

National Shellfisheries Association

QUARTERLY NEWSLETTER



POST MEETING / EARLY SUMMER 1999

ST. JOHN'S, NEWFOUNDLAND

President's Inaugural Message

It is certainly my pleasure to be able to serve as President of the National Shellfisheries Association. Knowing that NSA has been in existence for more than nine decades, and has been led by many legendary shellfish scientists and managers, I am certainly honored (and most humbled) to be elected. I particularly wish to thank George Abbe for the wonderful job he did as NSA President last term, and for his sage advice and guidance while I was President-Elect. (I just hope he will continue to let me pick his brain!)

It is an exciting time to be involved in NSA. Membership continues to grow - we now have some 890 members from around the world. Information technology continues to change at a rapid rate - and NSA is attempting to harness its potential as we expand our capabilities to serve the NSA membership more efficiently and effectively. And, of course, the need for credible scientific and policy information that addresses the management and conservation of the world's shellfish resources is more important now than ever. There is a lot to be done!

That leads me to you. NSA is always seeking out members who would like to become more formally involved in NSA activities. As you know, there are a number of folks who have volunteered their time and effort for many years to make NSA the great (= informal, informative, fun) organization it is today. Please consider volunteering in some capacity; we have a number of standing committees that need additional members, for instance. Just let a member of the EXCOM or a Committee know that you are interested - you will soon appreciate the efforts of those who preceded you and will be gratified to know that you have contributed to the goals of the NSA.

I am sure we all agree that NSA-Halifax was extremely successful. Thanks go out to the many folks who contributed their time and energy to the 91st NSA meeting - but special acknowledgements go to Evan Ward for organizing an extremely invigorating program and to Jay Parsons for doing a masterful job in handling local arrangements. And, on behalf of the NSA and its members, I wish to thank the Nova Scotia Department of Fisheries and Aquaculture for their generous contribution to the meeting.

As you know, the annual elections were recently held and the results were based on 233 ballots cast by the membership. (Actually, one ballot had to be thrown out because that particular NSA member voted for EVERYONE on the ballot!) I want to congratulate the following officers for the 1999-2000 term: J. Evan Ward as President-Elect, Chris Langdon as Vice President, Carolyn Friedman as Secretary, Dan Kreeger as Treasurer, and joining Gef Flimlin and Lou D'Abramo as a Member-at-Large is Mark Luckenbach. Lisa Milke will be serving as *The Recruits* contact.

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Student Research Grant

The National Shellfisheries Association is pleased to announce the call for applications for the annual **Melbourne R. Carricker Student Research Grant**. This grant is named in honor of one of NSA's most distinguished past Presidents and the person who formalized the regular publication of the society meeting notes as the "Proceedings of the National Shellfisheries Association". This is a competitive grant program to which NSA student members can apply for a \$1,000 grant for non-travel related expenses associated with undertaking their Master's thesis or Ph.D. dissertation research. Application details are given elsewhere in this newsletter, and proposals must be received by **September 30, 1999**. Funding for this program comes from the general revenues that NSA obtains from annual dues and meetings and not from the *Student Endowment Fund*.

George Abbe

In this issue:

- **Meeting Report - NSA'99**
- **Carricker Student Grant**
- **Wallace Award -1999**
- **Conference**
- **Announcements**
- **The Recruits**

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NSA is also fortunate to have a very involved membership, and our committee chairs certainly reflect true commitment and initiative. Serving the NSA as committee chairs are: Steve Tettlbach and George Abbe - Audit-Budget-Finance; George Abbe - Presidents, Elections, and Awards; Maureen Krause and Aswani Volety - Endowment/Student Awards; Mark Luckenbach - Resolutions; Chris Langdon - Conference Program; Mike Castagna - Publications; Dave Bushek - Membership; Joth Davis - Industry; and Scott Siddall and Karolyn Mueller Hansen - Web Site.

I am especially pleased that Dr. Mel Carriker will continue his work in documenting the origins, evolution and growth of NSA in his capacity as NSA historian. John Ewart has agreed to assist Mel in preparing a document on the history of NSA, and Susan Ford has offered to write a section on the involvement and contributions of women in NSA. Word has it that serious work on the manuscript should begin this year.

Speaking of publications, I would be remiss if I did not acknowledge the many significant contributions of Sandy Shumway to the NSA, including her efforts to make the *Journal of Shellfish Research* a true world-class journal. Five great issues of the JSR were published last year, three of which were special issues. Look for more impressive issues this year!

You will see in the upcoming months many improvements to the NSA web site. If you have not visited it yet, you should (at www.shellfish.org). The indices for all issues of the *Journal for Shellfish Research* are already available, and plans are to add additional features such as an Industry page and a "FAQ" page. Karolyn Mueller Hansen and Scott Siddall have joined forces to improve the delivery of information and services to all NSA members through our web site.

