



President's Message

I can't believe that my year as Division President is coming to an end. It has gone by so quickly but I guess that is a sign that things have been busy. The major activity for the Division is our Annual Business meeting held in conjunction with the annual Northeast Fish and Wildlife Conference, which was held in Manchester, New Hampshire from April 17 to 19. Despite the economy, I believe that the conference was well attended and so was our business meeting the evening of April 18th. Our host, the New Hampshire Fish and Game Department, did a superb job with hosting the meeting and the hospitality was enjoyed by all who attended. We had the distinct pleasure to have Parent Society President Wayne Hubert join us and offer some inspiring remarks at both the ExComm meeting on April 17th as well as the general business meeting. We were also joined by incoming Parent society President Bill Fisher (2011-2012), a NED member, who will be stepping up at our national meeting in Seattle this September. Secretary John Cooper gave his last official report on our Division's financial status since John is stepping down from that position after a long term of serving the Division in that capacity. I would like to extend my personal appreciation for all of the hard work throughout the years that John has done for the Division and wish him well in whatever he chooses to do next. I ask that you join me in trying to persuade John to follow in his father's footsteps and try his hand at Division President. We can't let his talents lie idle for too long.

After Chapter and Committee reports, Paul Perra, immediate Past President and chair of

the awards Committee, announced that Dr. Steven Murawski was being honored by the Division with our highest award—the Dwight A. Webster Memorial Award. I had the distinct privilege to make the award presentation at the awards banquet later that evening. Although Dr. Murawski couldn't attend, we made sure that he received the award through a colleague and an article describing his career accomplishments and his gracious acceptance speech follows in the newsletter. Since we did have a quorum present at the meeting, a motion was entertained and passed to change the Division's By-laws.

(A) Recommended Motion: Move to change the election criteria for eligibility to run for Northeastern Division First Vice-President

From-

b. Candidates for First Vice President shall have either attended an annual meeting of the Division or served as a Chapter President or Division level committee chair within the three years preceding their nomination.

To-

b. Candidates for First Vice President shall have either attended an annual meeting of the Division or served as a Chapter President or Division level committee chair within the five years preceding their nomination.

(B) Minority View: None

(C) Background for Motion: A number of Division chapter past presidents said the timing was not right for them to run, but they may consider it in future years. This will allow them to remain eligible. Also, travel restrictions are making it more difficult to get to NED Annual meetings. The motion increases the poll of eligible candidates and will help insure more qualified candidates and more competitive elections.

This motion passed without dissent. President-elect Phil Downey provided some remarks about his interests in moving the division forward and I won't attempt to steal Phil's thunder which will most likely be fodder for his first President's column.

I want to thank the members of the NED ExComm for their service and assistance over the past year and give special thanks to immediate Past President Paul Perra who mentored me throughout the last 2 years. I really do appreciate all of Paul's guidance and assistance on a wide variety of issues, especially on saltwater fishing trips. Take note of the pics from a charter fishing trip after the NEFWA Conference based upon Paul's advice.

I wish Phil Downey and Randy Jackson success in leading the Division forward and I can offer similar advice on panfishing, trout fishing or Great lakes fishing if the circumstances warrant.

Hope to see you on the water someday.

John Arway
 President, Northeastern Division, AFS
jarway@state.pa.us



Leading by example: NED President John Arway celebrates a successful Business Meeting with a fishing charter and some nice Acadian redfish. Photo by Dave Putnam.

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Upcoming Meetings



Set your sights on attending this year's Annual Meeting of the American Fisheries Society in the beautiful Pacific Northwest. With its focus on "**New Frontiers in Fisheries Management and Ecology: Leading the Way in a Changing World**," the conference will provide a wonderful opportunity for fisheries professionals to meet, exchange information, catch up with friends, and find inspiration. AFS President Wayne Hubert, Meeting Co-Chairs Cleve Steward and Larry Dominguez, and Program Co-Chairs Craig Busack and Dave Ward invite you to attend the 2011 AFS Annual Meeting at the Washington State Convention Center in Seattle, Washington. For more information, please visit the AFS Seattle website: <http://afs2011.org/>



**37th Annual Meeting of the
Atlantic International Chapter of
the American Fisheries Society**
September 25-27, 2011
Québec, Canada

2011 AIC Conference Registration

- Include the registration to the AIC and the meal options during the conference (see detailed package options below).
- Conference fees are payable directly to the AIC in advance.
- Special package for spouse and family!
- Special Registration fee for students!
- The **payment options below are for conference registration and food ONLY**. You must contact the Hotel directly to pay for overnight accommodations: Manoir du Lac Delage, 1-888-202-3242, [Le Manoir du Lac Delage](http://www.lemanoirdulacdelage.com).
- **PLEASE NOTE:** Due to contractual obligations with the venue, we need you to register and pay no later than August 10, 2011. If you are unable to meet this deadline, please contact [Jud Kratzer](mailto:jud.kratzer@afs.org) well before the August 10, 2011 deadline.



2012 New York Chapter of the American Fisheries Society Annual Meeting

Protect and Enhance our Fisheries Resource

February 1st - 3rd

High Peaks Resort, Lake Placid, NY

The New York Chapter will be holding its annual meeting at the High Peaks Resort in Lake Placid on February 1-3, 2012. Donald Einhouse and Jeff Loukmas will be serving as program chairs for the event. Plans are for a Plenary Session investigating the various collaborative relationships between State, Federal, Provincial and Private entities that are being utilized to manage and protect fisheries resources in the Northeast. A special session on management of black bass in the Northeast will also be held. Anyone interested in presenting at the meeting should contact Don at 716-366-0228 or Jeff at 518-402-8897. Be sure to visit the new chapter website at www.newyorkafs.org for updates on the meeting.

****Notices & Announcements****

Murawski Receives Webster Award

Submitted By Paul Perra

In April at its 2011 Annual Meeting the Northeastern Division awarded Dr. Steven A. Murawski, it's Dwight A. Webster Memorial Award.

The Dwight A. Webster Award is the most prestigious Award given by the Northeastern. It may be awarded for any of the following achievements under 4 categories:

- Lifelong contributions to fisheries science and the profession in the Northeast or while Working in the Northeast;

- Meritorious/prestigious service to the profession and fisheries;

- Significant academic or technical accomplishments; and,
- Long-term service in the Northeastern Division as an AFS member.

