David Charash DO, CWS,FACEP, FUHM

"In Water Diving Emergencies" A review of common in-water emergencies both of descent and ascent will be reviewed. Recognition as well as treatment considerations will be discussed. Detailed discussion will include possible measures to reduce diving injury.

Dan Orr

"Risk Versus Reward". This presentation reviews the published diving accident and fatality data from the Divers Alert Network (DAN) Annual Diving Report along with other sources of data to identify risks in various types of recreational scuba diving. Problem issues derived from the analysis of actual diving accidents will be identified and discussed. These critical safety issues include triggering events that could initiate a cascade of actions leading to a diving accident. Analyzing these triggering events and other causative factors in diving accidents will lead to recommendations on how to identify and mitigate risks in order to maximize enjoyment.

Carla Reynaldo DO

"Medical Fitness For Technical /Cave Divers" Understanding medical fitness requirements are key to maintaining one's health as a technical and/or cave diver. A review of common medical conditions that can effect dive safety will be presented. A review of established accepted medical criteria will be discussed.

Art Torre MD

"Pulmonary Fitness And Diving" Understanding how Boyle's Law relates to pulmonary fitness. Learn why asthma is a relative contraindication for scuba and which asthmatics can safely dive. Pulmonary immersion edema: diagnosis, prognosis and treatment will also be covered.

Bill Simpson DMT, CHT, EMT

"Pre-Hospital Management Of Diving Injuries" Guidelines to managing recognized diving injuries will be discussed. Pre-hospital strategies will be reviewed and recommendations for appropriate first aide gear will be discussed.

FOR IMMEDIATE RELEASE

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COMMON EAR NOSE AND THROAT CONDITIONS DIVERS EXPERIENCE

Michael Rothschild MD

Michael Rothschild MD is a Board Certified Pediatric Otolaryngologist and Clinical Professor and Director of Pediatric Otolaryngology at Mt. Sinai School of Medicine.

Abstract- Dr Rothschild will give an overview of common Ear Nose and Throat (ENT) conditions divers face of descent and of ascent. As otic barotrauma is the most common medical complaint divers experience, thus is a must attend lecture.

Objectives:

- Describe the most common ENT conditions of descent
- Describe the most common ENT conditions of ascent
- Differentiate common ENT conditions from that of decompression illness

MEDICAL AND LEGAL ASPECTS OF DIVING

Lieutenant Parenteau MD/JD USN

Michael Parenteau MD/JD is an Undersea Medical Officer at the Naval Undersea Medical Institute (NUMI). He teaches physicians early in their careers how to care for Submariners and Navy Divers around the world. In addition Lt. Parenteau acts as legal adviser to his organization.

Abstract- A greater understanding of the medical and legal aspects of diving will be reviewed. As a diver we have both ethical and legal responsibilities to safely dive. Our subject matter expert will use real dive cases to illustrate key issues.

Objectives:

- Understand medic legal risk when a diver signs the RSTC medical evaluation form
- Understand the Good Samaritan laws that can affect us in the United States, as well as any protections internationally when we either offer assistance or decline offering assistance
- Real case studies in medical legal aspects of diving.

DECOMPRESSION STRESS AND WHAT EVERY DIVER NEEDS TO KNOW!

Jawad Hassan MD

Jawad Hassan MD is an attending physician at the University of Pennsylvania who has formally trained in Hyperbaric Medicine. He works at the UPenn Hyperbaric Chamber offering care of the critically injured diver

Abstract- It is important every diver understands the relationship between decompression stress and dive safety. Creating a better understanding will help lower our risk for illness or injury

Objectives:

- Common theories of decompression illness will be reviewed
- Overview of multiple variables in decompression stress
- Risk analysis and risk reduction will be applied to a dive safety plan in an effort to decrease our risk for decompression stress

DIVING IN HAZARDOUS AND UNIQUE ENVIRONMENTS

Grace Landers LCDR MC USN (UMO/DMO)

USN COMNAVSPECWARGRU 3 (US)

Emergency Medicine Resident

Naval Medical Center Portsmouth

Commander Grace Landers MD is an Undersea Medical Officer/ Dive Medical Officer in the United States Navy. Her unique training and diving experience makes her a subject matter expert in Diving in Unique Environments

Abstract- Diving offers a unique environment as well as unique challenges. Diving in potentially or known hazardous environments have challenges that need to be overcome to increase our safety profile

Objectives:

- The expected and unexpected hazards of diving will be reviewed
- The following unique environments will be discussed
“Ice Diving, Submarine Escape Training, Black Water Diving”
- Safety Planning and Risk Reduction