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Letter from President Tom Keegan

Dear AIFRB Members,

The AIFRB Board recently held a mid-term conference call to conduct the business of the Institute and to prepare for the Institute's Board meeting in Tampa, Florida on August 19 and 20, 2017. Our Board meetings take place at the venue of the American Fisheries Society Annual Meeting during the weekend prior to the AFS conference. We partner with the AFS at many levels, and the AIFRB has long favored our close relationship.

My first order of business is to congratulate our new President-elect, Kim Anthony! Congratulations Kim! Check out her bio published in this newsletter, and come by our BOC meeting in Tampa on Saturday or Sunday to meet her in person as she takes over the reins of the Institute.

I recently noticed that our PayPal account has been receiving donations of various amounts from the same source, and was curious as to their origin. I found out that an anonymous AIFRB member has been presumably selling his or her book collection and other items and has included AIFRB as a partial beneficiary of those proceeds. I thought what a wonderful way to give back to the profession. I would very much like to express my most sincere thanks to this individual, but since we do not know who it is, I am doing so here in my President's Message. We would certainly like to know who you are, but if you prefer to remain anonymous, then please just accept our heartfelt thanks.

If you regularly read my messages, then you know that one of our biggest challenges is in dealing with low budgets. In fact, last year in Kansas City we devoted nearly the entire Board meeting towards revising our operations to make the most of our budget for funding our awards programs that focus on student research, achievement of our young professionals, and recognition of outstanding achievement of individuals, as well as fishery groups that have done so much for our fisheries and our profession. Though we are still financially challenged, our membership chair, Todd Chapman, continues to report good news about our second consecutive year of record-setting membership applications. Because of this, we are managing to meet financial obligations and have been able to fund our awards program in 2017. This is encouraging for the health of our Institute; however, we continue to seek sources of income to improve our programs. If our entire membership were to fully pay their annual dues, we would have more than enough to fund our desired programs. But as it stands at the time of this writing, only 43% of the membership has paid their 2017 dues. If you have not paid annual dues, please take a moment to bring your dues account current. On the plus side, 18% of our Emeritus members have made donations to the Treasury. We have recently received dues from a few individuals that had been several years in arrears, taking the step to becoming current, and it significantly and beneficially affected our bottom line. We thank you. Payment of all dues and donations may be easily accomplished on our improved website.

I mentioned in my last message that membership in AIFRB is unique among organizations in that we do not "cut off" our members if they are in arrearage of dues for a year or even for two. It is our current policy to keep a member in good standing, even if dues are in arrears for up to three years. Even then, we are not necessarily fastidious in removing members! This is because we value our members, and understand financial challenges that many members assume. However, our costs increase with increased membership, so for fiduciary reasons, we will be forced this year to cut members that are 3 years in arrears. This will occur in August, so if you are in arrears, please either bring your dues current online, or send a message to our Membership Chair, Todd Chapman (tchapman@eorpconsulting.com) for guidance. We are very willing to work with our members; we do not want to lose you!

There are a few items that I want to bring to your attention relative to the upcoming Board and AFS meetings in Tampa:

1) This year, our resident symposium coordinator, Sean Lucey, has been particularly hard at work organizing two AIFRB co-sponsored (along with AFS Marine Fisheries Section) symposia focusing on Management Strategy Evaluation (MSE): ***Under Pressure: Defining Harvest Strategies that Account for Biological, Environmental or Anthropogenic Spatiotemporal Complexity***, and ***Closing the loop: Stakeholder involvement in the Management Strategy Evaluation (MSE) process***. The session conveners include several AIFRB members and all AIFRB members are encouraged to attend the sessions and contribute to question/answer and discussion panel considerations. In addition, AIFRB members are assisting with the ***Monsters of Fish Habitat Workshop***, organized by AFS Fish Habitat, Estuaries, and Marine Fisheries Sections. Check the AFS Meeting program for time and place of these symposia.

2) Once again, the AIFRB will sponsor a booth in the AFS Trade Show. All members and interested guests are invited and encouraged to come by the booth to review membership materials and District activities, converse with AIFRB Board members, and to support our mission. We also have a membership special available only during the Trade Show. Be sure to stop by the booth during the Tradeshow and Poster Networking Event/Social on Monday evening at the Tampa Convention Center when AIFRB members in attendance of the AFS meeting traditionally tend to congregate.



AIFRB members at the Tradeshow booth in Little Rock, Arkansas

3) Be sure to look for a future announcement from us regarding an AIFRB mixer to be held at a nearby venue, likely on Tuesday evening, August 22nd. Organized by our Florida District Director, Bonnie Ahr (ahr.bonnie@gmail.com), refreshments will be served to all existing and potential AIFRB members. The purpose of this mixer is two-fold: to allow Florida District members to meet with other Floridians that may be interested in joining the District; and, to allow for an opportunity to meet and greet AIFRB members from all over the country. Member or not, please join us.