Dr. Murawski was recognized for making significant contributions in the first three Webster Award categories. Dr. Murawski is a native of Northampton, Massachusetts, and has B.S., M.S., and Ph.D. degrees from the University of Massachusetts-Amherst. He spent the majority of his career at the National Marine Fisheries Service (NMFS) Northeast Fisheries Science Center in Woods Hole, Massachusetts, where he

excelled as a stock assessment scientist, an innovative and dynamic researcher, and a gifted manager. Following his service in Woods Hole, he was promoted to the NMFS top scientific position at NMFS Headquarters in Silver Spring, MD as Director of all NMFS scientific programs. Steve demonstrated outstanding leadership and management of science programs on regulated fisheries, marine mammals, sea turtles and the quality of coastal and marine habitats that support these resources during his 33-year career with the NMFS. As the Director, Scientific Programs and Chief Science Advisor for the agency, he significantly improved the credibility, utility and responsiveness of science products supporting critical ocean resource management decisions, and implemented exacting standards for the conduct, completion and peer review of all science products. He is a specialist in marine fisheries population dynamics and ecosystem modeling, is one of the most influential leaders in the world on the development of science supporting fisheries and protected species management. He has published over 150 scientific papers, served on a number of White House committees on oceans and ecosystems, and was the United States representative to the International Council for the Exploration of the Sea – a 20 nation marine science organization in the North Atlantic.

Steve has been given numerous other awards during his career. They are: The 2007 Department of Commerce Gold Medal for contributions to the Magnuson-Stevens Fishery Conservation and Management Act Reauthorization, a 2007 NOAA Bronze Medal for responding to 2005 Gulf Coast hurricanes, a 2004 NOAA Bronze Medal for sea scallop fishery management plan, a 1998 NOAA Bronze

Medal for contributions to marine fishery population dynamics, a 2003 Distinguished Alumni Award, University of Massachusetts, and the 2003 David Belding Fishery Conservation Award from the Massachusetts Division of Marine Fisheries.

Although he retired this past January from NMFS, he is continuing his professional life in warmer climes as a professor at the University of South Florida, College of Marine Science in Saint Petersburg, Florida.

Unfortunately Steve could not receive the award in person, but provided the following acceptance statement to the Northeastern Division. “I want to express my sincerest thanks to you, the awards committee and the Northeast Division of the American Fisheries Society for honoring me with the Dwight A. Webster Memorial Award. Dr. Webster was a wonderful scientist and person giving much to our profession and to the Northeast Division. I am sorry not to be there this evening, but I am headed to the Netherlands to participate in an oil spill conference on the one year anniversary of the Deepwater Horizon Event.

Dr. Webster was a renaissance man in every sense of the word. The breadth of his expertise and interests was astounding and he would be very actively participating in our efforts these days to understand fisheries in an ecosystem context. Above all he was a mentor to many, and his legacy lives on in the many lives he touched, professionally and personally. Again, thank you all very much for the award in his name, it means a great deal to me.”

Welcome New NOAA Fishery Biology Program Leader



Eric Robillard is the new Program Leader for the Fishery Biology Program (<http://www.nefsc.noaa.gov/fbp/index.htm>), part of the Population Biology Branch of the Northeast Fisheries Science Center at the Woods Hole Laboratory. The Program focuses on basic biological processes (particularly growth and reproduction) which are essential to understanding the population dynamics of exploited stocks. Eric arrived here from Georgia Department of Natural Resources where he supervised the Fisheries Independent unit. He has aged over 50,000 fish for stock assessments of several different species, and he published his M.S. thesis work on the life history of bluefish. He has planned and implemented several marine resource surveys and has nearly 400 days at sea on research vessels. He has worked with fishing groups at local ports and policy makers in state capitals. When not at work he spends time sharing his passion for the sea with his wife and two daughters.

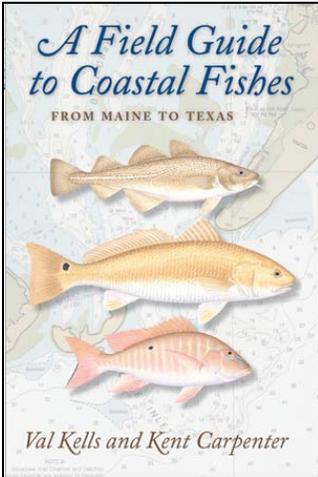
UMass Student David Stormer Receives AFS Honorable Mention

David Stormer, a student at University of Massachusetts, Amherst, Department of Environmental Conservation received an Honorable Mention in the Sally Richardson award competition for the best student paper given at the 34th Annual Larval Fish Conference held at Wilmington, North Carolina May 22-May 27, 2011. This is the American Fisheries Society, Early Life History Sections' most prestigious student award and the competition is always intense. David's oral presentation was entitled: "Pre-migration Patterns of Resource Use in Multiple Cohorts of Juvenile Bluefish Inhabiting the Hudson River Estuary, New York" with Francis Juanez as Co-Author. David is a member of the Southern New England Chapter and we are very proud of him.



Photo by David Kazyak

****Recent Publications****

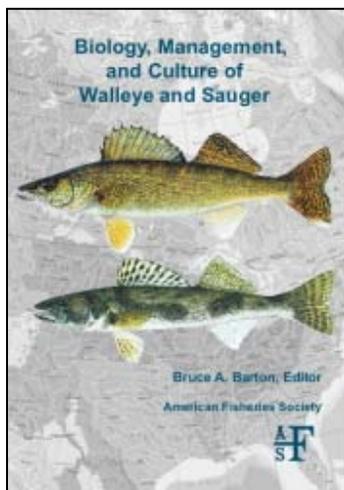


From the John Hopkins University Press

Written by Fish Lovers for Fish Lovers...

**A Field Guide to Coastal Fishes from
Maine to Texas
by Val Kells and Kent Carpenter.**

Comprehensive and compact, this 448-page guide includes 1,079 full color illustrations and descriptions of over 1,006 marine and brackish water species. This is the first field guide of its kind to be entirely illustrated in full color. Illustrations are large, and meticulously researched. Descriptions are concise, accurate and provide information about features, habitat and biology. It is accurate and up-to-date, using the most recently accepted taxonomy and nomenclature. Scientists, fishermen, students, naturalists, divers, and fish enthusiasts alike will find this book essential, informative, and very easy to use.



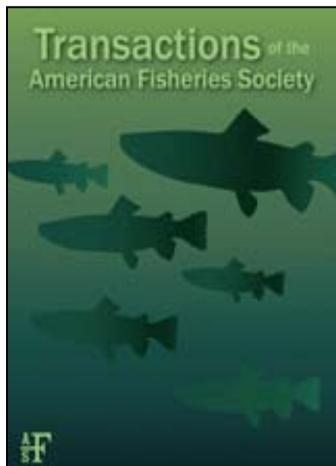
Published by the American Fisheries Society

**Biology, Management, and Culture
of Walleye and Sauger**

Bruce A. Barton, editor

This reference work will be used by fishery scientists, biologists, managers, culturists, students, and interested public such as anglers and conservationists. This new compendium serves as a single comprehensive source of information on the biology, ecology, management, and culture of walleye and sauger in North America.