We are also excited about our next NSA meeting - the 92nd meeting of the National Shellfisheries Association will be held in Seattle, Washington on March 19-23, 2000. Planning is well underway, with Ken Chew and Joth Davis serving as local arrangements co-ordinators, and Chris Langdon handling the program. We encourage you to start thinking about submitting topics for special sessions and workshops. See the article elsewhere in this newsletter for more information.

Please feel free to contact anyone on the EXCOM, or on any of the NSA Committees, if you have any ideas, thoughts, or suggestions, or would like to volunteer to serve, to make the National Shellfisheries Association an even better organization than it already is.

Thanks for the opportunity to serve. And I'll see you in Seattle (if not sooner)!

Rick DeVoe
President

Halifax 1999 Meeting

Now that the hot weather has set in, I'm sure that we are all dreaming of those cool April days in Halifax when we last met. The 91st annual meeting in Halifax was attended by 210 people. Highlights of the meeting included a plenary session by David Aiken on the science of relevance, a number of special invited sessions, and a forum on research and the shellfish industry. Sandra Shumway's Student Endowment Fund Auction raised \$1,040 US and we particularly enjoyed Sandy's "molting" display. I think we will all agree that the quality of talks and posters continues to be high at our annual meetings, including those presented by our student members. Overall, the Power Point presentations worked well. Certainly there were a few glitches, but these will diminish in the future as we all become more familiar with this new technology. Special thanks are extended to all those who helped organize and run the meeting, especially Jay Parsons and the local arrangements committee. Your choice of a hotel was great and the President's Reception superb!

Next year's meeting will be held in Seattle, WA. I urge members who have comments or suggestions about the meeting or program to contact Vice President Chris Langdon. I'm sure that Chris will be looking for people with ideas for contributed and invited sessions. So become involved and help make next year's meeting as fun and as stimulating as Halifax '99!

Evan Ward
President-Elect



Sandy "The Lobster" Shumway

RESOLUTIONS

OF THE 91st MEETING OF THE

NATIONAL SHELLFISHERIES

ASSOCIATION

WHEREAS, The National Shellfisheries Association, Inc. (NSA) is a not-for-profit corporation, and, **WHEREAS**, members serve as officers and committee members on a voluntary basis, **BE IT RESOLVED** that on 21 April 1999, The National Shellfisheries Association formally recognizes and thanks the Nova Scotia Department of Fisheries and Aquaculture for welcoming remarks and a \$2,000 donation for the President's Reception at the 91st meeting of The National Shellfisheries Association in Halifax, 18-22 April 1999.

WHEREAS, The National Shellfisheries Association, Inc. (NSA) is a not-for-profit corporation, and **WHEREAS**, members serve as officers and committee members on a voluntary basis, **BE IT RESOLVED** that on 21 April 1999, The National Shellfisheries Association formally recognizes and thanks Jay Parsons for taking over control of editing and managing the *NSA Newsletter* in a seamless transition. And for the outstanding handling of local arrangements for the 91st meeting of The National Shellfisheries Association in Halifax, 18-21 April 1999.

WHEREAS, The National Shellfisheries Association, Inc. (NSA) is a not-for-profit corporation, and **WHEREAS**, members serve as officers and committee members on a voluntary basis, **BE IT RESOLVED** that on 21 April 1999, The National Shellfisheries Association formally recognizes and thanks Scott Siddall for countless hours keeping our software up-to-date, for looking into many different software

packages for association management, for vastly improving the look and function of our website, and for helping Karolyn Mueller Hansen learn and manage it.

WHEREAS, The National Shellfisheries Association, Inc. (NSA) is a not for profit corporation, and, **WHEREAS**, members serve as officers and committee members on a voluntary basis, **BE IT RESOLVED** that on 21 April 1999, The National Shellfisheries Association formally recognizes and thanks Sandy Shumway for continued excellence in editing and producing The National Shellfisheries Association's *Journal of Shellfish Research* which had a record five issues for volume 17.

WHEREAS, The National Shellfisheries Association, Inc. (NSA) is a not-for-profit corporation, and, **WHEREAS**, members serve as officers and committee members on a voluntary basis, **BE IT RESOLVED** that on 21 April 1999, The National Shellfisheries Association formally recognizes and thanks Evan Ward for the outstanding job he did as treasurer for two years, one year as Vice-President and Program Chair for the 91st meeting of the National Shellfisheries Association in Halifax, 18-22 April 1999.

WHEREAS, The National Shellfisheries Association, Inc. (NSA) is a not-for-profit corporation, and, **WHEREAS**, members serve as officers and committee members on a voluntary basis, **BE IT RESOLVED** that on 21 April 1999, The National Shellfisheries Association formally recognizes and thanks Karolyn Mueller Hansen for dedication to continued improvement of the website by developing new ways the site can serve membership, for uploading current information and by developing searchable tables of contents for the *Journal of Shellfish Research*.



Chef Shawn Robinson cooking up sea urchin roe at the President's Reception.



