

## President's Inaugural Message

It is with much excitement and honor to be able to serve as President of NSA. Given the long history of our organization and the distinguished former Presidents and members, it is indeed a daunting endeavor. I feel doubly honored to be serving, especially as Neil Bourne has been the only other Canadian to serve as President. Big shoes for me to fill!

My first pleasurable task is to thank outgoing Past-President Rick DeVoe for his years of service on the NSA Executive Committee. Rick also did a tremendous job in Chairing the Program Committee for the recent triennial Aquaculture '01 conference in which the NSA was the lead organization. I also want to thank Evan Ward for his efforts in successfully steering NSA through the past year as President. Given the timing of the triennial meetings, it did not make sense for us to publish a separate Winter NSA Newsletter, hence the current combined Winter-Spring issue. Evan has some important parting words for the organization, which are featured in the next article.

Our 93<sup>rd</sup> annual meeting has come and gone and was yet again another successful event. The NSA awarded John Hurst the 2001 David A. Wallace Award. And a very surprised Sandra Shumway was awarded NSA's Honored Life Member Award. I believe it may have actually been the first occasion where Sandy was at a loss for words! Mel Carricker's wonderful speech is included herein. Congratulations are also extended to the awardees of the NSA student presentation awards and thanks to the volunteers who helped out at the NSA booth and auction.

I want to congratulate and welcome the newly elected officers to the NSA Executive Committee. Dan Kreeger is President-Elect, Carolyn Friedman Vice President, Dave Bushek Treasurer, Karolyn Mueller Hansen Secretary and Loren Coen is the new Member-at-Large. The following have agreed to serve on the various NSA Committees: Evan Ward is chair of the Election Committee, President's and Awards Committee, and Arrangements Committee (2002),

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## Past-President's Message

It was a pleasure to see so many NSA member at Aquaculture 2001. I think everyone will agree that it was a fantastic meeting. I would like to congratulate incoming President Jay Parsons and all of the new Executive Committee members and wish everyone best of luck in the upcoming year. As this is my final message, I would like to give you my thoughts concerning what you, the members of NSA, can do to help strengthen our association. During the past six years I have been a member of the Executive Committee serving NSA in various capacities, and I have noticed several reoccurring problems that all members can help improve. Some of these are outlined below.

1. Increase member participation. Any association is only as good as its members make it. NSA is no different and often lacks for members who are willing to serve on, or chair the various committees that make NSA work. The reality is that we are all very busy, but if NSA is important to you then you need to be willing to make a commitment to help run the association. Members can volunteer to organize a session at an annual meeting; become a member of, or chair a standing or ad hoc committee; or even help build membership or strengthen ties to industry affiliates (see below). Becoming involved in any of these activities will help ensure that NSA continues to grow and improve in the future.

2. Increase membership. Over the past six years, NSA membership has fluctuated around 900 individuals. While this is a healthy number of members, we could be doing much

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- ***Honored Life Member Award***
- ***Resolutions***
- ***Student Presentation Awards***

## **2001 David A. Wallace Award**

One cannot think about shellfish safety or red tide anywhere in the world without hearing the name John Hurst. On January 22, 2001, John W Hurst, Jr. was presented with the Wallace Award during ceremonies at Aquaculture '01 in Orlando, Florida. He was cited for his outstanding contributions of the past half-century to the shellfish industry and public health.

Born in Bozeman, Montana, John received a degree in Biology (Botany) from Montana State College in 1949 and traveled east where he began employment at the then State of Maine Department of Sea and Shore Fisheries on January 15, 1951. John immediately became involved with shellfish work at what was in those days known as 'the hatchery' working with Bob Dow and Dana Wallace on problems related to quahogs, soft-shell clams, depuration, and even lobster disease and mortality.

When shellfish poisoning due to *Gonyaulax tamarensis* (*Alexandrium tamarense*) made its debut in New Brunswick in the late 1950's, tests in waters Downeast also showed the presence of PSP. John was tapped to begin a monitoring program for PSP in Maine waters. He developed the extensive shellfish toxin monitoring program in use today and which now serves as the gold standard worldwide for other developing programs. The monitoring program is one of the most extensive and comprehensive in the world and assays are run on some 4000 shellfish samples annually — that's over a half million mice in 50 years! John is especially proud of the fact that there have been no cases of PSP in the State of Maine as a result of commercially harvested shellfish during his tenure.