Early chapters cover Sander systematics, including osteological evidence and molecular and population genetics and recent advancements in stock identification. Extensive information is documented on habitat requirements for various life history stages and how these stages can be influenced by environmental perturbations. Other chapters describe environmental biology and feeding energetics, and provide details on walleye and sauger life histories, walleye population and community dynamics in lakes that reflect the influence of lake size, fishing methods, and various management techniques using case histories, and exploitation from recreational, commercial, aboriginal, and mixed fisheries. Harvest regulations, sampling procedures, and their effectiveness are also reviewed and evaluated. Final chapters review and analyze stocking procedures, marking techniques, ecological effects of stocking, and the state of the art of walleye and hybrid walleye culture.



Transactions of the American Fisheries Society Special Section:

Genetic Adaptation of Natural Salmonid Populations

Fourteen papers are included in a recent special section of [*Transactions of the American Fisheries Society*](#). These papers follow in the strong tradition of using allelic variants to study the complexities of life history, landscape, and cultural variations in salmonid populations. The papers include recent investigations using candidate markers and studies employing joint analyses of loci reflecting neutral and adaptive genetic variation. The contributions address numerous research and management topics including associations of salmonid genetic adaptations with environmental and phenotypic variability, population structure, reproductive success, stock introduction, and the analysis of population mixtures.

Selected Articles:

[Introduction to a Special Section: Genetic Adaptation of Natural Salmonid Populations](#)

[Major Lineages and Metapopulations in Columbia River *Oncorhynchus mykiss* are Structured by Dynamic Landscape Features and Environments](#)

[Diminished Reproductive Success of Steelhead from a Hatchery Supplementation Program \(Little Sheep Creek, Imnaha Basin, Oregon\)](#)

[Persistent Reproductive Isolation between Sympatric Lineages of Fall Chinook Salmon in White Salmon River, Washington](#)

[Population Genetic Structure and Life History Variability in *Oncorhynchus nerka* from the Snake River Basin](#)

[Single-Nucleotide Polymorphic Genotypes Reveal Patterns of Early Juvenile Migration of Sockeye Salmon in the Eastern Bering Sea](#)

To access the full list of articles published in the special section, [click here](#).

****Chapter and Subunit Updates****

Southern New England Chapter

Submitted by Don Danila

The Southern New England Chapter annual summer meeting was held on June 14 at the CT DEP Marine Fisheries Division office in Old Lyme, CT. Eighty-two members and guests attended the meeting, 22 of whom were students. Following remarks by Chapter President Tracy Maynard the meeting began with a series of presentations. Topics included an update of the Connecticut Aquatic Resources Education program, silver hake distribution with respect to Gulf Stream and Northwest Atlantic circulation, modeling the effects of climate change on cusk, evaluating the performance of a topless trawl in the summer flounder fishery, reasons why fishermen pursue such a dangerous occupation, monitoring the freshwater drum invasion of the Hudson River using passive acoustics, predation on diadromous fishes in the Northwest Atlantic, use of a drop chain trawl net design to reduce catch of

flatfishes, changes in perceived social stratification among New Bedford and

Fairhaven, MA fishermen as related to job satisfaction and management, effect of a turtle excluder device in the catch performance of the Northwest Atlantic trawl fishery, and an evaluation of tautog early life history stages in Narragansett Bay. Abstracts of all papers are available on the Chapter's website, found at www.snec-fisheries.org. Dr. James Casey of Cornell University College of Veterinary Medicine gave the meeting's keynote address on the viral hemorrhagic septicemia virus invasion and its persistence in the Great Lakes region.

The Chapter conducted its annual business meeting with financials remaining strong. Committee reports were given by chairpersons. Rodney Rountree, Professionalism Committee chair, reminded members to nominate persons or organizations for various Chapter awards, which are summarized on the Chapter website. Similarly, Education

Chair Karina Mrakovcich noted that students can apply for Chapter travel awards, also through the website. Members were urged to become more involved in Chapter activities and can volunteer for any committee by contacting any member of the Board of Directors.

Several awards were given out at the annual Chapter business meeting. The Saul B. Saila Best Student Paper Award was presented to Owen Nichols for his January 2010 presentation of the application of dual-frequency identification sonar to monitor gray seal occurrence at commercial fishing weirs.



Karina Mrakovcich presents Owen Nichols with the Saul B. Saila Best Student Paper Award.

The Best Student Poster Award went to Jessica Lajoie for her presentation on the occurrence, abundance, and developmental stage of a parasitic nematode in juvenile bluefish. Given

Chapter Student Travel Awards to attend the AFS Annual Meeting in Seattle were Amy Koske and Dave Stormer, both of the University of Massachusetts-Amherst. The Lesa Meng Aquatic Conservation Award, which recognizes outstanding contributions to conservation, stewardship, fisheries management, or the fisheries profession, was presented to Gwen MacDonald on behalf of the Connecticut Fund for the Environment (CFE). In particular, the CFE was recognized for its Save the Sound program, which focuses on stormwater management, conservation and restoration of aquatic habitat, and coastal clean-ups.



Gwen MacDonald accepts the Lesa Meng Aquatic Conservation Award on behalf of the Connecticut Fund for the Environment from Rodney Rountree.

Richard Ribb accepted the Outstanding Organization Award on behalf of the Narragansett Bay Estuary Program (NBEP) for its efforts in protecting and

preserving this unique bay and its watershed. The Chapter recognized the NBEP's holistic perspective on maintaining the Bay, which includes social, economic, and environmental aspects.



Richard Ribb (right) receives the Outstanding Organization Award on behalf of the Narragansett Bay Estuary Program.

The Irwin Alperin Award, which recognizes a Chapter member who has made outstanding contributions to the Chapter or Parent Society, including significant services, participation, and public awareness of activities, was given to Paul Perra, presently a Fishery Policy Analyst for the National Marine Fisheries Service in Gloucester, MA. Paul has been particularly active in AFS since he joined in 1973, serving on many committees or as an officer in the Potomac Chapter, Southern and Northeastern (including President) Divisions, and the Parent Society. Donald Danila received the Award of Excellence for his contributions to the field of fisheries, particularly studies of winter flounder. Recently retired from the

Millstone Environmental Laboratory in Waterford, CT, Don has been an AFS member for more than 40 years and a member of the Chapter Board of Directors for the past 15 years. For 13 years he represented the Chapter as a member of the Fisheries Advisory Council to the CT DEP and has served on the Flatfish Biology Conference Steering Committee since 1985.

