

Intermountain Diver's Day Registration Form

Contact Information:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Email: _____

Registration Type:

Advance Registration (before June 10, 2008): \$35.00

Regular/Same Day Registration: \$40.00

Payment Information:

Check/money order enclosed
Make checks payable to *LDS Hospital Hyperbaric Medicine*

Visa Master Card AmEx Discover

Card Number: _____

Expiration Date: _____ Security Code: _____

Billing Zip Code: _____

Name on Card: _____

Cardholder's Signature: _____

Mail registration form with payment to:
LDS Hospital
Hyperbaric Medicine
8th Avenue & C Street
Salt Lake City, UT 84143

For registration questions, please call 801-408-3623



Intermountain Hyperbaric Medicine Service Intermountain Medical Center LDS Hospital

For nearly twenty-five years, the Hyperbaric Medicine Service at LDS Hospital has served the divers of the Intermountain region, treating dozens of injured divers from a several hundred-mile radius. This year, we open a state-of-the-art rectangular multiplace hypo/hyperbaric chamber at Intermountain Healthcare's flagship hospital, Intermountain Medical Center. In addition to operating the multiplace and monoplace chambers at Intermountain Medical Center, our staff will continue to offer hyperbaric oxygen therapy at LDS Hospital.

Medical director Lin Weaver, MD, is also the Southwest Regional Coordinator of the Divers Alert Network. Our team of physicians and advance practice clinicians staff our chambers 24 hours per day, 7 days per week, and are well equipped to handle diving emergencies. We also provide fitness-to-dive evaluations. Many of our staff are diving enthusiasts.

Intermountain Diver's Day is a unique opportunity for recreational, technical, and commercial divers to learn about extreme diving situations, diving safety, current treatment for diving injury, and special considerations for diving in the Rocky Mountain region.

For questions about the Diver's Day program, registration, or sponsorship, please call us at 801-408-3623.

For diving emergencies, call Lifeflight at 801-321-1234, and ask for the hyperbaric physician on call.



Intermountain Diver's Day Extreme Diving Situations and Diver Safety



Sunday, June 29, 2008

8:00 AM - 5:00 PM

**Doty Education Auditorium
Intermountain Medical Center
5121 S. Cottonwood Street, Murray, UT**

INTERMOUNTAIN DIVER'S DAY

Sunday, June 29, 2008 Intermountain Diver's Day

7:30 - 8:00

Same Day Registration

Come early and enjoy a continental breakfast.

8:00 - 8:15

Welcome and Introduction

8:15 - 9:00

Breathing Underwater is an Unnatural Act

Richard Vann, PhD

Assistant Research Professor, Duke University
Vice President of Research, Divers Alert Network

The underwater environment can affect respiration leading to breathlessness and impaired consciousness. Exercise and carbon dioxide play key roles in this process. Understanding the process is a good countermeasure to avoiding the panic that breathlessness can cause. Examples from "shallow water blackout," "deep water blackout," and rebreathers illustrate the physiology and importance of equipment design.

9:00 - 9:45

Research Diving in Antarctica

Neal Pollock, PhD

Research Associate, Duke University
Antarctic Field Research, New York State Department of Health

Many think of SCUBA diving as a warm water activity. However, a small number of divers go to the ends of the earth to conduct their underwater work. Dr. Neal Pollock has spent six seasons in the Antarctic as part of a diving research group with the U.S. Antarctic Program. He will discuss the art and science of Antarctic diving. You will see how researchers travel to and around the "ice," how they get through 6-18 feet of ice, and some of the creatures they find. You will hear anecdotes regarding native biology, human physiology and the language of the ice.

9:45 - 10:30

What is DAN/Are You Really Ready to Dive?

Dan Orr, MS

President/CEO, Divers Alert Network

In the DAN accident data, a percentage of those involved in diving accidents have indicated equipment, somehow, played a role in the events leading to a diving emergency and subsequent injury. This presentation, through the use of candid, and humorous, photographs, will address how equipment use (or user error) may lead to a diving emergency.