4) I want to remind all AIFRB members that you are welcome to attend our annual Board meeting on Saturday and Sunday (check the Schedule-at-a-Glance in the AFS program for time and place), where you may address the Board with any concerns, questions or ideas for Institute improvement. Take the opportunity to meet with your District Director or perhaps you reside in an area without a currently active District and would accept our encouragement to start a District. If you wish to be placed on our agenda, simply send me a note at tomk@helixepi.com with your topic.

5) Are you a student presenting a talk at an upcoming conference and need funding? Check out our Clark Hubbs Research Assistance Award program. Travel assistance is provided for qualified graduate students and other associate members to present a research paper at a scientific meeting of their choice. And if you have grad students that need funding assistance, please have them send a letter to our Hubbs Research Award Chair, Dr. Jerry Ault, at jault@rsmas.miami.edu.

Sincerely,

Tom Keegan, President

+ Make a Difference!

Your work matters to the Institute

- Share your research interests, AIFRB activities, and pictures – Briefs is always looking for exciting content to share with our members!
- Make a donation to the Institute to support student awards!
- Get involved with your regional district and consider volunteering!

President-Elect Kim Anthony



The Institute is happy to welcome President-Elect, Kim Anthony, who is ready to take the reins in August! We held the election for the term of President 2017-2020 during the winter months of 2017 with two nominated candidates, Kim Anthony and Bill Michaels. Both candidates presented insightful ideas for the future of the Institute, and the membership responded by voting in record numbers. We thank both candidates for their willingness to serve the Institute and congratulate Kim on being elected as our new President!

BACKGROUND

Kim attended California State University Long Beach, where she earned a B.S. in Marine Biology and M.S. in Biology. Her research focused on ichthyology, with an emphasis on fish behavior, habitat utilization and ecology. Her research gave her the opportunity to work directly with agency and industry professionals and provided a foundation for her future interactions in AIFRB. Since graduating, Kim has been employed at Southern California Edison (SCE), working as the company's marine and coastal subject matter expert, while managing multi-million dollar projects related to marine mitigation and compliance.

INVOLVEMENT

Kim has served as the Southern California and Baja California/Mexico district director since 2013, leading the local membership and guests through business meetings and fundraising events, awarding students for excellence in research, increasing membership and doubling the treasury to support student research awards. As an AIFRB Board member, Kim has been an active participant of AIFRB at the national level, working directly with the President, Tom Keegan, the executive committee and district directors across the country.

VISION

As AIFRB president, Kim plans to work with the Board to take our marketing approach to the next level, and build upon the foundation of past presidents to implement an aggressive strategy that not only draws prospective members' attention, but effectively retains current members and addresses the issues that are most important to them. Kim plans to continue working with each district director to ensure that they have the

"As a team, we'll increase our communications through a redesigned website, dynamic social media posts, email and phone. We will ask members how AIFRB can support them in their work and research and invite new people, new research, and new ideas to the table in the form of discussions, workshops, symposia and meetings in order to achieve those expectations." – Kim Anthony

resources needed to engage fishery biologists in their respective regions. Kim is dedicated to supporting our student members of all academic levels and offer an open forum for networking and professional development. She also wants to develop a business plan that will support the short-term (i.e., ~5 years) goals and build a foundation for the long-term sustainability of the institute. Kim states, "I envision a productive, energetic and forward-thinking Board that will lead AIFRB into a period of revitalization, supporting its most important asset—the members—in our overarching goal of advancing the excellence of fishery science."



2017 AIFRB Symposia – Tampa, Florida

Management Strategy Evaluation

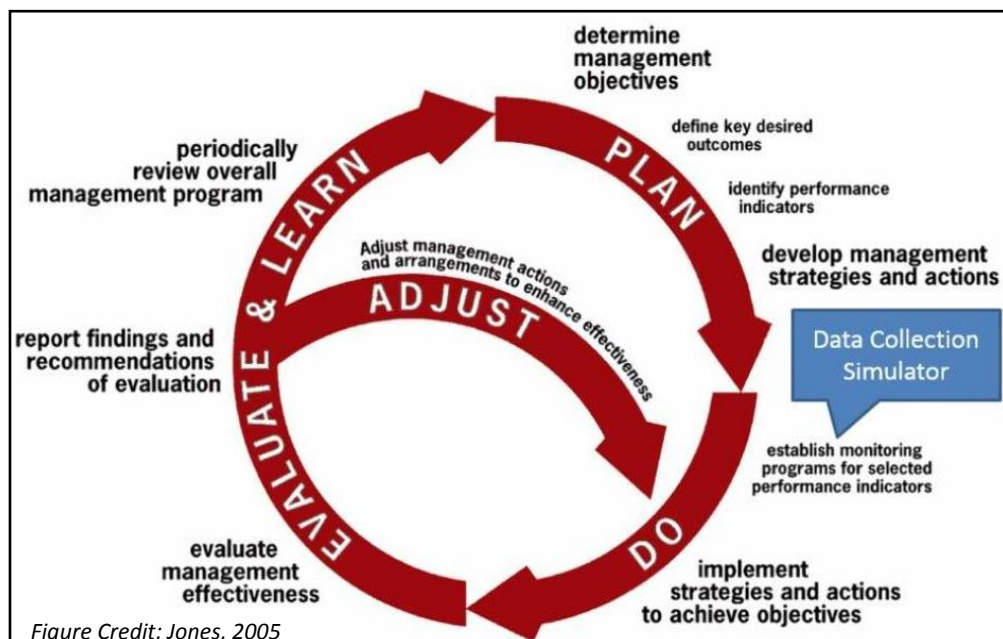
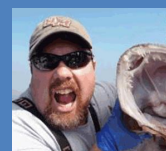


