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## Letter from President Kim Anthony

Dear Members,

I am humbled by your support and gratefully accept the role of President of the American Institute of Fishery Research Biologists. I follow in the footsteps of dedicated and resolute presidents before me and carry forward a legacy established by the Institute's Founding Fellows in 1956. I thank the Board of Directors (Board) for its dedication and, especially, Past President Tom Keegan for his support during my tenure as District Director of Southern California and for my

transition into the presidency. I'd also like to thank Bill Michaels of the NMFS Office of Science and Technology for stepping up in this election as a competitive candidate for this role. I look forward to encouraging members, like Bill, to realize the importance of being a member, to be heard and to advance AIFRB's mission and purpose.

I have been involved with AIFRB since my undergraduate years at Cal State Long Beach. Being closely involved with AIFRB has allowed me to watch this organization evolve for over 15 years and understand its strengths and weaknesses. As such, I'm looking forward to working with you to bring new ideas to the table, capitalize on our strengths and find creative solutions for our challenges, all while continuing to make AIFRB an outstanding organization.

I appreciate your trust in me to lead this group of fisheries professionals through the next three years. I have several goals for AIFRB that I need your help in achieving:

1. **District revival.** There are several districts of AIFRB that are in need of Directors committed to building and fostering their membership bases and serving as a conduit to the national organization by attending meetings, participating in Board email and social media discussions, etc.
2. **Member services, involvement and participation.** Let's focus more attention on what we provide to our members and what our members mean to the organization. I encourage you to communicate freely and contact me directly with ideas.
3. **Membership recruitment.** Continued recruitment is imperative. Our Membership Chair has done a stellar job in attracting new blood, but I'll be looking to District Directors to lead this charge locally as well.
4. **Social media marketing and branding.** Well into the 21<sup>st</sup> century, AIFRB needs to take more advantage of social media to supplement and enhance our image, our brand and how we stand out amongst a sea of non-profit science organizations. In addition, we'll update our printed material and ensure consistency in messaging as we redevelop our branding.
5. **Young Professionals.** As part of our marketing and branding campaign, I believe that the Young Professionals Representative has the most important job in outreach, recruitment and tracking our new membership. Young professionals in our field provide not only the future of fisheries management, but the future growth of AIFRB.
6. **New website.** The website is AIFRB's hub. We need a clean, dynamic website that serves as our primary resource for information, advertising and membership services. Already, I have a team of web developers working on updating our site, expected for unveiling in December 2017. Best of all—their work is free!
7. **Symposium 2020.** AIFRB understands the environmental challenges that face the future of fisheries and their management. Our distinguished Past Presidents are working towards an AIFRB-sponsored symposium in 2020 on the U.S. west coast. District Directors and members will be strongly encouraged to participate in planning.

The timeline for attaining these goals started on August 20<sup>th</sup> when Tom Keegan passed the gavel to me during our annual Board meeting prior to the American Fisheries Society (AFS) conference in Tampa, Florida. Discussion revolving around these goals provided the impetus to further engage our Board and membership. I applaud members who were present that committed to action items to achieve these goals, and I will continue to follow up with you to ensure you have the resources you need to maintain a path to success.



*"I'm very grateful for the support of the Board and Past Presidents Tom Keegan and Steve Cadrin during my transition. 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 order to achieve those expectations"*  
– Kim Anthony, President of AIFRB

**Past President Tom Keegan passed the AIFRB gavel to President Kim Anthony at the 2017 Board meeting on August, 20<sup>th</sup> in Tampa, Florida.**

Key accomplishments during the Board and AFS meetings were:

