



BOSTON SEA ROVERS

OCTOBER 2ND & 3RD
2021



International Ocean Symposium & Film Festival
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Close your eyes and take a long, slow breath,
Feel the water caress your skin,
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-Dan Orr

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President's Welcome



How incredible it is to welcome you back to the Boston Sea Rovers for our 67th Annual underwater clinic!

What a journey the last 18 months have been since we were last all together. Who knew that at our last show in March of 2020 we would be about to embark on one of the most emotionally taxing challenges of our generation?

The pandemic has certainly thrown many challenges to our daily lives, and it has changed many things about the way the world works. Digital presentations and conferences have become the "new norm", and an incredibly digitally focused society has been pushed even further into remote connections. I am a big believer that we, as a society, need personal interaction to be happy and healthy, and that

is why I am so excited to join you "In-Person" for our 2021 show. There are only so many zoom presentations one can take; so, I invite you to sit down, take a moment and enjoy the astounding collection of people and information we have gathered for you this year.

We were quite lucky to be the last show before the pandemic, and we are incredibly proud to be the first show back.

Welcome, enjoy, and as always, if you see me around the show, please feel free to say hi!

Nick Fazah
President, Boston Sea Rovers

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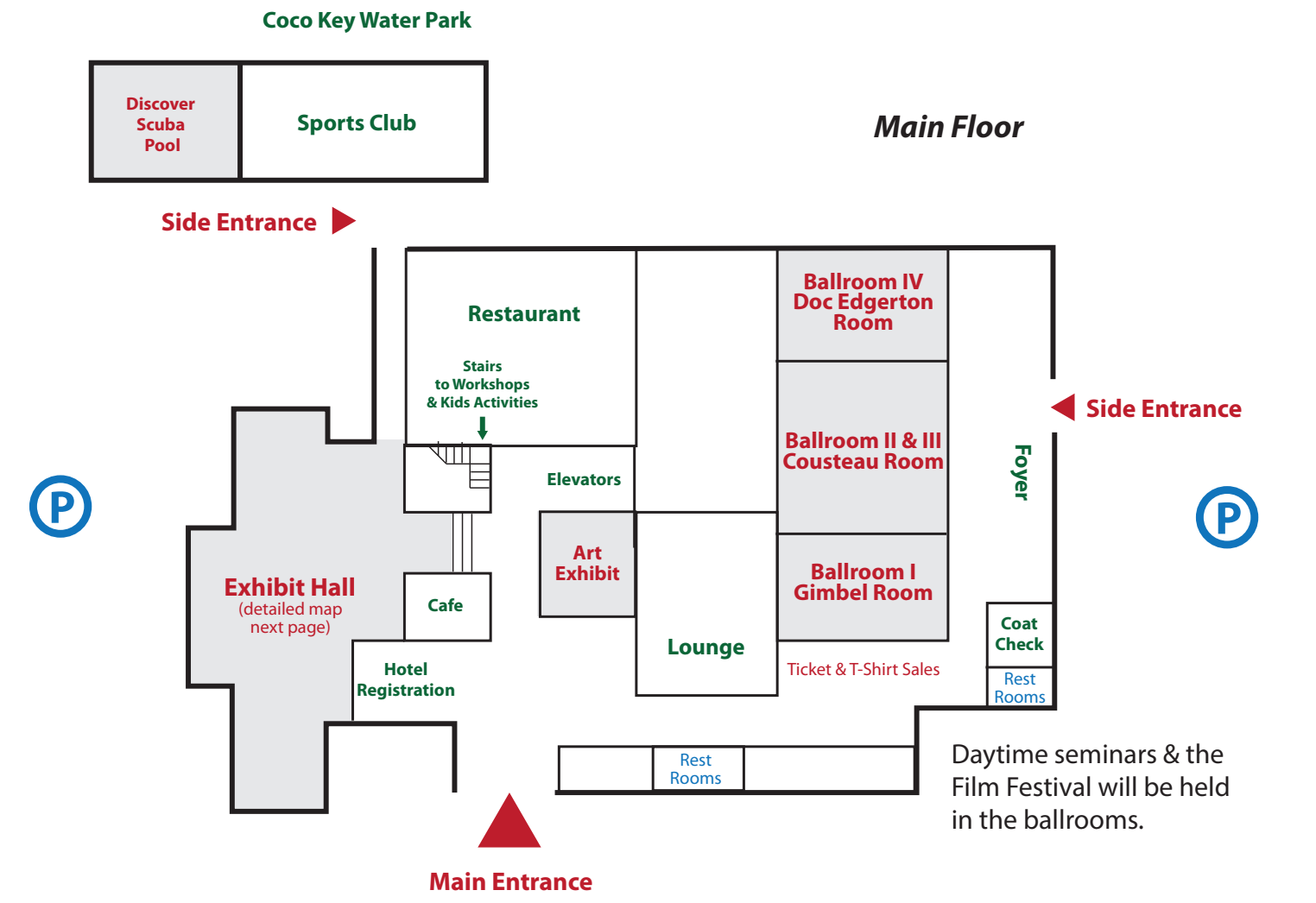
Meet the Katana 2—a low profile, modular, streamlined and minimalist harness designed exclusively for the dedicated sidemount diver.

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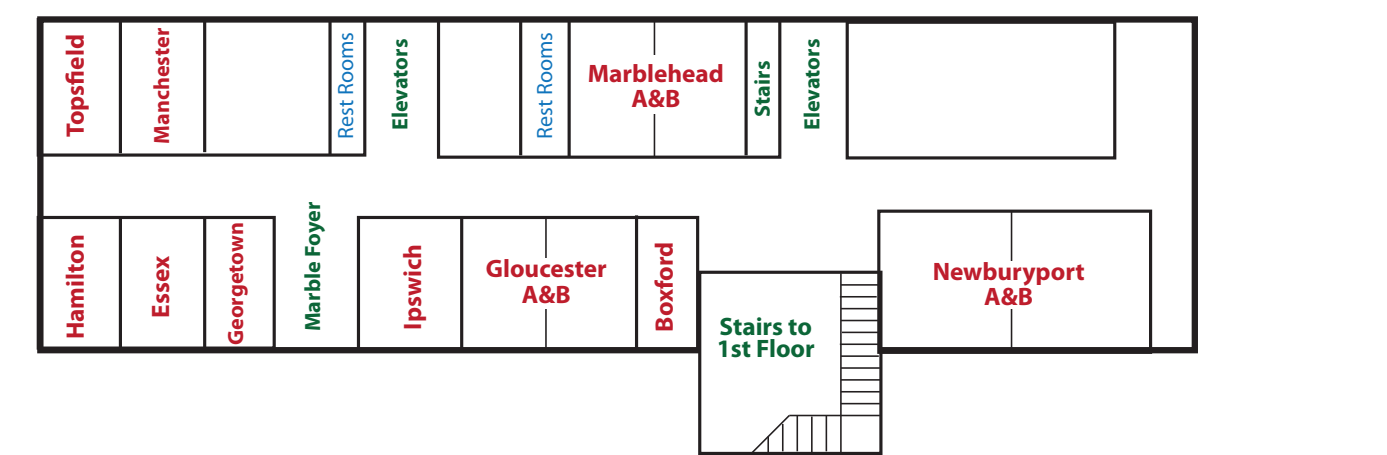
Are you?

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Facility Map - DoubleTree by Hilton Boston North Shore Danvers, MA



Workshops are located on the 2nd floor, accessible via elevators, or the grand staircase near the exhibit hall.





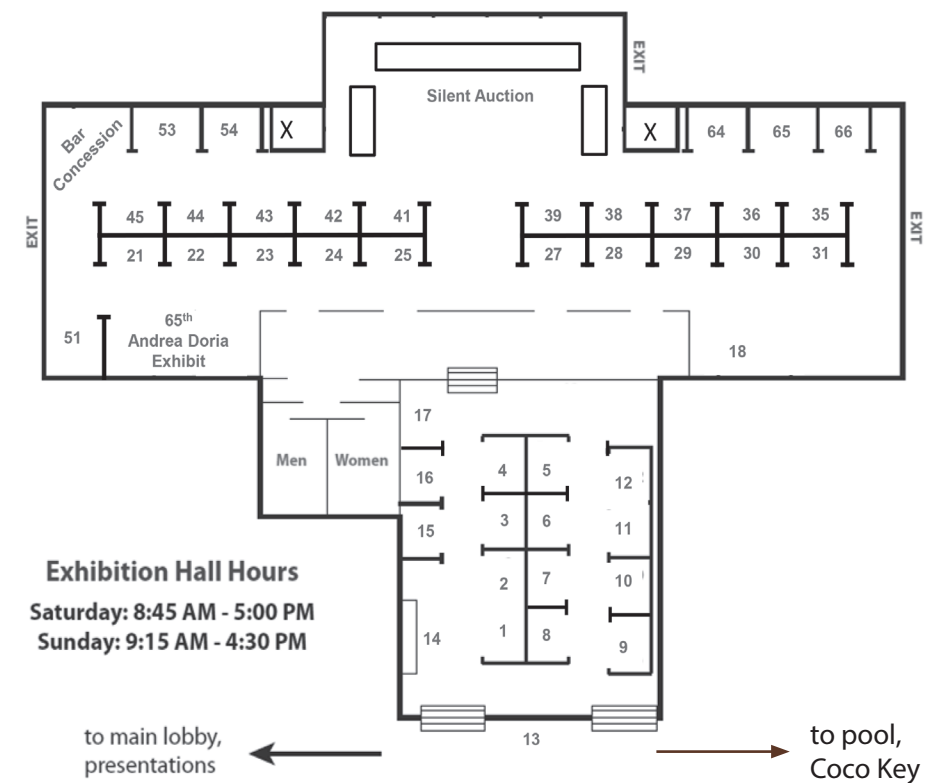
The Adventurer's Drysuit

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fourth element
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Show Sponsors

The Boston Sea Rovers would like to extend a hearty thank you to those companies who have supported our mission with their generosity. Please be sure to support them by visiting: www.bostonsearovers.com/sponsors and following the links to their websites.

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Bronze Sponsors & Large Item Donors



Silver Sponsors



Solid Brass Sponsors

The following Sea Rovers and friends have made a donation to help our organization bring you this program guide and in support of the Sea Rovers' mission: Education, Conservation and Exploration of the Underwater World.

John Lyons

George Buckley

In Honor of Beneath the Sea Pioneer, Armand "Ziggy" Zighan

Valerie E. Gould

In Honor of Beneath the Sea Pioneer, Armand "Ziggy" Zighan

If you'd like to help support the Sea Rovers mission, go to www.bostonsearovers.com/donate/

Door Prizes, Auctions & Raffle Items

This is a banner year for incredible prizes for you to win. Winners will be drawn throughout both days of the show and the winners list will be updated regularly, so be sure to keep checking. In addition, be sure to purchase raffle tickets and check out the silent auction for a chance to win more great prizes. **All daytime prizes must be picked up in person no later than Sunday at 3PM, or they will be forfeited. Some of these special prizes will be awarded off the Film Festival stage on Saturday night. You must be present to win.**

Proceeds from the Sea Rovers raffles and silent auction support our mission "Dedicated to raising the knowledge of the underwater world" through education, exploration, and conservation and funds are used to help produce the show each year and for special programs like the Boston Sea Rovers Summer Internship. Please continue to support these important programs and our sponsors.

2021 Film Festival Drawings!

Winners must be present at the Film Festival to win. The winners will be selected at the end of intermission and must come up to the stage at the end of the Film Festival to claim their prizes.

7 nights accommodation on any luxury Dive Damai vessel - only 3 divers per guide! Courtesy of Dive Damai and Reef & Rainforest. Approximate value \$4,725.

Sherwood SR2 Regulator and Octo, computer console, and BCD, donated by Sherwood and Bill O'Malley - Approximate value \$1,500.

1-Dive in the New England Aquarium's Giant Ocean Tank - Approximate value - priceless!