Figure Credit: Jones, 2005

SYMPOSIA

August 2017
Tampa, Florida

Organized by AIFRB-AFS
Liaison: Sean Lucey



We are excited to be involved in organizing and co-sponsoring **TWO** symposia for this year's annual meeting of the American Fisheries Society (20-24 August in Tampa, FL). Both symposia will focus on the topic of Management Strategy Evaluation (MSE) and the development of robust harvest strategies. MSE has been applied around the globe for management of fish, shellfish and marine mammals. U.S. science and management strategies have recently focused attention on the application of MSE as applied to species managed under the Magnuson-Stevens Fishery Management and Conservation Act, the Marine Mammal Protection Act, and the Endangered Species Act.

The first symposium, titled ***Under Pressure: Defining Harvest Strategies that Account for Biological, Environmental or Anthropogenic Spatiotemporal Complexity***, will explore recent developments in MSE analysis. This session includes presentations related to all aspects of MSE development (i.e., ranging from developing unique harvest control rules to improving the simulation methods used as the foundation of the MSE or developing readily understandable performance metrics), and emphasis will be placed on those methods that incorporate spatial and environmental components.

The second symposium titled, ***Closing the loop: Stakeholder involvement in the Management Strategy Evaluation (MSE) process***, will be geared towards lessons learned in the development of MSEs, particularly in relation to improving the involvement of various stakeholders. This session is focused on presentations about various aspects of stakeholder engagement from initial scoping to dissemination of MSE results.

The session conveners include several AIFRB members (Sean Lucey, Daniel Goethel, Aaron Berger, and Patrick Lynch), as well as prominent MSE researchers (Sarah Gaichas and John Walter). The sessions will be jointly sponsored by AIFRB and the Marine Fisheries Section of AFS. A panel discussion will be held at the close of the two symposia to discuss ways in which MSE could be improved and to highlight methods to enhance stakeholder involvement. All AIFRB members are encouraged to attend the sessions and contribute to question/answer and discussion panel considerations. The proceedings will be published in a special issue of the Canadian Journal of Fisheries and Aquatic Sciences.

(Jones, G. 2005. *Is the management plan achieving its objectives?* in G. Worboys, M. Lockwood & T. DeLacey, eds. *Protected area management: principles and practice: second edition*, Oxford University Press, Oxford).

AIFRB Board Annual Meeting/Tradeshow 2017 – Tampa, Florida



The AIFRB annual Board meeting is scheduled for August 19-20 at the Tampa Convention Center, in conjunction with the American Fisheries Society 147th Annual Meeting. We have a full agenda this year covering the topics of record numbers of new recruits, retention of current members, financial planning, convening a national conference, and passing the gavel from President Tom Keegan to President-Elect Kim Anthony.

All Board members and District Directors are highly encouraged to attend! We can

provide travel support to Board members, depending on available funds, and will offer a conference call/webinar for those not able to attend in-person (details TBD www.aifrb.org).

AIFRB Board Meeting Schedule

- Saturday 8/19
 - 10am-5pm Board Meeting
 - 6-10pm Board Social Event
- Sunday 8/20
 - 9am-2pm Board Meeting
 - 2-4pm Tradeshow Booth Set-up

Tradeshow Schedule-Booth 209

- Sunday 8/20
 - 2-6pm Exhibit Move-In
- Monday 8/21-Wednesday 8/23
 - Exhibits open
- Wednesday 8/23
 - 2-4pm Exhibit Dismantle

We'll also have our traditional booth at the AFS Tradeshow. We will feature t-shirt sales, new member recruitment bonus items, Institute information, and a great opportunity to meet members of the Board. Please consider volunteering to help out at the booth, or just stop by to say hello to your fellow AIFRB members!



AIFRB Board Mid-Year Call 2017

| 2017 AIFRB Board Treasury Budget | |
|----------------------------------|--------------------|
| Budget Item | Budget |
| Operations | \$1,050.00 |
| Service Contract | \$3,750.00 |
| Mailings | \$1,525.00 |
| District Events | \$1,350.00 |
| Tradeshow | \$2,200.00 |
| Travel | \$5,000.00 |
| Membership Supplies | \$750.00 |
| Awards | \$3,500.00 |
| Total | \$19,125.00 |

The Board held its Mid-Year Call on May 22nd to discuss the Institute's treasury and proposed budget, membership recruitment and retention, plans for the annual Board meeting, tradeshow and symposia, and begin discussions of a national conference slated for 2019-2020. The group discussed the treasury status in accord with the Board-agreed change to the Institute's fiscal year from September 1 – August 31 to a calendar schedule (January 1-December 31). The Board re-established a Member Retention Committee to develop ideas on how to engage the full membership and retain active interest at the regional and national levels. President Tom Keegan and President-Elect Kim Anthony presented ideas for organizing a national AIFRB conference focused on a current topic of interest for AIFRB members. Conference planning will continue over the next couple of years with input from the Board about fundraising efforts, identification of keynote speakers, and public stakeholder engagement. Follow-up discussions and Board decision-making on all topics will take place at the annual Board meeting in Tampa in August.