Treasurer Dan Kreeger and Karolyn Mueller Hansen at the Student Endowment Fund Auction.

Call For Special Session Topics **- NSA 2000 Meeting, Seattle**

A call for special session topics for the next NSA meeting in March 19-23, 2000 at the Crown Plaza Hotel, Seattle WA.

Planning the next NSA meeting has started and I would welcome ideas for special session topics focusing on current important issues and research activities. Papers presented in these special sessions may either report new findings, new perspectives or review existing knowledge and understanding of the subject. Typically you will need ten 20 minute talks to fill a morning or afternoon session.

The following special sessions have already been identified:

Shellfish health

(organizer: Ralph Elston – aquatech@olypen.com)

Shellfish genetics and breeding

(organizer: Dennis Hedgecock – dehedgecock@ucdavis.edu)

Education

(organizer: Teri King – guatemal@u.washington.edu)

As an alternative to standard oral presentations, I would also like any ideas you may have in setting up forums to discuss current issues among academics, state/federal agencies and industry.

Forums are planned to be held on technology transfer (Joth Davis – jdavis@wolfenet.com) as well as shellfish culture and habitat for endangered species (Dan Cheney – cheneydp@compuserve.com and Bill Dewey – bdewey@olywa.net).

If you would like to organize or have an idea for a special session or forum, please contact me at chris.langdon@hmsc.orst.edu or by telephone (541-867-0231) or FAX (541-867-0105).

Looking forward to seeing you all in beautiful Seattle!

Chris Langdon
Vice President



NSA History

Dr. Melbourne Carriker, NSA Historian, is compiling a history of the National Shellfisheries Association. Mel is asking for any material or information relevant to past people, meeting places, and activities. In particular old programs, reports (published and informal), papers and letters related to NSA historical activities. Material on the interaction between NSA and OGDAs would be especially welcome. Please contact Dr. Carriker at phone 302-645-4274 or send material directly to Dr. Melbourne R. Carriker, College of Marine Studies, University of Delaware, Lewes, DE 19958.

Metamorphoses

- After pursuing a National Research Council Post-Doc at the US EPA lab in Gulf Breeze Dr. Aswani Volety has accepted a position as Assistant Professor, Environmental Sciences at the Florida Gulf Coast University in Ft. Myers, FL.

- Dr. Maureen Krause is also on the move. She has accepted a posting at the Department of Biological Sciences, Mary Washington College in Fredericksburg, Virginia.

- Lorelei (Levy) Grecian has completed her M.Sc. in Aquaculture at Memorial University of Newfoundland. Her thesis was entitled "Growth rates and recovery of hatchery-reared sea scallop *Placopecten magellanicus* spat under a variety of nursery conditions". Lorelei is currently working on a scallop enhancement project with the Department of Fisheries and Oceans in Moncton, NB.

NSA Students - JSR

Remember that NSA students have no page charges when publishing in the *Journal of Shellfish Research*!

Journal of Shellfish Research

Dr. Sandra Shumway, Editor, JSR is looking for volunteers to review papers submitted to the *Journal of Shellfish Research*. If you are interested in helping out and can provide timely reviews, please contact Sandy at the address on the back page.

Application details for the Melbourne R. Carriker Student Research Grant

General Rules:

Proposals will be reviewed by the NSA Awards Committee, which is an NSA standing committee chaired by the immediate Past-President. Notification of the successful applicant will be made by December 31, 1999.

The applicant must be a student member in good standing of the National Shellfisheries Association and currently enrolled as a MS or Ph.D. student in a recognized degree granting institution anywhere in the world. Students who have previously been awarded a Carriker Research Grant are not eligible to apply again. Grants will be made in the form of a check made personally payable to the recipient and no institutional overhead can be charged on these funds. The \$1,000 is designed to allow a student to purchase supplies and equipment essential to performance of their research. It is neither intended to allow purchase of general items, such as computers, nor to fund travel expenses associated with attending Professional Meetings. Students seeking travel support to attend NSA meetings should apply separately for money made available through the NSA Students Awards Committee. It is expected that students who are recipients of the Carriker Grant will present results of their research at one of the annual NSA meetings.

A completed application will consist of the following four components:

1. Cover sheet with the applicants name, professional address, phone number, email address, thesis title, degree being sought (MS or Ph.D.), date they entered the graduate program, and anticipated graduation date.
2. Text. Maximum of two pages single spaced 12 pt font plus one page for figures (if needed). This should include an introduction to the research problem being addressed and the objectives and hypotheses being tested. There should be a clear statement of how the funds being requested will further the student's research project. Literature cited section is not included in this page limit.
3. Budget page briefly itemizing how the \$1,000 being requested will be spent (e.g., \$150 for scintillation vials, \$200 for scintillation cocktail, \$120 disposable safety supplies, etc.).
4. A resume listing educational background, awards/honors, presentations at meetings, and publications.

5. A letter of endorsement from the student's major advisor must be attached at the back of the proposal confirming that the funds are necessary for the student's research.

