

# UP AND DOWN THE ANCHOR LINE

## KEYSTONE DIVERS ASSOCIATION



Volume 300

October 2011

*Next KDA Meeting:*

**Wednesday, October 5, 2011**

*Barnaby's with*

**Faith Ortins**

**Antarctica: World of Ice!**

**Dinner @ 7 PM; Speaker @ 8 PM!**

For many divers, Antarctica is a "bucket list" dive trip. Last year, Faith led the largest group of non-scientific divers to Antarctica to explore new dive sites. Join us for a fun evening discussing the trials and tribulations of polar diving and viewing the unique and stark beauty of the ice and the creatures that live there. **Faith Ortins** has spent most of her adult life in the ocean. Starting as a scientific diver and volunteering for public safety diving operations in the 1980's, Faith became a technical diver and divemaster and has made thousands of dives. She worked with DUI to develop some of the first women's drysuits and now leads DUI's sales team worldwide. She created the DUI DOG Rally and Demo Days program which promotes local diving facilities while divers demo DUI products. She also developed DUI's innovative Risk Management Program for Public Safety Divers. She has led expeditions around the world including many of the most remote places on Earth. A frequent presenter at dive shows and conferences, she is a 2010 inductee into the Women Divers Hall of Fame and a member of the Boston Sea Rovers.

**GREAT NEWS MEMBERS: Ask about all of the terrific KDA Member Specials on selected diving gear and accessories @ DDD!**

**Buster says:**

**Wouldn't it be fun to dive in a....**

**CAR POOL!!**

*Stop by the shoppe today and...*

*Check that dive schedule @ [dudasdiving.com](http://dudasdiving.com)!*

**Mike@dudasdiving.com (610) 436-0176!**

Evelyn has heard **Sloan Wainwright** perform down in Florida on her cave trips and now she hopes you'll share the experience when Sloan comes to Phoenixville, PA: Saturday, November 12 at the STEEL CITY COFFEEHOUSE (with Reade McCardell opening), 203 Bridge Street. Showtime: 8:30PM Tickets: \$18/\$20; Show Info: (610) 933-4043. Please call EBD and let her know if you are interested – maybe a car pool can be arranged! Evelyn Dudas (610) 436-0176

**Last KDA Meeting: September 7, 2011!**

After a lively video dubbed "Fishin Impossible" to catch our attention, it was down to business, our feature presentation: **High Speed, High Efficiency Manta Rays** - yesterday's underwater videos of giant manta rays in Yap may soon become tomorrow's submarines! With Jules Verne in mind, I listened as **Dr. Frank Fish**, a member of the biology faculty at West Chester University since 1980, described how his team of undergraduate and grad students have turned to the study of stingrays and, in particular, giant manta rays, hoping to define how the rays move with high speed and high efficiency. In order to do a controlled 3-D video tape analysis of their swimming capabilities and gather data by looking at different speeds and how they increase speed, it is essential to either go to an aquarium large enough to accommodate the 12' wing span of the manta ray or take a trip to Yap. He first went to the three biggest aquariums in the world, Atlanta, Okinawa and Nassau, Bahamas, but did make 2 trips to Yap – the second in a cast – oops – good thing grad students can make those dives for you when you need them! Diving with Yap Divers (everyone else goes on to Palau when you get off the plane), the mantas come right up to you as you wait below as they are swimming 'stationary' in a 3-4 knot current. Yap has a steady population collection of known animals i.d.'d by their cleaning stations (see [www.mantaray.com](http://www.mantaray.com)). The manta has quite a range of motion and, just as it resembles the airplane, the *manta sub* needs to be maneuverable just like an airplane; i.e. yaw (side to side), pitch (up and down) and roll (banking)! Surprisingly for their size and large wingspan, they can turn tightly on a dime and, what I didn't know, they can leave the water by launching themselves up and out! And because they are slightly negatively buoyant like sharks to facilitate their plankton feeding practices, mantas can actually do a loop-de-loop flipping over backward! For hands-on examination, Dr. Fish relies on the smaller stingray. Driven by such goals as stealth without a noise signature (for the Navy) and an extended range on a single battery, the biology research findings have been passed along to engineers via fluid mechanics by modeling the collection of movement data, and now they are on the cusp of the design and fabrication of a manta-like robot, the replacement for the submersible that will go... **20,000 leagues under the sea!**

**Kaitlyn Johnson took the 50-50. SEA U 10-5-11 @7!**

**Our Condolences To Randell Spackman and his family for the loss of his father Tom Spackman. Our thoughts are with you.**

## upcoming KDA events & special stuff

Next KDA Meeting:

**Wednesday, October 5, 2011**  
**Faith Ortins \* Antarctica**  
**Barnaby's in West Chester**  
**Dinner @ 7 PM; Pictures @ 8 PM!**

The 2011 Dive Schedule is being updated all the time! Please check the website:  
[Dudasdiving.com!](http://Dudasdiving.com!)