Membership Report – July 2017

We have a record number of 43 new recruits since August 2016! The Membership Committee Chair, Todd Chapman, has dedicated an unprecedented effort towards engaging members of the fisheries science field, from students to experienced researchers, to join AIFRB and contribute their expertise and volunteer spirit! New members include 19 Student Associates, five Professional Associates, 13 Members, and six Fellows. We also had several recent promotions at all levels of membership. Todd was the 2016 recipient of the AIFRB Distinguished Service Award for his efforts in recruiting and retaining members to the Institute. We congratulate Todd on his well-deserved award, thank the entire Membership Committee, and welcome all new AIFRB members!



We welcome membership applications throughout the year! For more information contact Todd Chapman (TChapman@ecorpconsulting.com)

Welcome and Congratulations to ALL!!

Fellows

Douglas Austen
Eva Bergman
Thomas Bigford
David Geist
Larry Greenberg
Sanjay Jadhao

Members

Leah Baumwell
Kristen Ferry
Caleb Hasler
Paul Kusnierz
Muruganandam Muthiah
Karen Pianka
George Schisler
Jonathan Schram
Tracey Steig
David Stormer
Alison Verkade
Jeffrey Vieser
Robert Win

Professional Associates

Alex Gonyaw
Kelsey Kuykendall
Kristen Mastropole
Amanda Van Diggelen
Nathan Winkler

Student Associates

Arthur Barraza
Kathryn Blair
Robert Boenish
Jason Boucher
Echelle Burns
Alyssa Clevestine
Jeremy Higgs
Lisa Hollensead
Melissa Karp
Dmytro Khrystenko
Garfiled Kwan
Mackenzie Mazur
Efeturi Oghenekaro
Sara Pace

Nivette Perez Perez
Thomas Remington
Tomena Scholze
Barbara Weiser
Christopher Free

Promotions

Robert DuBey - Emeritus Member
Michael Hinton - Emeritus Fellow
Orlay Johnson - Emeritus Member
William Kier - Emeritus Member
Michael Tillman - Emeritus Fellow
Felipe Amezcua - Fellow
Steven Cadrin - Fellow
Steven Cooke - Fellow
David Wyanski - Fellow
Bonnie Ahr - Member
Steve Eays - Member
Laura Oremland - Member
Bonnie Rogers - Member
Charles Villafana - Member
Manna Warburton - Member
Sam Asci - Professional Associate
Crista Bank - Professional Associate
Brian Gallagher - Professional Associate
Alex Gonyaw - Professional Associate
Walter Via - Professional Associate

+ Please come join us!

- aifrb.org
- www.facebook.com/aifrb
- twitter.com/AIFRBResearch
- LinkedIn - AIFRB Biologists

+ Don't forget annual dues!

- aifrb.org/members-only
- \$25/year for Students
- \$45/year for non-Students
- Donations welcome

Outstanding Achievement Award Presentation – Kenneth Chew



Dr. Kenneth K. Chew, AIFRB Emeritus Fellow, receiving the 2015 Outstanding Individual Achievement Award from Dr. André Punt.

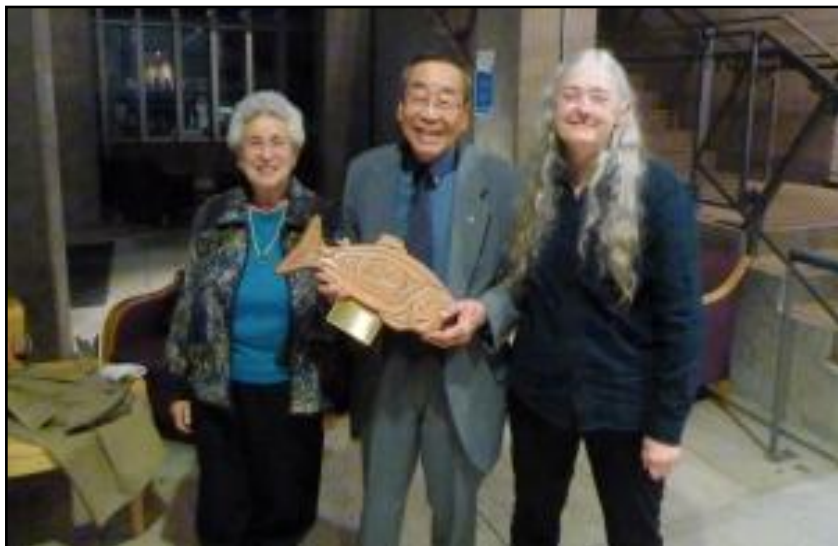
Dr. Kenneth K. Chew, AIFRB Emeritus Fellow, received the 2015 AIFRB Outstanding Individual Achievement Award from Dr. André Punt, AIFRB Fellow and Director of the University of Washington School of Aquatic and Fishery Sciences (SAFS). Dr. Chew has been a member of AIFRB since 1963, a Fellow of the Institute since 1972, and an Emeritus Fellow since 2010. He is recognized as an outstanding educator, university administrator, and nationally and internationally acclaimed authority and leader in the advancement of shellfish biology and aquaculture.