At the close of the business meeting, Sean Lucey assumed the office of President. His first action was to present immediate Past-President Tracy Maynard with an Award of Appreciation for her services while in this position.



Sean Lucey presents outgoing Chapter President Tracy Maynard with an Award of Appreciation for her service.

Bill Duffy moved up to President-Elect and Ian Conboy was elected as the new Secretary-Treasurer. The next Chapter meeting will be held in January 2011 at a location in Rhode Island yet to be determined.

Cornell University Student Subunit

Submitted by William Fetzer

On April 30, 2011, members of the newly formed Cornell University Student Sub-Unit of the American Fisheries Society organized the first ever NY-AFS Student Colloquium at the Cornell Biological Field Station in Bridgeport, NY. Funding for the event was provided by NY-AFS to promote increased communication between Sub-Units across New York State and help integrate students within the larger New York Chapter of AFS. The event was attended by 30 students from Cornell University, SUNY-ESF, SUNY-Cobleskill and the USGS office in Oswego, NY, and featured 14 presentations and 3 posters from both undergraduates and graduate students across NY State. Talks covered a variety of topics, including reducing pollution in hatchery effluent, determining habitat use with stable isotopes, and detecting illegal use of bleach in lobster fisheries, among others. Student research focused on study sites in NY, but it was clear that student interest in fisheries issues extends far beyond the boundaries of New York State, including research from Alaska, the Bahamas, and

Arizona. In addition to student talks, a panel of fisheries professionals from Cornell University, New York State Department of Environmental Conservation, United States Geological Survey, and New York State SeaGrant participated in a lively discussion on “Professional Development in Aquatic Sciences.” While not attending talks, students participated in lively discussions about research, life at their respective universities, and future professional plans, all while enjoying ample food and drink. All in attendance agreed the event was a great success that should be held annually to continue fostering communication between fisheries students and professionals. In the future, the responsibility of hosting the event will rotate across different Sub-Units to encourage continued participation by all universities and to help students gain increased familiarity with potential collaborators and resources across the region. The New York Chapter intends to continue supporting this effort as part of an active program to increase student participation in Chapter activities. Hopefully, this event will continue to integrate students from across New York State and expand throughout the Northeast Division of AFS.



Photo by Edward Hughes.

Fisheries in the News

Imminent Losses of Fish Habitats and Fish Biodiversity in Newfoundland

Submitted by R. John Gibson



Sandy Pond brook trout are known to have deeper girth than trout in surrounding areas. Photo by David Messervey.

Sandy Pond (Placentia Bay, Avalon Peninsula) is a deep lake (23.92 ha profundal zone, 13.91 ha of littoral zone), known for its large trophy sized brook trout (*Salvelinus fontinalis*), of 3 to 5lbs in size. These trout have deep girth and anglers report them as 'looking different' from trout of nearby lakes. Also present is dwarf rainbow smelt (*Osmerus mordax*), and eel (*Anguilla rostrata*). Sandy Pond is an isolated post-glacial lake (since ~10,000 years ago). The trout and smelt would certainly be genetically different from those in local lakes, and are very likely unique genotypes. The trout are known to inhabit deep parts of the lake and to feed on smelt.

Sandy Pond was requested as a Tailings Impoundment Area by Vale, a Brazilian mining company. Toxic pollution of a lake is illegal under the Fisheries Act, but an EIS allowing reclassification was accepted

by both the Provincial and Federal governments in 2008. This was cheaper for Vale than building a suitable holding impoundment (\$62 million cf \$490 million). A fish habitat compensation plan was finalized and submitted in April 2011. Compensation for the loss of 37.83 ha of Sandy Pond, 1.62 ha of an adjacent lake, and loss of 14460 m² of stream habitat, was calculated as 18.11 ha of fish habitat to be created. This was based on habitats described in the literature. Unfortunately, the trout were given habitat indices for littoral dwelling insectivores, whereas the Sandy Pond large trout are deeper water dwelling piscivores. Additionally, population, biomass, and production estimates were lacking. Under the Species At Risk Act, eel is designated as a 'species of concern', whereby such designation requires a management plan that includes measures for the conservation of the species and its habitat.



Sandy Pond is known by anglers for its trophy-sized brook trout. Photo by David Messervey.

The major planned compensation of 12.12 ha, includes the removal of vegetation at the outlet of a lake in Salmon Cove River (Conception Bay, NW Avalon Peninsula), which would improve access for Atlantic salmon. However, salmon, brown trout and smelt have preexisting access to the lake. Besides the estimated compensation being inadequate, no new habitat is gained. Also the destruction of Sandy Pond does not take into account loss of biological diversity, contrary to the UN Convention on Biological Diversity (ratified by Canada in 1998). Sandy Pond fish are to be moved by the end of July 2011 to 'watersheds where the species already exist'.

The 'Sandy Pond Alliance' is attempting to have repealed the regulation (Schedule 2 of the Metal Mining Effluent Regulations) allowing pristine lakes to be used as toxic waste dumps. For more information visit (www.sandypondalliance.org).

Communities in Rural Rhode Island Benefit from Large Scale River Restoration

Submitted by Kristen H. Ferry

In fall of 2010, the NOAA Restoration Center in conjunction with the Rhode Island Coastal Resources Management Council (RI CRMC), the Wood Pawcatuck Watershed Association, and other federal, state, and local partners removed the 133 foot long Lower Shannock Falls Dam on the Pawcatuck River, opening passage for fish that had been blocked for over a hundred years. This was the first of three construction projects to be completed on the Pawcatuck River as part of a larger \$3.5 million American Recovery and Reinvestment Act (ARRA) award to the RI

CRMC through NOAA. With these funds, the RI CRMC will complete six major restoration projects benefiting diadromous fish, three each on the Ten Mile River near Providence and the Pawcatuck River in southern Rhode Island. These projects will create or enhance passage and improve riverine habitat for blueback herring and alewife, American shad, and American eel.



Site of Lower Shannock Dam Removal. Photo by Kristen H. Ferry, IMSG/NOAA Restoration Center.

The Pawcatuck River rises from the glacially formed Worden's Pond and the Great Swamp, Rhode Island's largest swamp habitat, and flows approximately 30 miles into Little Narragansett Bay. Dams have impeded fish spawning migrations in the Pawcatuck since the Industrial Revolution. The three ARRA construction projects are located in the upper portion of the river in the rural communities of Richmond and Charlestown. This area is known for its high water quality and for its potential to support Atlantic salmon, which once inhabited the river. Together, the Pawcatuck projects will open approximately 10 stream miles to

migratory fish and will provide access to 1300 acres of high quality spawning and nursery habitat in Worden's Pond.