2021 Raffle & Super Raffle

\$10 per ticket, 3 for \$20 \$60 per ticket, 3 for \$150

*Here's a sampling of some of the amazing gear and travel prizes**

A trip for one aboard one of Indonesia's most experienced dive vessels, the Pindito. Approximate value **\$5,600**

7-night trip aboard the Bilikiki to the Solomon Islands! Courtesy of Reef & Rainforest. Approximate value **\$3,815**

7-night accommodations in the Philippines, courtesy of Atlantis Dive Resorts and Liveboards. Approximate value **\$2,200**

5 Day Dive Package, with Night Dive and Nitrox courtesy of St. Croix Bluewater Adventures. Approximate value **\$1,800**

7-night trip, with 2-tank boat diving for two at Clearly Cayman-Reef Divers East Bay Resort- In South Caicos, Courtesy of Caradonna. Approximate Value **\$2195 per person**

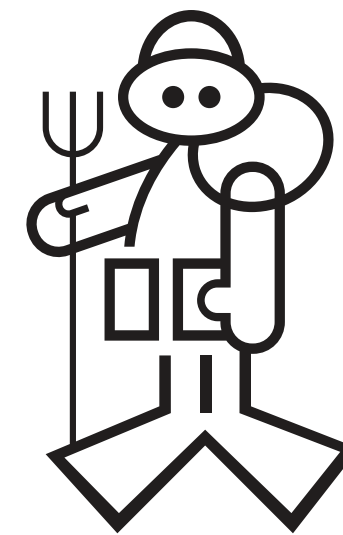
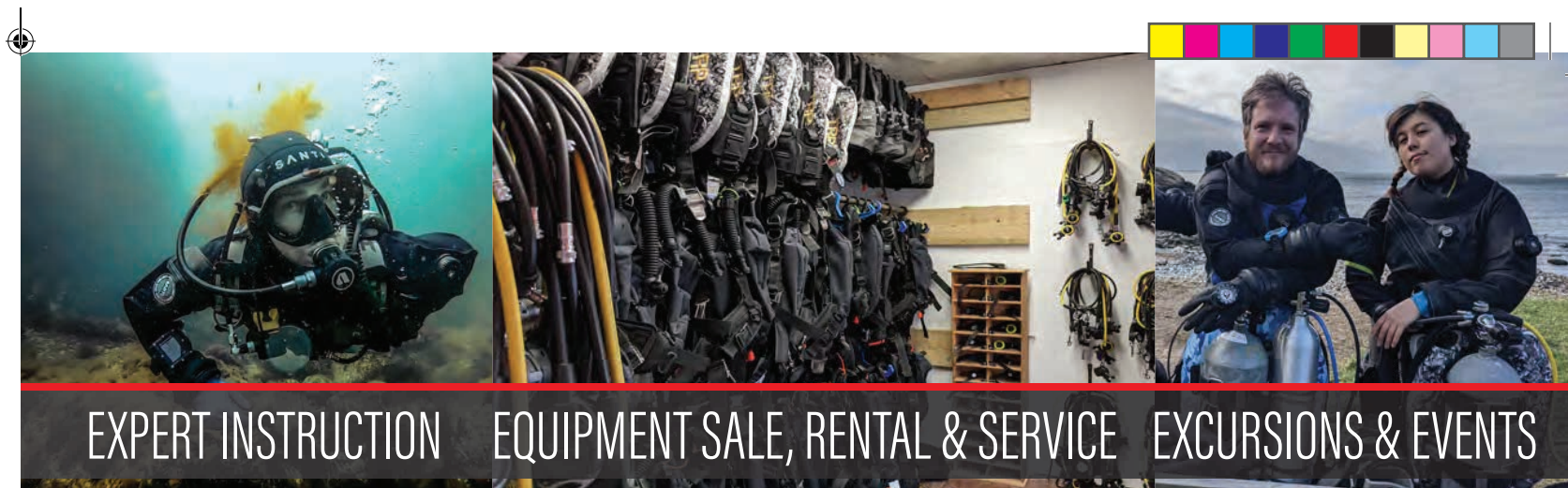
A Shearwater Teric computer. Approximate value **\$1,500**

DAN First Aid Kit

Princeton Tec Light

*Your chances of winning in the **Super Raffle: 1 in 30!** A maximum of 200 tickets will be sold!*

* For full item list and descriptions, see the rules and regulations sheet where the **Raffle & Super raffle tickets are sold**. Add tional fees and taxes may apply. Winners are responsible for any additional fees and taxes that may apply. Prizes are non-transferable and cannot be sold or redeemed for cash value.



EAST COAST DIVERS





2020 66th Boston Sea Rovers Clinic (Front Row Kneeling, L to R): Bill Buckley, Dawn Guglielmo, Pat Morton, President Nick Fazah, Holly Martel-Bourbon, Tom Murray, Rob Robinson, Ryan Hunter, Dave Morton, Michel Labrecque; 1st Row (L-R) : Evening Speaker Erick Higuera, Pat Stayer, Faith Ortins, Marty Klein, Nancy McGee, Julie Ouimet, Dee Malkoski, Kim Malkoski, 2020 DOY Joe Hohmann, Mike Zappala, Cindy Butts, Joy Marzolf, Catherine Chan-Tse, Amy Mauer, Jake Stout, Jennifer Penner, Joel Penner, Erin Quigley, Wes Pratt, Vin Malkoski; Back Row (L-R) Roger Hanlon, Jim Stayer, Ethan Gordon, Greg Skomal, Paul Cater Deaton, Jenny Collister, Ted Maney, Ed Hayes, Keith Kelly, Mike Guglielmo, Jeff Pagano, Paul Leonard, Rob Weintraub, Woody Tinsley, Pete Narwrocky, Mike Williams, Bill Vanderlock, George Buckley, Steve Gatto, Pete Symasko, Alex Dulavitz, Joe Mazraani, Tom Packer, Andy Martinez, Rick Simon, Tom Mulloy, Kathy Murray, Robby Laak, Mark Dixon, Berkley White

The 2020 Boston Sea Rovers

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Keith Kelly
Pat Morton

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Keith Kelly, Treasurer
Robbi Laak, Secretary

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Alex Dulavitz
Laura Gallagher
Ethan Gordon
Dawn Guglielmo
Mike Guglielmo
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Paul Leonard
Dee Malkoski

Vin Malkoski
Ted Maney
Joy Marzolf
Amy Maurer
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Jake Stout
Woody Tinsley
Rob Weintraub
Mike Williams

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Fred Dion
Mark Dixon
David Doubilet
Evelyn Dudas
Bill Dworet
Sylvia Earle
Keith Ellenbogen
John Ellerbrock
Frank Fennell
Steve Gatto
Amy Giannotti
Al Giddings
Glennon Gingo
Carol Gross
Dicky Gross
Howard Hall

Michele Hall
Roger Hanlon
John Hannon
Jill Heinerth
Butch Hendrick
Walter Hornberger
Hank Keatts
June Keiser
Roy Keiser
Marty Klein
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Ken Lavigne
Lee Livingston
Mike Lodise
Pat Madden
Joe MacInnis
Matt Marcoux
Andy Martinez
Charles Mazel
Joe Mazraani

Nancy McGee
Chris Meyfarth
Tom Mount
Tom Mulloy
Kathy Murray
Tom Murray
Pete Nawrocky
Bill O'Malley
Lisa O'Malley
Oedipus
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Dan Orr
Faith Ortins
Julie Ouimet
Tom Packer
Jeff Pagano
Frank Panaccio
Jennifer Penner
Joel Penner
Wes Pratt
Erin Quigley
Joe Romeiro
Pat Rooney

Rick Rosenthal
Bradley Sheard
Rick Simon
Dave Sipperly
Brian Skerry
Greg Skomal
Rick Stanley
Jim Stayer
Pat Stayer
Greg Stone
Peter Symasko
Eric Takakjian
Neil Tassel
Susan Tunis
Terrence Tysall
Bill VanderClock
Dave Wagstaff
Barrie Walden
Berkley White
Andrea Zaferes
Mike Zappala
Zachary Zevitas
JoAnn Zighan

The Boston Sea Rovers Mission

The Boston Sea Rovers is an all-volunteer non-profit organization "Dedicated to Raising the Level of Knowledge of the Underwater World" since 1954. It is our mission to organize this yearly event designed to engage you, the public – divers, nature enthusiasts, photographers and filmmakers. In addition, we are graced by speakers who travel from the far corners of the planet to present at our show. They're a mix of the world's best and brightest professionals focused on the underwater world. Beyond engaging the public, their presence here has also forged many long-term professional relationships that have changed the face of diving and underwater exploration. For more information on the Boston Sea Rovers, go to: www.bostonsearovers.com.

Diving with the Rovers

The last time we were together, many of us left the show with plans and hopes for another great diving season. Most everyone not diving professionally ended up leaving their gear in storage for the majority of 2020. For the most part, the Sea Rovers were no exception, but some folks did get out and things picked up in early 2021.

In 2020, a team that included Associate Sea Rovers **Joe Mazraani**, **Steve Gatto**, and **Tom Packer** discovered the bow of *M.S. Stockholm*, the ship that sank *S.S. Andrea Doria*. In collaboration with **Eric Takakjian**, the team also discovered the final resting place of *S.S. West Point*, a freighter sunk by *U-53* in WWII. Continuing their discoveries, Mazraani, Takakjian, Packer, and **Gary Kozak** located and identified the remains of the U.S. submarine *R-8 (S.S. 85)*. In August 2021, Mazraani and **Rick Simon** dove *R.M.S. Lusitania* as part of a joint American and British expedition.

Michel Labrecque and **Julie Ouimet** spent most of last year diving in cold-water environments, leading local trips and developing new dives sites and destinations in the Gulf of St. Lawrence, North of 50°. They also launched a new exploration-based dive charter business and hope to cover Quebec's most well-known sites including: Les Escoumins, the Saguenay Fjord, and the historic wreck of the *Empress of Ireland*. Michel became a licensed captain, and both gave numerous online talks and presentations for PADI, the local Explorers Club chapter, Divescapes, and numerous dive clubs in Canada and the US.



Rob Robinson was able to travel to the Maldives in April 2021 for a 10-day live aboard experience. **Joy Marzolf** wasn't able to dive but did form an educational company, The Joys of Nature. She is planning several trips for the Oceanic Society this fall and winter to Belize and other locations. **Woody Tinsley** did manage to raid the megalodon ledges off North Carolina and in St Mary's River, although no rare or questionably historic finds were recorded. Woody also was able to complete Diveheart instructor training. **Jake Stout** dove all year in New England and travelled with Kids Sea Camp to the Galapagos Islands in July.

George Buckley has been working on a project and film to protect the large natural area of Plantation Bolivia and its near shore coral reefs from a development project in Bonaire. People can help through the website – saveplantationbolivia.com. George also noted that the 50th Anniversary of the first female scientist's dive in ALVIN was observed in August 2021. Sea Rover and 1992 Diver of the Year, **Ruth Turner**, made the first of many dives to study deep sea marine life, particularly the wood eating bivalve mollusks, Teredos. **Kim Malkoski** had a busy year diving at WHOI with non-stop training and ocean research. This work included 3 weeks in the Florida Keys helping scientists to look at exhalants from sponges. **Vin and Margaret Malkoski** went seal diving off the Dry Salvages and other local sites. Vin also joined **Faith Ortins** on a trip to the Galapagos in December. **Nick Fazah** went to Socorro in November and Tulum in October for some freediving and Scuba.

Holly Bourbon had very busy year diving to support the National Aquarium's Husbandry team and the Ring Tank exhibits in the face of closures and massive staff reductions. She did manage some local travel and was back in Cuba on a GreenBlue Expedition in October. Although **Paul Leonard** claims to have been training his whole life for this moment - becoming a dive shop store manager – we suspect that he may have been in the sun too long. Nevertheless, we congratulate Paul on joining the team at East Coast Divers. Enjoy the show!

Victoria Stone & Mark Deeble – 2021 Walter Feinberg Diver of the Year

Victoria Stone and Mark Deeble are world renowned wildlife filmmakers who have lived and worked in East Africa creating ground-breaking stories for over 30 years. Their films celebrate biodiversity and the inter-connectivity of the natural environment, and they have dedicated their lives to bringing awareness of the fragility of nature to audiences around the globe. This husband and wife team produce 'authored' films – they direct, film, produce and write their own work. They are respected for their ability to immerse themselves in their subjects – typically living on location with a small, dedicated team for 2 years to shoot each film. They are both accomplished divers and pilots, and loving parents who brought up their two sons while living in remote wilderness sites throughout Africa. Their films have garnered more than 100 international awards and they have received numerous prestigious honors for their contributions to wildlife filmmaking, earth science and on behalf of the wildlife on land, and within the sea. Awards include Emmys®, Peabody®, Griersons, and numerous Best of Festivals including Jackson Hole, and the UK Documentary awards. The Wildscreen Festival, the world's leading international festival for nature films, has also presented numerous awards to Deeble and Stone throughout the years, including Best Cinematography and 'Green Oscars', and in awarding their Golden Panda award for the best film of the festival for *A Little Fish in Deep Water*.



