

DIVERS ALERT NETWORK



63rd Diving and Hyperbaric Medicine Course



**August 10 - 16, 2008
Cheeca Lodge & Spa
Islamorada, Florida Keys**

**Jointly sponsored by the
Undersea and Hyperbaric Medical Society**



COURSE DESCRIPTION and OBJECTIVES

This five-day course is designed primarily for physicians, emergency medical personnel, paramedics and nurses, but instructors, dive masters and other non-medical dive related personnel might also find the course of value. The curriculum is designed to introduce the most important topics in diving and hyperbaric medicine by explaining the physiological principles underlying their clinical practice. Physicians completing the course will be eligible to join the Divers Alert Network (DAN) Preferred Provider Network, and the course will allow existing DAN referral clinicians to update their knowledge and skills in the medical management of diving injuries.

At the end of this course attendees should be able to discuss and clinically apply facts relevant to:

- the diagnosis and treatment of diving related medical disorders including decompression illness (DCI), narcosis and high pressure nervous syndrome (HPNS), and marine animal injuries;
- the emerging concepts and research relevant to the diagnosis, prevention and treatment of the long-term neurological consequences of diving;
- the most common causes of recreational diving fatalities;
- the strategies used by physicians to determine fitness to dive for recreational diving candidates, and dealing with controversies in diving medicine;
- case histories from the faculty files and the DAN database, as well as research currently being conducted in diving;

The course participants should also enhance their technical information on:

- technical diving/saturation diving, dive computers and table theory, equipment, re-breathers and loss of consciousness in diving;

This course will also review recent scientific research in hyperbaric medicine including:

- established and emerging indications for hyperbaric oxygen treatment;
- the molecular mechanisms of hyperbaric oxygen;
- hyperbaric oxygen off-label applications;

In addition, this course will go beyond the usual dive medicine topics to discuss challenges to human physiology posed by venturing into austere environments including:

- human physiology involved in the emerging sport of breath-hold diving;
- physiological barriers of diving;

All of the above concepts will be reinforced by case reports from the DAN Medical Services Call Center Quality Assurance archives (MSCC), examples from ongoing research at The Duke University Medical Center for Hyperbaric Medicine and Environmental Physiology, and, from the personal experience of the faculty whenever possible. All sessions will provide excellent opportunity for faculty - participant interaction.

ACCREDITATION

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Undersea & Hyperbaric Medical Society (UHMS) and the Divers Alert Network (DAN). The UHMS is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION

The Undersea and Hyperbaric Medical Society (UHMS) designates this educational activity for a maximum of 20 AMA PRA Category 1 credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

DISCLAIMER

The information provided at this CME activity is for continuing medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient's medical condition.

DISCLOSURE

The following individuals have disclosed that they have no relevant financial relationships with commercial interests:

Dr. Peter Bennett – Course Faculty
Dr. Petar Denoble – Course Faculty
Cindi Easterling – Course Planner
Dr. John Freiburger – Course Faculty and Planner

Dr. Ott, course faculty, has disclosed that he has relevant relationships with commercial interests but has no relevant financial relationship with these commercial interests.

This activity has received no commercial support.

SPECIAL NEEDS STATEMENT

The Divers Alert Network is committed to making its activities accessible to all individuals. If you are in need of an accommodation, please do not hesitate to call and/or submit a description of your needs in writing in order to receive service.

FACULTY

PETER B. BENNETT, PhD, DSc – Executive Director, Undersea and Hyperbaric Medical Society; Founder and Past President, Divers Alert Network; Chairman Emeritus, International DAN; Emeritus Professor, Anesthesiology, Duke University Medical Center, Durham, NC

PETAR J. DENOBLE, MD, PhD – Senior Research Director, Divers Alert Network, Durham, NC

JOHN J. FREIBERGER, MD, MPH – Course Director; Associate Medical Director, Divers Alert Network; Assistant Professor, Anesthesiology, Duke University Medical Center, Durham, NC

MICHAEL OTT, MD – Pulmonologist/Intensivist, Melbourne Internal Medicine Associates; Medical Director, Hyperbaric Oxygen Program, Health First Health System; Melbourne, FL.

