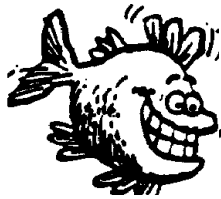


UP AND DOWN THE ANCHOR LINE

KEYSTONE DIVERS ASSOCIATION



Volume 299

September 2011

Next KDA Meeting:

Wednesday, September 7, 2011

Barnaby's with

Dr. Frank Fish

And his High Speed, High Efficiency Manta Rays!

Dinner @ 7 PM; Speaker @ 8 PM!

Yesterday's underwater videos of giant manta rays in Yap may soon become tomorrow's submarines! We first met Dr. Fish when he was studying the bumps along the leading edge of the flippers of humpback whales – these bumps prevent stalling by helping the water to flow evenly over them. This works for air as well and led to the founding of *WhalePower*, a design company which among other things designs wind turbines used in large ventilation fans. Now Frank Fish and 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. Fish and his team have traveled all over the world including Yap to video tape them for 3D images of their swimming capabilities. But for hands-on examination, he relies on the smaller stingray. Using CAT scans, he can observe their shape so the team can mimic how they look and how efficient they are. Their research findings will be passed along to engineers who would design and build a submarine manta robot. Yes! Humans and animals have a LOT to learn from each other!

Dr. Fish has been a member of the biology faculty at West Chester University since 1980 – after completing a M.Sc in 1977 and a Ph.D in 1980 from the Zoology Department of Michigan State University. Currently an associate editor for the journal Marine Mammal Science and serving on the editorial board of the journal Bioinspiration and Biomimetics, his work has been widely published.

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



Buster says:

Artie Fax wants to be
YOUR dive buddy!

Stop in today and sign up for a dive!

Check that dive schedule @ dudasdiving.com!

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

JOHN F. "JACK" BONNER, JR., 64, of West Chester, died suddenly on August 10, 2011 on board the dive boat after a morning dive with his daughter, Maggie, in Grand Cayman. His wife, Peggy, was also on the vacation. We offer our sincere condolences to the family.

Last KDA Meeting: August 3, 2011!

Brad Sheard made his first wreck dive off Long Island back in 1977. Since then a passion for shipwreck exploration has led him to all corners of the globe, in fact, he took us along in "Around the world in 80 wrecks!" I guess I'm just prejudiced, but I still think his East Coast wreck pictures are simply the best! And now after offering comparison, we have proof! We started on the *Duane* in the FL Keys – the wheelhouse with grunts! Truk Lagoon produced a Japanese ship with a telegraph written in ENGLISH! A black & white image of American artillery pieces sitting on a Japanese ship sunk by Americans is an understatement indeed. Well needed troop supplies never made it to Guadalcanal – they stayed behind on the sunken *President Coolidge* in Vanuatu festooned with latrine gargoyles! Malaysia, Guadalcanal & Solomon Islands produced encrusted wrecks, and swirling schools of bumphead wrass and jacks. Malta, Denmark, Norway, Normandy & North Ireland offered an underwater vision of tripod testimonial to WWII. But that manta shot and the image of the humpback whale with the dolphin escort from Socorro Islands were superb! When we returned to the East Coast his extensive knowledge of shipwrecks and creative ability to photograph them is made obvious. From N. Carolina to New Jersey, his fisheye can match any fish eye when it comes to recording wrecks! Ah the gun on the Moonstone is still there, but sadly the boat is gone – she was once a beautiful sight indeed! But thanks to Brad, these wrecks will live on in imagery long after the salt has reclaimed them to the sea. **Brad Sheard** continues to work on his third book & contribute to Wreck Diving magazine. He's written two books, *Lost Voyages: Two Centuries of Shipwrecks in the Approaches to New York*, and *Beyond Sport-diving: Exploring the Deepwater Shipwrecks of the Atlantic*. **Bill Lord took the 50-50. SEA U 9-7-11 @7!**

Hey! Anybody want to help out with the folding and distribution of our monthly KDA newsletter, "Up and Down the Anchorline?" We'll be waiting by the phone for your call! (610) 436-0176 (Share trip stories, too!)

Sign up for a dive or trip yet? Dudas Diving Duds (610) 436-0176 Mail@DudasDiving.com

Say! 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

upcoming KDA events & special stuff

Next KDA Meeting:

Wednesday, September 7, 2011
Dr. Frank Fish * Manta Mania
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)

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

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.

➤ **KDA Email address:**
mail@dudasdiving.com

➤ **The official KDA Web address:**
www.dudasdiving.com/keystone-divers/

SPECIAL ANNOUNCEMENTS & NEW STUFF!