John has served twice as president of the Northeast Shellfish Sanitation Association and has received many awards, most notably, the US Food and Drug Administration Commissioner's Special Citation, a citation from the Canadian Food Inspection Agency, the Maine legislature and most recently Governor Angus King. On January 18th, the conference room at the Maine DMR was packed to capacity for a luncheon honoring John who had just recorded 50 years of employment with the State. I was very sorry to miss that luncheon. I had the great fortune to work with John Hurst for over 10 years and it was he who introduced me to the wonders of toxic dinoflagellates. We had many lively and stimulating conversations about the possible impacts of PSP toxins on shellfish and my new line of work was in place. I still consult him regularly. John is a walking gold mine of information and his phone rings constantly with calls from scientists, fishermen, public health officials from other regions (both state and federal), and concerned citizens. He treats them all the same. While he may at times appear gruff, he has a deep and unshakable concern for both public safety and the shellfish industry and a genuine desire to help people. He is highly respected by scientists and serves as a walking encyclopedia for researchers. I have seen John work

tirelessly, sometimes for up to 18 hours a day for 10 days straight in the summer, not only to ensure public health, but to help the shellfish diggers maintain their livelihood by recommending area closures of shellfish harvest areas to the Commissioner of Marine Resources.

In 1953 he married Nancy Snowman and has 4 children. He also has 2 grandchildren and a charming basset hound whose legs he has tried to shorten further with long daily walks around Boothbay Harbor. Recently dubbed 'the grandfather of red tide', it seems only fitting that a man who has killed over a half million mice in the name of science should be officially recognized in the land of Mickey!

How does one work for one agency for 50 years? John has a survival philosophy: "If you want to do it, just do it! - If you don't, ask permission!". At 74 years of age and still sporting his red suspenders, John shows no signs of stopping — lucky for us!

Sandra E. Shumway

## **One In A Million**

(Editor's Note: the following text is a speech delivery at the opening session of the triennial Aquaculture 2001 conference in Orlando, FL in January 2001)

Those of you who are familiar with the person I am about to introduce, I know you will agree with me that she is quite remarkable, indeed very special. My first reflective conversation with her took place on back seats in an excursion bus taking a group of us from a meeting in Seattle to examine a population of banana slugs in a distant forest.

This scientist is generous, forthright, possesses a ready smile, a hearty laugh, a keen wit, and a sharp mind. Doggedly determined to succeed, she is incomparably organized, and an indefatigable worker, be it in teaching, research, or for her favored NSA. Mollusks and microorganisms provide the basis for her many physioecological contributions to science. Her advanced training has taken her, to among other countries, Wales, New Zealand, and Brazil. She is reassuringly supportive of students, and has been awarded a citation for excellence in teaching. Totally and outspokenly impatient with unfairness and incompetence, be it at institutions of higher learning, or scientific organizations, she bluntly speaks her mind, much to the distress of those upbraided and the benefit of those supported.

Beyond all of this, I venture to suggest that this pool player has found time to do more for the National Shellfisheries Association than any other member in its history: this in her capacity, in

time, as President-elect in 1990-91 then President in 1991-1992, and Editor of the Journal of Shellfish Research starting in 1986 — and also working behind the scenes, encouraging, suggesting, organizing, checking up, sometimes aggressively pushing! As Editor she has brought the JSR to a high level of excellence and international prestige in only a relatively few years. This achievement, and the smooth functioning of the NSA organization itself, has stimulated a gratifying increase in the number of members, many of them from abroad. She is sensitively alert to opportunities that could benefit the Association; and is especially persuasive in encouraging younger members to participate on committees and run for office. The booth that she and her students and colleagues man year after year, as well as her audacious auctioning at our annual meetings provide a welcome focus for good communication and welcome additional income to the NSA treasurer.

There is more. In 1986 NSA became an affiliate sponsor of Aquaculture '86, and in 1989, a full sponsor, thus enjoying an active partnership with the World Aquaculture Society - to the professional and financial advantage of both NSA and WAS.

Because of her dedicated interest and hard work, the teacher to whom I speak, was invited to participate in the WAS organization, now a strong, constructive influence on the significant International Triennial Conference and Exposition, this year composed of the NSA, Fish Culture Section of the AFS, and the World Aquaculture Society.

But beyond all of this, it is her warm outgoing personality, genuine interest in people, and readiness to extend an unselfish helping hand to those in need that has endeared her most to so many of us.