COURSE COORDINATOR - Cindi Easterling, MEd; Vice President of CME & Special Services, Divers Alert Network, Durham, NC

PROGRAM

Monday, August 11th

0730 Check – in - *Easterling*
0750 Welcome – *Freiberger and Orr*
0800 Diving History, Physiological Barriers and the Divers Alert Network - *Bennett*
0900 DCI 1 (Mechanisms and Diagnosis) - *Freiberger*
1000 DCI 2 (Treatment of DCI) - *Freiberger*
1100 Dive Computers and Table Theory – *Denoble*
Optional afternoon diving

Tuesday, August 12th

Optional morning diving
1400 Technical Diving/Saturation diving - *Ott*
1500 Long Term Neurological Complications of Diving - *Bennett*
1600 Equipment, Rebreathers and Loss of Consciousness in Diving - *Denoble*
1700 Breath-hold diving - *Freiberger*

Wednesday, August 13th

0800 On site Treatment of Marine Emergencies(The Diving Doctor’s Medical Bag) - *Ott*
0900 Research at DAN / Recent Advances in Diving - *Denoble*
1000 Deep Diving Limits and HPNS - *Bennett*
1100 Case Histories I (ENT) - *Freiberger*
Afternoon free

Thursday, August 14th

Optional morning diving
1400 Indications for HBO - *Freiberger*
1500 Mechanisms for HBO - *Freiberger*
1600 Marine Animal Injuries - *Denoble*
1700 HBO Off Label Applications: A Review of the Literature - *Ott*

Friday, August 15th

Optional morning diving
1400 Most Common Causes of Recreational Dive Fatalities - *Denoble*
1500 Fitness to Dive - *Ott*
1600 Controversies in Diving Medicine (PFO) - *Ott*
1700 Case Histories II - *Freiberger*
1800 Adjourn

COURSE ENROLLMENT

Early enrollment is encouraged according to the following schedule:

- \$575./person for DAN-Cheeca Lodge Resort package payable by check to **DAN CME** or by credit card (MasterCard, VISA, American Express or Discover) received by June 15, 2008. After June 15th course fee increases to \$675./person. Registration fee includes course materials, CME credit, special T shirt, and course continental breakfast and breaks.
- \$775./person course fee for those not staying in the **DAN-Cheeca Lodge Resort package**.

CANCELLATION AND REFUNDS

In the event that sufficient persons are not secured for the course, the right is reserved to cancel the operation of this trip and the refund of course or diving fee monies will release Divers Alert Network of any further obligation. The Divers Alert Network is not responsible for any cancellation or travel itinerary change fees assessed by the hotel, airlines or travel agents.

Hotel and course cancellations are handled directly through DAN Continuing Medical Education. Course and hotel payments will not be refunded for cancellation made after August 1, 2008 or in the event of non-notification of cancellation prior to the start of the Course. A \$100.00 administrative fee prevails for all cancellations.

RESPONSIBILITY AND LIABILITY

- Baggage and personal effects are at "owner's risk" throughout the trip unless insured. Baggage insurance is strongly recommended.
- The Divers Alert Network is acting as an agent for suppliers selling services, and therefore is not responsible for any intentional or careless actions or omissions on the part of such suppliers which result in any loss, damage, delay or injury to you or your travel companions or group members.
- The Divers Alert Network assumes no liability or responsibility for the diving program. Each diver is responsible for his/her own safety and does hereby hold the aforementioned harmless from and against any and all claims and damages of every kind for injury to or death of any person or persons and for damages to or loss of property which arises as a result of the negligent acts of the diving service and the equipment supplied by them. Consent to the above conditions will be indicated by payment and participation in the diving program. The Course Director reserves the right to reject applicants for any reason.

FOR FURTHER COURSE OR HOTEL INFORMATION

Contact: DAN CME - Telephone: (800)446-2671 or (919) 684-2948 Ext. 610. FAX (919) 493-3456.