- Approval of the Outstanding Group Achievement Award to the Center for the Advancement of Population Assessment Methodology (CAPAM)
- Announcement and presentation of the W.F. Thompson Award for best publication by a student in 2015 to Charlie Waters, University of Washington
- Approval of six recipients for the 2017 Clark Hubbs Research Assistant Award
- Announcement of the Distinguished Service Award to Dr. Cate O'Keefe, AIFRB Treasurer
- Approval of the budget for fiscal year 2018
- Approval of changes to AIFRB Bylaws to better facilitate elections and collection of dues
- Successful AIFRB symposia, organized by AIFRB-AFS Liaison, Sean Lucey
- New and highly popular AIFRB social led by new Florida District Director, Bonnie Ahr
- Successful AFS trade show booth managed by Past President, Tom Keegan, Membership Chair, Todd Chapman and Young Professionals Representative, Mary Blasius
- Presidential appointment of officers and committee chairs

Thank you all for your continued support and please join me in achieving the next level of success for AIFRB.

Sincerely,

Kim Anthony  
President

[kim.anthony@aifrb.org](mailto:kim.anthony@aifrb.org)

### **+ 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!

## AIFRB Board Annual Meeting/Tradeshow 2017 – Tampa, Florida



The AIFRB Board met on August 19-20 at the Tampa Convention Center, in conjunction with the American Fisheries Society's 147<sup>th</sup> Annual Meeting. This year's meeting was very productive with the installation of the new President, a visit from AFS leadership, updates to the Bylaws, approval of the 2018 budget, continued planning for the 2020 national symposium, and several discussions about improving benefits for our members.

We were happy to welcome AFS President, Joe Margraf and Executive Director, Doug Austen to our meeting to discuss how our organizations can work collaboratively to address key fisheries issues, including best practices in science and the impacts of reduced government funding on research. We committed to continuing the conversation about joint efforts as we plan for the 2018 meeting in Atlantic City, NJ.

The Treasury and Membership Reports highlighted the growth of the Institute in 2017. We recruited 45 new members and were able to fund six student travel awards. Member retention continues to be a challenge, so the Board voted to continue reaching out to delinquent members to try to increase interest in the Institute. Additionally, the Board voted to include a new membership category, Lifetime Member, for a one-time payment of \$600, and to change the Bylaws to increase flexibility for promotions in rank in the Institute.

2018 AIFRB Board Approved Budget	
Budget Item	Budget
Operations	\$800.00
Service Contract	\$1,000.00
Mailings	\$1,270.00
District Events	\$1,000.00
Annual Meeting/Tradeshow	\$3,300.00
Travel	\$5,000.00
Membership Supplies	\$600.00
Awards	\$5,000.00
<b>Total</b>	<b>\$17,720.00</b>

Past President, Steve Cadrin presented a prospectus, co-authored by Past President, Dick Beamish, on the AIFRB 2020 symposium proposal, *"Forecasting Fishery Production in a Changing Environment: providing insight with less than 20-20 vision."* The symposium is being planned for 2020 on the west coast to include experts on the topics of climate change impacts, biological bases of forecasting, and population dynamics. Next steps for planning will focus on securing sponsors and funding, developing the symposium program, and marketing.



The AIFRB booth at the AFS Tradeshow was very active this year, with over 30 new member applications, unprecedented t-shirt sales, inquiries about student opportunities, and recruitment of a new District Director for the Keystone District. We increased recognition of AIFRB with name badge ribbons, new posters, and opportunities to meet Board members.

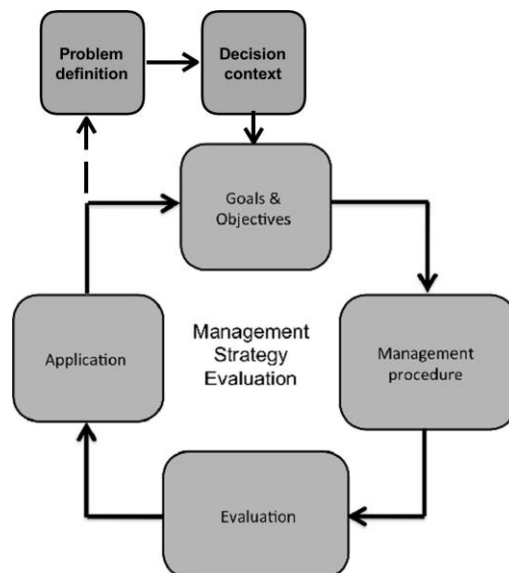
**Young Professional Representative, Mary Blasius, and Membership Chair, Todd Chapman at the AIFRB Tradeshow**