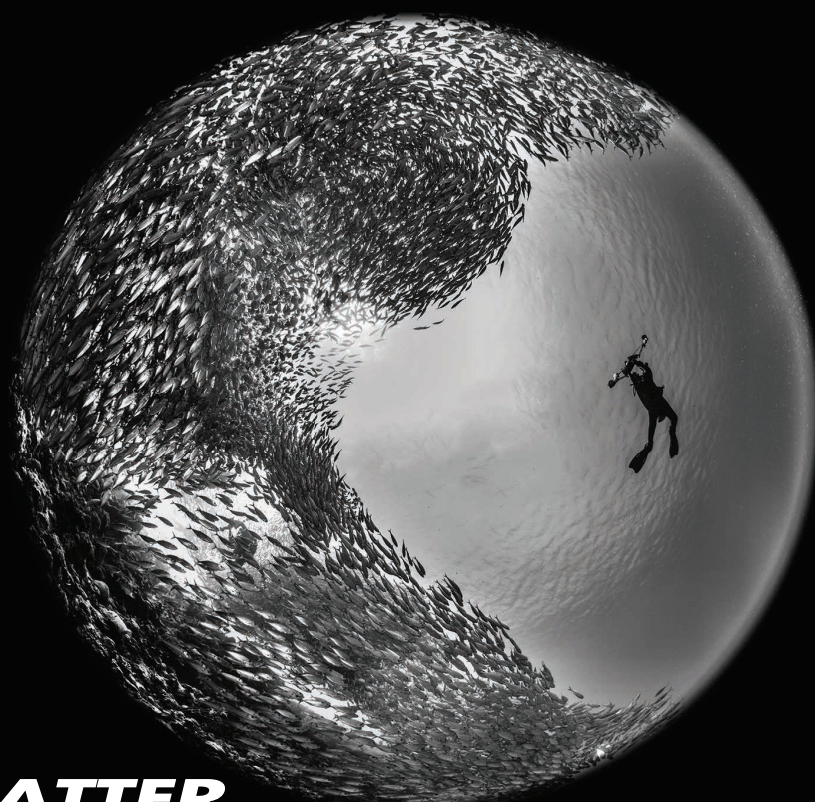
Mark and Vicky's filming and choice of subject has always been driven by conservation and their passion for the natural world. The couple build outreach and educational programs around their films which include translating the films into other languages, donating the broadcast rights to the countries in which they are made, and working on the ground with local conservation groups. They've recently completed their first feature, the award-winning *The Elephant Queen*, which became the first feature film to be purchased and released by Apple plus. Their now-classic wildlife film "Mzima: Haunt of the Riverhorse" was awarded Gold at the prestigious Peabody Awards. This evocative documentary combined powerful storytelling with un-compromised production values and specialist cinematography that took audiences into the underwater realm of two of Africa's most dangerous animals, the hippopotamus and the crocodile. Filmmakers Mark Deeble and Victoria Stone spent two years documenting the remarkable way in which a family of hippos brought life to Kenya's crystal-clear Mzima spring. Using cutting edge diving techniques and an underwater camera system they devised, Deeble and Stone chronicle the intimate behavior of these animals, much of it new to biologists. Their film reveals the intricate pyramid of life supported by the hippos and the astonishing animal behavior hidden beneath the surface of Mzima. A seemingly simple story, this visually stunning documentary resonates well beyond the banks of an oasis in the African bush to link all nature.

Whether at risk from being attacked by cobras or stomped on by elephants while entombed for 12 hours a day baking beneath the brilliant African sun, lying still in a man-made tunnel within inches of submerged hungry hippos, or flying above a vicious sandstorm searching for the lone runway buried beneath a layer of dust, this dynamic duo have been risking their health, and sanity, for over three and half decades to capture images others could barely comprehend. For this, and so much, much, more, it is with great pride that the Boston Sea Rovers award our 2021 Walter Feinberg Memorial Diver of the Year Award.

The inscription on the Paul Revere silver bowl reads:

Victoria Stone and Mark Deeble
 Passionate Conservationists & Visionaries Creating Breathtaking Images
 that Capture the Glory of Wildlife About, and Within, the Wild Waters of Africa

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|------------------------------|---------------------------------|----------------------------|
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| 1957 Peter Gimbel | 1978 Eugenie Clark | 2000 John Cronin |
| 1958 James Cahill | 1979 Sylvia Earle | 2001 Sam Raymond |
| 1959 James Dugan | 1980 Robert Ballard | 2002 Peter Benchley |
| 1960 George Bond | 1981 Larry Emmerson | 2003 Howard & Michele Hall |
| 1961 Harold Edgerton | 1982 Elga Andersen | 2004 The Boston Sea Rovers |
| 1962 Hans Keller | 1983 Frank Scalli | 2005 Mike DeGruy |
| 1963 Pablo Bush Romero | 1984 Don Stewart | 2006 Phil Nuytten |
| 1964 Alan Krasberg | 1985 Walt Hendrick, Sr. | 2007 Ernie Brooks |
| 1965 Kip Wagner | 1986 Rusty Murray | 2008 Bob Talbot |
| 1966 Scott Carpenter | 1987 Argo/Jason Jr. | 2009 Brian Skerry |
| 1967 Stan Waterman | 1988 Emory Kristof | 2010 Wes Skiles |
| 1968 Joseph MacInnis | 1989 Stan Waterman | 2011 Marty Klein |
| 1969 Al Giddings | 1990 John Stoneman | 2012 Jill Heinerth |
| 1970 Melville Bell Grosvenor | 1991 Walt "Butch" Hendrick, Jr. | 2013 Bob Boyle |
| 1971 George Benjamin | 1992 Ruth Dixon Turner | 2014 Greg Stone |
| 1972 Paul Tzimoulis | 1993 Dee Scarr | 2015 Rick Rosenthal |
| 1973 Smokey Roberts | 1994 Nick Caloyianis | 2016 Dr. Greg Skomal |
| 1974 Jack McKenney | 1995 Bill Curtsinger | 2017 Don DeSantis |
| 1975 David Doublet | 1996 Wes Pratt | 2018 Berkeley White |
| 1976 Luis Marden | 1997 Bill Hamilton | 2019 Joe Romeiro |
| | 1998 Frank Fennell | 2020 Joe Hohmann |

67th Annual International Film Festival



Jim Standing

Jim Standing, the Master of Ceremonies for the evening began his scuba diving career as so many kids do. In the bath armed with mask and snorkel. After learning to dive aged 15, he studied Zoology at Cambridge University where he spent some of his final year experimenting on himself to investigate the effects of different temperatures on the consumption of air during immersion.

After some more traditional experiences traveling and diving around the world, sometimes in previously unexplored sites, he founded Fourth Element in 1999 with Paul Strike with the objective of producing the highest performing thermal protection for divers. Since then, the company has grown to become a leader in innovation and sustainability in the scuba diving industry and is also the founder of both the Underwater Film Festival and the Underbathwater Photographer of the Year Competition. In his spare time, Jim is the European Coordinator of the Our World Underwater Scholarship Society.



Maxwel Hohn

A nature and wildlife cinematographer and photographer with a passion for showcasing the world's stunning natural diversity. Maxwel grew up on the Sunshine Coast of British Columbia before travelling around the world evolving his skills as a photographer. Honduras, Vietnam, Norway, Greece, The Bahamas, and Tanzania all helped sharpen his talent to become one of Canada's leading, and award winning nature photographers and videographers.

Maxwel is a certified commercial diver, rebreather diver, underwater and above water RED camera operator, tech diver, cave diver, experienced drone pilot, and acclaimed photographer. He's also a brand ambassador with Light & Motion, and Huish Outdoors (Hollis, Bare Sports, Suunto Zeagle), and proud Canadian!



Michele & Howard Hall

Howard and Michele Hall are wildlife filmmakers who specialize in marine wildlife films. Working as a team, Howard and Michele have produced and directed many television films including a National Geographic Special, three episodes of the PBS series *Nature* and the five-hour PBS series *Secrets of the Ocean Realm*.

The Halls are perhaps best known for their underwater IMAX films. IMAX films produced and/or directed by Howard and Michele include *Into the Deep*, *Island of the Sharks*, *Deep Sea 3D*, and *Under the Sea 3D*. Howard and Michele have participated in many other underwater IMAX productions in various capacities, including MacGillivray Freeman Films' IMAX film *Coral Reef Adventure*, *Journey to the South Pacific*, and *Humpback Whales*.

They are currently in production on two films. One is an IMAX film, *Secrets of the Sea*, scheduled for 2022. The second, a 4K feature-length documentary called *Soul of the Ocean*, will be completed in late Spring 2021, and will later be available on a yet-to-be-determined streaming venue.

The Halls strive to make family-friendly films that raise awareness of and increase appreciation for the marine environment. During the past 30 years, the films they have produced have been seen by thousands of children and adults. They consistently receive feedback in letters, emails and in person from many who have said that not only have their films increased their knowledge of the marine environment, but they have also been the inspiration to turn career choices toward marine sciences and / or environmental issues.

Howard is a member of the Directors Guild and the Academy of Motion Picture Arts and Science. Michele is a member of the Academy of Television Arts and Sciences and the Women Divers Hall of Fame. The various awards they've received include being inducted into the International Scuba Diving Hall of Fame and being named as honorees of the Hans Hass Award. Both are recipients of the Academy of Underwater Arts and Sciences' NOGI Award.

Steve De Neef

Steve De Neef is a cinematographer, director and photographer based in Maine. He specializes in ocean related stories and is equally at home filming below the surface, swimming in big surf or flying drones from boats to capture the beauty of our blue planet. Steve often works with scientists, NGO's and ocean communities in the hopes of inspiring positive change and getting research and conservation efforts seen by a broader audience. He has extensive experience working for large TV productions and working on solo projects from pre-production to post. He has worked with numerous magazines, NGO's and production companies like National Geographic, BBC, Hakai Magazine, The Pew Charitable Trust, Discovery Channel, New York Times, TIME, BioGraphic, Asian Geographic, Ocean Geographic, Concern Worldwide, Red Cross and many more.

As a broadcast cinematographer, Steve has filmed for the BBC Natural History Unit series *Shark*, multiple shows for National Geographic including the 2017 documentary *Sea of Hope* and has worked extensively on the Disney+ and National Geographic series *Secrets Of The Whales* where he filmed multiple firsts including a sperm whale calf nursing from it's mom. Steve's images and films have been shown and won awards in numerous competitions and film festivals like Nature's Best Photography, Outdoor Photographer of the Year, Beneath the Sea, Beneath the Waves film festival, Wildlife Conservation and Film Festival, San Francisco Ocean Film Festival, Ocean Art, ADEX photographer of the year, Oasis and more. Steve is a regular speaker on photography and conservation and is a TEDx Alumini. He lives in coastal Maine with his wife and three children. He is represented by The National Geographic Image Collection.

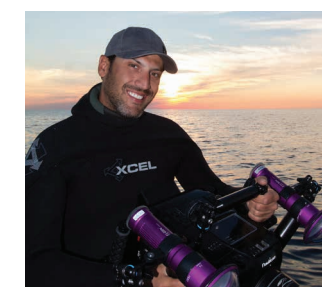
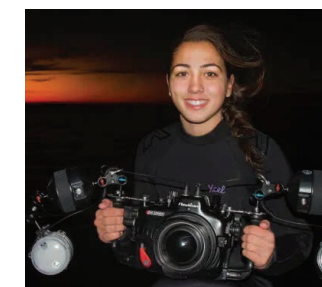
Lauren & Joe Romeiro

Lauren Romeiro is a marine scientist and well-respected photographer/cinematographer focusing on the conservation of sharks in the Northwest Atlantic. She holds a B.S. in Marine Biology and a Master's in Oceanography from the University of Rhode Island.

Lauren started working for 333 Productions in 2017 as a cinematographer and has been featured on the Discovery Channel, National Geographic, Lionsgate pictures, Facebook, and ESPN. Along with highly acclaimed underwater cinematographer Joe Romeiro, they operate a wildlife filming and conservation vessel, the *R/V WARFISH* from Rhode Island. She has quickly made an impact in the shark world and is working on her PhD specializing in endothermic sharks and pelagic sharks throughout the Northwest Atlantic. Using deep-sea BRUVs, eDNA, fin cameras, psat tags, and biopsies for reproductive hormones and isotope analysis all on free swimming animals, Lauren will be able to get a better understanding of the socialization, mating, and hunting behavior of these animals.

Joe Romeiro is a multi-award-winning underwater cinematographer, as well as a producer, director, editor, photographer, artist, and shark researcher. He has worked as a T.V. show presenter for many of the world's top production companies and networks including the BBC, National Geographic, Discovery Communications, Facebook, Oprah Winfrey Network/OWN, MSNBC, NBC, CBS, FOX, and Lionsgate Pictures. He has been a regular on Discovery Channel's *SHARKWEEK* and National Geographic's *SHARKFEST*.

Joe is a member of the Explorer's Club, Ocean Artists Society, and a Boston Sea Rover. He has worked with many of the top scientists in the field of shark research and behavior, earning a reputation as a highly respected shark naturalist with over a decade of experience filming and interacting with different sharks from all over the world.



Join us after the Film Festival for our renowned

Meet the Speakers Party

This is your opportunity to meet the speakers up close and personal, see the famous Sea Rovers dunking ceremony and dance until the wee hours of the morning. The party will be in the ballroom adjacent to the Film Festival presentation.

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The following Sea Rovers and friends have made a donation to help support the Boston Sea Rovers Summer Internship.

2020 Film Festival Participants:

(L to R) Ryan King, Erin Quigley, Joe Hohmann, Kelvin Murray, Erick Higuera, BSR President Nick Fazah, Richard Simon, Joe Mazraani, Evan Kovacs



2021 Boston Sea Rovers Summer Intern

For 17 years, the Sea Rovers' Summer Internship has played a major role in our mission to produce the next generation of diving leaders. Following the spring semester, the 2022 Intern will partner with members of the Boston Sea Rovers and associates located throughout the United States to experience a wide variety of jobs and career choices. Based in part on the personal interests of the Intern, the Internship will provide advanced dive training courses and ample opportunities to dive and train with a variety of dive professionals in a broad cross-section of diving environments. Opportunities can include hands-on work with professional underwater photographers and filmmakers, educational specialists, marine engineers and scientists, equipment manufacturer's representatives, and dive shop owners. In addition to the unique time spent with some of our most distinguished members, the Sea Rovers Intern will be outfitted with dive equipment (provided by Sea Rover corporate sponsors) for their use throughout the summer and will receive the necessary financial support to ensure travel and living expenses. To be considered for the Sea Rovers Summer Internship, the candidate must be a certified diver living in New England, a graduating high school senior, college freshman or sophomore, have outstanding scholastic grades and extra-curricular activities, and be committed to an underwater career.



