

Beneath the Sea Diving Sciences Symposium 2017

David Charash DO, CWS,FACEP,UHM

Dr Charash is a Board Certified Physician in Undersea and Hyperbaric Medicine. He is actively engaged in the practice of Diving and Hyperbaric Medicine. Cardiac Fitness: An overview of common heart conditions. Effects of the underwater environment and how this can affect underlying medical conditions will be reviewed. Various cardiac medical conditions will be risk-stratified to help the attendee understand when it is safe to dive, or when it is safe to return to diving.

Petar J. Denoble, MD., D.Sc. Senior Research Director – DAN. Dr. Denoble helps develop new studies about dive safety, oversees ongoing studies and monitors their progress. He currently leads Project Dive Exploration, the DAN fatality, incident and injury database and the patent foramen ovale (PFO) study. Decompression Stress and Dive Outcome: Decompression after compressed gas diving exposes divers to stress caused by supersaturated tissues releasing free gas. This presentation will focus on indications and measures of that stress and how it relates to acute decompression sickness and possible long term adverse health effects.

Lieutenant Parenteau MDJD & TJ Frieman PO 2nd CL. Diving Medical Tech. Lieutenant Parenteau 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. Petty Officer Second Class TJ Friedman is a Diving Medical Technician in the US Navy. He is trained in how to respond to a dive side casualty and also instructs Submarine Independent Duty Corpsman in emergency medical response at NUMI.

Field Emergencies: Emergencies commonly encountered in the field and how to treat them on the dive side. Addresses environmental concerns from stages of hypothermia and heat illness to lightning strikes; also included diving at altitude, and dangerous marine life. A discussion of pros-cons of various field kits to respond to emergencies.

Dan Orr A Principal in Dan Orr Consulting. He has served as President of Divers Alert Network (DAN) and is globally recognized for his many years dedicated to diver safety. Dive Safety Planning: An overview of Dive safety and prevention will be discussed, including equipment and maintenance, emergency assistance plans, and evacuation, as well as emergency recognition and prevention.

Dr. McKay Medical Toxicologist, currently serving as President of the American College of Medical Toxicology and the Medical Director of the CT Poison Control Center. A recreational diver, medical officer for the Hartford Hospital Center for Wound Healing and Hyperbaric Medicine for more than a decade, providing patient care for various injuries.

Hazardous Marine Life: Hazardous marine life comes in many forms and results in a variety of medical complaints/conditions. Journey from shore entry to post-dive meal, finding examples of marine hazards along the way - as well as practical measures to avoid injuries while still enjoying the trip.

Bernie Chowdhury, BA, CHT-A Hyperbaric board-certified since 2004, Bernie has put together and obtained CME approval for Introductory Hyperbaric Medicine Courses, and for the BTS Diving Sciences Symposium. He is best known worldwide as author of THE LAST DIVE (HarperCollins, non-fiction, 2000) which has been published in eleven (11) languages and is still available.

Diving Accident Presentations: Have diving accidents changed in nature since 1970? Bernie will examine and compare his Wreck Diving Accident Analysis, 1970-1990 (conducted in affiliation with the late John McAniff, Director, National Underwater Accident Data Center, URI) with modern DAN accident reports. Particularly interesting is increased rebreather use and how this impacts accidents.

Nasreen S. Haque, Ph.D. A cellular and molecular biologist and Associate Professor in the Department of Pathology, New York Medical College (Valhalla, NY). She and NYMC hold a stem cell patent. She is also Director of Genomic Observatory, a non-profit, and conducts research globally in the search for microbes that may be pharmacologically beneficial.

Poster Session (NEW!) Dr. Haque will guide the presentation of abstracts from accepted posters.