## 2017 AIFRB Symposia – Management Strategy Evaluation

This year's AIFRB symposia, organized by AIFRB-AFS Liaison, Sean Lucey, were great collaborative successes focusing on Management Strategy Evaluation. AIFRB co-sponsored the symposia with AFS and co-convened with researchers from NMFS' Northeast and Southeast Fisheries Science Centers and NOAA Fisheries headquarters. The group's synopsis of the symposia will be included in *Fisheries* magazine.

### ***“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 process”***

Management Strategy Evaluation (MSE) is a stakeholder-driven process involving closed-loop simulation tools, which allow testing the efficacy of various management options and identification of those that are likely to achieve pre-specified biological and socioeconomic objectives. The two part MSE symposia focused on both new analytical methods in MSE development along with best practices for improving stakeholder involvement in the MSE process. The meeting stretched across 2 ½ days and included 29 presentations before wrapping up with an hour-long panel discussion. A keynote by Sean Cox on *“A Roadmap to more sustainable fisheries”* led off the symposia by describing the connection between the Management-oriented Paradigm (MOP), which is process oriented and focuses on using science in the best way possible, and MSE, which provides the decision framework to implement the MOP. Presentations in the *“Under Pressure”* symposium went on to highlight the advancements and challenges involved in developing and implementing MSEs and covered a range of issues and species including: environmental covariates, time-varying mortality events, spatial structure, optimizing data collection, developing management procedures, and evaluating harvest control rule performance. Presentations in the *“Closing the Loop”* symposium highlighted the benefits of including stakeholders and lessons learned on how to improve stakeholder involvement in the MSE process. The symposium concluded with a panel discussion on how to better incorporate stakeholders in the MSE process with representatives from the local fishing community (attendance sponsored by AIFRB and AFS), non-governmental organizations, academia, regional management councils, and government scientists. General consensus from the discussion was that the more active stakeholders are in the process, the more likely they would be to accept the management outcomes.



Conveners: Daniel Goethel, Sean Lucey, Sarah Gaichas, John Walter, Patrick Lynch, Aaron Berger, and Melissa Karp

## 2017 AIFRB Awards

We had an excellent pool of candidates and nominees for all of the 2017 AIFRB awards! We were able to fund six Clark Hubbs Research Assistant Travel Awards, helping students from three Districts attend professional scientific meetings to present original research. We received 10 nominations for the W.F. Thompson Award for best scientific publication by a student in 2015, representing a wide range of topics from Arctic grayling to North Pacific blue whales and Gulf of Maine lobsters. We were very excited to receive a nomination for the Center for the Advancement of Population Assessment Methodology (CAPAM) to receive our Outstanding Group Achievement Award. The award will be presented to members of CAPAM at the upcoming Southern California social event in November. The Board was happy to announce that Dr. Cate O'Keefe, AIFRB Treasurer, was nominated by Past President Tom Keegan to receive the 2017 Service Award. We congratulate all 2017 AIFRB award winners, and look forward to presenting the awards at upcoming events.

## 2017 Clark Hubbs Research Assistant Travel Award Winners

### Amanda Guthrie

Amanda Guthrie is interested in integrating the fields of social and natural sciences using network analysis and systems thinking. Her goal is to conduct cross-disciplinary research to enhance and improve the sustainability of fisheries and aquatic management. She recently completed her MS degree at Michigan State University and started a PhD program at the College of William and Mary, Virginia Institute of Marine Science this fall.