During his long and distinguished teaching, research, and administrative career at the University of Washington, he has been a dedicated, inspiring, and highly effective educator; many of his students have assumed positions of responsibility in research, teaching, and government throughout the country and the world. His knowledge of shellfish biology and ecology led to innovative

culture and harvest practices that continue to improve survival and growth in shellfish farms throughout the United States and in many other countries. He and his students were responsible in large part for the development of triploid oysters, the standard used today in shellfish aquaculture. Even in retirement, he has continued to serve his profession as a scientific and technical expert and advisor.

In addition to presenting Dr. Chew with the Outstanding Individual Achievement Award, AIFRB also provided a \$500 donation to the University of Washington SAFS Kenneth K. Chew Endowment Fund to further honor his exceptional lifetime accomplishments and contributions.

“AIFRB’s donation is a thoughtful tribute to Ken Chew in recognition of his contributions to the field of shellfish aquaculture. We are grateful for the support.” – Dr. André Punt, Director of the University of Washington School of Aquatic and Fishery Sciences (SAFS)



Dr. Kenneth K. Chew, 2015 Outstanding Individual Achievement Award recipient, with fellow AIBRF Emeriti, Dr. Frieda Taub (left) and Dr. Katherine Myers (right).

District Activities and Events



Capital

The Capital District had a successful networking social last month at Denizens Brewing Company in Silver Spring, MD. This event drew dozens of participants and was co-sponsored by the AFS – Potomac Chapter (photo at left). District Director, Mark Chandler, recruited several new student and professional members, and somehow managed to find a day without rain on the east coast in May! A great time was had by all and the event provided an excellent opportunity to meet with new fisheries professionals as well as renew longtime connections.

British Columbia

British Columbia AIFRB District Director and Washington-BC Chapter AFS Communications Director, Brittany Jenewein organized a symposium at the WA-BC Chapter AFS Meeting with funding support from AIFRB in February. Brittany organized a symposium titled, “Knowledge Mobilization: More than just bridging the gap between knowledge producers and users”, and hosted keynote speaker, Dr. Nathan Young (pictured at right) from the University of Ottawa. Check <http://wabc-afs.org/2017-agm-presentations/> for the full meeting program and presentations.




Southern California

The Southern California District has had a busy spring with a business meeting in April (announcement at left), presentations of best student paper and poster awards at the annual Southern California Academy of Sciences, and preparing for a new slate of officer's this fall, when District Director/President-Elect Kim Anthony takes over at AIFRB President.

AIFRB Meeting Announcement
Southern CA and Baja CA, Mexico District


Please join the Southern California District Board for our next business meeting on **April 13, 2017** at the



Ocean Institute
<http://www.ocean-institute.org>
24200 Dana Point Harbor Dr.
Dana Point, CA 92629

6:00 pm...Arrival and Networking
6:30 pm...Dinner and Business Meeting
7:30 pm...Featured Speaker

We have a full agenda for this meeting and encourage attendance by all members and guests. AIFRB National President Tom Keegan will be making an important announcement and presentation, we have elections to prepare for and will hear from the Ocean Institute's Julianne Steers on current research and programs with potential partnerships with AIFRB.



As per usual, please come prepared to purchase dinner at a rate of \$15 per person. We are negotiating catering services at the most economic cost possible. Thank you!

Carpools available from Long Beach and San Diego
Visitors and guests are always welcome!

Please RSVP to Heather Gliniak, Secretary-Treasurer at heather.gliniak@wildlife.ca.gov

New England

The 2017 International Pectinid Workshop was held in Portland, ME in April. Several AIFRB New England members, including Associate, Sam Asci, Director Ben Galuardi, past Director David Bethoney and Treasurer Cate O'Keefe were in attendance (pictured at right).



Northern California

The Northern California District once again organized and led the Student Oral Presentation and Poster Award judging at the 51st Annual AFS Cal-Neva Chapter Meeting in Eureka, California, April 5-7. District members judged 11 papers and 9 posters, who were in competition for cash prizes of. In addition, a special award honoring Katrina Marten (Northern California fish biologist) was given to the best poster that exhibited creativity, ingenuity, and resourcefulness. The poster winners were: 1st – Travis Apgar, 2nd – Mason London, 3rd Jordan Wingenroth. The paper winners were: 1st – Brittany David, 2nd – Liam Zarri, 3rd – Katherine Osborn. The Katrina Marten poster winner was Denise Colombano. Thanks to all the District members who performed the judging and congratulations to the winners.