By now you must know of whom I speak. I am honored and pleased, on behalf of the NSA, to present Sandra E. Shumway NSA's highest honorary citation, the NSA Honored Life Member Award!

Melbourne R. Carriker  
College of Marine Studies  
University of Delaware  
January 18, 2001

*Melbourne Carriker, Sandra Shumway and Evan Ward at the opening session of the Aquaculture '01 triennial conference in Orlando, Florida where Sandy was bestowed the NSA Honored Life Member Award.*

## Student Endowment / Awards Aquaculture 2001

Did everyone attending Aquaculture 2001 notice the consistently high quality of the presentations delivered by NSA students? If not, you missed some of the best talks and posters at the conference! For a triennial year, student participation was strong, with seventeen students presenting oral papers, and ten students presenting posters. This year Ryan Carnegie, University of Maine at Orono (now starting his postdoc at Fisheries and Oceans Canada, Pacific Biological Station, Canada) won the Thurlow C. Nelson Award for his talk entitled "Detection of the flat oyster *Ostrea edulis* parasite *Bonamia ostreae* by fluorescent *in situ* hybridization". The Nelson Award carries five years of membership to NSA for the winner. The judges were also extremely impressed by Gwynne Brown's (VIMS) talk "Variation in serine protease gene(s) among *Perkinsus marinus*" isolates, as well as Carl Demetropoulos' (Oregon State Univ.) presentation entitled "Nutritional strategies for enhanced growth of Pacific Dulse *Palmaria mollis* in a land-based culture system". Both of these students earned Honorable Mention Awards and one year of free membership in NSA for their achievements. The Gordon Günter Best Student Poster Award was presented to Dane Frank, University of Connecticut, for "*In situ* monitoring of pumping rates in the eastern oyster *Crassostrea virginica* to investigate compensatory response to environmental change." This award includes a one year free membership to the Society. Congratulations Ryan, Gwynne, Carl, and Dane!

One of NSA's greatest strengths is its commitment to encouraging student participation in the Society. The Student Endowment Fund, which you, the members of NSA, generously support through purchases of merchandise from our sales booth and at our auctions, subsidizes the expenses of students attending our Annual Meetings through a competitive award process. This year ten students were awarded free housing and/or registration: Gwynne Brown, Shawn Stickler, Michael McKee, Dane Frank, Elizabeth Francis, Susan Hayhurst, Lius Cruz-Rodriguez, Vincent Encomio, Aaron Maloy, and Matt Gordon. These Student Endowment Winners were excellent salespersons and representatives for NSA, as they helped to man the NSA sales booth during Aquaculture 2001. Thank you, students, for donating your time during such a busy meeting!

One of the most thankless jobs at NSA is sacrificing a not insignificant bit of time and freedom during the conference by agreeing to judge student presentations. Every year, however, we manage to find an enthusiastic and dedicated group of NSA members who are willing to commit their time to this critical task, and hopefully they are rewarded by the opportunity to see a number of excellent presentations and by getting to know the newest members of NSA. Thank you to the following judges of oral, poster, and Endowment awards: Inke Sunila, Dave

Bushek, Gef Flimlin, Richard French, Bill Fisher, Steve Jordan, Paul Rawson, Sharon McGladdery, Dan Kreeger, Eric Lund, Phillippe Soudant, Tom Soniat, Sandra Shumway, Anja Robinson, and Aswani Volety.

NSA members and advisors: Please remember to encourage your students to apply for next year's Student Endowment and Presentation Awards! If you are interested in helping judge any or all student awards for the 2002 Mystic, Connecticut, meeting, please contact the Student Awards Committee Co-chairs, Fu-Lin Chu and Maureen Krause.

Maureen K. Krause, Fu-Lin Chu

## Recruits Corner

Hello fellow recruits,

For those of you who attended the meeting in Orlando you know what a good time we had with Mickey and the gang. To those of you who presented let me say, Good job! Thank you to those students who helped out at the NSA booth and during the Student Auction, we couldn't have done it without you. This year was even a record year for sales at the booth. So now that this meeting is over you all can start thinking about next year.