Five copies of the application should be sent to reach the following address by **4 p.m. on September 30, 1999**. No faxed, electronic, hand written or late proposals will be considered.

Mr. George R. Abbe, Chair NSA Awards Committee
Academy of Natural Sciences
Estuarine Research Center
10545 Mackall Road
St. Leonard, MD 20685

National Research Council of Canada Donation to SEF

A special note thanks to the the **National Research Council of Canada – Institute of Marine Biosciences** (Halifax, Nova Scotia) for donating \$2000 to the *Student Endowment Fund* to assist students with travel to future NSA meetings!

Student Endowment Fund Annual Auction

Thanks to the many people who donated items to this year's highly successful auction in aid of the *Student Endowment Fund*. Here are some of the many people who donated items: George Abbe, Gef Flimlin, Karolyn Hansen, South Carolina Sea Grant, Maureen Krause, Inke Sunila, Walter Smith, World Aquaculture Association, Leroy Creswell, Greg Rivera, Chris Davis, Kim Harrison, Swamper Product Inc., Crawdad's Restaurant, Jay Parsons, Maryland Waterman's Association, Roger Mann, Carter Newell, Evan Ward, Bill Fisher, Nelson Marshall, Mel Carricker, Fu-Lin Chu, Joth Davis, Bill Green, Grant Stentiford, Dot Leonard, Rick Karney.

Start collecting your goodies now for Seattle!!!



Student Awards

Students once again made a strong showing at the Halifax meeting, with 34 students presenting papers and competing for the Thurlow C. Nelson award, and 9 students presenting posters. The quality of the student talks was impressive, but after lively and difficult deliberations, Aswani Volety and Maureen Krause, co-chairs of the Student Awards Committee, presented the Nelson Award to William C. Walton, Smithsonian Environmental Research Center, for his paper entitled "Mitigating predation by the European green crab, *Carcinus maenas*, upon publicly maricultured quahogs, *Mercenaria mercenaria*." Honorable Mention was awarded to Gregory S. Bacon, Gulf Fisheries Centre, Moncton, for his talk, "Quahog parasite X ("QPX") of hard shell clams, *Mercenaria mercenaria* and *M. mercenaria* var. *notata* in Atlantic Canada - observations from wild and cultured clams." Grant D. Stentiford, University of Glasgow, Scotland, won the Best Poster Award for his work "Infection by the dinoflagellate parasite *Hematodinium* of the Norway Lobster (*Nephrops norvegicus* L.) off the west coast of Scotland, United Kingdom." Congratulations everyone!

One of NSA's greatest strengths is its commitment to encouraging student participation in the Society and its annual meetings. Due in large part to Sandy Shumway's vision, NSA established the *Student Endowment Fund* in 1989 in order to alleviate some of the financial burden for students who wish to

present their research at NSA meetings. This year the Fund helped to provide either free room and/or registration to a total of 21 students. Receiving SEF awards were: John Buchanan, Lisa Bramble, Anne Venoit, Grant Stentiford, William Walton, Soledad Penna, Lisa Milke, Jacques Oliver, Cathleen Coss, Suzanne Dufour, Gwynne Brown, Sue Schreiber, Chiara Romano, Tracy Vassiliev, Kim Stowell, Nature McGinn, Whitney Chandler, Miranda Pryor, Melissa Mooney, Gina McNeil, and Nicole Brun.

Increased student participation in NSA meetings makes judging their applications for Endowment Awards and presentation awards all the more difficult, so a great deal of thanks are due to those volunteers who committed so much time and effort on behalf of our society: Carolyn Friedman, Fu-Lin Chu, Jeff Shields, Dave Bushek, Bill Fisher, Dan Kreeger, Sandy Shumway, Ami Wilbur, Fred Genthner, Roger Newell, Karolyn Mueller Hansen, Tom Soniat, Jerome La Peyre, Gef Flimlin, Lou D'Abramo, Chris Duggan, Michael Rice, Rick DeVoe, Cyr Couturier, Paul Rawson, Dot Leonard, Tim Scott, Monica Bricelj, Maureen Krause, and Aswani Volety. Many apologies if we omitted anyone.

The quality of the student presentations at Halifax, active participation by students in various meeting activities, and tremendous effort of NSA members who support our students bodes well for the future of NSA.



Student Award Winners: Past-President George Abbe, William Walton, Gregory Bacon, Grant Stentiford, Dr. Aswani Volety (Co-Chair, Student Awards Committee), Dr. Maureen Krause (Co-Chair, Student Awards Committee).

