



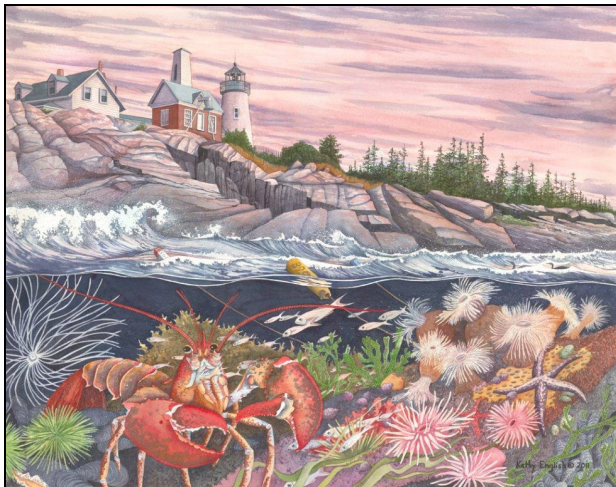
# E-SLATE

## American Academy of Underwater Sciences (AAUS)

### EDITORIAL BOARD NOTE – July 2011

Welcome to the July issue of the *E-Slate*. June 30<sup>th</sup> is the due date for 2010 AAUS statistics and the last day to submit nominations for the 2011 AAUS Achievement and Conrad Limbaugh Awards and to vote for open AAUS board positions. We also introduce the AAUS Foundation and offer a range of job openings and new publications. Please continue to submit news, announcements, job postings, and images of underwater work to [aaus@disl.org](mailto:aaus@disl.org). Current and past issues are available at [www.aaus.org](http://www.aaus.org).

### NEWS/ANNOUNCEMENTS



The 2011 Kathy Johnston painting honoring our symposium host, U. of Maine, will be raffled to support the AAUS Foundation scholarship fund. Visit: [www.aausfoundation.org](http://www.aausfoundation.org) to purchase tickets (\$10). Drawing at the AAUS symposium banquet in Portland, ME. You do not need to be present to win.

### Call for Nominations - AAUS Achievement Award

The AAUS Scientific Diving Lifetime Achievement Award is presented annually to an individual from the scientific diving community who has made a significant contribution in advancing underwater science and technology. Candidates are nominated by AAUS General Membership and voted on by AAUS Past-Presidents and past Award Recipients. Current BOD members are not eligible during their term of office. Please send nominations with your justifying paragraph, along with the nominee's biosketch and contact information, to AAUS Awards Committee, c/o John Heine ([jheine@ucsd.edu](mailto:jheine@ucsd.edu)). Nominations close June 30.

### Introducing the AAUS Foundation

We are excited to introduce the newly formed AAUS Foundation. This 501(c)(3) entity will help advance the mission of AAUS, in part by allowing tax deductible donations to support our scholarship initiatives. The Foundation will support the AAUS Scholarship program and other AAUS outreach programs. The new website ([www.aausfoundation.org](http://www.aausfoundation.org)) streamlines processes for donation, scholarship application, product raffles and Kathy Johnston print purchases. Visit the site and enter drawing for a new VRX dive computer, signed copies of Brett Gillam's book *Diving Pioneers and Innovators* and the 2011 AAUS Kathy Johnston print.

### Call for Nominations - Conrad Limbaugh Award

The Conrad Limbaugh Memorial Award is presented annually to an individual who has made a significant contribution in diving safety and diving leadership on behalf of the scientific diving community. Conrad Limbaugh was an underwater naturalist and Chief Diving Officer of Scripps Institution of Oceanography, where he directed the diving program. He was killed in a scuba diving accident in the Mediterranean on March 20, 1960. Limbaugh graduated from Whittier College in 1948 and did graduate work at the University of California at Los Angeles before going to Scripps Institution in 1950. He was largely responsible for developing the diver-training program at Scripps, as well as many research techniques used by marine scientists. Please send all nominations with a justifying paragraph by the nominating member, along with the nominee's biosketch and contact information, to AAUS Awards Committee, c/o John Heine ([jheine@ucsd.edu](mailto:jheine@ucsd.edu)). Nominations close June 30.

### Lodging for the 2011 Symposium

Please note that pre-symposium meetings and workshops (October 10-12) will be held at Darling Marine Center (DMC). Driving time from Portland to the DMC is about 90 minutes. Most attendees will likely prefer to arrange housing for DMC-based events through DMC or surrounding Inns. AAUS events do not begin in Portland until October 13. The AAUS group rate at the Portland Regency is only available Wednesday-Sunday (October 12-16). Bookings at Portland Regency outside of these dates will be at the regular retail price.