Boston Sea Rover Intern Alumni, 2020

Hailey Springer, 2022 Intern



The Sea Rovers proudly announce that Hailey Springer of York, Maine is the 2022 Boston Sea Rovers Annual Summer Intern. Hailey will be a freshman at the University of California, Santa Barbara in the fall, majoring in marine science. She is planning a career as a freelance photojournalist that combines her interests in science, conservation, and education. Hailey is a new diver and looking forward to gaining new skills. While in high school, Hailey prepared a research paper related to her career goals - A Correlational Analysis of Marine Conservation Photography and Predicted Public Action Based on Demographics to Further Marketing Strategies - produced promotional videos for local businesses and received academic awards for her work in broadcast media, digital imaging, and graphic design.

Applications for the 2023 Internship must be received by June 30th, 2022:

Please see our website
www.internship.bostonsearovers.com

2021 Boston Sea Rovers Dive Training Scholarship

The Sea Rovers are proud to share the The Jake Duvall Memorial Diving Scholarship. Named for one of our tireless members who passed away suddenly in the Fall of 2019, the intent of this annual scholarship is to provide scuba lessons and a full set of scuba gear to one or two Boston area high school students that have a passion for the ocean and a desire to learn to dive, but who may lack the financial ability to achieve such a goal.



It is the intent of the Sea Rovers to cover all costs of this scholarship through our relationships with diving equipment manufacturers and local dive shops. For 2022, the Sea Rovers are partnering with Henderson Aquatics, Sherwood, Genesis and Akona, and East Coast Divers to offer this program.

Final details and the application process are being developed by the Sea Rovers Scholarship Committee. We will provide more information as the program is finalized and post the application on our website. Anyone wishing to donate to this scholarship may do so on our website - www.bostonsearovers.com.

Thank you!



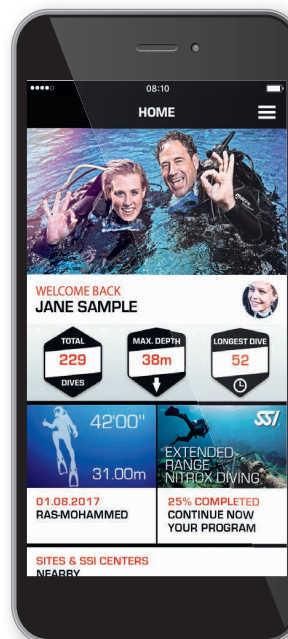
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Saturday – Daytime Seminar Schedule 2021

	Gimbel Room	Cousteau Room	Doc Edgerton Room
Room Topic	Public Safety Diving	Photography & Video	Dive Technologies
9:00 am - 9:45 am	Timothy Andro <i>From the Ground Up, the Rebuilding of a PSD Team</i>	Ryan King <i>Creative Underwater Lighting: It's Okay to Try Something Different to Make Your Images and Video Pop</i>	Charlie Mazel <i>Fluorescence Diving - A History</i>
10:00 am - 10:45 am	Patrick Foley & Lt. Dan Popovich <i>Public Safety Dive Training and Safety in MA</i>	Thomas Gaitley <i>The Mind's Eye: The Art of Underwater Photography</i>	Jeff Godfrey <i>Rebreather 101</i>
11:00 am - 11:45 am	Ronald Weller <i>You Were Involved in a Diving Accident, What Happens Now?</i>	Hergen Spalink <i>Wide Angle Exposure Workflow</i>	Martin Klein <i>A Tribute to Doc "Papa Flash" Edgerton - 60 Years After the Fateful Encounter</i>
<i>Be sure to visit all of the exhibitors and exhibits during the lunch break.</i>			
Room Topic	Shipwrecks & Maritime History	Exotic Places	Marine Science and Conservation
1:00 pm - 1:45 pm	Joseph St. Amand & Joe Mazraani <i>S.S. West Point: Using Sonar to Locate U-53's Most Elusive Casualty</i>	Faith Ortins <i>Sea of Cortez: The World's Aquarium</i>	Jim and Pat Stayer <i>Socorro Islands: Scientific Studies and Sensational Diving</i>
2:00 pm - 2:45 pm	Erik Petkovic <i>U-1105: The Black Panther</i>	Jonathan Bird <i>Cave Diving for IMAX</i>	Zack Cole <i>Bioluminescence: The light of life</i>
3:00 pm - 3:45 pm	Amy Giannotti <i>The Life and Adventures of a Cape Cod Shipmaster, Capt. Samuel F. Knowles</i>	Nancy McGee <i>Azorean Abyss</i>	George Kourounis <i>Stormy Seas On The Rise?</i>
4:00 pm - 4:45 pm	Rick Simon & Jennifer Sellitti <i>Lusitania 2021</i>	Michel Labrecque & Julie Ouimet <i>Fjord du Saguenay - A Truly Unique Diving Experience</i>	Dr. Greg Skomal <i>The Predatory Behavior of the White Shark: a Deadly Game of Cat and Mouse</i>

Sunday – Daytime Seminar Schedule 2021

	Gimbel Room	Cousteau Room	Doc Edgerton Room
Room Topic	Shipwrecks & Maritime History	Photography & Video	Coral Reef Ecosystems Public Forum
9:30 am - 10:15 am	Thomas Easop <i>Norway - A Wreck Diving Paradise</i>	Richard Morris <i>How to Use a Cell Phone to Save the Sea</i>	Paul Cater-Deaton <i>Caribbean Corals Under Siege - Battling Stony Coral Tissue Loss Disease in the Virgin Islands</i>
10:30 am - 11:15 am	Joe Mazraani & Steve Gatto <i>The Stockholm Bow: the 65th Anniversary of the M.S. Stockholm's Collision with the S.S. Andrea Doria</i>	Rick Miskiv <i>Capturing Immersive Experiences Underwater with VR</i>	Les Kaufman <i>Current Status of Coral Reefs</i>
11:30 am - 12:15 am	Michael Salvarezza & Christopher Weaver <i>The Story of the HMS Culloden: Sunken Revolutionary War History on Long Island</i>	Russell Laman <i>Boston Sea Rovers Intern Update</i>	Krista LaForest <i>Restoring the Florida Reef Tract with Coral Restoration Foundation</i>
<i>Be sure to visit all of the exhibitors and exhibits during the lunch break.</i>			
Room Topic	Local Diving	Potpourri	Coral Reef Ecosystems Public Forum
1:00 pm - 1:45 pm	Andy Martinez <i>New England Marine Life, a 2020 Stay-cation</i>	David Charash <i>Medical Fitness and Diving in an Era of Covid-19: What Every Diver Needs to Know!</i>	Randi Rotjan <i>Science in the Phoenix Islands Protected Area: A Decade Past and Future</i>
2:00 pm - 2:45 pm	Asli Ertekin <i>Fort Wetherill, Muck Diving of New England</i>	Edward Monat <i>2021 Adventures of Mini-Ed in EASTPORT!</i>	Brian Helmuth & Mark Patterson <i>Proteus: The International Space Station of the Seafloor</i>
3:00 pm - 3:45 pm	Phil Colarusso <i>A Marine Biologist's Misadventures Above and Below the Water Line During a Pandemic</i>	John Stella <i>58 Ancient Shipwrecks Found in One Location in Greece</i>	Marine Science & Conservation Public Forum Presenters <i>Panel Discussion on Coral Reefs</i>

Note that participants scheduled to speak at any Sea Rovers Clinic event are subject to last minute travel and work emergencies inherent when pushing the boundaries of filmmaking, exploration and discovery. Please understand that the participant list is subject to change at the last moment.

2021 Daytime Speaker Bios & Seminar Descriptions

Saturday Morning:

Gimbel Room Morning - Public Safety Diving

Timothy Andro is the owner and lead SDI/ERDI instructor for Northeast Public Safety Divers, a public safety dive training center for the northeast U.S. He has almost 20 years of recreational and technical dive experience, including Advanced Trimix and Closed-Circuit Rebreather, and has logged over 3,000 dives. He has also been a firefighter for 23 years, 11 of those as a public safety diver. For the past 6 years, Tim has been the Dive Coordinator for Mahwah Fire & Rescue Co #1 and is also the current President of the North Jersey Regional SCUBA Task Force.

From the Ground up, the Rebuilding of a PSD Team: This presentation goes over the preventable events that caused our team to be shut down and the process of rebuilding we went through. The process of reconstructing our S.O.G and becoming NFPA and OSHA compliant. I will discuss the training process the team went through and how we began gaining more members, as well as the process we went through to acquire funds from the town for new equipment. Finally, I will discuss the merger that took place between the County Sheriff and the four Volunteer PSD teams within the county.

Patrick Foley (Retired Sergeant) Patrick Foley was a 29-year veteran of the Mass State Police and a member of the MSP Underwater Recovery Unit for 27 years. Sgt Foley is the former Commander of the Mass State Police URU and is a PADI MSDT, SDI, and ERDI instructor. He enjoys diving with his son and daughter whenever possible and now having much more free time to dive for pleasure. **Lt. Dan Popovich** has been a member of the Mass State Police for seventeen years and a member of the Underwater Recovery Unit for sixteen years. Lt. Popovich is the Commander of the Mass State Police URU and is an SDI instructor. When not diving for the State Police or NESPAC he enjoys diving with his son whenever possible.

Public Safety Dive Training and Safety in MA: The Mass State Police Underwater Recovery Unit will discuss the challenges of public safety diver safety and training. Topics will include the challenge of safety and training during the COVID-19 pandemic, emergency response site safety, risk/reward decisions, and general training concerns.

Ron Weller is an Assistant State's Attorney at the Office of the Chief State's Attorney in Connecticut. He has been a prosecutor for over 25 years, handling everything from quadruple homicides to ticket scalping. He also currently teaches Criminal Procedure as an adjunct Professor at Quinnipiac Law School. Ron is a PADI Master Scuba Diver Trainer at Scuba Shack and has assisted in training Public Safety dive teams and at the Connecticut Police Academy.

You Were Involved in A Diving Accident, What Happens Now?: If you have ever been involved in or witnessed a diving accident, it can be a traumatic experience. Diving professionals may wonder: Am I liable? What do I say? How will the investigation be conducted? Does my agency have my back? Recreational divers may wonder about liability if they were involved in the accident and what they can do to help the investigation. This presentation offers insight into many facets of a dive accident investigation, most common investigative agencies and their agendas, varying investigative techniques, and proper training.

Cousteau Room Morning - Photography and Video

Ryan King started diving in 1990 and has never looked back. For over 25 years, Ryan has been diving, teaching, and photographing marine life, caves, and wrecks from Canada to the Caribbean. He has a passion for exploration and helping others enjoy and appreciate the underwater world.

Creative Underwater Lighting: It's Okay to Try Something Different to Make Your Images and Video Pop: You've got a camera and lights, but so does everyone else. How do you get your images and video to stand out among the crowd? Snoots are great, but that's just the beginning. During this session we'll explore some simple tools/techniques to create a unique sense of depth and perspective not commonly seen in underwater imagery.

Thomas Gaitley began diving in the mid-80s and became a scuba instructor in 1989. Today, along with teaching, one of Tom's great passions is photography. He is an award-winning and juried fine art, landscape, and underwater photographer. His work can be viewed on his website at www.thomasgaitley.com

The Mind's Eye: The Art of Underwater Photography: Successfully taking a photograph underwater requires technical proficiency, the right equipment, and at least basic knowledge of marine life. Photography allows us to convey information with clarity and efficiency - an asset to marine scientists whose primary goal is communication. This approach often yields images that garner only a glance, rather than contemplation. In this session, we will explore the knowledge acquired by generations of artists and scientists who study "how we see," to take your photography to the next level so you can create compelling images that express your vision.

Hergen Spalink is a Nauticam Ambassador who lives and works at the forefront of underwater imaging. Since 2010, Hergen and his partner Kerri Bingham have been leading exclusive underwater photography safaris and workshops in the world's best dive destinations, where guests benefit from the couple's deep passion for the underwater world and twelve years of experience managing dive businesses in Indonesia and the Caribbean. Hergen is also the co-author of the Underwater Photography Series, along with Photoshop guru Deke McClelland. Hergen is both a PADI-certified scuba diving instructor and an Adobe Certified Expert in Lightroom.

Wide Angle Exposure Workflow: Nauticam Ambassador and LinkedIn Learning educator Hergen Spalink breaks down the Wide-Angle Exposure decision-making process, providing an underwater workflow to help you get the right exposure in-camera. Good for all skill levels.

Doc Edgerton Room Morning - Dive Technologies

Charles Mazel PhD, is the pioneer of the modern era of night diving to explore fluorescence, including development of the equipment to see and record the phenomenon. He is a Boston Sea Rover and the founder of NIGHTSEA, the first company to provide lights and camera accessories for underwater fluorescence. Charlie made his first fluorescence dives as early as the mid-1970s but it wasn't until over a decade later that he began to pursue it in earnest. Along the way he was fortunate to

learn about the history of earlier explorations of fluorescence and meet people who went before him.

Fluorescence Diving - A History Fluorescence: Diving is only recently mainstream. Learn about early explorers going back to the 1950's. Fluorescence pioneer and NIGHTSEA founder Charles Mazel will survey the history - including his own - of fluorescence diving. And if you don't know what fluorescence is, don't worry - we'll start with an introduction to its wonder and beauty.

