



SPECIAL SYMPOSIUM ISSUE

President's Log

Dear Marine Fisheries Section Members:

It is with great pleasure that I report that our members have been hard at work, organizing symposia for the upcoming AFS Annual Meeting, serving on AFS Committees, and promoting scholarship through the dissemination of a new book, *The Raymond J. Beverton Lectures at Woods Hole, Massachusetts*. I especially wish to recognize Emory Anderson (Editor) and Doug Vaughan for their tireless efforts to promote the production and sale of this great book. If you don't already have your own copy, I highly recommend purchasing it - you won't regret it! Doug was contacted by two journal editors and made arrangements for reviews of this book to appear in *Marine Pollution Bulletin* and *Fisheries Research*. Thank you, Doug, for making this possible! Further information on this book can be found on our website.

I am pleased to report that the Marine Fisheries Section provided a \$300 donation to the Equal Opportunities Section (EOS) for the travel grant administered by the EOS. Each year, the EOS provides travel money to assist women and minority students with travel costs associated with attending the annual meeting. We were delighted to assist in this worthwhile effort!

In February, we were invited by the AFS External Affairs Committee (David Whitehurst, Chair) to provide a point of contact for a series of popular articles that will be produced in conjunction with Outdoor Writers of America. I wish to acknowledge John Hoenig for volunteering to assist in this matter. The MFS Executive Committee provided the following as possible topics to explore: (1) Stock Assessment - what it means, how it's used, and how it relates to the fisheries management process; (2) Marine Protected Areas - what are the problems?; (3) Overfishing - need we say more?; (4) Overcapacity - what does this mean and how is it affecting fisheries management?; and (5) Catch & Release in Marine Recreational Fisheries - not always a panacea. We believe that these are critical issues whose understanding will improve resource stewardship.

As a follow-up to our annual meeting in Baltimore last year, I contacted AFS headquarters about the desire of our membership to change student membership dues to \$2 per year (instead of \$5 per year). I am pleased to say that this change will be effective with the 2004 dues year. Students, please look for this in the next dues announcement you receive from AFS. It is the intention of the Section to increase student participation and we hope that this small gesture will be one step towards fulfilling that goal.

Also as a follow-up to requests I received at the annual meeting last year, I contacted the AFS Arrangements Committee responsible for the Québec annual meeting and

SECTION OFFICERS:

• **President:**

Mary Fabrizio

NOAA, NMFS, NEFSC

74 Magruder Road

Highlands, NJ 07732-0428

Phone: (732)872-3129

FAX: (732)872-3128

Email: Mary.Fabrizio@noaa.gov

• **President Elect:**

John Hoenig

Virginia Institute of Marine Science

P.O. Box 1346

Gloucester Point, VA 23062

Email: hoenig@vims.edu

• **Past-President:**

Anne Richards

NOAA, NMFS, NEFSC

166 Water Street

Woods Hole, MA 02540

Phone: (508)495-2305

FAX: (509)495-2393

Email: Anne.Richards@noaa.gov

• **Secretary/Treasurer:**

Debra Murie

University of Florida

Dept. of Fisheries & Aquatic Sciences

7922 NW 71st Street

Gainesville, FL 32653

Phone: (352) 392-9617

FAX: (352) 846-1088

Email: dmurie@ufl.edu

Inside this issue:

President's Log	1
MFS Minutes	2
Governing Board Minutes	5
Announcement of Annual Meeting	5
Symposium Sessions—MFS	6
AFS - Catch of the Day	10

(president's message continued)

reserved a room for our Section's Business Meeting. I requested a Sunday afternoon time slot, so that our business meeting will not conflict with technical sessions. Since room and time-slot assignments are on a first-come first-served basis -- and I was the first to respond -- we can expect to meet at 5 pm on Sunday afternoon.