On July 5, ground was broken on construction of a fishway at the Horseshoe Falls Dam, the second of the three Pawcatuck projects. Merely a half mile upstream from the former Lower Shannock Falls Dam, the 120 foot long Horseshoe Falls Dam is valued by the public and historians for its highly aesthetic horseshoe shape. The Horseshoe Falls Dam fishway will include an innovative gravity fed ramp for American eels. Construction at the Horseshoe Falls Dam is expected to be complete by late fall 2011.



Construction at the Horseshoe Falls Dam. Photo by Jim Turek , IMSG/NOAA Restoration Center.

Design of a rock ramp, is underway for the 75 foot long Kenyon Dam, the third of the funded projects and the final barrier below Worden's Pond. Although dam removal is being explored with the adjacent mill/dam owner who is supportive of this alternative, upgrading the mill's fire suppression system in the absence of a pump in the impoundment may be cost prohibitive. Construction at

Kenyon Dam is targeted for summer 2012.

In addition to restoring both connectivity for fish and natural riverine processes, the Pawcatuck projects have created or supported local construction and engineering jobs. Other benefits include enhancement of Rhode Island's fresh and saltwater fisheries and improved recreational and educational opportunities for the rural communities near the river.

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From Flesh-Eating Monster to Ecosystem Engineer: Redemption for the Sea Lamprey

Submitted by Robert Hogg. Written by Dr. Heather Deese and Catherine Schmitt.

"Body elongate, eel-like. Jaws absent, mouth forming broad, elliptical hood armed with horny, hooked teeth arranged in 11 or 12 rows, innermost teeth largest."

This is not a detail from some alien encounter, but the opening lines of Henry Bigelow's description of the sea lamprey, *Petromyzon marinus*, an ancient fish with a lineage that extends back some 530 million years.

Like some other sea-run fish native to the Maine coast, lamprey have long suffered from a bad reputation, mostly because of the damage the species has caused in some of the Great Lakes.

Yes, adult lamprey do eat other fish in the ocean, including salmon, cod, haddock, swordfish and bluefin tuna. “They fasten on to the side of their victim, where they rasp away until they tear through the skin or scales and are able to suck the blood,” wrote Bigelow. But now, researchers are finding that when it comes inland to spawn in late spring, this primitive, resilient fish actually does some good in Maine rivers, from cleaning out streambeds to playing architect for nesting Atlantic salmon.



UMaine Graduate student Rob Hogg holds a sea lamprey found in the recently restored Sedgeunkedunk Stream. Photo by Stephen Coghlan.

Dr. Stephen Coghlan, an assistant professor of freshwater fisheries ecology at the University of Maine, and his graduate student Robert Hogg have been getting to know this creature with its small, dark eyes and slimy skin mottled black brown and greenish gray. A fish without scales or jaws, the strong, fast swimming lamprey has found a home in Sedgeunkedunk Stream, a tributary of the Penobscot River in Orrington and Brewer, Maine.

“To our knowledge, our study is the first to quantify effects of spawning sea lamprey on stream habitat in the context of Atlantic salmon restoration,” said Coghlan, whose lamprey research is funded by Maine Sea Grant. Like salmon, lamprey require fast-moving water and a gravelly stream bottom for spawning. As they prepare to mate and lay eggs, sea lamprey spend hours building nests. Working together, males and females use their mouths to pick up stones as big as a man’s fist and drag them into a pile, excavating pits, building mounds, loosening silt and mud from the stream bottom and improving water flows. The male and female will mate upstream, and the spawn will drift into the nest, settling in the cracks between rocks. They don’t feed when they migrate inland to reproduce, and apparently they don’t return to the stream where they hatched, but follow the scent of larval lamprey to find good spawning habitat. The adults die within days of spawning; larvae leave the nest within a week and burrow downstream. It could be months or years before they emerge, transformed, into juvenile lampreys and head for the sea.

Coghlan is also looking at how decomposing lamprey carcasses affect nutrients in the stream. When they come from the ocean, sea-run fish like alewives, salmon, and lamprey bring with them large quantities of ocean nutrients and energy. They enter freshwater streams, rivers and lakes, areas that regularly lose nutrients through normal processes of rainfall, runoff, and river discharge. In the past, the millions of fish that moved from the Gulf of Maine into inland watersheds to spawn helped to fertilize the landscape. And, of course, these fish were food for people. The thousands of dams erected throughout Maine in the last 250 years severed these links, preventing sea-run

fish from providing valuable services and eliminating a local source of food.

Despite current momentum for restoring connections between rivers and the sea, fewer than five percent of all dam removals in the U.S. are coupled with rigorous biological monitoring procedures. The lamprey study is part of a recent restoration project on Sedgeunkedunk Stream that is serving as a case study for scientists interested in documenting how quickly fish populations and stream food webs respond to barrier removal.

Since 2009, when one dam was bypassed with a rock-ramp fishway and another dam was removed entirely, sea-run or anadromous fishes have regained access to six kilometers of Sedgeunkedunk Stream and 1,300 acres of upstream pond habitat. Coghlan began studying the stream before the dam removals to collect baseline data. A nearby stream outside of the restoration is serving as a reference site.

In summer 2010, after removal of the Mill Dam, salmon quickly moved upstream, and lamprey and alewife swam past the old dam site the following spring, almost as if they had been waiting. Prior to dam removal, Coghlan and his co-investigators estimated that 47 sea lamprey constructed 31 nests along 700 meters of habitat in the lowermost portion of Sedgeunkedunk Stream. In 2010 after dam removal, they estimated that 150 sea lamprey constructed 130 nests along five kilometers of stream.

Come summer, Atlantic salmon and brook trout will move into the stream where the lampreys have done their architectural work. "We don't know for sure that salmon use old lamprey nests for their

own spawning, but it's likely," said Coghlan, "and if they do, we're not sure if they seek out abandoned nests actively, or those old nests happen to be in the right habitat."

It appears that, in their reclamation of Sedgeunkedunk Stream, the sea lamprey have also begun to redeem their image as valuable participants in the dynamic food web of Maine's coastal waters.

Think you Know Your Benthos?



Longtime NED member and Division Secretary John Cooper is looking for some help. John collected 17 objects that resemble worms in two riffles in the Salmon River. These objects range in size from 5 to 7 mm and are variable in shape. They appear to be made of a calcium compound but were not affected by acetic acid (pH 2.8) over a period of 3 days. The following pictures show some of these objects. The red color is artificial resulting from rose bengal stain in the preservative. The true color is white. Additional photos and information is available at:

www.cooperenvironmentalresearch.com
at the end of the "Benthos" page.