Recruits Corner

Attention Students:

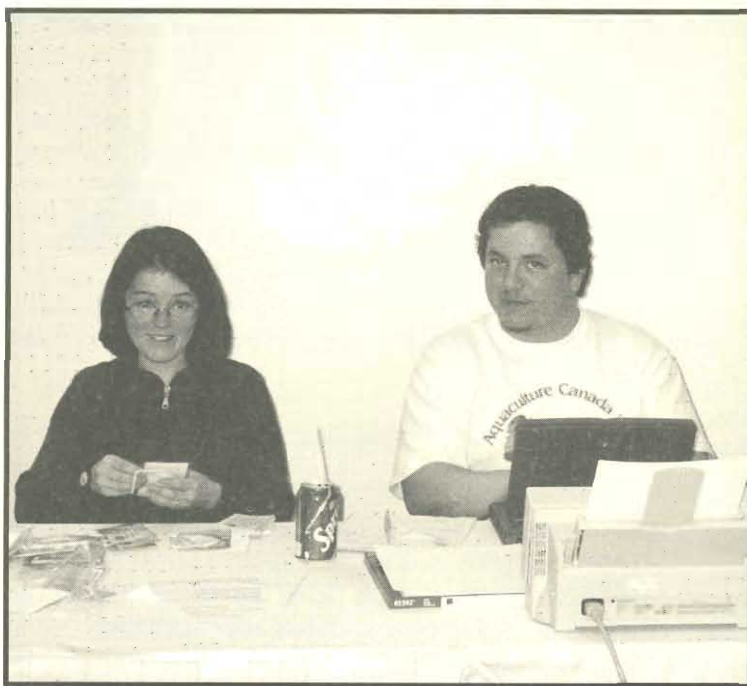
For those unaware, student members of NSA are referred to as *The Recruits*. After the last NSA meeting in Halifax, a student committee was formed to organize *The Recruits* for the coming year. Our role is to inform the students via the *NSA Newsletter* and web site, to increase student involvement in NSA and to respond to any NSA student needs. I would like to take a moment and introduce the members of the 1999 Recruits Committee and tell you about our role in NSA. The committee consists of Lisa Milke at the University of Connecticut (lisa.milke@uconn.edu), Suzanne Dufour at Scripps/UCSD (sdufour@usc.edu), Grant Stentiford at the University of Glasgow (9707223s@udcf.gla.ac.uk) and Bill Walton at the University of Maryland/Smithsonian (billy5@altavista.net).

The 1999 committee has taken on several responsibilities. Bill Walton has organized the student section of the NSA web page. This web page, soon to be up and running, will contain several sections. First, there is going to be a student forum on the web site. This is a place for ongoing internet discussions concerning shellfish research and student related issues. Second, there is going to be a Metamorphoses section that will highlight recently graduated students. So if this is you please contact Lisa Milke so that your information (photo, CV, plans for the future, etc.) can be posted. Third, we are going to include letters from overseas as an attempt to get international students

more involved in the organization. If you are an international student and would like to contribute, please send your letter to Grant Stentiford. Next, there is an In Hindsight section where you can post stories of what you would change in your research if you had to do it all over again. This way you can prevent other students from making mistakes you may have made. Please forward this information to Bill Walton. And finally, there will be an After Hours section which will consist of any photos of meetings, travel, fun or research you might want to include. Any information for this section can be sent to Suzanne Dufour. If there is anything else related to the web page that you would like to be included, or if you have any questions contact Bill Walton. He is serving as the student web page organizer and will be able to help you out.

On top of this we are trying to compile a complete list of student email addresses. Several emails have been sent out from Bill Walton concerning the recruits. If you didn't get any of these emails, that means we don't have your email address. Please forward it to Lisa Milke so you can be added to the list.

Finally, Lisa Milke is serving as the general contact person for the recruits. If you have any questions concerning NSA please do not hesitate to contact her. If she can not help you, chances are that she can put you in contact with someone who can. Her contact information is located on the back page of the newsletter.



NSA '99 Registration Desk: Lorelei, Dedrick and Christopher all gave a helping hand in running the registration desk at the Halifax meeting.

1999 David A. Wallace Award

Dr. Jay D. Andrews earned his Ph.D. in Zoology at the University of Wisconsin in 1946. That same year he obtained a position at the Virginia Fisheries Laboratory, the precursor to the Virginia Institute of Marine Science.

Dr. Andrews conducted research on oyster reproduction and diseases for 37 years before retiring in 1983. He has over 100 scientific publications and his contributions to the science and management of oysters and oyster diseases are unprecedented.

Dr. Andrews conducted fundamental research on oyster settlement patterns in Chesapeake Bay and related these patterns to physical dynamics of the various tributaries. He recognized the importance of small coastal plain estuaries such as the Great Wicomico River and suggested early on that resource managers should manage them strictly as seed oyster areas because of their consistent set.

His pioneering research on Chesapeake Bay oyster diseases, Dermo and MSX, established a solid knowledge base for development of management strategies to avoid losses from these diseases. His research always emphasized field ecology and was always focussed on acquiring knowledge on the basic biology of the pathogens and their impact on the fishery. Almost single-handedly he determined the distribution of the two pathogens and their general seasonal patterns of mortality in lower Chesapeake Bay. He also acquired critical knowledge on salinity tolerance and transmission dynamics. Dr. Andrews recognized the value of routine monitoring for advising industry and management agencies and he established disease monitoring programs in Virginia that are still underway.