Finally, I provided AFS President Fred Harris with some speaking points for his trip to The Hill during the mid-year Governing Board Meeting, which was held in early March 2003. As I was unable to attend, President-elect John Hoenig served as my proxy. Thank you, John, for filling in for me! President Harris and ERF (Estuarine Research Federation) President Dennis Allen spoke with Congressional staffers on 'The Cutting Edge Science that Will Influence Policy: Major Research & Conservation Concerns.' President Harris was pleased with the outcome of his meeting and thanked the Section for providing input.

I thought I would be brief this time, but we've been busy and I thought you would like to know how your Section is working towards improving its visibility in AFS, encouraging participation by students, and promoting scholarship. Keep up the good work, team! And, don't forget to make your travel arrangements for the AFS Annual Meeting in Québec - it promises to be a good meeting for those with marine interests.

-Mary.

Old Business

Minutes of the 2002 Marine Fisheries Section Business Meeting Baltimore, Maryland 20 August 2002

Prepared by Debra Murie, Secretary/Treasurer

The meeting was called to order by MFS President, Anne Richards.

I. Introductions, additions to agenda

Everyone present introduced himself/herself along with his/her affiliation. There were no new items added to the agenda.

II. President's Report

II. A. AFS Governing Board Meeting

Mary Fabrizio presented the MFS annual report to the AFS Governing Board. Mary reported back that the AFS was now doing fine financially, and had a 205K surplus with 600K in the reserve fund. This may mean that the sections will receive a return on part of the dues paid.

II. B. Review of MFS Activities

II. B1. Oceans Act of 2000: An MFS committee chaired by past-president Steve Berkeley developed the basis for an AFS position statement to the Commission on Ocean Policy established by the Oceans Act of 2000. Visit the AFS website for more information.

II. B2. Beverton Lecture Notes I and II: Doug Vaughan summarized sales from the first series of Beverton Notes (1000 copies), of which we have about 300 left to sell. Last year, Emory Anderson also proposed that we purchase and sell a second series of Beverton Notes based on a lecture series given by Ray Beverton. The notes have now been transcribed and edited by Emory as a book and will be printed by the government printing office this fall for distribution.

The book will be distributed to NMFS employees (~700) free of charge by the printing office. The MFS therefore estimates that we could sell ~300 copies. The book will retail for \$25 @ and we get 25% off. MFS will be advertising the book for sale in *Fisheries*. Doug Vaughan has agreed to receive the books for resale, so please contact him if you would like to purchase a copy (doug.vaughan@noaa.gov). Our thanks to Doug for taking on both of these projects.

John Hoenig also suggested that Ricker's translation of Baranov's works could be another MFS publication. John is going to go through the translations, but notes that the work is of really great historical value (catch curves, yield per recruit, etc.) John is going to proof read the translations and decide about figures that need to be in it, and maybe pen a biography of Baranov to go with it as well. Dan Pauly is working with John on it and to date it has been typed as a document. Alexei Sharov (Maryland DNR) may be able to help with this.

II. B3. Peer Review-ACCSP: MFS coordinated a peer-review for the Atlantic Coastal Cooperative Statistics Program (ACCSP). MFS identified a panel of experts in the area of expertise to review the ACCSP program. The review went well and the outcome was well received. The review was completed in January 2002.

II. B4. MFS Website: MFS web site is up and running now. Suggestions for future modifications included making the website a different color for printing in black and white and to make the section button (unit) easier to find and access. A big thank you to Anne Richards and Max Stocker for working on the web site over the past couple of years.

II. B5. Student Travel Grants: Two recipients were given travel awards this year: Patrick Campfield and Toby Auth. Both are Masters students working with Ed Houde and gave presentations during the conference. MFS discussed methods to get students to apply for the awards and become more active in the section (Also, see below).

II. B6. Meeting/Symposia Sponsorships: MFS provided a grant of \$1,000 to support an international workshop held in New Zealand during December entitled "Training Managers for the 21st Century". The workshop was primarily a New Zealand and Australian exercise for managers to garner a much more broad-based approach to management. There is to be a follow up session in Wellington, N.Z., in September 2003. The original workshop was believed to be well worth our support.