****NED Business Meeting Minutes****

Draft version 24 April 2011

Final version 25 May 2011

Minutes

2011 Northeastern Division Annual Business Meeting

Manchester, New Hampshire, 19 April

John E. Cooper, Secretary-Treasurer

Call to order and determination of quorum

President John Arway called the meeting to order at 1715 hrs. Sergeant-at-Arms Ron Essig said that we have a quorum.

Recognition of Past-Presidents and Guests

John Arway introduced AFS President Wayne Hubert, AFS President-elect Bill Fisher, and NED Past-Presidents Ken Beal (also AFS Past President), Doug Stang, Ron Essig, and Scott Decker.

Guest remarks

AFS President Wayne Hubert: Wayne told the attendees of the business meeting that he hails from Laramie, Wyoming. He has attended meetings of the North-Central Division and the Southern Division but the Northeastern Division is best because of the gift of Vermont maple syrup (from Phil Downey) and having hors d'oeuvres and beer. Wayne described what is happening at AFS: the society is made up of volunteers (few paid officers) with a relatively stable membership of about 9,000. AFS members make up a lower proportion of membership in Chapters than in Divisions. The Society is governed by a Board (29 members: AFS officers, President/President-elect of Divisions, Presidents of Sections) to provide guidance to the staff and officers. AFS has an updated strategic plan (www.fisheries.org, 'about us'). The upcoming annual meeting in Seattle might be the largest in AFS history: 94 symposia, which required a shortening of the time for presentations to 15 minutes, and 700 posters.

Publication of the six society journals is now handled by Taylor and Francis although AFS maintains control of pricing and editorial responsibility. There have been changes in covers, format, and the means for manuscript submission and viewing. The benefits to AFS with this arrangement are international marketing, especially in China and India, plus guaranteed profits of \$600,000 per year and a \$1 million signing bonus for a 6-year

contract. The new journal Marine and Coastal Fisheries is online only and is supported by fees.

Several areas are of specific interest: Leadership—the policy statement on climate change is the most recent from AFS. The statement on removing lead from fishing tackle is being revised. A statement on fish anesthetics and sedatives is also in review. Education—training of future professionals is important and part of training has not been emphasized, that is, basic skills in fieldwork such as boat handling, ropes and knots, and repairing equipment. Most students are concentrating on academic work. There will be a meeting with other professional societies in September to produce a white paper on this subject. Certification—only 12% of AFS members are certified. AFS is trying to determine why this percentage is so low. Most academic programs are designed to meet AFS certification requirements. Continuing education—distance learning can reach more potential members. A Leadership workshop will be offered in Seattle. Value of membership—virtual attendance is of interest to AFS members. The Seattle symposia and powerpoint presentations will be available online. Website—the website needs to be upgraded and AFS has allocated \$25,000 for this.

AFS has renewed Gus Rassam's contract for two years after which Gus will retire. There is a succession committee to find a replacement.

Questions: Justin Davis asked about gray literature being available on the website. Wayne replied that there might be a link to it on the website but it is under development (nothing found on 24 April).

Division President John Arway: John said that it has been a pleasure to serve as President, and will remain as President until the meeting in Seattle. John said that he was asked if he would run for President by Ron Essig (Nominating committee) at a time when work was less hectic: John also became Director of the Pennsylvania Fish and Boat Commission at the same time which has added to his work load. John explained that he will continue to foster better communication between AFS (Chapters and Divisions) and state Directors.

John Arway then introduced Paul Perra, NED Immediate Past President. Paul said that he did not have any remarks to make in the interest of time.

John Arway then asked the other officers to introduce themselves: Phil Downey, President-elect, Randy Jackson, 1st Vice-President, and John Cooper, Secretary-Treasurer. John Cooper is finishing the second year of a two-year term but the position was not listed on the ballot as needing a candidate due to a misunderstanding about the ending date of the current term, which will be at the Seattle AFS meeting. The officers will need to resolve this.

Approval of the minutes of the 2010 business meeting

John Arway asked for questions or corrections to the minutes, and being none, Bill Fisher made a motion to accept the minutes, seconded by Paul Perra. Motion was passed by acclamation.

Secretary's report

John Cooper presented the highlights of the past year, which included the NED sponsorship of the striped bass management symposium at the 66th NEFWC; reallocation of NED investment funds (more detail in Treasurer's report); denial of funding for the Clemens-Rigler Travel Fund (CCFFR) because the meeting in Toronto is outside of the NED boundary; purchase of liability insurance for the New York, Southern New England, Atlantic International, and Pennsylvania chapters; and reimbursement for registration and hotel of the AFS President at the 67th NEFWC.

The officers of the Executive Committee held five conference calls (20 May, 24 June, 24 August, 14 December, and 1 February) supplemented by email exchanges to consider requests and issues of the Northeastern Division. Among these were:

Issue: Striped Bass Symposium

Background: The NED sponsored a symposium on the successful management of coastal striped bass. The symposium included an historical perspective and was well attended. The proceedings will be published through AFS with outside funding.

Action: None

Issue: NED financial accounts

Background: The Finance Committee felt that NED should start a new fund with the first proceeds from the Diadromous Symposium. The Executive Committee agreed.

Action: The Short Duration Bond Fund was opened with American Century on 2 August with \$3000. (Summary in Treasurer's Report)

Issue: Funding request from Canadian Conference for Fisheries Research (Clemens-Rigler Travel Fund) for a meeting in Toronto.

Background: The Division received a request to support the meeting of CCFFR in Toronto. The NED has supported the Fund in the past.

Action: The ExCom voted against providing funding because the meeting is outside of the NED boundary. In a related action, a motion was proposed and passed that makes a policy of the past NED practice not to fund activities outside the NED boundary unless there are special circumstances.

Issue: Liability Insurance

Background: The Division purchases liability insurance for the Chapters through AFS.

Action: The NED purchased insurance for the New York, Southern New England, Atlantic International, and Pennsylvania chapters.

Issue: Funding for AFS President

Background: The NED has reimbursed the AFS President's expenses (registration and hotel) at previous NEFWCs, at which the NED Annual Meeting is held.

Action: A motion was made and passed to continue this practice at the 67th NEFWC.

Treasurer's report

The AFS dues rebate remains the largest source of income for the NED followed by the book sales royalty payment for the Diadromous Symposium. Expenses were reduced in 2010 due to a reduction in meeting travel costs and reduced student travel support.

The investment allocation was altered during the year: the royalty check from the Diadromous Symposium was invested in the Short Duration Bond Fund. Half of that amount was later reinvested into the Core Plus Bond Fund along with all money from the Diversified Bond Fund. The other half of the Short Duration Bond Fund was reinvested into the Prime Money Market along with all the money from the Ginnie Mae Bond Fund. The investment strategy is currently under review and the allocation might change. John noted that the proposed budget for 2010 was expected to result in a deficit of \$2850 but instead resulted in a net gain of \$2724. The budget proposed for 2011, if all amounts are realized, will result in a deficit of \$3532.