Members in the Spotlight – Capital District

Mark Chandler – District Director



Mark has been the AIFRB Capital District Director for the past two years, organizing events such as a networking social this past spring and a crab feast last fall in coordination with the American Fisheries Society – Potomac Chapter. He is married with three kids who are learning all about the ocean from their dad. He received his B.A. in Zoology from Miami University and his M.S. in Molecular Biology from Case Western University.

Mark has over two decades of professional experience in marine fisheries science and policy. He is currently the National Marine Fisheries Service (NMFS) National Cooperative Research Program Coordinator. This program leverages partnerships to maximize agency investments in science by utilizing scientists, managers, and stakeholders to collaborate on research to support stock assessment, bycatch reduction, and other scientific/management questions. Mark also administers the Center for Independent Experts (CIE) for NMFS. The CIE is a resource for undertaking external, independent, and expert peer reviews of NMFS' influential science used for policy decisions. The CIE helps ensure that the best scientific information available is utilized in the conservation and management of living marine resources.

Melissa Karp – New Student Associate

Melissa Karp joined AIFRB as a Student Associate in April during the Capital District social event. Here, she introduces herself and describes her background. We welcome Melissa, and encourage members to reach out to her with shared interests or experiences.

"I am originally from Berwyn, PA, a suburb west of Philadelphia. Growing up, I always loved the environment, particularly the aquatic one. I would spend hours down at the neighborhood creek staring at minnows darting in search of food, and always looked forward to our family trips to the beach (Ocean City, NJ) in the summer! This love for the environment, and desire to understand the world around me led me to pursue environmental science in college."



"I received a B.S. in Biology and Environmental Science from Tufts University in 2013. While at Tufts I had the opportunity to participate in a diversity of research projects, both on land and in the water. During a semester abroad in Ecuador I studied the breeding behavior of two parakeet species in a remote bird reserve. I spent four weeks hiking through the cloud forest tracking the birds and climbing palm trees to peek inside their nests to count the number of eggs and monitor hatching and fledging success rates. After returning from Ecuador, I was a summer intern at the James J. Howard Marine Lab in Sandy Hook, NJ, as part of the NOAA Hollings Scholarship Program. For this 10 week internship I worked on a project studying the effect of female summer flounder age and size on offspring quality. During my senior year at Tufts I conducted two independent projects working with the marine polychaete *Capitella teleta* in Dr. Jan Pechenik's lab. After Tufts, I received an M.S. in Marine Science from the Virginia Institute of Marine Science. My thesis work focused on quantifying the habitat value of restored oyster reefs in the Chesapeake."

"I see being a member of AIFRB as a great opportunity to network and potentially collaborate with other fisheries scientists from across the country, who share the same desire to manage, protect, and conserve our fisheries resources and marine environments through the use of sound science." – Melissa Karp

"I am currently a Sea Grant Knauss Fellow with NOAA Fisheries Office of Science and Technology's National Stock Assessment Program serving as the fisheries science coordinator, hosted by Dr. Patrick Lynch. I am assisting in coordinating a national working group established to develop best-practices and recommendations on how to account for changing stock productivity and shifting distributions in fisheries management. I'm also involved in implementation of the new Stock Assessment Improvement Plan, and developing guidance in response to changes to the National Standards guidelines of the Magnuson-Stevens Act."

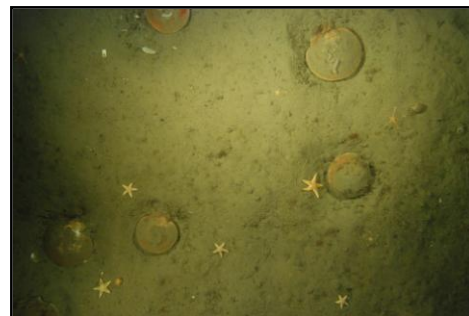
Current Member Research – Kevin Stokesbury (New England District)



What if you could count the fish in the ocean without having to catch them, bring them to the surface, sort them and ultimately kill most of them? Dr. Kevin Stokesbury, AIFRB Member and Professor at the University of Massachusetts Dartmouth's School for Marine Science and Technology (SMAST), has been doing just that for nearly two decades. Initially focused on using video technology to survey sea scallops off the U.S. east coast, Stokesbury and his research team have expanded the use of underwater cameras to count finfish on Georges Bank and in the Gulf of Maine.

Dr. Stokesbury began working on alternative survey methods to estimate the size of the scallop resource in the northwest Atlantic in 1999. His objectives were to look at the abundance, location and size of scallops to improve stock assessments

and enhance opportunities for commercial fishing. Building on his background using SCUBA diving survey techniques on aggregations of scallops in shallow, coastal waters, Stokesbury considered the use of cameras to view the scallops in situ, enabling real-time estimates of abundance without impacting the seafloor habitat or removing scallops from the ocean. With collaboration from the fishing industry, he designed the SMAST Scallop Video Survey, which uses underwater video cameras on a quadrat sampling pyramid lowered from fishing vessels, ultimately changing the region's outlook on the scallop resource.