MFS provided \$1,000 support to the 4th World Fisheries Congress to be held in Vancouver, B.C., in May 2004. Members of the program committee for the 4th WFC came in to the MFS meeting to thank the section for support.

MFS provided \$400 support to the AFS International Fisheries Endowment Fund to help support/sponsor international participation in the AFS.

MFS is contributing to the 2003 AFS-sponsored symposium "Propagated Organisms in and for Aquatic Resource Management" through participation in the steering committee for the symposium.

II. B7. Election Results: The election was won by John Hoenig.

III. Secretary-Treasurer's Report

As of 31 July 2002, there were 360 members in the Marine Fisheries Section. The balance of the MFS account, as of 31 July 2002, was \$10,603.43.

IV. Oscar E. Sette Award

The Sette Award recognizes meritorious contributions to the field of marine fisheries. For 2002, Des Kahn, chair of the Sette Award Committee, announced that Dr. William Richards was the recipient. Des gave a brief biography of Dr. Richards who is currently with the NMFS in Miami, FL. Dr. Richards has a very extensive publication record focusing on larval fish taxonomy and development. He was not available to attend but sent his gratitude via Anne Richards.

V. 2002-2003 Program of Work

V. A. Marine Population Dynamics Workshop: The MFS will collaborate with the AFS Northeast Division and the Continuing Education Committee to develop a Marine Population Dynamics Workshop. Steve Murawski said that the workshop was originally planned for sometime this fall in Connecticut but is being rescheduled; it will perhaps be held in conjunction with the Northeast Division meeting in April in Newport.

V. B. Student Travel Grants-Further Development: There was not a great response to the Student Travel Grants this year (only two students applied). The two students that did receive them were excellent students, however, and deserved the awards. The MFS needs to increase the level of participation by students, however, in both the travel grant applications and membership. Various suggestions were made and discussed, including:

- make the travel grant a competition with a monetary award (rather than a travel grant);
- give the travel grant (or award) a name to give it more prestige;
- advertise better and increase the visibility of student items on the web site;
- give the student a membership as part of the award so that they do not have to be a member to apply for the award in the first place;
- get faculty members to promote the value of being a member of a professional society to their graduate students;
- promote the MFS section in general since our membership is dwindling a bit (it used to be over 400 members). It is important to communicate to people what the MFS can do for them, through the newsletter, travel grants, etc.;
- partner with the education committee to advertise the travel awards. Most students receive information via email over the list server;
- reduce the fee required for students. Anne Richards will look into this again. The Estuary Section has reduced their student fee to \$2 (regular members pay \$7);
- various discussions ensued as to whether the student should be a member of the section to apply or just a *bona fide* student. Some sections are having trouble getting student members because the students do not know how to become a member of a section. Other students want to be able to belong to multiple sections, or at least have some time to decide what section(s) they want to join.

Out of these discussions, various motions with amendments were proposed, of which the following two motions survived:

John Hoenig made a motion that the excom institute a \$2 fee for student members. The motion was seconded by John Boreman. The motion passed.

John Hoenig made a motion that the excom work on the problem of student participation, including the travel awards. The motion was seconded. The motion passed.

V. C. AFS Symposia for 2003: Doug Vaughan et al. are going to put together a symposium for next year's meeting in Québec. They plan to have a one-day symposium that concentrates on looking at data poor situations. John Boreman et al. also are planning a one-day symposium in Québec city, entitled "Large Scale Fishery Independent Surveys: Looking to the Future by Learning from the Past". A general list of topics to be covered includes: History, Sampling Methods and Technology, Statistical Methods for Design and Analysis of Survey Data, Uses of Survey Data, and the Future of Fishery Independent Sampling.

John Hoenig requested that Mary Fabrizio contact the program chairs in Québec to request that they do not overlay the symposia on the marine sections of contributed papers. This has happened in the past and we should make sure that the program chairs know of our concerns.