E-mail: ceasterling@dan.duke.edu

LOCATION

Islamorada, "The Purple Isle" in the Florida Keys, home of Cheeca Lodge & Spa, is located approximately 90 minutes south from the Miami International Airport and 30 minutes north of the Marathon Airport. It is the perfect location for relaxing or enjoying one of the many resort activities that make this resort so special. This "virtual-Caribbean" style resort offers breathtaking views of either the crystal blue Atlantic Ocean, the pastel sunsets of the Gulf of Mexico, or the lush tropical settings of the resort's myriad of courtyards and water features. The sleeping rooms, decorated in the warm, mahogany West Indian style, offer air conditioning, graceful plantation paddle fans, luxurious spa showers with soaking tubs, plasma screen television and DVD players, and wireless high-speed Internet access. Each room or suite is equipped with in-room coffee service, refrigerator, in-room safe, hairdryer, luxurious bath amenities, and provides an ambiance reflecting the charm of the Florida Keys.

Cheeca Lodge & Spa offers an array of activities for groups of any size. The area offers some of the best scuba diving in the United States with organized tours and specialized dive instruction.

Islamorada is also the “Sport Fishing Capital of the World” and whether you are after the big game Billfish in the Gulf Stream, a little backwater adventure in the Gulf of Mexico or fishing from the resort’s own fishing pier (free fishing with rods and reels provided), there is fishing for you. If the open water is not for you, the resort features its very own salt water lagoon stocked with tropical fish and Florida lobster. Sea kayaks, paddle boats, Hobie Cat sail boats or parasailing will offer you tours and views of the coastline to keep you enthralled with the water.

Especially for children, there is a kids program called Camp Cheeca, as well as babysitting services. At Camp Cheeca, kids enjoy activities such as fishing off Cheeca's pier, arts and crafts, scavenger hunts, lagoon swimming and snorkeling, group games and beach exploration. Babysitting can be arranged through the Concierge, or call directly at (305) 517-4411.



Visitors to Cheeca Lodge have a choice of three restaurants - Atlantic's Edge, Ocean Terrace Grill and the Curt Gowdy Lounge - each catering to different tastes and budgets. The menus offer a variety of dishes including innovative appetizers, unique small plates, hearty salads, the freshest local seafood, Florida lobster, stone crabs, succulent steaks and big chops, chowder, chilled soups, signature sandwiches and a host of refreshing and delectable desserts including Cheeca's mouth-watering Key Lime Pie.

The resort hosts a full service spa, fitness studio with one-on-one wellness activities, a 9-hole executive golf course, tennis courts, heated family pool, heated adults only lap pool, and side trips galore to one of the many eco friendly locations in the Keys.

The Cheeca Lodge & Spa web site address is: www.cheeca.com

HOTEL ACCOMMODATIONS (7 Night Package)

A block of rooms is being held especially for our group beginning Saturday, August 9th to Saturday, August 16th. A 7 night package is being offered in conjunction with the actual course (August 11 – 15). Extra days in addition to this package are available. Hotel reservations can be made by using the attached hotel and course reservation form. (Hotel check-in 4 PM; check-out 11 AM) **DAN CME will be making hotel reservations** as requested on the form. Make reservations with DAN CME no later than May 15th to hold space; after that time rooms will be space available only. A \$500 per person hotel deposit is required at the time of reservation to hold your space. **Balance of hotel must be paid by July 1st to confirm hotel reservation.** Late check-in or early departure: In the event a guest checks in after their reserved/scheduled arrival date or departs prior to their scheduled departure date, the Resort may charge the full length of the stay unless written notification is received by Tuesday, June 10, 2008.

Hotel Package for the DAN Group

(Rates are listed for single or double)

Deluxe Resort View Room with 2 Queen Beds:	\$ 1,584.00/7 nights
Oceanfront Lodge King Bed Room:	\$ 2,052.00/7 nights

1 and 2 bedroom deluxe resort view accommodations are available upon request.

Each additional person over double occupancy/bedroom is \$35.00/adult/night. Children 15 and younger stay free with parent or guardian in the existing bedroom.

Not included in package: Course fee; diving package and dive tips; airfare and transportation

- Package Includes:
- * 7 night hotel accommodations
 - * Taxes, and service charges
 - * Housekeeping gratuities
 - * Bellman gratuity (roundtrip/room)
 - * Valet parking
 - * Daily resort fee
 - * Access to all sports activities offered by the resort
 - * Wireless Internet in public areas and facsimile services
 - * Guest Internet station in the lobby
 - * In-room DSL service
 - * DVD Library
 - * In-room refrigerator beverages, Starbucks® coffee, Tazo® teas
 - * Daily newspaper

DIVING PACKAGE



The island chain of the Florida Keys are visited by almost 1 million divers and snorkelers annually anytime during the year. The healthy reefs and many wrecks draw abundant fish life and allow the divers and snorkelers to enjoy what is regarded as the third largest reef system in the world, and it is further noted that it is the only living contiguous coral barrier reef in the continental US. The “summer” water temperatures are around 82° Fahrenheit and reef conditions are typically calm and clear.