### Attention KDA members!!

KDA members will receive a discounted rate of \$3/fill, a savings of \$2 off the new air fill rates of \$5. We will honor current paid KDA members with free air until their 2010 dues expire.

\*\*\* *THE KDA DIVERS TAKE OVER EBD'S!!!*\*\*\*

➤ **KDA Email address:**  
[mail@dudasdiving.com](mailto:mail@dudasdiving.com)

➤ **The official KDA Web address:**  
[www.dudasdiving.com/keystone-divers/](http://www.dudasdiving.com/keystone-divers/)

### *In memorium*

#### **Dr. R.W. "Billy Bob" "Bill Hamilton" Ph.D**

"Pioneering decompression physiologist Dr. RW "Bill" Hamilton passed away on Thurs night (15th September 2011). He will be sorely missed! Dr. Bill helped birth tech diving and its fair to say that just about tech diver there was diving his DCAP tables in the early days. But not until he grilled you and made sure that you weren't planning to go and kill yourself foolishly. Dr. Bill was a remarkable, giant of a man who was loved and admired by all." Dr. Hamilton died unexpectedly of cancer. He was born on June 6, 1930 in Midland, TX. Dr. Hamilton was a world leading physiologist with over five decades of specialization in diving, aerospace, and environmental physiology with particular interest in decompression, breathing gases, and the effects of pressure. Ten of these years (1964-1974) were as a scientist and director of the world's leading environmental physiology and diving research laboratory at the Union Carbide Research Center in Tarrytown, NY. He was a graduate of University of Texas, Texas A&M and University of Minnesota. Dr. Hamilton was a devoted parishioner at Christ Episcopal Church, Tarrytown. He served in many capacities. Dr. Hamilton is survived by his wife, Kathryn, daughters, Lucy and Sally, two sisters, five grandsons and an untold number of admirers. His family asks that donations be made to American Cancer Society or Christ Episcopal Church, Tarrytown.

#### **Dr. Christopher Lambertsen**

The UDT - SEAL Association wants to inform about the of upcoming Memorial service for Dr. Christopher Lambertsen. The Memorial will be conducted at 10:00, 10 Oct 2011, at the University of Pennsylvania in a building which is part of the Medical School complex, Philadelphia, PA. Dr. Lambertsen was a member of the OSS and was extremely influential in all diving matters related to our profession. He continued to help the NSW community throughout his life. He is also a recipient of the USSOCOM Medal. His achievements have been chronicled in The Blast. ADM (ret) Eric Olson will be one of the guest speakers. For a direct invitation to the memorial contact his son, Christopher Lambertsen, at [cjl@meridians.us](mailto:cjl@meridians.us). *In 1940 Dr. Lambertsen presented the concept of a closed circuit diving apparatus to the U.S. Navy for use in military operations. He saw a potential operational requirement for teams of underwater assault swimmers. The rebreather unit he developed was called the "Lambertsen Lung" and later the "Lambertsen Amphibious Respiratory Unit" (LARU). The navy however, never acted on Dr. Lambertsen's concept and instructors at the Naval Combat Demolition School in Fort Pierce, Florida, also rejected the use of closed-circuit apparatus. During this period of WWII the Italian navy had developed an effective offensive capability using closed-circuit apparatus against the British. The British soon entered the arena to combat the Italian success, while America stood idle. Still convinced of the soundness of his proposals, Dr. Lambertsen approached the Office of Strategic Services (O.S.S.) whose leadership had a much better understanding of his concept's potential. With Dr. Lambertsen's assistance the Operational Swimmers Groups were organized as a branch of the OSS Maritime Unit. This unit became America's first group of combat swimmers and the origins of many of the tactics of the later Underwater Demolition Teams (U.D.T.) and SEALs can be directly traced back to this group. The contributions made by Chris Lambertsen to diving would fill a book. His research activities, development of equipment, and fundamental approach to advanced techniques for their use are recognized throughout the world. Dr. Lambertsen is the holder of several diving related patents, is the founder and co-founder of notable diving and medical organizations and is the recipient of numerous civilian, military and government awards. He is generally acknowledged as the Father of U.S. Combat Swimming and he and Walter A. Hahn are currently credited in The Oxford English Dictionary with introducing the acronym SCUBA (for Self-Contained Underwater Breathing Apparatus) into the English Language in 1952.*

**Meeting Place: MOST 1<sup>st</sup> Wednesday's: BARNABY'S OF AMERICA**

15 South High Street, West Chester, PA (610) 696-1400

**Parking is free in the garage across High Street if you stay until 9:30! Follow Rt. 3 into town (Market St.), turn left when you get to High Street & you're there on the left! Or Follow Rt. 202 North from DE and go straight when it becomes High Street – go up about 6 blocks and it's on the right (BEFORE Gay St!)**

The KDA *NORMALLY* meets at Barnaby's of America (top floor) the **FIRST** Wednesday of the month beginning at 7 PM, 15 South High Street, West Chester, PA (610) 696-1400. The speaker begins at 8 P.M.