We're going back to the St. Lawrence Seaway!

Join us September 10 and 11 for a weekend getaway to the warm waters of...Canada? Yup, the surface of the Great Lakes warms up in the summer and by September the St. Lawrence is sipping that nice warm water from the surface. Come dive some great wrecks! Only \$199! Brockville Travel Lodge 613-345-3900 \$50.00 pp dbl

The Monitor is Out of Water for the Summer (Read the complete NY Times article at marinersmuseum.org)

USS Monitor Center of the Mariners Museum, Newport News, VA - Better hurry if you want to see the turret from the Monitor dry because she will be re-immersed for another 15 years in fresh water just as soon as the conservators finish carefully scraping all the barnacles and sediment off of her! She has been in a fresh-water bath for the last nine years since her recovery off Cape Hatteras, NC in 2002. She was lost with 16 crew in a storm off of Hatteras in 1862 after successfully saving the Union Navy in a battle with the Confederate *Virginia* (i.e. USS Merrimack) that ended in a draw. It's open to the public. The live webcam is at www.marinersmuseum.org/uss-monitor-center/conservation-uss-monitor-s-steam-engine-webcam

USS Arthur W. Radford, former Navy destroyer now the largest artificial reef in region!

On August 10, 2011, as former crew members looked on from the Cape May-Lewes Ferry, the 564.3' destroyer took four hours to reach her new home on the bottom of the Atlantic. The reef, called Del-Jersey-Land for the three states involved in the project, is roughly 28 miles northeast of Ocean City Inlet and about equidistant from Indian River Inlet and Cape May. Commissioned in 1977 and decommissioned in 2003, she served the Mediterranean Sea and the Arabian Gulf. Along with miles of copper & treated wire and piping, 8 tons of her aluminum bridge was cut off for recycling to create 60 feet of navigational clearance from her 120' depth. Get over to DDD and sign up for a visit!

Meeting Place: 1st 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!)

Keystone Divers Association 2011 Membership Application

New Member Renewal Member (\$25/ea. - \$40 couple)

Name: _____ Phone Day: _____ Birthdate _____

Address: _____ Phone Nite: _____ Customer# _____

_____ Certifying Agency: _____ When? _____

Occupation: _____ Certification Level: _____ Where? _____

E-Mail Address (for online newsletter): _____

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, September 7 Barnaby's; Biologist, Dr. Frank Fish: Yesterday's underwater videos of giant manta rays in Yap may soon become tomorrow's submarines! Meeting @ 7 PM Presentation @ 8 PM!

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!

DIVER'S ED

ScubaDiver @ UMLY Mondays –Sept 12, 2011

ScubaDiver @ West Chester YMCA Tuesdays –Sept.27, 2011

ScubaDiver @ West Chester YMCASundays, Oct. 2, 2011

CPR/First Response Wednesday, Sept. 21, 2011

Rescue..... Thursday, Sept. 29,2011

Nitrox @ DDD.....Wednesday, Oct. 12, 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: 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! We have housing for \$25/nite. 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 great conglutination is greatly increased & no waves, no blow outs, and NEVER in a hurry! So many cool people, too! Next trip: Call EBD to sign up!

DIVE TRAVEL & EVENTS

St. Lawrence Seaway w/Seaway Vision.....September 10 & 11

Little Cayman Beach Resort.....Just a few spots left!.....September 17 - 24

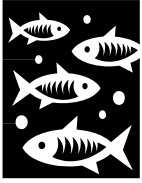
Key Largo November 10-14, 2011

Tobago at the Blue Waters Inn.....January 21-28, 2012

Kasawari, Lembah StraitMay 18, 2012

Raja Ampat Islands, West Papua, Indonesia 2 spots left!Memorial Day, 2012

DAN Trip Insurance: Cover Your Dive or Dream Vacation! *Go to the DDD website (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 : September 7, 2011 – 7 PM!

Barnaby's!

The Keystone Diver's Association
presents:



❖ Dr. Frank Fish ❖

with his High Speed, High Efficiency Manta Rays!

Wednesday, September 7

Meeting @ 7; Speaker @ 8 PM



We first met Dr. Fish when he was studying the bumps along the leading edge of the flippers of humpback whales – these bumps prevent stalling by helping the water to flow evenly over them. Now he and 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. Their research findings will be passed along to engineers who would design and build a submarine manta robot.

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

Yesterday's underwater videos of giant manta rays in Yap may soon become tomorrow's submarines!
Yes! Humans AND animals have a LOT to learn from each other!