### AAUS Statistics Due

The deadline for 2010 statistics is June 30, 2011. AAUS has a new URL (<http://stats.diveaaus.org>) and a new look

to the stats entry page. By logging in, you can enter your stats and review not only your previous OM numbers but all AAUS summary statistics as well. If you have any questions about AAUS data collection criteria, please review the AAUS Statistics Collection Criteria and Definitions available at the site or contact Mike Dardeau ([mdardeau@disl.org](mailto:mdardeau@disl.org)) directly.

### **Obituary - Mark Gustafson**

Mark Searle Gustafson (60) of Tiverton, RI, a diving expert at the University of Rhode Island who grew up in Ridgefield, died on May 10, 2011 at his home with his wife and family by his side. He was the son of Hope and the late Harvey Gustafson. He grew up in Ridgefield and was a 1969 graduate of Ridgefield High School. He worked for the University of Rhode Island Graduate School of Oceanography for nearly 30 years. He taught underwater diving, archaeology and exploration. Mark was the husband of Susan (Hartnett) Gustafson and father of Elin Gustafson Rushton and Emily Gustafson. He is also survived by his brothers Rex of Ridgefield, CT and Eric of Providence, RI, and predeceased by his sister Lisa Gustafson.

## **EQUIPMENT RECALLS/ADVISORIES**

### **Sea Elite BCD Recall**

The US Consumer Product Safety Commission and Heath Canada, in cooperation with Sea Elite Systems, have announced a voluntary recall of Sea Elite Scout and Profile model buoyancy control devices. The Scout is black with blue accents on the lower sides. 'Scout' is printed in white letters on the right front and 'Sea Elite' on a flap over the corrugated hose. The following serial number ranges are affected: 001229 to 001244 and 001246 to 001489. The serial number is printed on a tag in the front pocket. The Profile is a jacket-style BCD, black with blue on the lower sides. 'Profile' is printed in white letters on the right front and 'Sea Elite' on a flap over the corrugated hose. Affected serial numbers can be found at <http://www.cpsc.gov/cpsc/pub/prerel/prhtml11/11209.html>. Consumers should immediately stop using the BCDs and return them to an authorized Sea Elite Systems dealer for spring replacement at no charge. Contact Chris Richardson at 1-888-370-3483 weekdays from 0900-1700 EST for more information.

### **Worthington Cylinders Advisory**

Worthington Cylinders scuba cylinders SP-14157 have recently failed hydrostatic requalification. The following information is provided for those affected by this situation. When the requalification process has been properly administered (by first conducting the required pretest twice at 89% test pressure followed by the requalification test to

test pressure) X-S SCUBA, the distributor of this cylinder, will replace affected cylinders when the following information is provided to them:

1. A completed hydrostatic report;
2. Complete data recorded from the crown; and
3. A picture of the cylinder clearly indicating it will not hold gas inclusive of the serial number.

Contact X-S SCUBA (866-977-2822) for more details.

### **DUI Weight and Trim Systems Warning**

DUI recently became aware of a problem with some DUI Weight & Trim Systems shipped after July 2010. If the lanyard and/or cables are not the right length the weight pockets do not easily detach from the harness when the handle is pulled. In the unlikely situation a handle is pulled in an emergency situation, this could prevent the weights from easily dropping as designed. No incidents have been reported. All of the systems affected have GRAY fabric handles. Systems with yellow plastic handles are NOT affected. Anyone with one of these systems should stop using it immediately and contact DUI (800-325-8439; [customerservice@dui-online.com](mailto:customerservice@dui-online.com)) for instructions.

DUI Weight & Trim System Owners

DUI Weight & Trim Classic

DUI Weight & Trim II

Systems shipped after April 20, 2011 with yellow handles or gray handles and a large silver stripe are not affected.