VI. Sette Award Committee: The Sette Award Committee needs to add a few more people to the committee. Des Kahn will chair it again this year. Ed Houde and Churchill Grimes volunteered to participate on the committee. Ken Able will be contacted to see if he will also do it.

VII. Installation of New Officers: Anne Richards turned the gavel over to Mary Fabrizio. Mary's first order of business was to give Anne a plaque of appreciation for her service. Mary looks forward to the next year and encourages people to send her emails of any concerns, etc. John Hoenig is now president-elect.

VIII. New business: There was no new business.

IV. Adjourn: Meeting adjourned at 6:42 p.m.

Minutes from the Midyear Meeting of the AFS Governing Board

Date: March 2003

Venue: Baltimore, MD

MFS Representative: John Hoening (Pres. Elect)

Mary Fabrizio was unable to attend. John Hoening served as MFS representative. Chief issues covered were: (1) the state of AFS's finances and (2) the new Fisheries Foundation.

The financial situation looks promising in spite of economics and journal issues that exists beyond the control of the Society. Currently most libraries do not subscribe individually to thousands of journals. Instead, they place an order with a subscription service, which in turn communicates directly with the individual journal. One major subscription company recently went bankrupt, leaving many libraries without funds and subscriptions. It is with great difficulty for libraries to raise the additional needed funds. Therefore, the Society felt it had little choice but to tell the affected libraries that we would provide the journals for the affected year provided they maintained a subscription for the following year. The decision for this plan was unanimous. The remaining financial decision was the

contract renewal of Gus Rassam, which was also unanimously approved.

Approval was granted for the start of the new Fisheries Foundation. This will be a separate entity closely affiliated with the American Fisheries Society. Its purpose will be education and advocacy. Three items were approved at the meeting. First, the Foundation is enabled to begin collecting funds, which will be held by the Society pending final measures to establish the Foundation. Second, AFS will provide some support to the Foundation in terms of office space and office resources. Third, an outline of the Foundation's structure and operations will be sent to the lawyers in order for a formal document to be drafted. The Governing Board will receive the document for final approval.

End of committee report.

New Business



*Are you attending the AFS Annual Meeting
in Québec City?*

*If so, you are invited to attend the
Marine Fisheries Section's Business Meeting
scheduled for 5 - 7 pm, Sunday (Aug 10)
in the Bélair room of the Hilton.*

*Following the meeting, we can all proceed to the
'Welcome to Québec Social' in the Hilton Ballroom.
Hope to see you there!*



Sneak Peek of the Annual AFS Symposium in Québec : Sessions Sponsored by MFS

Session I: Predation Impacts on Depressed Fish and Invertebrate Population.

How changes in vulnerability to predation impact the potential recovery of a depressed commercial shrimp stock in the southern Gulf of Mexico.

Arreguín-Sánchez, Francisco , Manuel J. Zetina-Rejón and Victor H. Cruz-Escalona

Can surveys detect decline and recovery in overexploited fish populations?

J.L. Blanchard, S. Jennings and M.D. Nicholson

The role of recruitment in the decline of North Sea cod (*Gadus morhua*)

Bromley, P.J., R.C.A. Bannister and E.D. Bell



Can Atlantic cod recover? Exploring trophic explanations for the non-recovery of cod on the Eastern Scotian Shelf, Canada.

Bundy, A and P, Fanning

Predation and the lack of recovery of Southern Gulf of St. Lawrence cod

Chouinard, G.A., D.P. Swain, M.O. Hammill and G.A. Poirier

Predation impacts on depressed fish stocks: a meta-analysis

Duplisea, D.E., and J. Link

Egg predation, cannibalism, and the recovery of Baltic Sea cod.

Essington, T.E. and S. Hansson

Predation by groundfish in the Gulf of Alaska: a thermodynamically challenged system?

Gaichas, S.K.

The influence of egg deposition rates and predator abundance on lake trout survival and Rehabilitation

Jonas, Jory L., Randy M. Claramunt, John D. Fitzsimons, J. E. Marsden, and B. Ellrott

Related changes in crab and groundfish abundances in the eastern Bering Sea.

