



School of Medicine  
TEMPLE UNIVERSITY®

*presents the*

**42 nd Annual**

**UNDERWATER**

**MEDICINE**

**Course**

**January 16-23**

**2016**

in collaboration with the  
Undersea and Hyperbaric  
Medical Society

Anse Chastanet Resort  
Saint Lucia

# TEMPLE UNIVERSITY UNDERWATER MEDICINE 2016

A training program in diving medicine designed with special emphasis on diagnosis and treatment of diving disorders, fitness for diving and hyperbaric oxygen therapy. This program is certified for *25 AMA PRA category 1* credits through Temple University School of Medicine. The program is offered in collaboration with the Undersea and Hyperbaric Medical Society.

## COURSE DESCRIPTION

Medical evaluation of a diver or diving candidate demands that the physician have a knowledge of the unique physical qualifications needed for this sport. In this year's program, we will pay special attention to diagnosing diving disorders, and will provide a combination of didactic lectures and case examples with interactive discussions to enhance learning related to diagnosis of diving disorders, assessment for fitness to dive, marine injuries and toxicity and hyperbaric oxygen therapy. Upon completion of the course, participants should have a general knowledge of diving medicine and medical standards for diving assessment of fitness for diving, marine toxicology, and hyperbaric oxygen therapy.

## EDUCATIONAL OBJECTIVES

At the conclusion of the course, participants should be able to:

- Evaluate sport diving candidates for fitness to dive
- Formulate a differential diagnosis for diving disorders
- Describe the biologic effects of pressure and inert gas
- Understand the indications for Hyperbaric Oxygen Therapy
- Diagnose common marine injuries and intoxications

## TARGET AUDIENCE

Physicians and other care providers who encounter divers or diving candidates in their practice.

The program will be held at the Anse Chastanet and adjacent Jade Mountain Resort on Saint Lucia. The hotel provides a conference center with a comfortable air conditioned classroom, and a variety of recreational activities in addition to diving.

## DIVING PROGRAM

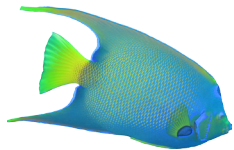
Certified scuba divers may join the diving program. Non-divers are welcome to the didactic program. There is an opportunity to take a training course leading to scuba certification. Diving will be provided by Scuba St Lucia, noted for its excellent facilities, services and safety standards. They feature a fully equipped dive shop and custom-designed dive boats that depart from the hotel dock.

## CONTACTS

sandy@scubamed.com  
fred@scubamed.com

## WEB SITE

www.scubamed.com



## FACULTY AND STAFF

**Alfred A. Bove, M.D., Ph.D, MACC, FACP, FUHM  
Emeritus Professor of Medicine**

**Cardiology Section, Temple University School of Medicine**

Dr. Bove was trained as a diving medical officer in the Navy and served total of 33 years of active and reserve duty. He has published a number of studies on decompression sickness and with two other investigators, was awarded the Stover-Link diving research award of the Undersea Medical Society in 1975 and the UHMS Craig Hoffman award in 1988. In 1995, he received the NOGI award for science from the Academy of Underwater Arts and Sciences. He is a past president of the UHMS. Dr. Bove is board certified in Internal Medicine, Cardiology and Undersea and Hyperbaric Medicine, and is a YMCA and NAUI diving instructor. He is the editor of the textbook Bove and Davis' Diving Medicine, fourth edition, and is an avid sport diver.

**Lindell K. Weaver, MD, FACP, FCCP, FCCM, FUHM  
Professor of Medicine**

**University of Utah School of Medicine**

Dr. Weaver is the Medical Director and Division Chief of Hyperbaric Medicine at the LDS hospital, and the Intermountain Medical Center. He has published important studies in HBO<sub>2</sub> therapy of Carbon Monoxide poisoning, HBO<sub>2</sub> therapy for non-healing wounds, and recently in the use of HBO<sub>2</sub> in treating traumatic brain injury. He was president of the Undersea and Hyperbaric Medical Society from 2004 to 2006. He was the Chair of the Hyperbaric Oxygen Therapy Committee of the UHMS until 2015. He is board certified in Internal Medicine, Pulmonary Diseases, Critical Care and Undersea and Hyperbaric Medicine. Dr. Weaver is trained as a Navy Undersea Medical Officer, and served a total of 12 years of active and reserve duty. He is a consultant in diving medicine for several professional diving organizations, and is a certified diving instructor. He is the current southwest regional coordinator for the Divers Alert Network. He has received numerous awards for his research in hyperbaric medicine, including the prestigious Paul Bert award of the UHMS. He has published more than 150 papers on HBO therapy, and is recognized as an international expert on treatment of Carbon Monoxide poisoning.