10:30 - 10:45

Break

10:45 - 11:30

Treatment of Decompression Illness in the 21st Century: What is State of the Art?

Simon Mitchell, MD, PhD

Fellow in Anesthesia, Auckland City Hospital

Whilst diving is a safe sport, accidents can occur, and one possible consequence is decompression illness (DCI). Ideal treatment of this potentially serious disorder usually consists of appropriate first aid measures, such as administration of 100% oxygen, followed by recompression and hyperbaric oxygen administration in a recompression chamber. In this presentation we will discuss these interventions, and other aspects of DCI treatment. With reference to the latest diving medical research, we will address commonly asked questions like: are there any drugs that might be useful; what is the role of fluid administration; do all cases of DCI require recompression; what is the role of in water recompression; and others. Any enthusiastic diver may one day be called upon to be an amateur diving physician in the field. This presentation aims to update your knowledge and provide some practical advice that might help should this need ever arise.

11:30 - 12:30

Who is in a Hyperbaric Chamber when a Diver is Not?

Jim Holm, MD

Attending Physician and Diving Enthusiast,
Intermountain Hyperbaric Medicine Center

Hyperbaric oxygen therapy is commonly known as a treatment for diving-related illnesses such as decompression sickness. Although there are some chambers used just to treat divers, most chambers are treating patients with conditions other than diving-related problems. This talk will discuss what Hyperbaric Oxygen Therapy (HBO₂) is and how it works. The currently accepted indications for HBO₂ will be reviewed, including its use for necrotizing soft tissue infections (so called "flesh eating bacteria"), chronic bone infections, and diabetic wounds.

12:30 - 1:45

Lunch and Tour

Intermountain Medical Center's Rectangular Multiplace Hypo/Hyperbaric Chamber and Monoplace Chamber

Box lunches are provided. In small groups, participants will take a tour of Intermountain Medical Center's state-of-the-art rectangular multiplace hypo/hyperbaric chamber and monoplace chamber.

1:45 - 2:30

Diving in the Rocky Mountains and the Intermountain West

A panel of local diving experts will highlight diving opportunities in the Intermountain West and discuss the unique logistics of diving at these sites.

2:30 - 3:15

Rebreathers... Just How Safe Are They?

Jeff Bozanic, PhD

Technical Diver and Instructor
Author of *Mastering Rebreathers*

Currently rebreathers are used in the recreational diving community primarily by technical divers and photographers. Many active divers are intrigued by the technology, but are reticent to "take the plunge" because of perceptions of cost, complexity, and perceived safety issues. This talk will cover how rebreathers function, their advantages, and their disadvantages compared to standard open circuit SCUBA diving. In particular, it will look at the daily logistics and maintenance involved in using rebreathers, as well as an overview of the accidents experienced by rebreather divers, and why they occurred.

3:15 - 3:30

Break

3:30 - 4:15

Diving at Altitude and Decompression Illness

Paul Thombs, MD

Medical Director, Hyperbaric Medicine Center.
Presbyterian/St. Luke's Medical Center, Denver, CO

Denver, like any land-locked city, has a large diving population. Its altitude and distance from popular dive sites influences the nature of decompression illness diagnosed and treated there. Diving in the Intermountain West and the Rocky Mountains requires significant changes in altitude to reach local dive sites. How should this be factored into dive planning?

4:15 - 5:00

Diving Accidents: A Review of Local Cases

Lin Weaver, MD

Medical Director, Intermountain Hyperbaric Medicine Center
Professor, University of Utah School of Medicine

Despite advances in equipment and technique, SCUBA diving continues to carry risk. Diving accidents can and do occur in our location. Dr. Weaver will present, specific cases of diver injury for discussion and review how equipment malfunction, diver error, and "acceptable risk" played their parts.