The scallop video survey has been applied on Georges Bank and the Mid-Atlantic Bight since 2003, and has been published in over 40 peer-reviewed scientific papers with collaboration from over 200 students, scientists and fishermen. The survey has received international recognition and is used annually by the New England Fisheries Management Council to set commercial fishery quotas and support the rotational management plan for scallops.



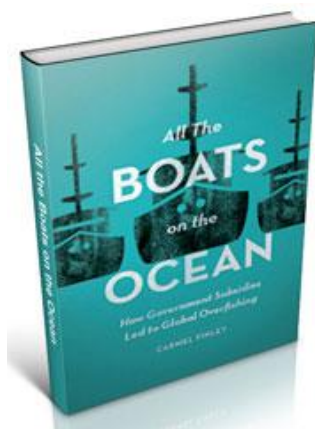
Stokesbury and his team are now applying the same principles to address the critical situation in the New England groundfish fishery by developing new ways to survey finfish using video techniques. The group has been conducting surveys onboard commercial groundfish vessels, placing high-resolution video cameras in the codend of a groundfish otter trawl net. The codend remains open to allow fish to swim out, and the team is gathering information on the species, size and abundance as the fish pass by the camera view.

The new technique has been tested on yellowtail flounder on Georges Bank

and cod in the Gulf of Maine. According to Stokesbury, "The results look promising and if we can refine this technique, we will be able to greatly increase the amount of ocean that is currently sampled without killing more fish." The regional reaction to the new survey technology has been positive, and members of the groundfish industry are encouraged about applying the technique in more areas for more species. Similar to the reactions from scallop fishermen upon seeing footage of scallops on the seafloor in the late 1990s, groundfish fishermen are awed at the videos of cod, haddock and flatfish as they pass by the cameras' lenses. The video trawl research was recently published in Transactions of the American Fisheries Society (DeCelles et al., 2017; 146(3), 462-477), and a new paper on the topic will be released in Fisheries Journal this fall. The collaborative work has been funded through the Massachusetts Marine Fisheries Institute.

"Such high-tech experiments are essential in efforts to gauge whether the cod population, which has suffered a historic collapse, might have a comeback in store."
– The Boston Globe

Book Review – *All the Boats on the Ocean*



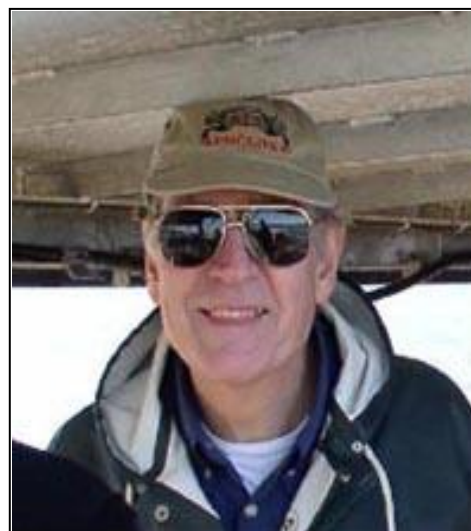
AIFRB Emeritus Fellow, Don Gunderson recently reviewed the book “All the Boats on the Ocean: How Government Subsidies Led to Global Overfishing” (Carmel Finley, University of Chicago Press, 2017). Don has been a member of AIFRB since 1979, and became an Emeritus member upon his retirement from the University of Washington School of Aquatic and Fishery Sciences in 2009.

“All the Boats on the Ocean” – excerpt of review by Don Gunderson

This book is a well-written, scholarly, and engaging history of state subsidies for the fishing industry. This carefully researched book explores the political and economic philosophies behind the subsidies that gave rise to the development of those Soviet and Japanese fishing fleets that hit both coasts of the U.S. like a tsunami in the 1960’s, then mushroomed the size of U.S. “domestic” fleets in the 1970’s and 1980’s.

As Finley shows, fishing subsidies are never just about fishermen or food. They are just one component in a suite of tactics used to achieve broader (often covert) national economic and political goals. “Feeding the people” is usually a secondary goal.

Finley argues that the goal of achieving MSY (maximum sustainable yield) throughout the world’s oceans was happily endorsed by diplomats who probably didn’t even understand the conceptual framework behind it. It simply buttressed their position on freedom of the seas. When the international community began to adopt 200-mile fishing zones in 1976, and MSY had achieved the status of a moral imperative in order to avoid “wasting” fish needed by humanity, the U.S. had a new problem. It could either subsidize the expansion of its domestic fleet and harvest MSY itself, or allow foreign fleets within their new 200-mile limit. They chose the latter of course, and the dynamics of pork barrel politics insured that the domestic fleet soon became much larger than necessary.



Dr. Donald Gunderson

Finley gives a broad overview of global issues, and focuses on the Pacific coast of the U.S. to show how this played out at a personal level for the fishermen, processors, and scientists there. She highlights the fate of Pacific coast “rosefish” (Pacific ocean perch) stocks, which have yet to rebuild from the overfishing that resulted.