A 4-day, 8 tank dive package is being offered by Key Dives in conjunction with this DAN course. Diving times are built around the course days such that diving will take place on Monday afternoon, and Tuesday, Thursday and Friday morning diving. Wednesday provides a free afternoon to enjoy the activities of Islamorada.

Each diving participant must be a certified diver. C-card verification will be required. The price of the package is \$290./person and includes: tanks, weights and a dive master with you as your guide (max ratio 6:1.) Space for 16 divers has been reserved so register with DAN CME by July 1st to secure your diving reservation.

TRAVEL ARRANGEMENTS

Horizon Travel, Inc. is the DAN travel agent of choice, however you may use your own personal agent or deal directly with airlines that service Miami and Marathon Airports, and, shuttles to Islamorada, Florida Keys. **MAKE YOUR RESERVATIONS NOW** to guarantee lowest fares. **Horizon Travel:** E-mail Paul Ducey: paul@travelxperts.com ; FAX (919) 846-0647

COURSE & HOTEL REGISTRATION FORM
63rd Diving and Hyperbaric Medicine Course
August 10 - 16, 2008

(Please print or type)

Name: _____
 Last First MI

_____ Degree Specialty

Name of person(s) traveling with you: _____

Home Address (No P.O. Box Addresses) _____

City State Zip code

Telephone: Home Business

FAX E-mail

T-shirt size: _____ Medium _____ Large _____ Extra large _____ XXL

Indicate desired options and fill in total:

Course: \$575. /person (\$675. after June 15, 2008) \$ _____
 For guests of DAN-Cheeca Lodge & Spa package

\$775. /person for course registrants **NOT** in DAN package \$ _____

✓ Room requested:

_____ Deluxe Resort View Room with 2 Queen Beds \$1,584. \$ _____
 _____ Oceanfront Lodge King Bed Room \$2,052. \$ _____

Additional adults over 15 yo # _____ persons @ \$35/night. ea. \$ _____

Dive Package:

_____ # divers @ \$290./diver \$ _____

Total \$ _____

Make check payable to: **DAN CME**

Mail check and registration form to: CME - Divers Alert Network
 The Peter B. Bennett Center, 6 West Colony Place, Durham, NC 27705

Or **fax** credit card information with registration form to: (919) 493-3456

For Credit Card Payment - **MasterCard, VISA, American Express and Discover cards accepted.**

Credit Card Account # _____ V code _____ (3 digit # on back of card)

Issued in Name of _____ Exp. Date _____

Signature _____ Date _____

✓ Please process my balance due to the above credit card on July 1, 2008 _____

Signature

TRAVEL RESERVATIONS

63rd DAN Course – Islamorada, Florida Keys
August 10 - 16, 2008

Travel reservations may be handled by Paul Ducey: paul@travelxperts.com By telephone - Call Horizon Travel at (800) 672-5737 or (919) 493-8456. By fax to Horizon Travel (919) 846-0647

Name: _____

Last

First

MI

Name(s) of persons traveling with you _____

Home Address: _____

City

State

Zip code

Telephone: _____

Home

Business

Please confirm flights from (origin city) _____ to (Miami or Marathon) _____

on (date) _____ and return to origin city on (date) _____.

_____ Please bill my credit card (American Express, MasterCard, VISA)

****Travel reservations cannot be confirmed and tickets issued until payment is received by check or credit card.

Type of credit card _____ Acc't. # _____

Issued in name of _____ Exp. Date _____

_____ Advance ticketing _____ This is your authorization to ticket immediately to protect against fare increases. The correct credit card information is given above.

_____ If you want your tickets Federal Expressed to you and the charge added to your credit card.

If not checked, then regular postal service will be used for tickets.

Signature _____ Date _____

DAN CME
Duke University Medical Center
Box 3927
Durham, NC 27710

Non-Profit Org.
U.S. Postage
PAID
Durham, NC
Permit No. 60

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