### Chris Free

Chris Free is a PhD student at Rutgers University with broad interests in population dynamics, fisheries management, and aquatic conservation. Currently, Chris is working on small-scale freshwater fisheries conservation in Mongolia, the evaluation and refinement of data-poor stock assessment methods, and a global-scale meta-analysis of the impact of temperature and climate change on marine fisheries productivity.



### Andrew Carlson

Andrew Carlson spent his fondest days as a child restoring oak savannas and fishing streams with his father. His fascination with terrestrial and aquatic ecosystems inspired dreams of professional research and conservation. After receiving BS and MS degrees in Minnesota and South Dakota, Andrew is a PhD student at Michigan State University studying stream ecology and the social-ecological dynamics of fisheries as coupled human and natural systems.



### Brian Stirling

Brian Stirling is currently an MS candidate at California State University, Long Beach with Dr. Darren Johnson. His thesis will explore the relationship between population dynamics and phenotypic variation using Black Perch (*Embiotoca jacksoni*) as a model fish species. Brian aims to determine how variation among individuals affects population resilience by examining the physical features and diets of fish from populations along much of the species' range (Monterey to San Diego). He will use the Clark Hubbs Research Assistance Award to collect samples at distant sites.



### Connor Capizzano

Connor is a PhD student in the Marine Science & Technology program at the University of Massachusetts Boston and researcher with the New England Aquarium's Anderson Cabot Center for Ocean Life. With the growing need to address the uncertainty surrounding the fate of fish discarded from fishing events due to strict regulations and conservation ethics among the angling community, Connor's dissertation focuses on deriving fishery-scale discard mortality estimates and "best practice" recommendations for groundfish (e.g., Atlantic cod, haddock, cusk) released in the Gulf of Maine recreational fishery.





### Max Murray

Max Murray has five years of experience conducting biological research and surveys for aquatic and marine organizations in California. He is currently employed at ECORP Consulting, Inc. and working towards a degree at UCLA. Max has experience working with special-status herpetofauna and ichthyofauna, as well as identification of marine macroinvertebrates, marine algal species and California shorebirds.

2018 Clark Hubbs Research Assistant Travel Award applications are due June 15, 2018.

## 2017 W.F. Thompson Best Student Publication Award Winner

### Charlie Waters

Charlie Waters' paper, *"Effectiveness of managed gene flow in reducing genetic divergence associated with captive breeding"*, published in *Evolutionary Applications* in 2015, received the highest evaluation by the W.F. Thompson review committee. Charlie's paper was nominated by Dr. Kerry Naish from the University of Washington, School of Aquatic and Fishery Science, where Charlie is conducting a PhD. Charlie was a previous recipient of the AFS International Fisheries Section Fellow Award.

**Waters, C. D.,** J. J. Hard, M. S. O. Brieuc, D. E. Fast, K. I. Warheit, R. S. Waples, C. M. Knudsen, W. J. Bosch, and K. A. Naish. 2015. Effectiveness of managed gene flow in reducing genetic divergence associated with captive breeding. *Evolutionary Applications* 8:956-971.



**Tom Keegan presented the W.F. Thompson Award to Charlie Waters in Tampa, FL.**

## 2017 Outstanding Group Achievement Award Winner



**CAPAM**

### Center for the Advancement of Population Assessment Methodology (CAPAM)

AIFRB selected the Center for the Advancement of Population Assessment Methodology (CAPAM) as the 2017 recipient of the AIFRB Outstanding Group Achievement Award. Since 1982, AIFRB has recognized groups who have made significant contributions to fishery science. CAPAM, a collaboration of the Inter-American Tropical Tuna Commission, NMFS Southwest Fisheries Science Center, and the Scripps Institution of Oceanography, has the objective to promote research and development of fishery stock assessment methods. CAPAM was established in 2012 and, in a short time, has made an impressive mark not only in its development of standards for the application of stock assessment methodology, but in filling data gaps and resolving important stock assessment issues through its training and educational workshops.