I am sure that many of you have been wondering what is up with the Recruits web page. At the meeting I sat down with Karolyn Mueller Hansen who is the webmaster for the NSA site and talked to her about the status of our page. In order for us to put together a web page that is informative to the students of our society we need your input. What would you like to see put on our web page. A few suggestions so far are, a bulletin board so that students can post questions to other students, a place where students can get in touch with other students about sharing a room or transportation to upcoming meetings, and a research update section where students can keep up with what there fellow students are doing and where they are. We would like really like to hear what you think the web page should include. Remember this is your page so please give us your thoughts. Email all of your comments to me at [crassostrea@excite.com](mailto:crassostrea@excite.com). Also if there is any student interested in helping out with maintenance and design of the page send me an email. One last request to all of the Recruits, please email me your current status and email address so that I may get an up to date list started of all current student members.

I think that is all I have to say now. Have a great rest of the spring and I'll talk to you all in the summer issue.

Cheers  
Steve Allen

## Audit-Budget-Finance Update 2001

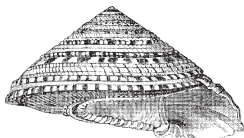
Total revenues for the 1999-2000 fiscal year (October 1999 through September 2000) were \$209,507 and expenses were \$251,574 for a decrease of \$42,067 to our overall balance, which ended the year at \$51,484 including \$16,905 in Student Endowment Funds. By January 16, 2001, however, our assets were back over \$102,000.

Administrative revenues and expenses for 1999-2000 were \$35,354 and \$40,505, respectively, for an decrease of \$5151, but nearly \$20,000 of administrative revenues were transferred to the Publications Cost Center. Publication revenues were \$104,641 and expenses were \$141,883 for a decrease of \$37,242. Revenues from the Seattle meeting were \$65,294 while expenses were \$66,177 for a decrease of \$884. However, since the close of the fiscal year we have received another \$10,430 in revenues from the Seattle meeting making it quite successful.

The proposed budget for the 2001-2002 fiscal year, which begins October 1, 2001 projects a gain of \$3,475 from administrative activities, a decrease of \$7,700 from publications, and a gain of \$6,800 from our annual meeting in Mystic, CT in April 2002. If these revenues and expenses are realized it would increase the NSA balance by \$2,575. Hopefully we will do even better. Recent changes in our accounting procedure shift \$15,000-20,000 annually from administrative revenues to publication revenues, and newsletter costs are also covered by administrative revenues; this helps reduce the decreases previously encountered by publications. Since the JSR is our most important product, and because it is expensive to produce with the quality we expect and receive, we raised dues and page charges a year ago to help offset some of the associated publication costs. Holding the line on pages published will help reduce costs as well.

NSA financial ledgers were reviewed in 2000, but not to the extent that they were after the 1998-99 fiscal year when the books were transferred to treasurer Dan Kreeger. Since Dave Bushek will take over the treasurer's duties October 1, we will give the books an extensive review after Dan closes them on September 30.

George Abbe  
Audit-Budget-Finance Committee



## Notes from the Treasurer

I am pleased to report that the financial health of NSA is much stronger today than it was one year ago. Our improved fiscal position resulted mainly from the increased rates for membership dues, page charges for publishing in Journal of Shellfish Research, and the JSR subscription rate. As explained in previous reports, none of these rates had been increased in more than 10 years despite rising costs. In the two year period between late 1998 and late 2000, our base balance dropped from about \$180,000 to less than \$50,000 at one point. Without taking corrective measures to increase revenues, we would have continued to experience an annual budget deficit. Currently, our base balance is at \$70,000 and this is projected to grow to more than \$100,000 by late 2001 thanks to the rate increases combined with profits from the 2000 Seattle meeting and 2001 triennial meeting in Orlando. Costs are continuing to rise, however, and the Executive Committee has pledged to remain vigilant in monitoring our financial health. Several new protection measures are also under discussion to ensure that sizeable deficits do not occur in the future. We are grateful to the membership for their input to this dialogue about NSA finances and for overwhelmingly supporting the increased rates.

As an advance notice, I am joyful to announce that Dave Bushek will be assuming the duties of Treasurer beginning in October, 2001 (i.e., after the close of the current fiscal year on September 30). Until then, all routine financial matters should be sent to me. But beginning in October, please send new business to Dave. Although we had to weather some tough decisions during the past three years, I really am thankful for the opportunity to serve as NSA Treasurer.