Kruse, G.H., and J. Zheng.

Predation, juvenile mortality, and the potential for recovery of depleted populations of marine invertebrates

R.N. Lipcius, R.D. Seitz, J.C. Gascoigne, J. van Montfrans, R.L. Mann, M.W. Luckenbach, and S.J. Schreiber

Are specialized feeders more vulnerable to ecosystem perturbations than generalist feeders?

Mackinson, Steven

Impacts of predation on the recovery of the Gulf of Maine-Georges Bank herring complex

Overholtz, Bill and Jason Link

Relative effects and interplay of fishing and predation in an overexploited system: the Gulf of St. Lawrence (Canada)

Savenkoff, Claude, Martin Castonguay, Denis Chabot, and Hugo Bourdages

Sea otter predation and the bathymetric distribution of Dungeness crabs near Glacier Bay, Alaska

Scheding, K.A., Shirley, T.C. and S.J. Taggart

Allee effects in structured populations

Schreiber, S.J., and R. N. Lipcius

Predation of winter flounder eggs by the sand shrimp *Crangon septemspinosa*

Taylor, D.L.

Predator-prey interaction between the shortfin mako, *Isurus oxyrinchus*, and bluefish, *Pomatomus saltatrix*

Wood, A.D., B. Wetherbee, N. Kohler, F. Juanes, and C. Wilga.

Session II: New Quantitative Methods.**What are appropriate rebuilding targets for overfished stocks?**

Jon K. T. Brodziak and Christopher M. Legault

Production models: A simulation study evaluating the incorporation of age

Elizabeth N. Brooks, Clay Porch, C. Phillip Goodyear

Multispecies modeling of Atlantic menhaden and its predators in Chesapeake Bay II: coupling species-specific bioenergetics models

Brush, M.J., and R.J. Latour

A Functional Response Model for Chinook Salmon in Lake Huron

Dobiesz, N. E. and J. R. Bence

Multi-year index-removal models which allow for various assumptions about catchability for Tasmanian rock lobster, *Jasus edwardsii*.

Ihde, T. F., J.M. Hoenig, and S.D. Frusher

Comparison of two approaches for estimation of F from a catch-survey model of the blue crab stock of Delaware Bay.

Kahn, Desmond

Multispecies modeling of Atlantic menhaden and its predators in Chesapeake Bay I: an Ecosim (EwE) approach

Latour, R.J., and M.J. Brush

Quantification of productivity regimes using a Sissenwine -Shepherd model.

R. Mohn

Estimation of Survival Rates of Lake Trout from Lake Superior using Cormack-Jolly-Seber Capture-Recapture Methods.

Pollock, K. H, J. Yoshizaki, M. C. Fabrizio, and S.T. Schram

Combining Radio-Telemetry And Fisheries Tagging Models To Estimate Fishing And Natural Mortality Rates

Pollock, K. H., H. Jiang, and J. E. Hightower

REPAST -- A framework for calculation of target reference points from limit reference points

M. H. Prager, C. E. Porch, K. W. Shertzer, J. F. Caddy

Comparison Of A Virtual Population Analysis And A Statistical Kill-At-Age Analysis For A Recreational Kill-Dominated Fishery

Radomski, P., T.J. Quinn II, and J.R. Bence

VRAP, a viability and risk assessment model for evaluating harvest and recovery of listed salmon populations.

Norma Jean Sands

A stochastic decision based approach to assess the status of exploited populations.

Alexei Sharov and Thomas Helser

A new approach for modeling growth and estimating consumption for free-ranging fishes

B.E. Thompson and D.B. Hayes



Comparisons of Alternative Surveys of Fishing Effort and Catch on Maine For-Hire Boats

Van Voorhees, D. A., W. R. Andrews, B. J. Joule, M. Metcalfe, C. S. Brown, and R. B. Watts II

Performance Of Time-Varying Catchability Estimators In A Statistical Catch-At-Age Analysis

Wilberg, M.J., and J.R. Bence I

Session III: Large-Scale Fishery Independent Surveys.