**Wednesday, October 5** Barnaby's; Faith Ortins, DUI rep, takes us to the Antarctic! Meeting @ 7 PM Presentation @ 8 PM!

**Wednesday, November 2** Barnaby's! Meeting @ 7 PM; Presentation @ 8 PM!

**Wednesday, December 7** (or Sunday, December 4) Concordville Inn, Christmas Dinner & Special Guest Speaker: Nick Caloyianis, National Geographic u/w cameraman! Dinner @ 7 PM Presentation @ 8 PM! Get your reservations in SOON!

## DIVER'S ED

Scubadiver @ West Chester YMCA .....Tuesdays - September 27, 2011  
Scubadiver @ West Chester YMCA ..... Sundays - October 2, 2011  
Nauai Advanced Classw/ EBD.....Class Oct. 13. .... Dutch Springs, October 15 & 16, 2011  
Scubadiver @ UMLY ..... Mondays -October 24, 2011  
Scubadiver @ West Chester YMCA ..... Tuesdays -November 8, 2011  
CPR/First Response .....Thursday - October 13, 2011  
Nitrox @ DDD..... Wednesday - October 12, 2011  
NAUI Advanced class w/Kathy Ondrasik.....Class Oct. 24..... Dutch Springs - November 5 & 6,2011  
Divemaster ..... Call for details

❖ *Other Specialty Diver Classes being scheduled – call DDD (610) 436-0176! Private & semi-private lessons upon request!*

The KDA has gone virtual on FACEBOOK: <http://www.facebook.com/KeystoneDivers>

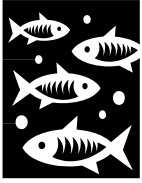
**EBD GOES TO NORTH FLORIDA several times a year! Call DDD (610) 436-0176**

*I can do OW checkouts 12 yrs and older. Anyone wanting to start or continue overhead training or just practice Openwater - scooting too! It's \$399 including housing and food. EBD to cook Family style meals. ANYBODY IS welcome! Even Non Divers! Water is 71 degrees year-round + gin clear. For checkout dives you get about 60 minutes or more of bottom time on each dive. Your awareness of gear configuration is greatly increased & no waves, no blow outs, and NEVER in a hurry! So many cool people, too! Next trip: Oct. 27-31 & Dec. 28-Jan. 2*

## DIVE TRAVEL & EVENTS

Key Largo ..... November 10-14, 2011  
Bonaire w/EBD.....January 7-14-2012  
Tobago w/Blue Waters Inn.....(ONLY A FEW SPOTS LEFT) ..... January 21-28, 2012  
Key Largo ..... April, 2012  
Curacao..... May 5-12 2012  
Kasawari, Lembeh Strait Damai add on ..... May 23-28, 2012  
Raja Ampat Islands, West Papua, Indonesia...(Damai)..1 spot left! ..... May 29-June 9, 2012

**DAN Trip Insurance:** Cover Your Dive or Dream Vacation! Go to the DDD website ([dudasdiving.com](http://dudasdiving.com)) and click "Travel Diving," look for the link on the left that says "Dive Travel Insurance!" Traveling on your own? We can help you with your travel plans. Call for details.



Keystone Divers' Association  
c/o Dudas Diving Duds, Inc.  
104 Bartram's Lane  
West Chester, PA 19382  
(610) 436-0176

## FIRST CLASS

NEXT Meeting : October 5, 2011 – 7 PM!

Barnaby's!

*The Keystone Diver's Association*  
*presents:*



❖ **Faith Ortins** ❖  
**Antartica – World of Ice!**  
**Wednesday, October 5**  
**Meeting @ 7; Speaker @ 8 PM**



For many divers, Antarctica is a "bucket list" dive trip. Last year, Faith led the largest group of non-scientific divers to Antarctica to explore new dive sites. Join us for a fun evening discussing the trials and tribulations of polar diving and viewing the unique and stark beauty of the ice and the creatures that live there.

❖ **Barnaby's, 15 South High Street, West Chester, PA! (610) 696-1400** ❖

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