*"Major concepts on selectivity, growth, data weighting, and general guidelines for stock assessment modeling resulting from the CAPAM workshops have changed the way assessments are conducted" – Dr. Rick Deriso, Inter-American Tropical Tuna Commission*

Nominated by Dr. Rick Deriso of the Inter-American Tropical Tuna Commission, CAPAM was unanimously selected by the AIFRB Board to receive the 2017 Group Award. President Kim Anthony's award letter highlighted CAPAM's professional collaborations that exemplify the highest standards of research that AIFRB seeks to recognize and showcase. CAPAM is hosting the workshop *"Recruitment: theory, estimation, and application in fishery stock assessment models"* in Miami, FL October 30<sup>th</sup> to November 3<sup>rd</sup>. The Outstanding Achievement Award will be presented to CAPAM representatives at the upcoming Southern California event on November 11<sup>th</sup> at the Dana Point Ocean Institute in Dana Point, CA.

## Membership Report

We had a record number of new membership applications at the 2017 AIFRB Tradeshow! The Membership Committee Chair, Todd Chapman, along with Past President, Tom Keegan and Young Professionals Representative, Mary Blasius, 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 23 Student Associates, one Professional Associate, seven Members, and 11 Fellows. We also had several recent promotions. We 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](mailto:TChapman@ecorpconsulting.com))**

Welcome and Congratulations to ALL!!

### MEMBERS

#### Student Associates

Steven Baker  
Mattea Berglund  
Chris Biggs  
Derek Bolser  
Sarah Borsetti  
Sam Chew Chin  
Tanner Cox  
Addie Dutton  
Matthew Dzaugis  
Ben Gahagan  
William Goldsmith  
Ben Harris

Amanda Hart  
Kyler Hecke  
Olivia Myers  
Zach Nemec  
Bradley Richardson  
Timothy Rowell  
Becca Selden  
Britanny Troast  
Jessica Valenti  
Sarah Vogel  
Sean Zulueta

#### Fellows

Mike Brown  
Andy Danylchuk  
Sarah Gaichas  
George Guillen  
Adrian Jordaan  
Ken Leber  
Rom Lipcius  
Kai Lorenzen  
Daphne Munroe  
Thomas Waltzek  
Andrew Whitely

#### Members

Terry Donaldson  
Lisa Eby  
Tony Marshak  
Mark Mohlmann  
John O'Brien  
Bob Pacunski  
Patrick Shirey

#### Professional Associates

Sally Roman

#### Promotions

Ben Galuardi - Member  
Lisa Kerr - Member  
Sean Lucey - Member  
Doug Zemeckis - Member

## New Lifetime Membership Option

AIFRB's Board is happy to announce a new Lifetime Membership dues renewal option. The Lifetime Membership option was unanimously approved at the 2017 Board meeting and unrolled at the Tampa Tradeshow. This option allows Members and Fellows to make a one-time payment of \$600 for lifetime membership in the Institute. To date, four members have signed up for Lifetime Membership. The option is available to all members starting in 2018.

***Bill Michaels, AIFRB Member and 2017 nominee for President, was the first Lifetime Member accepted at the AIFRB Tradeshow in Tampa, FL.***



## New District Directors

### *Danny Heilprin – Southern California*



The Southern California District is proud to announce Danny Heilprin as the new District Director, taking over for newly elected AIFRB President, Kim Anthony. Danny has been an environmental consultant for 25 years and much of his work has focused on biological characterizations, ecological monitoring, taxonomy, and environmental impact assessments of fishes and fisheries in coastal marine environments, bays, and tropical reef systems. Danny graduated from UC Santa Barbara with a BA in Aquatic Biology before heading up to Moss Landing Marine Laboratories in Monterey Bay where he earned a MS in Marine Sciences for *“The role of Olfaction in the Homing Ability of the Blue Rockfish, (Sebastes mystinus), in Carmel Bay, California.”*

Danny is currently employed as a Senior Marine Biologist at ManTech International where he is a Project Manager on a number of environmental planning documents that characterize potential project impacts to marine biological resources, fishes, commercial and recreational fisheries, and ESA species under the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA). He has also worked on numerous projects that analyze and interpret fisheries data and has completed several Essential Fish Habitat (EFH) assessments, which address impacts on federally-managed fish species and Habitat Areas of Particular Concern (HAPCs).