Income was \$2757 more than projected for 2010 due to royalties from the sale of the Diadromous Symposium and a donation for the Moring Student Travel Fund (William Franzin). This amount offset the lower income derived from investments and the AFS dues rebate compared to that for 2009 (deficit of \$338). The AFS dues rebate was the largest portion of Division income (Figure 1) in 2010. Investment income increased steadily during 2010 but has not recouped the loss from the stock market decline in 2008.

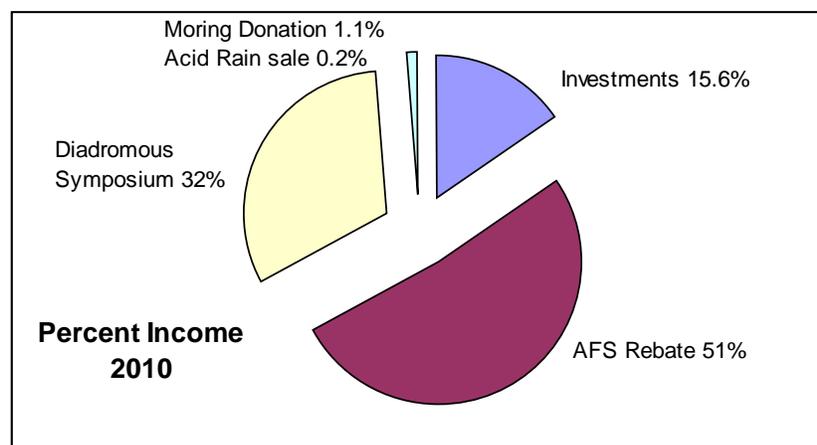


Figure 1. Income sources for the NED during 2010.

Expenses in 2010 were reduced from 2009 resulting in a net gain for the Division of \$586. This was due to a reduction in expenses for Governing Board attendance (paid by AFS), a reduction in Moring student travel awards, and lower reimbursement for NED officer travel. The NED Annual Meeting was the largest expense (Figure 2.). Awards for students accounted for 82% of awards costs. The Division received one donation for the Moring student travel award. The cost of the NED annual meeting increased over that for 2009 but the cost of officer travel declined. These reductions reflect the differing costs of meeting location (especially the national meeting) as well as increased agency ability to provide funding.

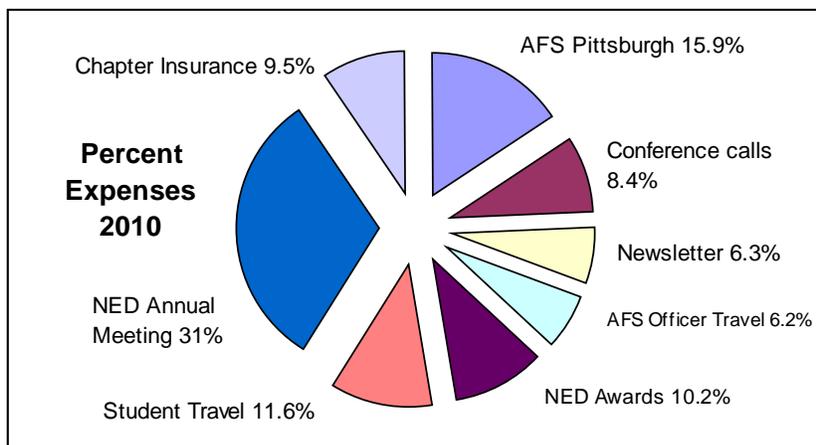


Figure 2. Percent expenses for 2010 by major category based on rounded dollars.

The financial outlook for the Division is neutral to positive, depending on the actual expenses incurred and the continuing rise of the financial markets. At the current rate of return on investments (Table 1), the Division will be able to cover all expenses within five years, providing that expenses remain near (or less) to those in the projected budget.

Table 1. AFS Northeastern Division Financial Status, 18 April 2011, Manchester, NH

Account	Value on 31 March 2010	Value on 31 December 2010	Value on 31 March 2011	12 month return
American Century Diversified Bond	16,864.52	16,737.72	0	7.4%
American Century Ginnie Mae Bond	16,293.74	16,172.60	0	5.1%
American Century Prime Money Market	5,210.67	4,896.77 ^a	23,944.24	0.11%
American Century Core Plus Bond Fund ^b			20,168.90	0.7%
Checking account	4,000.83	5,675.88	2,173.10	0%
NED Total	42,369.76	43,482.97	46,286.24	

Notes

^a\$4,000 from the Money Market Fund was divided between the Diversified Bond Fund (\$2,000) and the Ginnie Mae Bond Fund (\$2,000).

^b\$3,000 from the Diadromous Symposium was invested in American Century Short Duration Fund in August, 2010, and reinvested equally into Core Plus and Prime Money Market in December, 2010.

Several changes were made to the NED investment accounts in 2010 and these are summarized below:

December, 2009, ending balance of investments:

American Century Diversified Bond Fund	\$16,864.52
American Century Prime Money Market	\$4,780.60
American Century Ginnie Mae Bond Fund	\$16,324.02
Total American Century	\$37,969.14

Key Bank checking account started on 28 April 2010 with \$1500 from Prime Money Market.

Bank of America checking account closed on 24 June 2010; amount of \$3260.48 added to Key Bank checking account.

The finance committee, and the NED officers, agreed on 20 May to start a new American Century account with the proceeds from the Diadromous Symposium. NED started a new account, Short Duration Bond Fund, with the royalty payment from the Diadromous Symposium (\$2995.43) plus \$4.57 from checking account on 2 August 2010.

The finance committee recommended that the NED investment funds be re-allocated into more conservative funds to preserve capital on 10 December. John Cooper made the necessary changes on 14 December 2010, after that day's conference call:

All shares from the Diversified Bond Fund transferred to Core Plus Bond:	
\$18,527.45	
Short Duration Fund split; \$1,502.99 transferred to Prime Money Market	
\$1,502.98 transferred to Core Plus Fund	
All shares from Ginnie Mae Bond Fund transferred to Prime Money Market:	
\$17,834.22	

2011 Budget

The projected budget (Table 2) reflects a conservative estimate for investment income, a slight decrease in the AFS dues rebate, and no estimate for income from the Diadromous Symposium since there is no way to predict what income will accrue from book sales.

A difficulty in producing a budget lies in the commitment by NED to finance operations for which the cost is unknown. These operations include the NED Annual Meeting and travel costs for NED officers to meetings. Costs for these items were reduced in 2010 but this reduction cannot be counted on for the future. The budget for 2010 realized a gain of \$2724, instead of a deficit of \$2850. The projected budget for 2011, if realized, will have a deficit of \$3532.

