

Diving Sciences Symposium  
March 24<sup>th</sup> 2023  
8:30 am to 4:30 PM

The Diving Sciences Symposium offers the most up-to-date information on Dive Safety, Technology, and Medicine. Intended audience: all divers, including: Recreational, Technical, Scientific, Public Safety, Commercial, and Military. Diving Instructors, Assistant Instructors, Divemaster, Diving Safety Officers, and Dive Club members; also: health care providers, including Physicians, EMT's, DMT's, Paramedics, Physician Assistants, Nurse Practitioners, and Technicians. The topics are given by leading subject matter experts in the fields of Dive Medicine, Dive Safety and Dive Technology. This program is cosponsored by the Undersea and Hyperbaric Medicine Society (UHMS) and Dive Medicine and Hyperbaric Consultants.

***Topics and speakers this year will include:***

**Diving Safety by Dan Orr**

*Dan Orr*, past President of Divers Alert Network (DAN), recently published *101 Tips for Recreational Divers*. Dan is a BTS Diver of the Year, a member of the Explorers Club, Hall of Fame for Disabled Divers, the Diving Industry Hall of Fame, and the International Scuba Diving Hall of Fame.



**Medical Fitness and Diving”: Current Guidelines by Aurel Mihai DO**

*Dr Mihai* is Board Certified in Family Medicine and Undersea and Hyperbaric Medicine. He has completed fellowship training in Undersea and Hyperbaric Medicine at the State University of New York Upstate Medical University. He has completed the NOAA Dive Medicine Physician Training, and works as a Wound and Hyperbaric Physician at the Concord Hospital New Hampshire. Dr Mihai is a recreational diver.



## Technical Diving: Medical Fitness and Training by Frauke Tillmans PHD

*Frauke Tillmans* PhD is the Research Director at Divers Alert Network (DAN). She has a degree in Human Biology and a PhD specializing in oxidative stress which is involved in acute diving injuries and may affect long term health of divers. Throughout her career she has participated in global collaborative projects covering decompression stress, inert gas narcosis, and oxygen toxicity. Before coming to DAN in 2019, Frauke conducted her research in the Experimental Medicine Section of the German Naval Medical Institute.

In addition to her research experience, Frauke is also an experienced public safety diver, scientific diving supervisor and dive safety officer and has recently discovered her passion for cave diving. Tillmans' commitment to safety is apparent in almost every activity she pursues and when she is not diving or supervising researchers, Frauke is an active volunteer fire fighter who enjoys endurance and self-defense training.



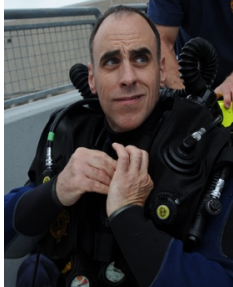
## Diving Science and Expeditions by Richie Kohler Ocean Explorer/Expedition Leader

*Richie Kohler* is an author and shipwreck explorer whose 40 years of underwater research and shipwreck exploration have taken him to all corners of the globe. Detailed in documentary films and in the NY Times best-selling book, *Shadow Divers*, by Robert Kurson, Kohler's diving adventures have inspired new generations of divers to explore the underwater world. Working both in front and behind the camera, Richie Kohler has reached an international audience, having hosted fifty-six episodes of "Deep Sea Detectives" for the History Channel and numerous other documentary films on networks such as National Geographic, Discovery, Animal Planet, BBC, Smithsonian and NOVA/PBS. These educational and entertaining programs have detailed his exploits and discoveries on some of the most famous shipwrecks in the world, including the *Andrea Doria*, RMS *Titanic*, and the HMHS *Britannic*. Working alongside some of the most talented film makers and screen writers of our time, Kohler has consulted with major film studios such as Twentieth Century Fox, Paramount and Universal Studios on major motion picture projects and scripts, helping to promote recreational scuba diving and the world of underwater exploration.



## **Saturation Diving by Louis Deflice USNR**

*Louis Deflice* is a retired US Navy Master Diver with more than 30 years' involvement in military diving operations. He has extensive experience in; SCUBA, closed circuit rebreathers, surface supplied, saturation, salvage and underwater repair. He is currently head of the Naval Submarine Medical Research Laboratory's Diving and Hyperbaric Department.



## **Diving Injury & Diving Fatality by Camilo Saraiva MD**

*Camilo Saraiva, MD, MBA*, is the Director of Medical Services at DAN. Board Certified in Radiation Oncology and Hyperbaric Medicine; Former director of the Brazilian Hyperbaric Medical Society; Current member of the Undersea and Hyperbaric Medical Society and the American College of Healthcare Executives. Former cave diver and PADI Divemaster since 2000.



## **Medications and Diving by David Charash DO**

*David Charash DO, CWS, FACEP, FUHM* is owner of Dive Medicine and Hyperbaric Consultants. He has worked in the Hyperbaric, Dive Medicine and Wound Care Space for 30 years. He is a NOAA Dive Medicine Physician, DAN Referral Physician and DAN Instructor. He has lectured Nationally and Internationally on all topics of Dive Medicine, Dive Safety and Dive Technology. He has been recognized for dedicated teaching and support of the United States Navy Undersea Community. He was recognized as the DAN/Rolux Diver of the Year for 2022. Dr Charash has promoted Diving Safety through his Diving Sciences Symposiums and is the Host of the Podcast "Fitness in Diving" available on Apple and Spotify.