In addition to being an active member of AIFRB, Danny is a member of various other scientific societies, including AFS, the Southern California Academy of Sciences, and the Western Society of Naturalists and has presented talks at their annual meetings.

### *Doug Zemeckis – Keystone*



The Keystone District is excited to announce Doug Zemeckis as the new District Director, taking over after 40+ years of service from previous Director, Joe Rachlin. Doug recently started a new position as an Assistant Professor and Marine Extension Agent for Ocean, Monmouth, and Atlantic Counties in the Department of Agriculture and Natural Resources as part of the New Jersey Agricultural Experiment Station at Rutgers in New Jersey.

Doug’s research interests focus on studies intended to inform the assessment and management of fishery resources. Most of his projects are field-based surveys or tagging studies aimed at investigating fish population structure, seasonal movements, discard mortality, or spawning dynamics. Doug enjoys working on a variety of projects with a diversity of collaborators from academic, state, federal, and non-profit institutions, in order to provide scientific advice that promotes the sustainability of marine fisheries and fishing industries that depend on marine resources. As part of his new role, Doug will also be working collaboratively with New Jersey’s aquaculture industry to conduct applied research and deliver educational programming to industry stakeholders.

Doug received a BS in Marine Sciences from Rutgers University in 2009, and completed a PhD in Marine Science and Technology at SMAST in 2016. He also completed postdoctoral research positions at SMAST and in the Department of Marine and Coastal Sciences at Rutgers University. Please feel free to contact Doug via email ([zemeckis@njaes.rutgers.edu](mailto:zemeckis@njaes.rutgers.edu)) with any questions regarding the Keystone District.

## District Activities and Events

### Capital

The Capital District of AIFRB partnered with the Fish Habitat Section of the Potomac Chapter of the American Fisheries Society to kick off the fall with the Annual Crab Feast, October 28<sup>th</sup>. The Crab Feast is a great way to mix and mingle with fisheries professionals from across the region, including students who wish to join our profession. This year, the event returned to AFS Headquarters in Bethesda, MD.



**Dr. Cynthia Catton**

### Northern California

The Northern California District held a dinner presentation and meeting on June 1<sup>st</sup> at the Greater Farallones National Marine Sanctuary headquarters in the Presidio of San Francisco. Dr. Cynthia Catton, guest speaker for the event, has studied kelp forest ecosystems, including important invertebrate fishery species, for over 15 years in California. She has worked on the California Department of Fish and Wildlife Marine Invertebrate Management team since 2012, and is currently spearheading work to restore bull kelp forests in northern California to support fisheries, such as abalone and sea urchins. Dr. Catton's talk, *"Eyes on the Horizon: Multi-Institutional Collaborations to Address Climate Change Impacts on Fisheries,"* presented findings from her research performed from University of California Davis' Bodega Marine Laboratory in Bodega Bay, CA.

### New England

The New England District of AIFRB and the Southern New England Chapter of AFS partnered to present a workshop on *"Data Carpentry using R."* Ben Galuardi (New England District Director), Gary Nelson (past New England District Director), Sara Turner (AIFRB Member/SNEC AFS President), and Andy Jones (NOAA Fisheries) led hands-on sessions about different ways to manipulate spatial data and fisheries analysis techniques using R software. The workshop was attended by over 30 members of AIFRB and SNEC, and was followed by a social networking event co-sponsored by AIFRB and AFS SNEC in New Bedford, MA.