Designing a Monitoring Survey in Support of Multispecies Assessment

Bonzek, Chris

The Future of Fishery Independent Sampling: An Open Discussion

Boreman, John

Implications of a Change in Biological Sampling Protocol within a Fishery Independent Survey Time-series for the Estimation of a population Parameter: Facts or Artifacts?

Burnett, Jay

NOAA's Next Generation Fishery Survey Vessel

Byrne, Chuck

Improved methods for inference about exploitable population abundance from fishery research surveys

Cadigan, Noel

A Retrospective of a Twenty-Five Year Bottom Trawl Time Series

Currier, Thomas

Stock Assessment During a Moratorium: The Role of Fishery-Independent Data in the Red Porgy Assessment

Davis, Michelle

A study of the catchability of snow crab (*Chionoecetes opilio*) by a survey bottom trawl at Newfoundland and Labrador

Dawe, Earl

A Geostatistical Conditional Simulation of Acoustic Survey Data Incorporating a Generalised Additive Model for Depth

Fernandes, Paul

Proposals for the use of Autonomous Underwater vehicles in Fisheries Independent Surveys

Fernandes, Paul

An evaluation of the "Patch" Model for Estimating dredge efficiency

Hoening, John

Statistical description of habitats of small pelagic fishes and invertebrates in the US Gulf of Mexico

Ingram, Walter

Which index? A case study of selecting appropriate annual abundance indices for groundfish

Ingram, Walter

Value added sampling for fishery independent surveys: Don't stop after you're done counting and measuring

Link, Jason

Large Scale Plankton Surveys in the Gulf of Mexico: The potential for incorporating a larval index of abundance for Stock assessment of red snapper, *Lutjanus campechanus*

Lyszkowski-Shultz, Joanne

Uses of the Lake-wide prey fish survey in Lake Michigan

Madenjian, Chuck



Florida's marine fisheries-independent monitoring program: some lessons learned and results from our first decade

Matheson, Ed

Electronic Data Acquisition at Sea: Fisheries Scientific Computer System (FSCS)

Mchugh, Nancy

Conversion Coefficients: Determination of Conversion Coefficients for Vessel Comparison Studies

Milliken, Henry

Distribution, Abundance and Age Structure of Red Snapper (*Lutjanus campechanus*) caught on longlines in US Gulf of Mexico

Mitchell, Karen

Evolving Demands of Multi-Species Finfish Surveys: Planning for the Next 40 years

Murawski, Steve

Changes in the large pelagic fish communities after 50 years of fishing, as determined from longline surveys and observer data

Myers, Ransom

Uses of Survey Data

Myers, Ransom

An Integrated Multi-sensor Gear Mesuration Pkg Developed for the NOAA-Fisheries Standardized Surfclam and Ocean Quahog Dredge Survey of 2002

Nordahl, Vic

Application of Multispecies, Bottom trawl surveys to assessment of crustacea off Newfoundland and Labrador

Orr, David

Finding the Needle in the Haystack: Empirical Tests to Detect the Effects of Cable Asymmetry on Trawl Performance

Rago, Paul

The future of fishery independent surveys

Schaeffer, Jeff

The ME/NH Survey: Problems of initiating and maintaining public support

Sherman, Sally

Conversion factors for Atlantic cod (*Gadus morhua*) from Comparative Fishing Trials for engel 145 otter trawl and the Campelen 1800 shrimp trawl used on research vessels

Stansbury, Don

Comparison and combination of spatially over-lapping transect and stratified random surveys of finfish abundance in the Chesapeake Bay

Volstad, Jon

Sampling Methods and Technology in Multi-species Resource Surveys

Walsh, Steve

Evaluating the Success of the Survey Trawl Standardization Program at the Northwest Atlantic Fisheries Centre