Jeff Godfrey has been the Diving Safety Officer for the University of Connecticut's Department of Marine Sciences (DMS) since 1999, involved on projects ranging from studying salps in frigid Antarctic waters to fish studies on the Great Barrier Reef. Before his time at UConn, Jeff worked in the sunny Florida Keys. Jeff is a TDI Rebreather Instructor for multiple units, SDI/TDI Course Director and PADI Instructor.

Rebreathers 101: This presentation will cover all the essentials of rebreather diving and all types of rebreathers. If you are looking to purchase a rebreather, this is an opportunity to learn how to be a wise consumer and make the choice that is right for you. If you already own a rebreather and want a review of academics, new trends and the future of CCR diving, then this seminar will offer an opportunity to learn. All levels of divers are welcome from recreational through technical.

Martin Klein scientist-engineer-inventor-entrepreneur, is considered the "Father of Side Scan Sonar." His legendary, pioneering developments in sonar helped to revolutionize ocean exploration. An MIT graduate, he is the founder of Klein Marine Systems and introduced the first commercial side scan system in 1967. Klein brought the system to Bodrum, Turkey, and helped marine archaeologist George Bass find a 2,000-year-old ship. That same year, Dr. Harold "Doc" Edgerton used the sonar to help find the HMS Mary Rose, sunk in 1545. These trailblazing projects were the first use of technology to find ancient shipwrecks. Marty is a fellow of the Explorers Club and a member of the Marine Technology Society.

A Tribute to Doc "Papa Flash" Edgerton - 60 Years After the Fateful Encounter: Sixty years ago, looking for a topic for a senior thesis at MIT, the author visited the laboratory of Professor Harold "Doc" Edgerton. The encounter was to change his life forever and, to some extent, the history of ocean exploration. This presentation will be a tribute to the great Boston Sea Rover Harold "Papa Flash" Edgerton.

Saturday Afternoon:

Gimbel Room Afternoon - Shipwrecks & Maritime History

Joseph St. Amand moved to the northeast in 2016 and very quickly found a passion for diving and researching the wrecks off our coast. Joseph is an active crew member on D/V Tenacious and operates the sonar equipment on search trips. When not diving, he enjoys researching wrecks in our local waters and writing algorithms to assist in locating new wrecks. Joseph has a Ph.D. in Electrical Engineering and by day, heads up the technology side of a healthcare-focused startup. **Joe Mazraani** has been fascinated by the underwater world since childhood. Growing up in Lebanon, Joe spent his summers by the Mediterranean. He immigrated to the U.S. at age 15 and became a certified diver in the mid-90s. Joe quickly took to diving and exploring sunken wrecks off the Northeast U.S. coast. He is president of Atlantic Wreck Salvage and operates the dive vessel Tenacious, which was specifically

acquired and outfitted to accomplish several projects, including locating and exploring U-550 and other deep, uncharted wrecks in the North Atlantic. A criminal defense attorney by trade, Joe is also a U.S.C.G. licensed captain.

S.S. West Point: Using Sonar to Locate U-53's Most Elusive Casualty: U-53 commander Hans Rose sank five ships off the coast of Nantucket on October 7, 1915. The remains of four of these ships were located in the 1990s by Captain Eric Takakjian, but the offshore locations and the state of dive technology at the time rendered the ships largely unexplored until 2017 and 2018, when the crew of D/V Tenacious visited the wrecks. However, the fifth wreck, S. S. West Point, a British cargo steamer, eluded everyone until September 2020. In this presentation, Joe St. Amand will focus on how the crew used side scan sonar to locate U-53's long lost casualty. The team will also share, for the first time, video of the S.S. West Point as she rests today.

Erik Petkovic is an explorer, author, maritime historian, shipwreck researcher, and technical wreck diver with over twenty years of diving experience. Erik is the author of multiple diving and maritime history books and has been featured in dive publications worldwide. Erik regularly presents at the largest dive shows and museums and is a sought-after presenter due to his unique storytelling.

U-1105: The Black Panther: U-1105 was a modified Type VII-C German submarine and one of only 13 submarines outfitted with an experimental rubber skin designed to evade Allied SONAR. Nicknamed "Black Panther", she torpedoed the British frigate HMS Redmill during her only war patrol. U-1105 surrendered at the end of World War II and was a sought-after war prize for study by the British Royal Navy of its unique rubber skin. Afterward, U-1105 was transferred to the US Navy and in 1949, a 250-pound depth charge sent her to the bottom of the Potomac River for the sixth and final time. U-1105 remained lost to history until she was rediscovered in 1985.

Amy Giannotti is a marine ecologist and proudly represents Schoolyard Films as their Director of Development. Amy's love of the sea spans generations, as her great-great grandfather was a prominent captain of sailing ships from Cape Cod during the 1800s. Amy has a B.S. in biology from Marietta College and a M.S. in environmental sciences from the University of Virginia. She has extensive experience in freshwater and marine environments, including underwater caves and problems with invasive species.

The Life and Adventures of a Cape Cod Shipmaster, Capt. Samuel F. Knowles: This presentation will trace the fascinating life and adventures of my great-great-grandfather, Capt. Samuel F. Knowles. Born in Orleans, MA, in 1855, Capt. Knowles commanded barks, schooners, and clipper ships in an exhilarating career where he and his family met the challenges of life on the high seas head-on.

Richard M. Simon grew up diving and crewing on New England dive boats. Rick is a Boston Sea Rover, Sea Rovers Summer Intern (2005), and a TDI dive instructor holding both recreational and technical ratings. Rick is also the president of Manta Industries and the vice president of Shoreline Diving Services, Inc.- a commercial diving company specializing in inspection, salvage and construction. Rick enjoys cave and wreck diving, on the East Coast but really anywhere around the world. When he is not diving, he enjoys spending time on his farm with his wife Erin. **Jennifer Sellitti** is a regular crew member of the D/V Tenacious, managing a number of topside operations during dive trips. She also performs historical research on the ships and helps locate ships that are



the subject of new projects for the team. Jennifer develops and delivers presentations on D/V Tenacious projects with the goal of educating the public about the historical significance and importance of wreck diving in the North Atlantic.

Lusitania 2021: In August of 2021, a team including Sea Rovers Joe Mazraani and Rick Simon, will dive the wreck of the Lusitania. The team of four American and four British divers will spend two weeks exploring and documenting this iconic shipwreck. The expedition will also be a part of a larger effort to raise awareness for the new Lusitania Museum, which was the vision of Lusitania's longtime owner Gregg Bemis.

Cousteau Room Afternoon - Exotic Places

Faith Ortins has spent most of her adult life in the ocean. She started as a scientific diver, became a technical diver and divemaster and has thousands of dives over her 42-year diving career. Faith worked with DUI to develop some of the first women's drysuits as a dive store owner in the early 1990s and was a VP with DUI for 20 years. A recognized expert on cold water diving and thermal protection, Faith has led expeditions to the most remote places on Earth including multiple expeditions to both polar regions as a co-founder of Blue Green Expeditions. She is a Sea Rover and an inductee to the Women Divers Hall of Fame.

Sea of Cortez: The World's Aquarium: Jacques Cousteau called the Sea of Cortez "the world's aquarium" and with good reason. Its rich and biologically diverse waters are home to everything: whale sharks, playful pinnipeds, whales of all sizes, massive schools of fish, mobula and manta rays, and rich invertebrate life. Join us as we explore Baja!

Jonathan Bird is an underwater cinematographer, who has shot and produced over 40 films for broadcast on networks including National Geographic Channel, PBS, ABC, USA Network, Discovery and Syfy Channel. He has won nine Emmy Awards, two Cine Golden Eagles and published seven books. He is also the host and director of Jonathan Bird's Blue World, an underwater science/adventure series on YouTube and was inducted into the International Scuba Diving Hall of Fame in 2019. Jonathan is currently in production on his third IMAX® film *Secrets of the Sea*, in collaboration with legendary filmmakers Howard and Michele Hall.

Cave Diving for IMAX®: IMAX® is the ultimate film format and delivers an immersive experience for the viewer like nothing else on Earth. The format is unforgiving, requires a rare set of filmmaking skills, and lots of gear. Welcome to ANCIENT CAVES, the new IMAX® film is now rolling out in theaters across the world. Jonathan was the director and director of photography for this epic production, narrated by Bryan Cranston and distributed by MacGillivray Freeman Films. He will talk about the technical diving and break down some of the techniques to shoot the film using examples from the film.

Nancy McGee has lived a life of adventure and diversity working as an explorer, filmmaker, author, emcee, and passionate educator. An Explorers Club Fellow, she is the first female Exosuit pilot and has dived and filmed on 7 continents. Nancy was the first to explore several archipelagos and opened tourism in the Andaman and Forgotten Islands. She is Boston Sea Rover and an inductee into the Women Divers Hall of Fame.

Azorean Abyss: The Azores are located above an active junction, where three major tectonic plates meet and come together in this one incredible area. Hosting some of the most diverse marine life found throughout the world, the Azores have an abundance of marine life that swirls around walls and seamounts emerging from

the Atlantic abyss.

Michel Labrecque and Julie Ouimet are technical trimix and rebreather divers, accomplished dive training professionals, and the owners of N2Pix & Limitless Dive Charter. Since 2014, they have devoted themselves to underwater imagery and exploration. Michel is a photojournalist and Julie is a videographer and filmmaker. They are Fellows of the Explorers Club and Associate Members of the Boston Sea Rovers. They have twice been bestowed the honor of carrying the Explorers flag, contributed to the creation of an MPA and received the Explorers Club Citation of Merit. In 2016, Michel was named a PADI Ambassador. Julie is a member of the Women Divers Hall of Fame.

Fjord du Saguenay - A Truly Unique Diving Experience: Interest for cold water diving is increasing worldwide. Savvy divers are now seeking out unusual, wild, and exclusive dive destinations. Le Fjord du Saguenay is all that and more. Perpetually cloaked in darkness and swept by nutrient rich currents, it is challenging and leaves no one indifferent with surprises at every turn. It is a truly world class diving destination.

Doc Edgerton Room Afternoon - Marine Science & Conservation

Jim and Pat Stayer are Explorer Club Fellows and Boston Sea Rovers Associate Members. They are well-known underwater filmmakers dedicated to sharing shipwrecks, animal behavior, and remote dive destinations around the world. Jim and Pat have discovered several shipwrecks, co-authored 3 books, produced hundreds of multimedia presentations, and their footage has appeared on numerous major networks worldwide. They have directed several evening film festivals and are popular presenters across North America. Pat is in the Women Divers Hall of Fame and Jim is a USCG Captain. Together they have led an amazing life of adventure.

Socorro Islands: Scientific Studies and Sensational Diving: The Stayers join a scientific expedition to Socorro Archipelago searching for new species of fish and collecting samples for DNA testing. The experience was amazing as was the diving. Several species of sharks including hammerheads, Galapagos, silky, and even whale sharks gather around these islands. Dolphins and giant oceanic mantas seek out divers for incredible close encounters.

Zack "Attack" Cole is a marine biologist, adventurer, and native Florida man. Inspired by the travel limitations imposed by the pandemic, he's been diligently working on his nature filmmaking hobbies through his YouTube channel "WILD FL" where he shares his love of his home, and its wildlife, native and not, with viewers.

Bioluminescence: The light of life: Within Florida's mangrove habitats, two different life forms thrive that are capable of glowing bright, into the night. The fragile comb jelly, and microscopic dinoflagellates, together these two very different kinds of life emit light. Join marine biologist Zack Cole on his first presentation to the Boston Sea Rovers, to talk about the science, the adventure, and filming the light only found at a few spots on the planet: bioluminescence.

George Kourounis is an Explorer-In-Residence with the Royal Canadian Geographical Society, a National Geographic explorer, a television presenter who hosted 50 episodes of the "Angry Planet" TV series, and a frequent contributor on The Weather Network & Science Channel. He specializes in documenting extreme forces

of nature, storms, and natural disasters and his expeditions have taken him to all 7 continents. He's given 5 TEDx talks, addressed the United Nations Environment Emergencies forum, and holds a Guinness World Record for his first-ever descent into a burning pit of natural gas in Turkmenistan.

Stormy Seas on The Rise?: As ocean temperatures continue to rise, warm waters provide more fuel for monster storms like hurricanes and typhoons. What can we expect in the years to come? Join global storm chaser and explorer George Kourounis as he recounts some of his most harrowing experiences with these ferocious tropical storms. From Hurricanes Katrina and Sandy, to tracking tornadoes across the U.S, and documenting sea level rise in Bangladesh and Tuvalu, George will also share what his experience has taught him about what to expect in the next 20 years and beyond.

Dr. Gregory Skomal is an accomplished marine biologist, photographer, author, and 2015 Boston Sea Rovers Diver of the Year. As a senior scientist with MA Division of Marine Fisheries, he has been studying sharks for over 35 years and he has written numerous scientific research papers. Greg has appeared in several film and television documentaries, including programs for National Geographic, Discovery Channel, and PBS. His book, "The Shark Handbook", explores the world of sharks.

The Predatory Behavior of the White Shark: A Deadly Game of Cat and Mouse: The great white shark is a top marine predator of formidable prey, including large seals and sea lions. Its ability to successfully hunt in incredibly diverse habitats throughout the world is indicative of a remarkably adaptive species. This presentation highlights the plasticity of white shark predatory behavior and the variety of strategies used to kill their prey.