## **UPCOMING EVENTS**

### **SML Underwater Research Course**

Shoals Marine Laboratory (SML), affiliated with Cornell University and the University of New Hampshire, is offering an *Underwater Research* course July 25-August 08, 2011. This course will be held on Appledore Island, located six miles off the coast of Portsmouth, NH. *Underwater Research* fulfills the requirements to obtain active AAUS scientific diver status and the course credits may be transferable to your home institution. The primary goal is to provide guidance and opportunities for students to conduct original research underwater. Lectures cover the philosophy of research, hypothesis testing, experimental design, theoretical and practical aspects of sampling, current ecological research in the Gulf of Maine, new techniques for underwater research, advanced aspects of diving physics and physiology, theory and use of diving tables, and hyperbaric medicine, among other important topics. All students have the opportunity to design and conduct original research as a focus of the course. Dive accident management, CPR, first aid, AED and oxygen administration training for divers is also included. Tuition includes room and board, activity fees, and round trip boat transportation between Portsmouth, NH and Appledore

Island. Financial aid is available. For more information visit: <http://www.sml.cornell.edu>.

### **Sci. of Wound Care, Diving, & Hyperbaric Med**

The conference will be held at the Ritz Carlton in Palm Beach, FL, August 04-07, 2011. Visit: [www.orf2011.com](http://www.orf2011.com) or contact Sharon Phillips at [sphillips@orf2011.com](mailto:sphillips@orf2011.com).

### **EUBS Annual Scientific Meeting 2011**

The 37<sup>th</sup> annual scientific meeting of the European Underwater and Baromedical Society (EUBS) will be held August 24-27 at the Medical University of Gdansk, in Gdansk, Poland. Main conference topics will include: diving physiology and medicine; non-dysbaric disorders; research in deep diving and dysbaric diving disorders; basic research and clinical hyperbaric medicine; and hyperbaric safety, technology and organization. Satellite meetings will also be conducted: ECHM workshop 'HBO in Emergency Medicine,' EBAss and EDTCmed meetings and DAN Divers Day. Visit: [www.eubs.org](http://www.eubs.org).

### **AAUS Symposium 2011**

The 2011 AAUS Symposium will be held in Portland, ME October 10-15. The Portland Regency will serve as the symposium hotel and the University of Maine Darling Marine Center will host the preconference workshops, annual DSO meeting and AAUS Business meeting. Workshops include:

- PSI - VCI certification and recertification courses
- PSI - Eddy Current Testing
- DAN Instructor Certification
- Diver-based suction sampling: a monitoring tool for newly settled lobsters
- Quantitative observation of the adult American lobster (*Homarus americanus*)
- New DSO Orientation
- DUI Demo Day

Make travel and lodging arrangements early to avoid missing out. Look for additional information and registration materials in an email invitation that will go out to all members or on our website ([www.aaus.org](http://www.aaus.org)). You can register directly at <http://guest.cvent.com/d/ydqgkt/4W>. Contact Chris Rigaud at [crigaud@maine.edu](mailto:crigaud@maine.edu) or the AAUS office at [aaus@disl.org](mailto:aaus@disl.org) for more information.

### **DAN Diving and Hyperbaric Medicine Course**

The 70<sup>th</sup> DAN Diving and Hyperbaric Medicine Course will be held October 22-29 at the Mayan Princess Beach Resort in Roatan, Honduras. This six-day course is designed primarily for physicians. Emergency medical personnel, paramedics, nurses and professionals with interest in diving medicine will also find the course valuable. The program is jointly sponsored by DAN and Wilderness Medical Society for continuing education credit. A special dive package supplements the course.

Contact DAN Education at 919-684-2948, ext. 555 or 800-446-2671, ext. 555 or [cme@dan.org](mailto:cme@dan.org). Visit: <http://www.diversalertnetwork.org/Events/Event.aspx?EventID=880>.

### **Tenerife Int'l Practical Anesthesiology Conference**

The International Congress of Anesthesiology will meet November 07-10 at the Abama Golf & Spa Resort on Tenerife, Canary Islands. The topic of the conference is 'Hyperbaric medicine and its applications in daily practice.' The event is accredited by INAMI/RIZIV. Visit: [www.tipactenerife.org](http://www.tipactenerife.org) for more information.

### **International Marine Forensics Symposium**

The Marine Forensics Committee (MFC) of the Society of Naval Architects and Marine Engineers (SNAME) is holding the International Marine Forensics Symposium at the Gaylord National Hotel, Washington, DC, April 02-05, 2012. The symposium will honor the 100<sup>th</sup> anniversary of the sinking of RMS Titanic (April 12, 1912); the 150<sup>th</sup> anniversary of the sinking of USS Monitor (December 31, 1862); and approximately the 200<sup>th</sup> anniversary of the destruction of Commodore Joshua Barneys Flagship, the USS Scorpion during the War of 1812, as it tried to defend against the British march on Washington, DC. The event is co-sponsored by: Marine Technology Society (MTS), Royal Institute of Naval Architecture (RINA), American Society of Naval Engineers (ASNE), and Institute of Marine Engineers, Science and Technology (IMARest). Visit: <http://www.rina.org.uk/marineforensics> for details.