Walsh, Steve

Inter-ship comparison in acoustic-trawl surveys

Williamson, Neal





Marine Fisheries Section Newsletter
Donna L. Johnson, Editor

NOAA/NMFS/NEFSC
James J. Howard Laboratory at Sandy Hook
74 Magruder Road
Highlands, NJ 07732
Phone: 732-872-3000
Fax: 732-872-3088
Email: Donna.Johnson@noaa.gov

WE'RE ON THE WEB!
<http://www.nefsc.noaa.gov/mfs/>

The Marine Fisheries Section (MFS) is a professional, interest based, subunit of the American Fisheries Society. The intent of the MFS is to further the Society's objectives within marine fisheries science and practice. MFS members wish to attain further knowledge about marine fisheries, and to identify and publicize issues and problems related to development and management of marine fisheries. MFS also addresses research and education needs associated with biological, economic, social, and other aspects of marine fisheries.

Through the MFS Newsletter, and web page, the Section:

- encourages and facilitates the exchange of knowledge and ideas
- updates members on current research, issues, publications, and meetings
- communicates Section and AFS business and concerns

The Section also fosters the exchange of knowledge and ideas through:

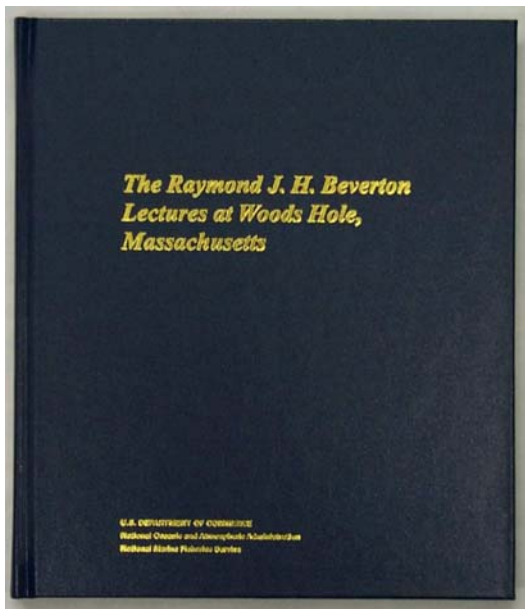
- organizing meetings/symposia usually at the AFS Annual Meeting
- publishing conference and symposia proceedings
- ad-hoc committees created to comment on specific issues

To facilitate communication among members the Section provides a periodically updated membership directory.

AFS - Catch of the Day

New Books from AFS-MFS:

- **The Raymond J. H. Beverton Lectures at Woods Hole, Mass.**
- Three Lectures on Fisheries Science Given May 2-3, 1994. (2002)
- Edited by E. D. Anderson. Hard bound in dark blue imitation leather with gold-colored lettering (161 p.)



In May 1994, Ray Beverton presented a series of lectures at facilities of NOAA's National Marine Fisheries Service (NMFS) in Woods Hole, MA; Seattle, WA; Auke Bay and Juneau, AK; La Jolla, CA; Beaufort, NC; and Silver Spring, MD. The three lectures he gave in Woods Hole were videotaped, and have been transcribed and edited in this volume. These lectures are as follows: (1) Man or nature in fisheries dynamics: who calls the tune?, (2) fish populations biology and fisheries research, and (3) reflections on 100 years of fisheries research.

On behalf of the American Fisheries Society's Marine Fisheries Section, copies are available for **\$35 postpaid (in US funds)** from Doug Vaughan, NOAA Center for Coastal Fisheries and Habitat Research, 101 Pivers Island Road, Beaufort, NC 28516-9722. Checks should be payable to: **Marine Fisheries Section AFS**. For orders from Hawaii, Alaska, and outside the US please include an additional \$5.00 for shipping.

For an additional \$10, copies of the softbound volume, "Notes on the Use of Theoretical Models in the Study of Exploited Fish Populations", by R. J. H. Beverton, will be provided with the above volume. This latter book developed from a series of lectures from a course taught by Professor Beverton in Beaufort, NC, in 1951, and was published by the AFS Marine Fisheries Section in association with his tour of NMFS laboratories in May 1994.