Sunday Morning:

Gimbel Room Morning - Shipwrecks & Maritime History

Thomas Easop has been diving for over forty years and holds an expedition rebreather certification. Educated at Brooks Institute of Photographic Art and Science, he earned a BA in Color Technology with a minor in Industrial/Scientific Imaging. He has operated his own commercial studio since 1986 and is a master print maker.

Norway - A Wreck Diving Paradise: Norway is a 'land of waters', made of lakes, rivers, fjords, and the sea. Its coastlines, put together, could circle the globe more than two times. It is a maritime land, its waters packed with sizable schooners, huge freighters, ferries, and barges. It is also a place of abundant shipwrecks, lost due to navigation errors, foul weather, and war. Here we will concentrate on the more famous wrecks: the Ferndale and Parrot, the Oldenburg and the Welheim, sharing diving stories and photographic adventures underwater.

Joe Mazraani and Steve Gatto have been exploring and photographing shipwrecks for years. In 1983, Steve made his first dive down to the Andrea Doria and along with Tom Packer and John Moyer, and possesses the salvage rights to the Andrea Doria. Steve's shipwreck photos and articles have appeared in several magazines and books and his videos have been used by the History Channel, and Smithsonian Channel. He has dived the Civil War wreck U.S.S. Monitor, submarines, tankers, freighters, sailing vessels and steamers to name a few. Most recently he was one of

the first group of divers to dive the motor vessel Stockholm's bow which was lost during the collision with the Andrea Doria. Steve is an associate member of the Boston Sea Rovers and a member of SNAME (Society of Naval Architects and Marine Engineers) Panel SD-7 Forensic Panel.

The Stockholm Bow: the 65th Anniversary of the M.S. Stockholm's Collision with the S.S. Andrea Doria: The MS Stockholm became famous when she collided with the SS Andrea Doria off the coast of Nantucket on July 25th, 1956. During the collision, the Stockholm knifed into the Andrea Doria's starboard side and left a gaping wound. The Andrea Doria sank in less than 12 hours. The Stockholm's icebreaker bow sheared off in the collision, but nevertheless, the ship remained afloat. The injured Stockholm made it back to shore under her own steam, without her bow, and carrying with her 500 Andrea Doria survivors.

Michael Salvarezza and Christopher Weaver have been diving the waters of the world since 1978. They have presented their work at Beneath the Sea, Boston Sea Rovers, Ohio ScubaFest, SCUBA & H2O Sports Exposition, and Our World Underwater. They have also published more than 200 articles in numerous magazines, including National Geographic Adventure. Their work has been used to support a variety of research and educational programs and their expeditions have taken them from the Arctic to the Antarctic and many places in between.

The Story of the HMS Culloden: Sunken Revolutionary War History on Long Island: For divers, shipwreck explorers and maritime history buffs, a piece of Revolutionary War history lies just offshore in Fort Pond Bay, Montauk, Long Island. The often-buried remains of the HMS Culloden tell the story of a British Warship that sank in a storm while attempting to stop a fleet of French vessels from providing assistance to the Colonialists. Journey back in time with Eco-Photo Explorers as they re-discover the joys of shore diving on Long Island while exploring this historical wreck site.

Cousteau Room Morning - Photography & Video

Rick Morris has been working in broadcast television and films since 1978. Starting in 2007, he spent 3 years as the documentary producer/videographer for the Census of Marine Life and the Encyclopedia of Life Projects. Rick has shot and produced programming for many of the major networks and cable channels as well as for non-profits and NGOs like The Nature Conservancy, International Fund for Animal Welfare, New England Aquarium, Oceana, and Conservation Law Foundation.

How to Use a Cell Phone to Save the Sea: Cell phones are, perhaps, the most dominant technology today. The cameras are amazing, so why not use your cell phone to save the ocean and experience how researchers and volunteers are doing that as captured on a cell phone in the Florida Keys. Get an introduction to producing your own underwater or above-water films that people will actually enjoy watching. Gain insights on how short films and social media could be one answer to accomplishing a goal - Replanting Coral Reefs of the Florida Keys!

Rick Miskiv is a photographer, designer, and VR filmmaker with a background in fine arts and tech, working with various organizations to help communicate their work to a broader audience. He has collaborated with Oceans 360, The Hydrous, Asner Lab, Parley for the Oceans, The Ocean Agency, Friends of Ocean Action, and MarAlliance on projects related to ocean education, conservation and research. Recently, he joined with Asner Labs / Carnegie Institution for Science on an expedition





to document a coral survey of the WW2 wrecks of Bikini Atoll in 3D 180VR in collaboration with Oceans 360. Rick is one of the featured photographers of The Ocean Agency's Coral Reef Image Bank.

Capturing Immersive Experiences Underwater with VR: A presentation about the unique challenges and possibilities working with immersive Virtual Reality cameras in underwater environments. Using projects shot for marine science non-profits The Hydrous, Asner Lab, and MarAlliance in locations such as Palau, Bikini Atoll and Honduras as case studies, the talk will delve into the technical, artistic, and conceptual aspects of this new format for filming experiences underwater. Two cameras used on the projects include the VRTUL2 and the ZCAM K1 VR180, both custom designed housing and rigs.

Russell Laman is the Boston Sea Rovers 2021 Intern and a student at Boston University.

2021 Boston Sea Rovers Intern Update: As the 2021 Boston Sea Rovers Intern, Russel will report on his experiences and internship opportunities from this summer.

Doc Edgerton Room Morning - Coral Reef Ecosystems Public Forum

Paul Cater Deaton is an award-winning writer, producer, director, and cinematographer based in Galveston, Texas and working all over the world. Credits include "The Amazing Race," HBO Documentaries, CNN, Discovery Channel, and "Wild Honduras" for NatGeo Wild. Paul's work has garnered several industry accolades, including Best Music Video at the Austin Music Awards (SXSW), a Bronze Telly, numerous Gold and Silver Addy Awards, and an Addy Best in Show Video. His "Showdown at Tiger Beach" was screened at over a dozen international film festivals and won Best International Documentary Short at two of them.

Caribbean Corals Under Siege - Battling Stony Coral Tissue Loss Disease in the Virgin Islands: Believed to have hitched a ride from Florida in the ballasts of container ships, Stony Coral Tissue Loss Disease has infected large reef areas in the Virgin Islands, causing significant loss of staghorn and pillar corals. Scientists, educators, divers, and community organizers have mobilized to try to save what they can of what's left. Includes interviews with famed oceanographer Dr. Sylvia Earle, Dr. Marilyn Brandt of the University of the Virgin Islands, and Kitty Edwards of the Virgin Islands Department of Planning and Natural Resources.

Les Kaufman is an evolutionary ecologist at Boston University studying basic processes that drive the creation, collapse, and conservation of aquatic species diversity on coral reefs and tropical great lakes. Recent work involves clinical research on the dynamics of human-natural coupled systems, to create supporting science for global sustainability and climate change adaptation. Kaufman is Senior Marine Scientist for Conservation International, a Research Scholar with The New England Aquarium and Associate in Ichthyology, Harvard Museum of Comparative Zoology. He serves on the Science and Statistics Committee for the New England Fishery Management Council and is working with NOAA colleagues to modernize federal ocean science.

Current Status of Coral Reefs: This presentation will focus on the study of degradation and regenerative processes on coral reefs. Currently active field sites include Biscayne Bay and the Florida Reef Tract, the Mesoamerican Reef in Belize, and the Abrolhos

Bank in Brazil as well as the Phoenix Islands of Kiribati (central Pacific). Collaborative experiments in coral reef ontogeny and restoration are conducted with the Coral Restoration Foundation and several universities in Florida, the University of Belize, and others. Marine reserves and zoning schemes are used as adaptive management experiments, examining the outcomes of different management regimes with new diagnostics for marine ecosystem health and resilience, such as the Coral Health Index (CHI), and other measures of microbial, benthic and fish community function.

Krista Laforest grew up in Quincy, Massachusetts, and attributes her love of diving to her time as the 2017 Boston Sea Rovers Intern. After graduating with a Bachelor's in Marine Biology, Krista interned with the Coral Restoration Foundation in Key Largo. She out planted hundreds of corals, monitored them to determine survivorship and growth, and managed coral spawning. During the summer of 2021, Krista was the Our World-Underwater Scholarship Society's AAUS Mitchell Intern and studied the relationship between parrotfish and algae on the reefs of Bonaire. Currently, Krista is pursuing her Master's degree at Nova Southeastern University, researching coral reproduction and larval ecology.

Restoring the Florida Reef Tract with Coral Restoration Foundation: Since 2007, Coral Restoration Foundation™ has been at the forefront of coral restoration, pioneering some of the most efficient growing and outplanting techniques used around the world. Join us in discussing the importance of corals, methods of restoration, and how YOU can help protect the United States' only barrier reef!

Sunday Afternoon:

Gimbel Room Afternoon - Local Diving

Andy Martinez has been diving and photographing marine life for over 40 years. His work has been used in many magazines and books and his popular app, Marine Life North Atlantic, is a necessary resource for anyone wanting to know the critters from this area. He has led numerous diving groups to the Philippines, Indonesia, and many islands in the Caribbean. This October he will be leading a dive trip to Cuba aboard the Jardines Aggressor II.

New England Marine Life, a 2020 Stay-cation: It's 2020 and COVID has been keeping us home. Although traveling wasn't possible and the visibility wasn't 100', New England waters provided plenty of good diving and marine life. Join Andy to see what natural beauty and interesting critters entertained us during the pandemic.

Asli Ertekin mostly dives in New England, loving the challenge of it and how exciting it is to see different kinds of fish. She likes to share her experiences with a greater number of people through writing and photos.

Fort Wetherill, Muck Diving of New England: Divers travel for days to get to distant destinations for "muck diving," which provide unique opportunities to observe rare underwater creatures. We have a muck diving destination of our own in New England, at Fort Wetherill, Rhode Island. It rarely disappoints, often full of surprises, as long as you can see 3ft away.

Phil Colarusso is a marine biologist who has worked for the US EPA for over 32 years. He has worked on assessing impacts to marine resources from power plants, dredging projects, pier and

dock construction, municipal sewage plants and a host of other human activities in the ocean. Much of his time is currently spent on seagrass research, restoration, and conservation.

A Marine Biologist's Misadventures Above and Below the Water Line During a Pandemic: Follow the misadventures of a marine biologist during COVID from the tropical waters in Florida and Aruba to the temperate waters of New England as he encounters sea turtles, sea horses, jellyfish, nudibranchs, octopus, squid, torpedo rays and more.

Cousteau Room Afternoon - Potpourri

David Charash is a Dive Medicine Physician, Board Certified in Undersea and Hyperbaric Medicine, and Emergency Medicine. He is the Principal at Dive Medicine and Hyperbaric Consultants LLC. As a consultant he has worked with Recreational, Technical, Scientific, Commercial, Public Safety and Military Divers. He has lectured locally, nationally, and internationally on topics of Dive Medicine, Dive Safety, and Dive Technology. He has expertise in clinical Hyperbaric Medicine, Expedition Medicine, and Medical Fitness of the Scuba Diver as well as Management of Critical injuries in Diving. Dr Charash is a DAN Referral Physician, DAN Instructor, as well as Recreational Scuba Diver.

Medical Fitness and Diving in the Era of Covid-19: What Every Diver Needs to Know!: As we navigate the many complexities of COVID-19, this presentation will discuss the most recent changes effective July 2020, regarding the Medical Fitness Requirement Standards by the Recreational Scuba Training Council for both Scuba Divers and Free Divers. Included in this discussion will be an up-to-date review of the impact of COVID-19, and how it will affect each of us as we consider our individual medical Fitness to Dive.

Edward Monat Diver Ed is based on Mount Desert Island, Maine. He is the Master & Commander of the League of Underwater Superheroes, tour operator of the Dive-In Theater (now in Eastport), commercial scuba diver and scallop harvester. He lives on Poo Lagoon in Bar Harbor. Diver Ed works with his wife, Captain Evil (Edna), and their two Newfoundland dogs. He dives year-round for work and pleasure!

2021 Adventures of Mini-Ed in EASTPORT!: Diver Ed, Captain Evil, and Mini-Ed decided to move the Bar Harbor-based Dive-In Theater after the shocking discovery of a massive lack of marine life at their typical sites. Now the team will explore the most productive waters in Maine: EASTPORT! They do fear for Mini-Ed, but they have replacements.

John Stella has been a Dive Industry Professional for over 30 years and has represented some of the most iconic equipment brands in the dive industry. He is currently the Northeast District Manager for SCUBAPRO USA and his diving experience spans the globe, with a special passion for the hunt for ancient underwater shipwrecks. Recent trips to Greece and the Aegean Sea, as a member of a Greek Archeological Dive Team have changed his life. The team has found and documented 45 ancient shipwrecks over a two-year period, and some of these wrecks have rewritten ancient history as we knew it!

58 Ancient Shipwrecks Found in One Location in Greece: In June 2015, a Greek Dive team was dispatched to a tiny group of islands off Asia Minor to investigate rumors of a cluster of ancient shipwrecks. What the dive team found was astounding! In 10 days of searching, 22 ancient shipwrecks were found, the oldest dated 600 BCE. Over the next three years, a total of 58 ancient

shipwrecks were found and documented. In September 2021, the team returned to start excavating 2 Roman shipwrecks buried in the sand with the Discovery Science Channel on hand to film and document the project. John will share his story just back from the expedition and premier the documentary "Out of the Blue".