## **JOB OPPORTUNITIES**

### **Assistant DSO Aquarium of the Pacific**

Assistant Dive Safety Officer Position: Part Time, 24 hours per week. The Assistant Diving Safety Officer of Exhibit Diving Operations (ADSOED) works closely with the Diving Safety Officer to oversee safe diving operations at the Aquarium of the Pacific. The ADSOED is largely responsible for the oversight of the routine daily dive operations and training inside the Aquarium. For details: [http://www.aquariumofpacific.org/employment/information/assistant\\_diving\\_safety\\_officer/](http://www.aquariumofpacific.org/employment/information/assistant_diving_safety_officer/).

### **Ocean Observatory Tech. at MBARI**

This position is responsible for the operation, integration, maintenance, and calibration of oceanographic equipment and instruments deployed on MBARI's moorings. Duties include, but are not limited to: perform maintenance of oceanographic instrumentation and ensure reliable operation prior to deployment, assist with the integration and testing of scientific sensors, assist with the development, deployment, and maintenance of MBARI's moorings. Scheduled sea duty may be required.

Qualifications: Minimum associate degree or equivalent and five years related experience required. Previous experience in the maintenance, operation, and integration

of standard oceanographic instrumentation is required. Demonstrated experience in the deployment and recovery of oceanographic moorings is preferred. Experience with basic electronic test equipment is required. Working knowledge of PC-based computer applications is required. Experience with UNIX/Linux is required and familiarity with C is a plus. Scuba diving experience is desirable and Scientific Diver certification is a plus. Must be willing and able to go to sea. Excellent communication skills and the ability to work with diverse groups of people are required. Visit: [www.mbari.org/oed/jobs/OOT.html](http://www.mbari.org/oed/jobs/OOT.html).

### Reef Check California Summer Position

Reef Check California is looking to hire for a short-term summer position to do the MPA baseline monitoring along the north central coast. This position involves collaborative work with PISCO UCSC, moving to the study region temporarily - group housing with PISCO technicians will be provided, and a lot of diving along the north central coast. Applicants need to be current AAUS divers and ideally have an affiliation with a dive program. Email Jan Friewald ([jfreiwald@reefcheck.org](mailto:jfreiwald@reefcheck.org)) for more information.

### Dive Tech. - University of Alaska

Researchers at the University of Alaska Fairbanks are seeking an AAUS-certified diver to assist with a field experiment in Juneau, AK. The job will involve assisting a PhD student in Dr. Ginny Eckert's lab conducting predation experiments using juvenile red king crabs. This supports a king crab stock enhancement feasibility study: <https://www.uakjobs.com/applicants/jsp/shared/frameSet/FrameSet.jsp?time=129829988679>.

## NEW PUBLICATIONS

### Bates ML, Farrell ET, Eldridge MW. The curious question of exercise-induced pulmonary edema. *Pulm Med.* 2011; 361931. Epub 2011 Mar 30.

The question of whether pulmonary edema develops during exercise on land is controversial. Yet, the development of pulmonary edema during swimming and diving is well established. This paper addresses the current controversies that exist in the field of exercise-induced pulmonary edema on land and with water immersion. It also discusses the mechanisms by which pulmonary edema can develop during land exercise, swimming, and diving and the current gaps in knowledge that exist. Finally, this paper discusses how these fields can continue to advance and the areas where clinical knowledge is lacking.

### Salahuddin M, James LA, Bass ES. Scuba medicine: a first-responder's guide to diving injuries. *Curr Sports Med Rep.* 2011; 10(3):134-9.

Self-contained underwater breathing apparatus (scuba) diving is an ever-growing sport, and despite a myriad of

technological advances to improve safety, it remains dangerous. Providers of medical care for scuba divers must have an understanding of diving physiology and potential medical problems that can occur. Scuba diving also can take participants to remote areas, so being properly prepared for potential emergencies can make a significant difference. The following is a review of diving physiology and the medical problems that can occur in scuba divers, along with some suggestions as to how to prepare for a scuba excursion.

The mission of the American Academy of Underwater Sciences is to facilitate the development of safe and productive scientific divers through education, research, advocacy, and the advancement of standards for scientific diving practices, certifications, & operations.

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