**Tom S. Neuman, M.D. FACP, FACPM, FUHM  
Professor of Medicine, Emeritus  
University of California, San Diego**

Dr. Neuman was trained as a diving medical officer, he retired from the Naval Reserve with the rank of Captain. He was president of the UHMS in 1989 and past editor-in-chief of the journal Undersea and Hyperbaric Medicine. He is the co-editor of the 5th Edition of Bennett and Elliott's Physiology and Medicine of achievement. Dr. Neuman was an advisor to the National Academies of Sciences to advise NASA on the medical problems associated with colonization of the moon and the trip to Mars. Dr. Neuman is an active diver, a PADI scuba instructor. He is board certified in Internal Medicine, Pulmonary Medicine, Emergency Medicine, Undersea and Hyperbaric Medicine and Preventive Medicine. In 2007, Dr. Neuman received the Albert Behnke Award for outstanding scientific contributions to the field of Undersea Medicine. He also received the Stover-Link award for contributions to diving safety and the Merrill Spencer Award for lifetime achievement.

## FACULTY AND STAFF

**Nelson M. Wolf, M.D.**

**Professor of Medicine (retired)**

**Cardiology Section, Temple University School of Medicine**

Dr. Wolf is a retired member of the faculty in Cardiology at Temple University School of Medicine. He was a Navy Undersea Medical Officer in the U.S. Navy for 5 years. Dr. Wolf also has training in the areas of bioterrorism and disaster preparedness. He is a member of the disaster management committee of Temple University Hospital. Dr. Wolf is the former director of Invasive and Interventional Cardiology at Temple University Medical Center. He has been a leader in application of newer technologies to invasive and interventional cardiology. Dr. Wolf has been an avid sport diver for many years.

**Program Manager**

**Sandy Bove, RN**

President, Underwater Medicine Associates

Sandy manages the hotel, travel, and diving arrangements.



### **Accreditation Statement**

Temple University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide Continuing Medical Education for physicians.

### **Certification Statement**

Temple University School of Medicine designates this live activity for a maximum of *25 AMA PRA Category 1 credit(s)*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### **Disclosure Policy**

It is the policy of Temple University School of Medicine, The Albert J. Finestone, M.D., Office for Continuing Medical Education that the speaker and provider disclose real or apparent conflicts of interest relating to the topics of this educational activity, and also disclose discussions of unlabeled/unapproved uses of drugs or devices during their presentation(s). Temple University School of Medicine, Office for Continuing Medical Education has established policies in place that will identify and resolve all conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to the activity

If you have special needs that we can address to make your participation more enjoyable and meaningful, please contact UMA at 610-896-8806



# LECTURE SCHEDULE

## Sunday, January 17

- 8:00 a.m. Introduction – Safe Diving Practices
- 9:00 Adjourn
- 3:00 p.m. Physics and Physiology of Diving
- 4:00 Barotrauma
- 5:00 DCS/AGE Therapy
- 6:00 Forum - Diagnosing DCS
- 7:00 Adjourn



## Monday, January 18

- 2:30 p.m. Hyperbaric oxygen therapy - overview
- 3:30 Fitness for Diving
- 4:30 Immersion Pulmonary Edema
- 5:30 Case Review
- 6:30 Adjourn
  
- 8:30 Health Care Reform 2016
- 10:00 Adjourn

## Tuesday, January 19

- 2:30 p.m. Marine Toxicology (invertebrates)
- 3:30 Ingested Marine Toxins
- 4:30 Drowning and diving
- 5:30 Fundamental mechanisms of hyperbaric oxygen
- 6:30 Adjourn

## Wednesday, January 20

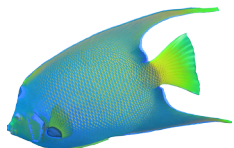
- 2:30 p.m. Breath Hold Diving
- 3:30 Marine Toxicology (vertebrates)
- 5:00 Carbon monoxide poisoning
- 6:00 Patent Foramen Ovale and Diving
- 7:00 Adjourn

## Thursday, January 21

- 2:30 p.m. Cardiac Disorders and Diving
- 4:00 Diagnosing DCS
- 5:00 Hyperbaric oxygen for mild traumatic brain injury
- 6:00 Case Presentations
- 7:00 Adjourn

## Friday, January 22

- 3:00 p.m. HBO for necrotizing fasciitis and gas gangrene
- 4:00 Final examination
- 5:00 Examination review
- 6:00 Adjourn