Dr. Andrews worked closely with industry, especially the large private oyster planters, and effectively translated his knowledge of pathogen ecology into management strategies to avoid or reduce losses from disease. He also advised the Virginia Marine Resources Commission on strategies for planting shell and moving seed oysters for replenishment efforts. These strategies, many of which are still utilized today, allowed continued harvest in the face of disease and were the basis for a robust oyster industry for almost three decades during the 1960s through 1980s.

Because of his pioneering oyster research and his ability and desire to translate his knowledge into management strategies, Dr. Andrews laid the groundwork for continuing cooperation among scientists, managers and industry in Virginia. For his significant contributions in promoting such cooperation for the benefit of shellfisheries, the National Shellfisheries Association is proud to honor Dr. Jay D. Andrews with the David A. Wallace Award.

Dr. Gene Burreson

Read by Dr. John Krauter at the 91st NSA Annual Meeting

New Publication

Health Management, Development and Histology of Seed Oysters

A publication of the World Aquaculture Society

By: Dr. Ralph Elston, Pacific Shellfish Institute

Production of healthy shellfish is key to the economic viability of intensively farmed bivalves and is also a fundamental need for the conservation of natural and extensively farmed shellfish growing areas. With the continuing global development of intensive production technology for molluscs, there is an urgent need to apply the concepts of health management. This book will assist in achieving the goals of efficient oyster production by minimizing morbidity and mortality, obtaining an optimal growth response, high survival potential for outplanted shellfish seed and preventing the dissemination of infectious shellfish diseases. The rationale for the book is to provide a basis for systematic diagnosis, and thus management, of oyster larval and seed diseases.

The book contains a detailed description of development and anatomical structures of the oyster in the sequential stages from larva, through metamorphosis, early juvenile and late juvenile stages. This includes many micrographs showing the development of oysters which are supplemented by line drawings of key stages of development. The second section of the book is a detailed description and guide for the diagnosis of known diseases of larval and juvenile oysters. The linkage of the normal anatomical treatment with disease diagnosis is a logical link which will greatly increase the utility and appeal of the book. The section of the book describing microscopic anatomy of late stage seed oysters provides a handy and concise reference that is useful for studies of adult oysters as well as for early life stages. Sections on techniques cover necropsies, fixatives, sample shipping and general diagnostic methods. This book will be useful to shellfish biologists, students of shellfish biology, bivalve hatchery and nursery managers, resource managers, and, of course, those individuals specifically engaged in the practice of health management and disease diagnosis.

Ordering information: Price \$55. (Non-WAS members) or \$45 (WAS members)

Checks or money orders to be made payable to the WORLD AQUACULTURE SOCIETY. VISA, MASTERCARD, AMERICAN EXPRESS, JCB, DINER'S CLUB or DISCOVER bankcards are accepted and encouraged.

Send name and shipping address and payment information to: World Aquaculture Society, 143 J.M. Parker Coliseum, Louisiana State University, Baton Rouge, LA 70803 USA
email: WASMAS@aol.com; FAX +1-225-388-3493; TEL: +1-225-388-3137

From the Newsletter Editor...

As with any great meeting, the work and effort of the many volunteers' contributes to its success. The NSA '99 Halifax meeting was no exception. I want to thank the many people who help me out with the local arrangements. In particular, Sharon Ford (and Christopher) for handling registration, badges and the database, Lorelei and Dedrick Grecian, Steve Allen, Miranda Pryor, Melissa Mooney, Sean MacNeill, Kelly Moret, Cyr Couturier, Gina McNeil, Chris Brown, Eddy Kennedy, Chef Shawn Robinson, Chris Pearce, Brian Dobruck, Jon Grant, Ellen Kenchington, Karolyn Mueller Hansen, Fiona Harper, Paul Smith, Monica Bricelj, Greg Bacon, Keith Butler, John Tremblay, Andrew Bagnal, Leo Muise, Bruce MacDonald, Autumn Heinze, NS shellfish producers, and the staff at the Westin Nova Scotian.

Jay Parsons

Ken Chew's (now) Famous Chinese Banquet, Halifax 1999

Once again Ken Chew out did himself with his selection of the restaurant and menu for the Chinese Banquet in Halifax. Eighty people attended this annual event which is always full of fun and surprises! Thank you Ken for your continued efforts in organizing this event which has now become a NSA tradition. Well done!

New Home Page Address

Synopsis of Infectious Diseases and Parasites of Commercially Exploited Shellfish

<http://www.pac.dfo-mpo.gc.ca/sci/sealane/aquac/pages/title.htm>

Recruited by? _____

How to Join the National Shellfisheries Association

Fill out and mail a copy of the application blank below. The dues are US \$45.00 per year (\$25.00 for students) which may be paid by credit card, check, or money order. Membership entitles you to receive *The Journal of Shellfish Research* and the *Quarterly Newsletter*!