Finley’s book shows clearly that subsidies to the fishing industry almost always develop a political life of their own, bloat the fishing fleet, and result in overfishing. They are always a bad idea if sustainable fisheries are the only policy goal—which (as Finley shows) it usually isn’t. We now know enough to ask, “What is the real goal here?” whenever such subsidies are proposed

While the book represents a thorough analysis of fisheries policies through the 1980’s, it leaves out many subsequent developments, and closes with a fairly dark assessment of the current situation. Finley fails to recognize that there has already been considerable progress in achieving sustainable fisheries. Overfishing on both coasts of the U.S. eventually led to the development of laws and management systems that began the rebuilding process, and many U.S. stocks are currently being harvested at MSY levels.

I strongly recommend that anyone interested in the history, science, or management of marine fisheries read Finley’s book, which represents a definitive analysis of the politics of world fishing from the 1940’s through the 1980’s.

The Clark C. Hubbs Research Assistant Award – Over 30 Years of Travel



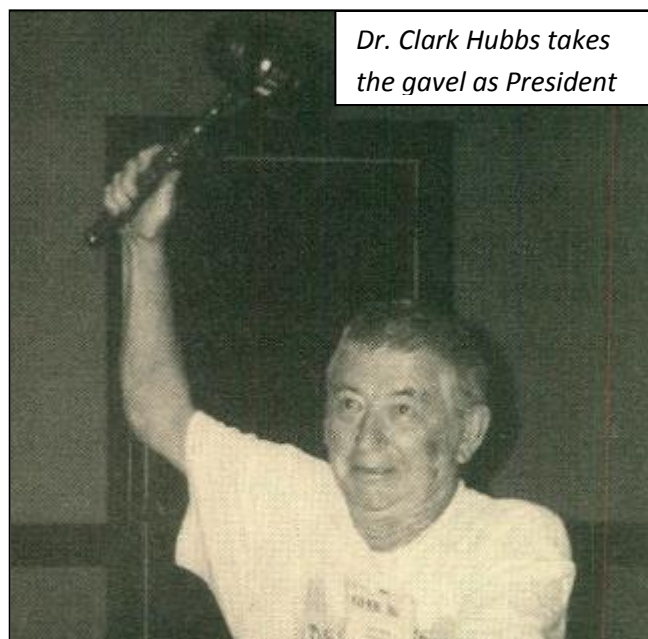
As we close out another year's competition for the Clark C. Hubbs Research Assistant Award, we thought it might be interesting to delve into the history of the award, established in 1984, and the scientist for whom it is now named, Dr. Clark C. Hubbs. The "AIFRB Student Travel Raffle" was first announced in 1983, with the first awards made in January and June 1984. The original stated purpose of the awards was "to assist students to attend scientific meetings, where they will not only gain additional knowledge but may also make contacts regarding future employment". The \$250 prizes were given to students by picking names out of a jar! However, after diminished interest in the second year of the raffle, the BoC decided to base the awards on merit, rather than chance. By 1987, several applications from Associate Members were reviewed, and four travel awards were presented, including to our current Secretary, Barbara Warkentine.

The award has been presented to up to ten students per year for over 30 years, ranging in value from \$100 to \$500, for a total of over 100 student awards. Recognizing the impact of this award for Associate members of the Institute, the BoC decided to rename the program in honor of Dr. Clark C. Hubbs in 2008.

Dr. Hubbs was AIFRB President from 1995-1997. He joined the Institute in 1970 as a Fellow and was promoted to Emeritus Fellow in 1991. Dr. Hubbs' engagement with AIFRB included not only President and Past-President, but also award committees and active BoC participation.

Dr. Hubbs was the son of noted naturalists Carl and Laura Hubbs. He developed a love for the science of fisheries biology at an early age and became an ichthyologist, obtaining his PhD from Stanford in 1951. In the same year, Dr. Hubbs became an assistant professor of zoology at the University of Texas and subsequently an associate and then full professor. From 1974 to 1976, he was chairman of the Biology Department, and from 1978 to 1986 he was chairman of the Zoology Department. During his long career, he published more than 300 articles.

Of utmost importance to Dr. Hubbs was the training of students. A former student noted, "I will always think of myself as a Hubbs' student. This is one of the deepest and most stable elements of my identity. Hubbs students are not so much members of an academic society as they are members of an extended family." AIFRB will continue to honor Dr. Clark Hubbs with the Research Assistant Award. Please help spread the word about the award and application process (www.aifrb.org).



Dr. Clark Hubbs takes the gavel as President

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Vacant District Director Seats

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Alaska, Southeast
Arizona/New Mexico
Carolinas
Great Lakes, South Central
Gulf of Mexico, Northeast

+ We need new Directors!

- Plan fun networking events
- Raise funds for students
- Recruit new members
- Contact: Kim Anthony

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Comments and written contributions should be sent to cokeefe@umassd.edu

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