Doc Edgerton Room Afternoon - Coral Reef Ecosystems Public Forum

Randi Rotjan is currently a Research Assistant Professor at Boston University. Her research ranges from tropical to temperate corals, and she investigates questions related to ecophysiology and resilience. She is the Chief Scientist of the Phoenix Islands Protected Area Conservation Trust, and the co-Chair of the Phoenix Islands Protected Area Scientific Advisory Committee. Rotjan is a member of The Explorers Club, a member of W2O (Women Working for Oceans) and is an active member of the editorial board for several peer-reviewed journals. She also serves on the Board of Directors for The Nature Conservancy-Caribbean, and the Friends of the Middlesex Fells.

Science in the Phoenix Islands Protected Area: A Decade Past and Future: The Phoenix Islands Protected Area (PIPA) is the largest and deepest UNESCO World Heritage Site on the planet and was a catalyst for large-scale marine conservation in the Pacific and globally. PIPA is now one of the oldest marine protected areas and has experienced 3 major high thermal events (resulting in coral bleaching). The fate of PIPA's ecosystems has implications for climate survival the world over, as does the success of PIPA's policies and enforcement. The PIPA science program formally began in 2010; a decade later, what have we learned? And in the decade to come, what do we need to know?

Brian Helmuth and Mark Patterson are professors at Northeastern University's Coastal Sustainability Institute. Helmuth's research focuses on forecasting the impacts of global climate change on marine ecosystems worldwide, and on working with local communities to develop climate adaptation strategies. Patterson directs the Field Robotics laboratory, which designs and builds free-swimming robots, as well as new sensors and systems for ecophysiology. Helmuth and Patterson both serve on the Scientific Advisory Board of the Fabien Cousteau Ocean Learning Center and led the scientific mission for Cousteau's Mission 31 saturation mission in 2014. They are veterans of multiple saturation missions.

Proteus: The International Space Station of the Seafloor: Our entry into the International Decade of the Ocean highlights the need for novel research approaches, and especially for new ways of reigniting the public's passion for the ocean. Ocean explorer Fabien Cousteau is embarking with a team of fellow aquanauts and scientists to build Proteus, a cutting-edge underwater habitat and scientific laboratory situated on the coral reefs of Curacao.



2021 Art Exhibit: Bow Seat Ocean Awareness

Boston Sea Rovers is thrilled to welcome the winners of the 2020 Bow Seat Ocean Awareness contest for the 2021 show!

This exhibit features the winners of the 2020 International Ocean Awareness Student Contest run by local nonprofit Bow Seat Ocean Awareness Programs. This year's theme was *Climate Hope: Transforming Crisis*.

Since 2012, Bow Seat's annual Ocean Awareness Contest has encouraged young people around the world to dive into critical conservation issues—from oil spills and overfishing to plastic pollution and climate change—with a focus on humans' roles as both problem-makers and solvers. Nearly 10,000 students from 78 countries and all 50 U.S. states have responded through visual art, writing, film, and music.

These powerful works by young artists expose what is happening to our ocean; reflect on what it means to be a human in the 21st century; discover and advocate for solutions on personal and planetary scales; and inspire a culture of respect and action for all life on this blue planet.

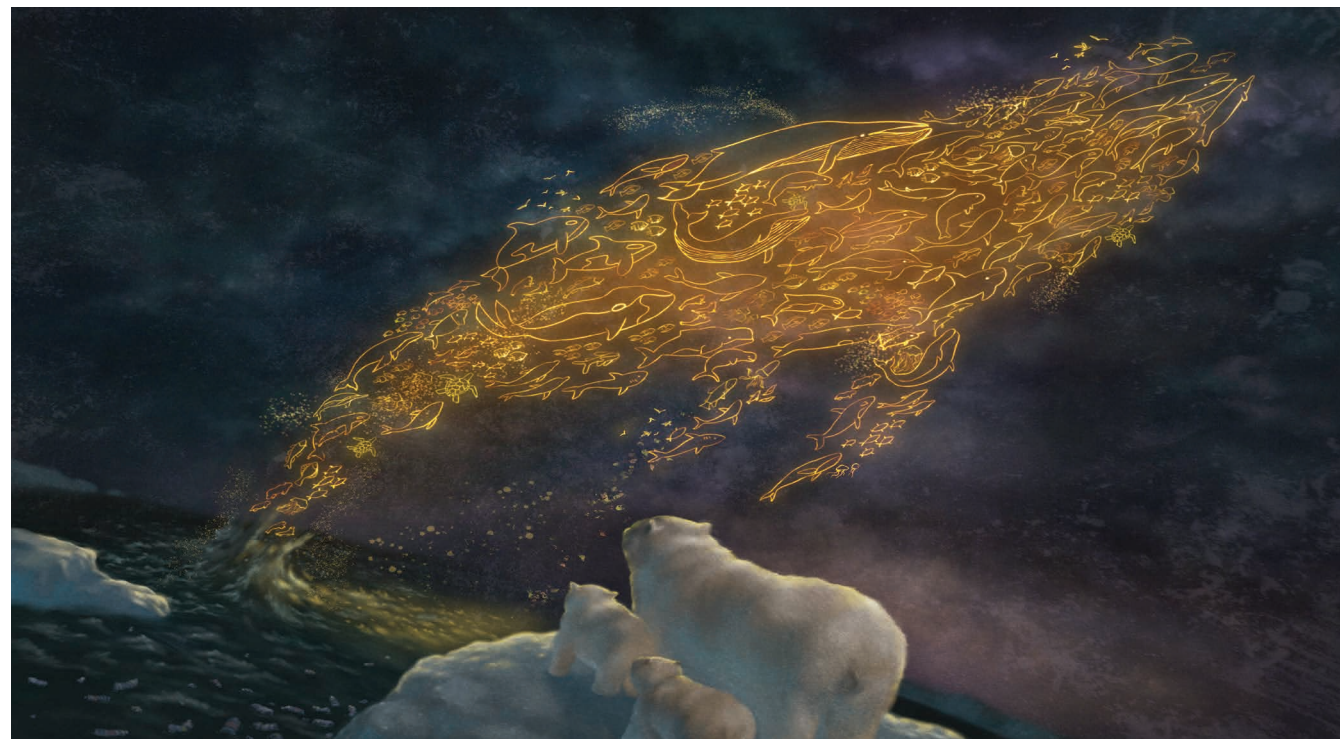
Exhibit Hours: Saturday 9am-5pm and Sunday 9:30am-3pm



2020 Honorable Mention: *Child of the Sea* by Dora Chen, Wayland MA

Know a middle or high school student who is into art, film, poetry or music and loves our oceans? Visit Bow Seat Ocean Awareness Programs for information about current contest.

Bow Seat
Ocean Awareness Programs



2020 Gold Winner: *Soaring Hope* by Jingyi Yang, Mercer, WA



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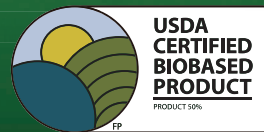
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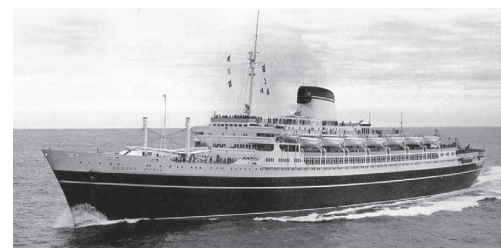
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65th Anniversary of the Sinking of the SS Andrea Doria

The *SS Andria Doria* is hallowed ground for shipwreck divers. Divers from all over the world, particularly those who have cut their teeth in the waters of the North Atlantic, dream of one day exploring the wreck. She is located approximately 100 miles from Montauk Point and lays at a depth of 77 meters (255 feet). Although not extremely deep for those with technical experience, the cold water, infamous New England currents, poor visibility, and distance from shore all make diving the Andrea Doria more dangerous than other, even deeper wrecks. Compounding the risk is the complexity of the wreck. The Andrea Doria is 212 meters (701-feet) long and contains a maze of rooms and passageways that are always shifting – constantly transformed by storms, current, and other forces that move the open ocean – making her difficult to navigate even for those who are most familiar with her. Divers refer to her simply as the Doria – one name that symbolizes a milestone in many a dive career. More than 18 divers have died pursuing that milestone since the ship sank in 1956, earning the Doria her other nickname, the Everest of Wreck Diving.



The SS Andrea Doria

The Collision

On July 26, 1956, the Doria was steaming from several stops in the Mediterranean to New York. On that same night, the Stockholm, a 159-meter (524-foot) Swedish passenger-liner departed from New York for her home port of Gothenberg. There was an intense fog. Both captains saw the other ship on radar. Both made decisions about how to navigate. Both believed they had navigated around the other successfully. One of the captains – a debate still rages about which one – miscalculated. At a little after 11 p.m., the *Stockholm's* icebreaker bow knifed into the Doria's starboard side, severing the Stockholm's bow and leaving a gaping, 45-foot wound in the Doria. To hear more about the collision, make sure to check out the Daytime Presentation on Sunday at 10:30am *The Stockholm Bow: The 65th Anniversary of the M.S. Stockholm's Collision with the S.S. Andrea Doria*, presented by Sea Rovers Joe Mazraani and Steve Gatto.



Gary Gentile, Mike Boring, Bill Nagle, Arti Kirchner, Kenny Gascon, John Moyer, and Tom Packer with the recovered Andrea Doria Bell

It is not an understatement to say that the sinking of the Andrea Doria gave birth to Northeast Atlantic wreck diving and created a long-standing history with the Boston Sea Rovers. The day after the Doria sank, a team lead by investor and amateur diver and Boston Sea Rover Peter Gimbel, of Gimbel



Evelyn Dudas, the first woman to dive the Andrea Doria, pictured with her husband Mike Dudas in 1967 after they both successfully dove the wreck.

Department store fame, dove the Doria in search of riches. In the years that followed, he recovered numerous artifacts, most notably one of her two safes. Life Magazine chronicled the sinking of the ship and Gimbel's subsequent dives in its August 8 and September 17, 1956 editions. These stunning images remain some of the best of the Doria.

The ship became Gimbel's passion and, in the years that followed, he led several expeditions there, which he documented in a series of films. These films were presented from the Rovers

stage. Gimbel's expeditions were massive undertakings with funding for large vessels, underwater dive bells (in later years), and state-of-the-art technology. The culmination of his work came in 1981, when he raised one of the Doria's two safes. The crew decided to end their expeditions there – to walk away on a high point having survived almost twenty years of exploration of the wreck.



Photo by Steve Gatto

At the same time, a group of recreational divers began to explore the Doria. In 1966, Michael deCamp, a pioneer of northeast wreck diving, chartered a fishing boat and ran the first of two trips to the wreck. On deCamp's second trip, Boston Sea Rover Evelyn Dudas became the first woman to dive the Doria. These dives were recreational dives on air and open circuit equipment. The depth was punishing. For those visiting the wreck in small fishing boats on the weekends without the resources to fund major expeditions like Gimbel's, the risks were high and there was precious little time for exploration at depth. Although these divers did not know it at the time, in the dark cold waters that entombed the Doria, they were planting the seeds of what would day become the northeast dive community. The allure of the Doria is that local salvage laws permit the recovery of artifacts. Some believe this is necessary for preservation. Others believe that shipwrecks should remain undisturbed for every diver to enjoy. Although archeologists and shipwreck aficionados have differences of opinion about whether it is morally acceptable to recover artifacts, the truth is that the Doria is rapidly degrading. These artifacts will be lost to history without salvage and preservation. Throughout the years, the Doria's safe, bell, helm, compass, artwork, and countless other artifacts have been recovered – many by divers who now regularly dive with D/V Tenacious, a vessel carrying on the legacy left by the explorers who came before it.

Tenacious, owned by Atlantic Wreck Salvage and run by Boston Sea Rover Joe Mazraani and Jennifer Sellitti, has visited the Doria annually since the vessel was christened in 2010. The team includes some of the divers who participated in the 1980s expeditions. Veteran-divers and Boston Sea Rovers Steve Gatto and Tom Packer have been diving the Doria since that time and have more than 250 and 150 dives on the wreck respectively. They have intimate knowledge of the Doria and have borne witness to the transformation she has undergone during four decades. Gatto and Packer signed the admiralty arrest with John Moyer, the Doria's owner. John is a friend of Tenacious and has graciously allowed her crew to continue his legacy of discovery and to be a part of his ongoing efforts to preserve the history of this magnificent shipwreck.



August 2017, divers pose with the newly recovered Andrea Doria artifacts, including the foghorn. Photo by Andrew Nagle

For some, diving the Doria is a family affair. Divers like Mike Dudas and Andrew Nagle, whose mothers and fathers dove the wreck in the 1960s-80s, are part of a new generation of Doria divers. This small but important branch of the tree describing the Doria and the Rovers culminated after Peter Gimbel passed away, when his wife Elga Andersen Gimbel asked Sea Rovers to inter his ashes within the Doria. The team of Sea Rovers, led by Brian Skerry, and including Bradley Sheard, Tom Packer and Steve Gatto, entombed Peter's ashes in a weighted case through a porthole on the side of the Doria.