***Sara Turner from Massachusetts Division of Marine Fisheries and Andy Jones from NOAA's Fisheries Sampling Branch helped to lead the "Data Carpentry using R" workshop***



### Southern California



The Southern California District announces its annual year-end social and networking event. The evening will be dedicated to outstanding members who have significantly contributed to fishery science. The 2017 AIFRB Outstanding Group Achievement Award will be presented to CAPAM representatives at the event. The year-end social will take place on Saturday November 11<sup>th</sup> at the Dana Point Ocean Institute.

## Members in the Spotlight



### *Tobey Curtis – New England District Member*

Tobey Curtis is a Fishery Management Specialist in the NMFS Highly Migratory Species Management Division in Gloucester, MA, and a PhD Candidate at the School for Marine Science and Technology (SMAST) at the University of Massachusetts Dartmouth. Working at the interface of science and management, Tobey's general research focus is on the fisheries biology and ecology of sharks, skates, and rays. Specifically, Tobey's interests are in applying electronic tagging technologies to answer questions about movement, migration, habitat selection, behavior, and physiology. Currently, he is collaborating on projects deploying satellite tags on basking sharks, juvenile white sharks, and thorny skates off the northeastern U.S.

Tobey joined AIFRB in 2016, and is also a member of the American Fisheries Society and American Elasmobranch Society. He enjoys taking his two young boys fishing for largemouth bass and bluegill sunfish.

#### Tobey's recent publications include:

- Haugen, J.B., **T.H. Curtis**, P.G. Fernandes, K.A. Sosebee, and P.J. Rago. 2017. Sexual segregation of spiny dogfish (*Squalus acanthias*) off the northeastern United States: Implications for a male-directed fishery. *Fisheries Research* 193: 121-128.
- Grubbs, R.D., J.K. Carlson, J.G. Romine, **T.H. Curtis**, W.D. McElroy, C.T. McCandless, C.F. Cotton, and J.A. Musick. 2016. Critical assessment and ramifications of a purported marine trophic cascade. *Nature - Scientific Reports* 6: 20970.
- Curtis, T.H.**, S.I. Zeeman, E.L. Summers, S.X. Cadrin, and G.B. Skomal. 2014. Eyes in the sky: Linking satellite oceanography and biotelemetry to explore habitat selection by basking sharks. *Animal Biotelemetry* 2:12.
- Curtis, T.H.**, C.T. McCandless, J.K. Carlson, G.B. Skomal, N.E. Kohler, L.J. Natanson, G.H. Burgess, J.J. Hoey, and H.L. Pratt. 2014. Seasonal distribution and historic trends in abundance of white sharks, *Carcharodon carcharias*, in the western North Atlantic Ocean. *PLoS ONE* 9(6): e99240.

More information about Tobey's research can be found here:

[http://www.nmfs.noaa.gov/stories/2013/08/meet\\_shark\\_scientists.html](http://www.nmfs.noaa.gov/stories/2013/08/meet_shark_scientists.html)  
[https://www.nefsc.noaa.gov/press\\_release/pr2014/scispot/ss1405/](https://www.nefsc.noaa.gov/press_release/pr2014/scispot/ss1405/)

### *Allen Andrews – Hawaii District Member*

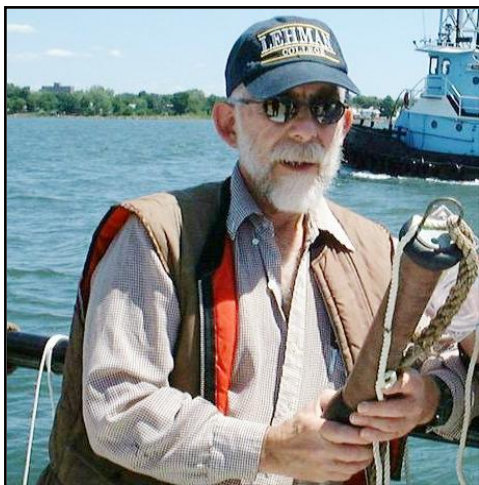
Allen Andrews, Research Fishery Biologist in the Life History Program at NMFS Pacific Islands Fishery Science Center, announces a new publication "*Blue marlin (Makaira nigricans) longevity estimates confirmed with bomb radiocarbon dating*" in the Canadian Journal of Fisheries and Aquatic Science ([dx.doi.org/10.1139/cjfas-2017-0031](https://doi.org/10.1139/cjfas-2017-0031)). Dr. Andrews' paper explores the longevity of blue marlin through the use of radiocarbon and marine bomb <sup>14</sup>C signals in otoliths. Results from analysis of a 146-inch female blue marlin suggest an estimated longevity of 12-21 years or 32-44 years. The paper will appear in print in early 2018.