Table 2. AFS Northeastern Division budget, 18 April 2011, Manchester, NH.

	Budget 1 January to 31 December 2009	Projected budget 1 March to 31 December 2010	Realized budget 1 March to 31 December 2010	Projected budget 1 March to 31 December 2011
Income				
Investment income				
American Century	1076	1550	1454	1200
AFS dues rebate	5039	5000	4758	4500
Symposium book sale	18	0	18	18
Diadromous Symposium	2539	0	2977	0
Moring donation	0	0	100	
Total income	8,672	6,550	9,307	4,718
Expenses				
NED annual meeting				
Hotel/food service	624	2000	1968	2000
AFS officer travel	528	600	390	500
NED officer travel*	925	1000	350	400
Student travel grants	1307	1400	735	2350
Best paper/poster	400	400	400	400
Awards/certificates	119	120	244	100
NED travel other meetings*	1887	1600	0	1000
Donations				
AFS Pittsburgh	0	1000	1000	0
Operations				
Web hosting/domain name	22	0	0	0
NED conference calls	425	430	485	500
Newsletter	400	400	400	400
Postage	0	0	0	0
Liability insurance	450	450	600	600
Checks			29	
Total expenses	7,187	9,400	6,601	8,250

*NED President and President-elect are required to attend the NED Annual Meeting and the AFS Mid-Year Governing Board meeting, for which reimbursement is made by the Division.

Chapter Reports (Written reports provided by chapter presidents with any additional comments made at the business meeting added)

Atlantic International Chapter Christine Lipsky said that the report stands as submitted.

SUNY-ESF: Natalie Scheibel is the new President but unable to attend this meeting. The Chapter will try to be more active in NED and is looking to the possibility of becoming a sub-unit with the hope that NED can contribute to subunit support, according to Randy Jackson.

New York Chapter: Randy Jackson made the report for new President Ed Woltman, stands as submitted.

Pennsylvania Chapter: Leroy Young represented the Chapter for Ty Wagner, stands as submitted.

Southern New England Chapter: Justin Davis represented the Chapter for Tracy Maynard, stands as submitted.

Committee Reports : (Written reports provided by committee chairs with any additional comments made at the business meeting added)

Archives: Ernie Atkinson (not present) submitted a report, stands as submitted.

Audit: Doug Stang reported that the Division accounts are in good order and noted that 2010 was the first year in the past six years that the balance has been positive.

Awards: Paul Perra said that the Dwight Webster award will go to Steven Murawski and will be presented at the banquet. The award will be accepted for Steve by Ron Essig.

Certification Board of Appeals: Scott Decker said that he was appointed to the Certification subcommittee and cannot serve on that as well as the Board of Appeal. John Cooper volunteered for the Board of Appeals.

Continuing Education: Steve Coghlan and Tim Strakosh, stands as submitted.

Environmental and Resource Issues: Des Kahn (not present) said that the Marcellus shale hydrofracturing is of importance and the NED should prepare a position for this.

Finance: Des Kahn, stands as submitted.

Hutton Award: Ron Essig said that it can stand as submitted; recognized that Ken Beal was an early proponent of this program for students and both hope that the NED can resume contributions to it when finances allow.

Membership: Randy Jackson said that NED membership declined in 2010. An increase in membership would benefit the Division as well as increasing potential participation for AFS leadership.

Moring Student Travel Award: Lindsey Feldman (not present), stands as submitted. There are five students that received support for this meeting: T.J. Ross (Cornell University), Amy Kathryn Koske (University of Massachusetts-Amherst), Timothy Jensen and Alicia Landi (University of Connecticut), and Brooks Fost (Penn State University).

Newsletter: Ann Grote (University of Maine) is the new editor, report stands as submitted.

Nominating: Paul Perra, stands as submitted. He will present a proposal under new business.

Resolutions: Kristin Ferry (not present); Phil Downey read the resolution of thanks to the New Hampshire hosts for their efforts in conducting an excellent meeting.

Rivers and Streams: this committee chair is vacant, see Leroy Young, if interested in chairing; a new committee called the Coldwater Streams is chaired by Mike Shingleton (WV).

Student Presentation Awards: Scott Decker presents for Martha Mather: there were 10 student presentations and the winners of the best paper and poster will be notified by mail after the meeting. There is not enough time from the last presentation to the end of the meeting for the judges to make a decision.

Website: Greg Kozlowski (not present), stands as submitted.

Awards Announcement

Paul Perra said that there was only one award this year as there was only one nomination. The NED walking stick (hand carved by Bob Carline) will be passed in 2012 to the NED member who has the longest AFS membership.

Paul proposed a change in the eligibility criteria for nominations for First Vice-President:

from 'Candidates for First Vice-President shall have either attended an annual meeting of the Division or served as a Chapter President or Division level committee chair within the three years preceding their nomination'.

to 'Candidates for First Vice-President shall have either attended an annual meeting of the Division or served as a Chapter President or Division level committee chair within the five years preceding their nomination'.

This proposed change will be sent to NED members 30 days prior to voting, passage requires a 2/3 majority of voters, and if passed, it will be sent to the AFS constitutional consultant for approval. It will then be voted on at the next Governing Board meeting.

Installation of new officers

Past-President John Arway was escorted by Jamie Geiger and Ron Essig, President-elect Randy Jackson was escorted by Bill Fisher and Scott Decker, and President Phil Downey was escorted by Ken Beal and Wayne Hubert.

Incoming President's remarks

Phil said that he is appreciative of being President and noted that when he was Secretary-Treasurer he was concerned that NED might have too much money for a tax-exempt organization. Phil said that he would like to increase student and young professional participation in AFS, and increase communication between the various levels of AFS to determine how we can provide better support.

New Business

Terra Rentz (Assistant Director, Government Affairs and Partnerships, The Wildlife Society) addressed the business meeting attendees on the forthcoming ad hoc committee within the Wildlife Society that will work on a position paper on the Marcellus shale issue. She asked if the NED would like to join forces with the Wildlife Society in developing a

policy statement. Phil Downey told Terra that Des Kahn is working on the Marcellus shale issue and she should contact him. The two groups then can formulate an approach.

President Phil Downey presented the Past-President plaque to John Arway.

Scott Decker asked about the status of the NED website noting that much of it was out of date. John Arway will contact Greg Koslowski about this and asked for potential volunteers for the website.

Adjournment

There being no other new business, John Arway moved for adjournment, Paul Perra seconded. Meeting adjourned at 1840.

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Environmental and Resource
Issues

VACANT