We welcome you to visit many of the artifacts recovered from the Doria in during this very special 65th Anniversary year of the Doria sinking in the Exhibit Hall

2021 Kids' Activities

Due to this year's uncertainties, we regret that the usual kid's day activities will be postponed until 2022. Thanks to all our presenters at the 2020 Clinic, we look forward to future Kid's Day fun!

Please visit our website bostonsearovers.com to see kid's activities scheduled outside our the clinic



Save the Date!
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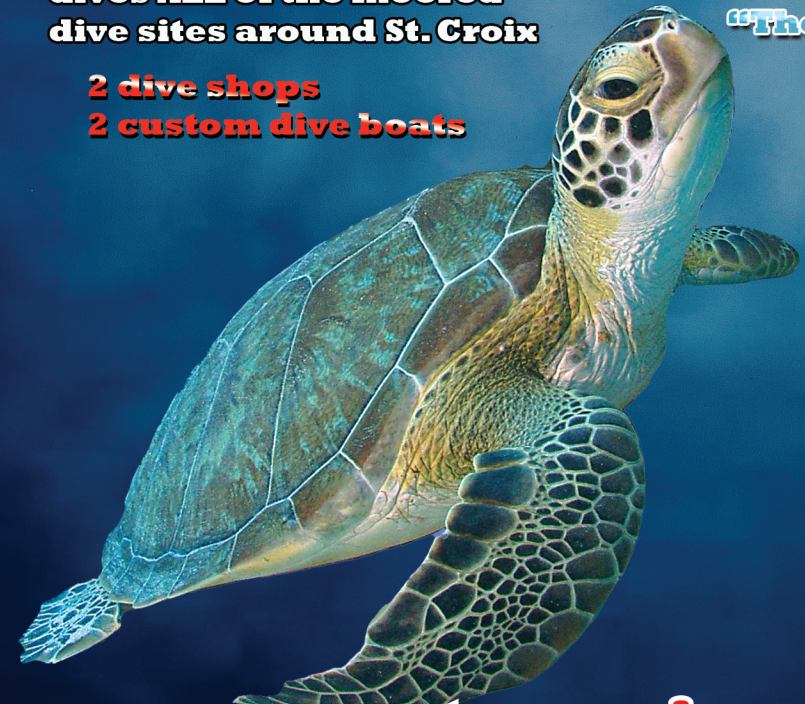
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2021 Workshop Schedule

Find full details and descriptions online at: bostonsearovers.com and get room locations from signage at the show.

Friday:

- 8:30am - 11:30pm | SAR - Filling the Gap Overview Klein-MA-X View 600 Technology
- 9:00am - 4:00pm | 2021 Boston Sea Rovers Public Safety Workshop
- 9:00am - 5:00pm | Lightroom Bootcamp for Underwater Photoshop
- 9:00am - 12:00pm | Who's That Masked Man?!? Meet and Greet / Q&A with the New Massachusetts State Underwater Archaeologists
- 1:00pm - 4:00pm | Beyond Good Dive Practice, Beyond Good Photo Technique and Beyond Good Image Workflow: A Lifetime's Worth of U/W Photographic Cardinal Rules and Core Concepts

Saturday:

- 8:00am - 5:00pm | PSI - Training: Visual Cylinder Inspection
- 8:00am - 5:00pm | PSI - Training: Visual Cylinder Inspection (Refresher)
- 9:00am - 10:30pm | Wide - Angle shooting Tips for the Underwater Photographer
- 9:00am - 12:00pm | Remote Dive Medicine
- 9:00am - 12:00pm | Aerial Drone 101 for Scuba Divers
- 9:00am - 5:00pm | Seashells Around the World
- 10:45am - 12:00pm | Editing Techniques for Wide-Angle Underwater Images
- 1:00pm - 4:00pm | Essential Photoshop for Underwater Shooters
- 1:00pm - 4:00pm | Everything You Ever Wanted to Know About Underwater Exposure & Lighting (But Were Afraid to Ask)

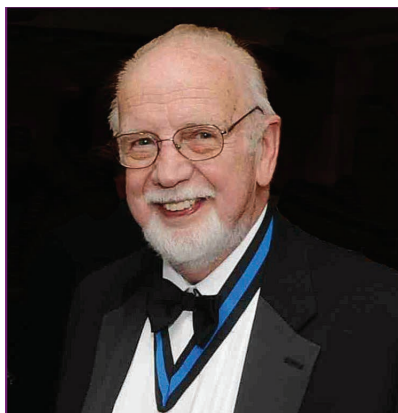
Sunday:

- 8:00am - 10:00am | PSI-PCI Annual Update
- 9:00am - 10:30am | Topside and Underwater Shooting Techniques with your GoPro
- 9:00am - 3:00pm | Seashells Around the World
- 9:30am - 1:00pm | Boy Scouts Oceanography Merit Badge Workshop
- 10:30am - 12:30pm | PSI - Training: Oxygen Cylinder Cleaning Technician
- 10:45am - 12:00pm | Putting it all Together - Basics of Video Editing for Underwater Videographers
- 1:30pm - 3:30pm | PSI - Training: Valve Repair Technician
- 1:00pm - 4:00pm | Underwater Fluorescence: How to See and Capture the Spectral Magic
- 1:00pm - 4:00pm | Aquariums for Aquanauts
- 1:00pm - 4:00pm | Dirty Tricks for Underwater Photographers using Lightroom & Photoshop

Off-Site :

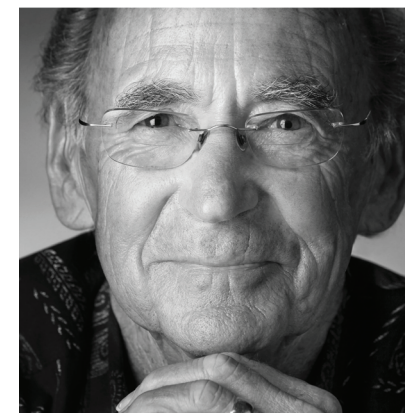
- Friday
8:30am - 12:00pm | Career Opportunities in the Marine Sector (COMS)
Salem State University
- Sept. 28, 2021 10am | Cape Ann Dive with Local Underwater Photographer & Author Andy Martinez!
Exact Time and Location
TBD Due to Weather

In Memoriam



Armand "Ziggy" Zighan

A long-time Sea Rovers Associate Member, Ziggy was known by most in the diving community for his leadership with wife JoAnn, also a Rovers Associate Member, in founding, managing, and directing the Beneath the Sea Dive Show in New York and New Jersey. An enthusiastic scuba diver, Armand Zighan founded The Scuba Sport Rites Club in 1975. After starting Beneath the Sea, Zig and JoAnn co-founded Ocean Pals, the children's oriented environmental education section of Beneath the Sea, and the Sea of Tomorrow Society, a charitable group reaching out for sponsorship support to aid the Maria Fareri Children's Hospital at the Westchester Medical Center. Zig served as a captain in the U.S Air Force and retired from IBM after many years as a Project and Development Manager. He was also a Board member of the Education Committee at the New York Aquarium and is the former Executive Vice President of the Underwater Society of America. Zig received the Nick Icorn award in 2000 for establishing the Beneath the Sea Museum of Diving History and the NOGI Award for Sports and Education in 2004 from the Academy of Underwater Arts and Sciences. He was inducted into the International Scuba Diving Hall of Fame in 2012 and received DEMA's Reaching Out award for Beneath the Seas in 2019. Zig's presence in the diving community will be remembered and missed.



Ernie Brooks

All of the world-wide diving community mourned the passing of Ernie Brooks. Long renowned as a master of black and white imagery, his iconic work led him to be named the "Ansel Adams" of the sea. Ernie was known to the Sea Rovers as an A-list Evening Show presenter, Master of Ceremonies, and a strong supporter of the Sea Rover's Internship. Many in the industry knew him as the son of the man who created the Brooks Institute of Photography in Santa Barbara, where he established the school's underwater photography courses. Fewer know that Ernie served in the U.S Air Force and flew U2 spy planes on covert missions. While in the Air Force, Ernie met Jacques Cousteau in Africa where the Calypso was being built. They worked together for 17 years, traveling the world as Brooks trained his photographers. Later in life, Ernie participated in diverse projects of international recognition including: the photographic investigation into the Shroud of Turin (1978 Shroud of Turin Research Project); and photo-documentation of Arctic research station activities (1977 sponsored by the McGinnis Foundation of Toronto, Canada). We will all miss his warm presence and caring heart.



Smokey Roberts

"Smokey," a name carried over from his days playing accordion in the country western band, the 101 Ranch Boys, died October 29, 2020, a victim of the Covid 19 virus. Smokey was a WWII Veteran, serving as a Boatswain's Mate aboard the light cruiser USS St. Louis (CL49), and saw action in the Pacific theater until discharge in 1945. As owner-operator of "Smokey's Diver's Den," 412 N. Duke St., Lancaster, Smokey was well-known as a world-renowned SCUBA diver and underwater cinematographer. He worked for National Geographic as well as NOAA on several special projects during his career, diving on many famous shipwrecks as well as descending in deep-submersible vehicles. Smokey was named the "Diver of the Year" by the Sea Rovers in 1973 and awarded a Rolex watch by Jacques Cousteau. He was a long-time friend of local treasure hunter Burt Webber, finder of the Silver Shoals sunken Spanish Galleon Conception, and Mel Fisher, of Atocha fame. All who knew Smokey will remember his quick smile and willingness to help.

Remember to Raise a Toast To All of the Rovers Past

Elga Andersen	Chip Cooper	Walter Gaudet	Joe Linehan	Bob Price
Gimbel	Jacques Yves	Peter Gimbel	T. Walker Lloyd	Glen Reem
George Benjamin	Cousteau	Harold Goodwin	Luis Marden	Smokey Roberts
George Bond	Mike deGruy	George Gorman	John McAniff	Tony Salerno
Bob Boyle	Don DeSantis	Bill Hamilton	Jack McKenney	Don Scalli
Ernie Brooks	Norm Despres	Walt Hendrick Sr.	Jim "Buzz" Milligan	Frank Scalli
Jim Brown	Craig Douglas	Peter Hess	Robert Newbury	Harry Shanks
Lois Buskirk	Steve Drogin	Clifford "Bunky" Hodge	W. Jerry O'Neill	Wes Skiles
Van Buskirk	James Dugan	Richard Irvine	Richard Oberhauser	Ruth Turner
Bill Carmichael	Ruth Dugan	Norman Katz	Carol Oteri	Paul Tzimoulis
Bob Cartier	Jake Duvall	Delbar Keily	Raymond Oteri	Rick Vahn
Jack Chalk	Harold Edgerton	Mel Lillis		Dave Wagstaff
Eugenie Clark	Walter Feinberg			Zig Zighan

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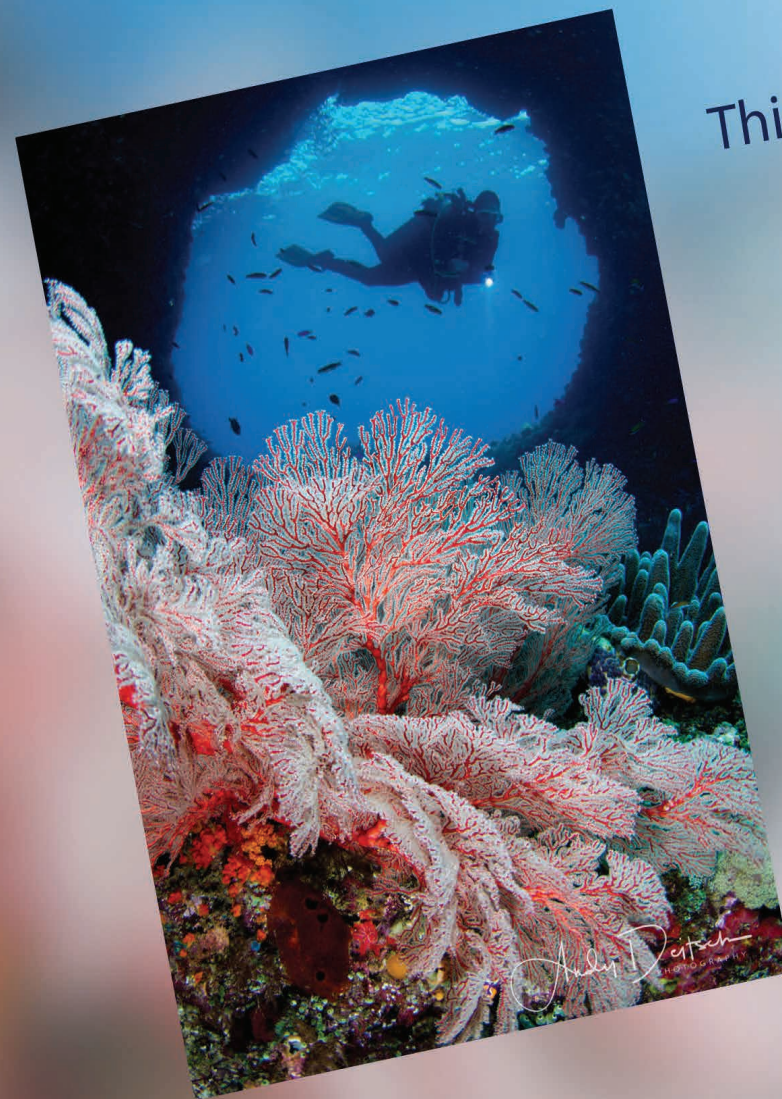
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