**Andrews, A.H.**, R.L. Humphries Jr., and J.D. Sampaga. 2017. Blue marlin (*Makaira nigricans*) longevity estimates confirmed with bomb radiocarbon dating. <https://doi.org/10.1139/cjfas-2017-0031>.

## AIFRB Service Recognition

### *Joe Rachlin – Keystone District*



The AIFRB Board recognizes and deeply appreciates the long service of Fellow Joe Rachlin as he steps down from the position of Keystone District Director. Joe joined AIFRB in 1973 as a member, and became a Fellow in 1976. He served as Chairperson of the Clark Hubbs Award Committee from 1976 until Jerry Ault took over. Joe was first appointed Keystone District Director by Hugh MacCrimmon in 1986, and served in that capacity until 1992. He was also the Treasurer of the Institute following Pete Cole in 1987, and served until 2000, when he stepped down and was replaced by Allen Shimada. Joe returned to the position of Keystone District Director, and served in that capacity for 17 years until 2017.

We thank Joe for his dedicated service and commitment to promoting professionalism and excellence in AIFRB and the greater profession of fisheries research.

## AIFRB In Memorium

### *Morris Southward – New Mexico-Arizona District*

AIFRB mourns the loss of prominent member Morris Southward. Morris served for many years as District Director for New Mexico-Arizona, was awarded the 2014 Distinguished Service Award, and served on the Kasahara and W.F. Thompson Award Committees. Of special note in relation to this year's AIFRB symposia, Morris conducted the very first Management Strategy Evaluation for Pacific halibut while working for the International Pacific Halibut Commission.

Morris Southward passed away on February 9, 2017. Morris was born to G.P. and Emma Southward in Boise, Idaho, on October 8, 1927. He attended high school and junior college in Boise before moving to Seattle, Washington to pursue graduate degrees in fisheries science. With the requisite degrees in hand he began a career as a college professor and statistical consultant. His work took him to Pullman, Washington, the University of Wisconsin at Madison, and, after a return from serving as a biometrician with the International Pacific Halibut Commission in Seattle, he moved to New Mexico State University in Las Cruces. As a consulting statistician in the Department of Experimental Statistics, he taught graduate courses and collaborated on papers dealing with subjects as diverse as education, psychology, animal and range sciences, forestry, and fisheries and wildlife sciences. He completed three terms on the graduate council and annually served on as many as 25 graduate committees. Among students, he was known for breathing life and levity into statistics classes. He spent a sabbatical at the University of Edinburgh's Department of Statistics during 1981-82. In 1990, he consulted in New Delhi, India, for the Food and Agricultural Organization of the United Nations.



Morris received several awards such as the Donald C. Roush Award for Teaching Excellence, but his most cherished was being designated Honorary New Mexico Rancher which included an acre of New Mexico sunlight. After retirement in 1993, he taught a statistics course at an experimental research station near Valencia, Spain. He was a member of the International Biometric Society, the American Statistical Society, and AIFRB.

## Contact Information

### President

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### Past President

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### Past President/Kasahara/Service

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### W.F. Thompson Award

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### Hubbs Research Assistant Award

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### Vacant District Director Seats

Alaska, Northern  
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

BRIEFS, the newsletter of the American Institute of Fishery Research Biologists, is intended to communicate the professional activities and accomplishments of the Institute and its Members. Comments and written contributions should be sent to cokeefe@umassd.edu