NATIONAL SHELLFISHERIES ASSOCIATION - APPLICATION FOR MEMBERSHIP (NEW MEMBERS ONLY)

Name: _____ For Calendar Year: _____ Date: _____

Mailing Address: _____

Institutional Affiliation, if any: _____

Phone: _____ Fax: _____ Email: _____

Shellfisheries interests: _____

Regular or Student membership? _____

Student members only - Advisor's signature REQUIRED

If paying by credit card: _____ Type of card: VISA MASTERCARD (circle one)

Name on card: _____ Signature: _____

Expiration Date: _____ Number: _____

Make checks (MUST be drawn on a US bank) or international postal money order for \$45.00 (\$25.00 for students with advisor's signature) payable to the National Shellfisheries Association and send to Ms. Nancy C. Lewis, NSA Bookkeeper, P.O. Box 350, VIMS Eastern Shore Lab, Wachapreague, VA 23480 USA.

Audit-Budget-Finance Annual Report – 1999

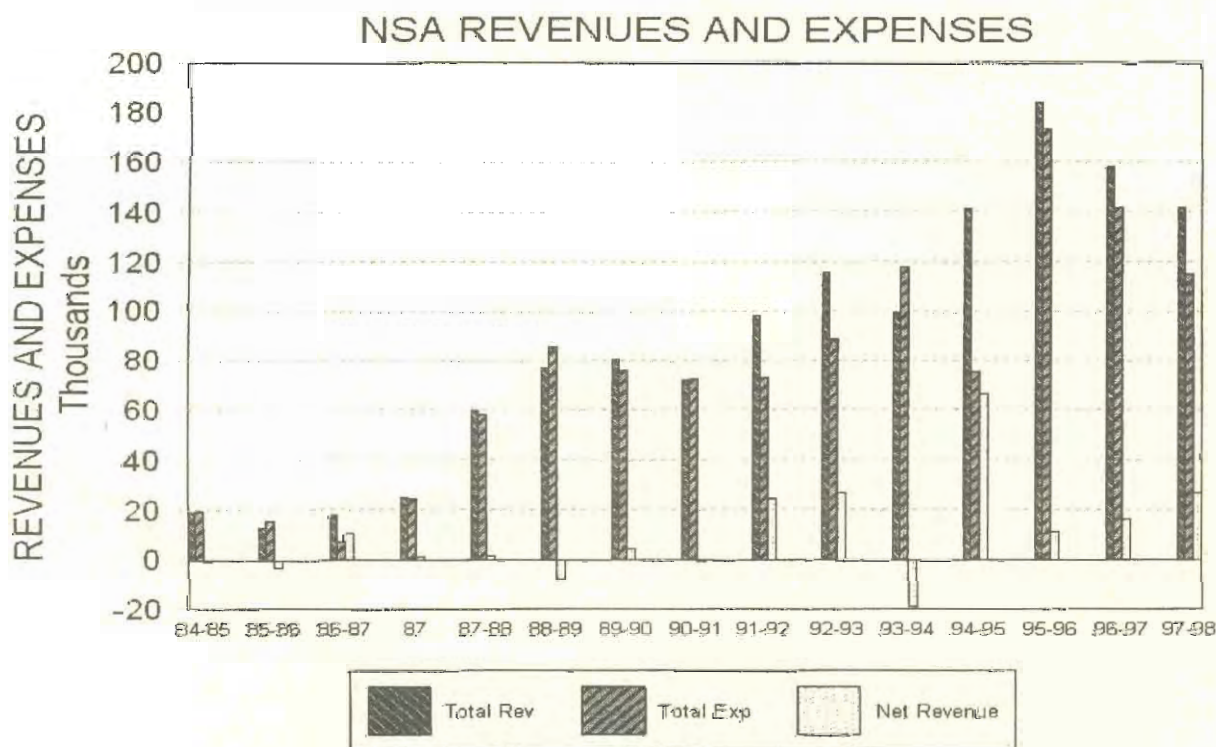
The Audit-Budget-Finance Committee works with and oversees the financial activities of the treasurer, assists in preparation of budget proposals, and reviews the balance sheets when the books are transferred to a new treasurer. The review of the 1997-98 financial ledgers was completed; there do not appear to be any material modifications which are necessary to this ledger report. As summarized in more detail in the Treasurer's report, during FY 1997-98 NSA realized a net increase of \$27,680.01 over the balance reported at the end of FY 1996-97. This was a significant increase, due in large part to proceeds from the successful Aquaculture '98 meeting. The NSA Main Account, as of the end of FY 1997-98, had a balance of \$178,801.66.