## TEMPLE UNIVERSITY UNDERWATER MEDICINE 2016

**HOTEL AND DIVING PACKAGES:** All rooms have two single or double beds or a king bed, balcony and ceiling fan. Hill side rooms are spacious with open air design, and either piton or ocean view. Only Beachfront and Jacuzzi rooms have air conditioning. All rooms have a hair dryer and refrigerator. Each package includes: Room for seven nights, all meals, taxes and gratuities, airport transfers, porters, maids, a welcome and farewell cocktail party and a t-shirt. The diving option includes: six days of two one tank dives per day, marine park fee, diving gratuities, tanks, weights and weight belts. Please circle your selection from the following options (prices listed are per person):

		Double	Single
Superior hill side	Diver	\$ 2930	\$ 3860
	Non-Diver	\$ 2530	\$ 3460
Delux beach side	Diver	\$ 3290	\$ 4580
	Non-diver	\$ 2890	\$ 4180
Delux hill side	Diver	\$ 3510	\$ 5010
	Non-Diver	\$ 3110	\$ 4610
Premium hill side	Diver	\$ 3950	\$ 5880
	Non-diver	\$ 3550	\$ 5480
Jade Mt. Jacuzzi	Diver	\$ 4550	\$ 7100
	Non-diver	\$ 4150	\$ 6700
Jade Mt. Star Pool	Diver	\$ 5710	\$ 9410
	Non-diver	\$ 5310	\$ 9010

**Name** \_\_\_\_\_

**Person sharing room** \_\_\_\_\_

**ROOM RESERVATION DEPOSIT: \$750.00 per person.**  
Make checks payable to: **Underwater Medicine Associates**

Return To: Underwater Medicine Associates  
P.O. Box 481  
Bryn Mawr, PA 19010

FAX 610-896-2883 Phone: 610-896-8806

**UMA will accept a check or credit card.** For credit card payment please complete:

Credit Card: VISA      MASTERCARD      AX (circle one)

Name on the card \_\_\_\_\_

Card Number \_\_\_\_\_

Expiration date \_\_\_\_\_

Security Code \_\_\_\_\_

Address to which credit card statement is mailed \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature of Card Holder \_\_\_\_\_

**Cancellation Policy:** All cancellations are subject to a \$100.00 administrative fee. Due to hotel commitments, the \$750.00 deposit will not be refunded for cancellations after November 15, 2015. ALL CANCELLATIONS AFTER DECEMBER 15, 2015 ARE NON-REFUNDABLE (INSURANCE IS STRONGLY RECOMMENDED)

**PLEASE NOTE:** Rates for single occupancy are higher. Every effort will be made to find a roommate for single registrants. If a roommate cannot be found, the single rate will apply. Because of advance reservations, full payment must be made by Nov 15, 2015. **Please contact Sandy Bove for travel information.**

tear off and return to register

# COURSE REGISTRATION FORM UNDERWATER MEDICINE 2016

**REGISTRATION FEE: \$650.00\*\***

**\$750 after Dec 30, 2015**

**\$850 for registrants not in the UMA package**

Fee includes: Lectures and Course Materials.

Enclosed is my check in the amount of \$650.00 for registration.  
Make checks payable to **Underwater Medicine Associates.**  
Return to:

Underwater Medicine Associates  
P.O. BOX 481  
Bryn Mawr, PA 19010

\*\*Course Registration Fee and Hotel Registration Deposit can  
be combined on one check, or paid by credit card

NAME \_\_\_\_\_ DEGREE \_\_\_\_\_

PRACTICE SPECIALTY \_\_\_\_\_

COMPANION OR SPOUSE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE: HOME \_\_\_\_\_ OFFICE \_\_\_\_\_

FAX \_\_\_\_\_ CELL \_\_\_\_\_

Email: \_\_\_\_\_

T-shirt size \_\_Small \_\_Medium \_\_Large \_\_XL \_\_XXL

I understand that enrollment is limited, that my money will be  
refunded if the course is full, and that Underwater Medicine Assoc.  
Inc. reserves the right to cancel the program and return all course  
monies without further obligation if sufficient attendance is not  
secured by November 15, 2015.

I understand that to dive, I must be a certified scuba diver with a  
recognized certification card. I am medically sound and physically  
fit for diving.

SIGNATURE \_\_\_\_\_

SIGNATURE OF COMPANION (if diving) \_\_\_\_\_



The Albert J. Finestone, M.D. Office  
for Continuing Medical Education  
Temple University School of Medicine  
3440 North Broad St.  
Philadelphia, PA 19140

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