A-B-F assisted new treasurer Dan Kreeger in the preparation of the 1999-2000 budget, which is included in the Treasurer's report submitted to the EXCOM. Due to a recent increase in

the number of special issues of the *Journal of Shellfish Research* that have been published, and the prospects of additional special issues in the near future, the budget is perhaps more tentative than past budgets. The 1999-2000 budget anticipates a net increase of \$8950, which is in keeping with recent budget projections for years in which a triennial meeting will not be held.

A summary of trends in expenses and revenues generated by NSA activities in the last 14 years is included below. I thank George Abbe for his efforts in this regard.

Stephen T. Tettelbach,
A-B-F Co-Chair



NSA gross revenues and expenses from 1984 to 1998 showing net gains or losses.

Upcoming Meetings

Aquaculture Europe '99: August 7-10, 1999, Trondheim, Norway. For information contact EAS Secretariat at phone +32 59 323859, fax +32 59 321005, email eas@unicall.be or website www.easonline.org.

IV Congreso Latinoamericano de Malacología, COCLAM (IV Latinoamerican Congress of Malacology): September 6-10, 1999, Universidad Católica del Norte, Coquimbo, Chile. For more information contact Chita Guisado, IV clama@nevados.cecun.ucn.cl (Languages: spanish and portuguese).

International Pandalid Shrimp Symposium: September 8-10, 1999, Halifax, Nova Scotia, Canada. This conference is cosponsored by NAFO, ICES and PICES. Participants are encouraged to submit papers on environmental and ecological influences, stock assessments and associated research, management strategies, and harvesting, processing and marketing. For more information contact Peter Koeller at phone (902)426-5379, fax (902)426-1862, email Koellerp@mar.dfo-mpo.gc.ca, or website <http://www.mar.dfo-mpo.gc.ca/shrimp/>

Third International Lobster Congress: September 21-24, 1999, Adelaide, South Australia. For further information, contact website www.rocklobster.org.au, email kraymond@gazebo.os.com.au or phone +61 (8) 8272 7766.

Third International Conference on Shellfish Restoration: September 29-October 2, 1999, Jury's Hotel, Cork, Ireland. Contact Dr. Gavin Burnell for program information at g.burnell@ucc.ie.

Aquaculture Canada '99: October 26-29, 1999, Victoria, British Columbia, Canada. The Aquaculture Association of Canada's annual meeting will be held at the Victoria Conference Centre. Meeting will be held in conjunction with the Pacific Aquaculture Exchange trade show. Abstract deadline is August 31, 1999. For more information contact Linda Townsend, phone 250-741-8708, fax 250-755-8749, or email townsdl@mala.bc.ca.

Marketing Live Aquatics 1999: November 14-17, 1999, Seattle, Wa. For information on the 2nd International marketing and shipping live aquatic conference, see www.alaska.net/~mpaust.

Fourth International Abalone Symposium: February 6-11, 2000, University of Cape Town, South Africa. Final date for abstract submission is August 31, 1999. For more information contact Peter Cook or Ken Findlay, phone/fax +27-21-6503283, email cms@phisci.uct.ac.za or website www.ab2000.org.za.

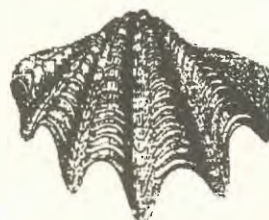
Conference on Aquaculture in the Third Millennium: February 21-25, 2000, Bangkok, Thailand. For more information, contact conference secretariat at naca@fisheries.go.th or website www.fisheries.go.th/naca.

National Shellfisheries Association 92nd Annual Meeting: March 19-23, 2000, Crown Plaza Hotel, Seattle Wa. For program information contact Dr. Chris Langdon at address on back page. More details in next *NSA Newsletter*.

Aquaculture Canada 2000: May 27-31, 2000, Moncton, New Brunswick, Canada. The Aquaculture Association of Canada's millennial meeting will be held at Hotel Beausejour. For more information contact Dr. Andrew Boghen, phone 506-858-4321, fax 506-858-4541, email boghena@umoncton.ca.

Third International Conference on Molluscan Shellfish Safety: June 19-24, 2000, Southampton College, Long Island University, Southampton, New York. Deadline for abstract submission is December 31, 1999. For more information or those wishing to organize a session, contact Dr. Sandra E. Shumway, Natural Science Division, Southampton College, Southampton, NY 11968 (contact numbers on back).

If you know of any meetings, conferences or workshops that might be of interest to NSA members, please contact Jay Parsons at Email: jay.parsons@mi.mun.ca, phone (709)778-0307 or fax (709) 778-0535.



Third International Conference on Molluscan Shellfish Safety

**June 19-24, 2000, Southampton College, Long
Island University, Southampton, New York.**

Deadline for abstract submission is December 31, 1999. For more information or those willing to co-ordinate a special workshop on a topic issue, contact Dr. Sandra E. Shumway, Natural Science Division, Southampton College, Southampton, NY 11968, phone 516-287-8407, fax 516-287-8419, email sshumway@southampton.liunet.edu.

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