Daniel A. Kreeger  
Treasurer

### Metamorphosis

**Chris Davis** successfully completed his doctoral work at the University of Maine last year. The title of his dissertation was "Response to Selection and Estimation of Heritabilities for Rapid Growth in Eastern Oysters (*Crassostrea virginica*, Gmelin 1791) and the Use of Fast Growing Lines to Reduce Susceptibility to Juvenile Oyster Disease". Chris is currently operating an oyster farm (Pemaquid Oyster Company) and running a job retraining program which assists commercial fishermen in starting shellfish aquaculture businesses.

## Industry Update

The 2000 meeting of the Pacific Coast Shellfish Grower's Association met jointly with the Pacific Coast Section of NSA in Warm Springs, Oregon for four days of workshops and technical sessions relating to shellfish biology, estuarine ecology and shellfish aquaculture in late September. The meeting was organized around a general theme emphasizing the importance of habitat to the shellfish industry, and the role of government and industry in providing stewardship to near shore habitats critical to sustain the shellfish industry. Superimposed over almost all discussions is the recent ESA listing of numerous salmonid populations in the Pacific Northwest and their effect on current and future shellfish culture activities. Needless to say, a coalition of industry and agency specialists have been very active in framing the issues as they exist today, and presentations focused on both the problems facing and gains made by the west coast industry in recent months and years with respect to working with the prospect of ESA generated restrictions on shellfish culture activities in the future.

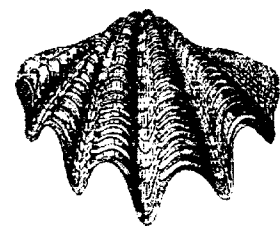
Ed Rhodes opened the meeting with a discussion of the role of the National Marine Fisheries Service (NMFS) in providing leadership, regulatory stability and future research dollars necessary to help meet a projected 60 million metric tons of cultured seafood products needed in the year 2025 if present world-wide seafood consumption patterns remain the same. Activities by NMFS in this arena include the recent (August, 1999) DOC Aquaculture Policy outlining US aquaculture potential, the development of codes of conduct for offshore aquaculture development, JSA/EPA effluent coordination studies, legislation to authorize leasing in the EEZ and the promise of additional research dollars, through a variety of programs, to address these and other issues facing the aquaculture industry nationwide.

Critical issues facing shellfisheries and aquaculture in the Pacific Northwest are use conflicts with endangered salmonids. Matt Longenbaugh, a riparian biologist with NMFS outlined the goals of the NMFS Pacific anadromus salmonid habitat conservation program. Inherent to the program are steps being promulgated by NMFS to prevent "takings" of endangered salmonids in estuaries and other near-shore marine environments as a result of shellfish harvesting or propagation activities. The problem has been largely reframed in order to better tackle the issues associated with the ESA and "take" and today incorporates a habitat-based interpretation referred to as Proper Functioning Condition (PFC). PFC is defined as the habitat state in which those natural processes which sustain the desired ecological qualities necessary for in-migration, spawning and out-migration of juvenile salmonids are maintained. The bottom line for the shellfish industry in the Pacific Northwest is anticipation of continuing uncertainty with respect to regulations over habitat use for shellfish culture

until standards defining PFC are developed by NMFS for stream and estuarine systems used by endangered salmonid populations. In the meantime, the industry in Washington and Oregon is approaching the issue by attempting to pre-empt the fall of the regulatory ax by developing Habitat Conservation Plans. These are optional, long-term agreements made under section 10 of the Endangered Species Act (ESA) which simply allow the "landowner" (e.g., shellfish grower) to develop a set of management practices with input from NMFS which reduce or eliminate impacts from "takings" and allow the attainment of PFC in affected estuaries. This is the direction the shellfish industry is going. The general view within the industry is that shellfish growers are willing to do their part in helping restore west coast estuaries to ensure that PFC is attained. Coincidentally, these same issues regarding ESA and salmonids are affecting estuaries in Maine as a result of a recent NMFS decision there to list certain Atlantic salmon populations as endangered. On both coasts, the role of research is necessary to begin to understand the basis for PFC in different regions. Also, there is a critical need to develop correlations between management activities and habitat condition and endangered population response. This is of course where the rubber hits the road.

Other issues discussed at the annual NSA – PCS - PCSGA meeting relating to shellfish research included a half-day workshop on implementing industry incorporation of selected lines of Pacific oysters developed by the Molluscan Broodstock Program (MBP). Sessions during the meeting itself included talks on developing codes of practice for shellfish growers, integrated pest management plans for *Spartina* and burrowing shrimp control in Washington State. Talks on the spatial stock structure of red king crab in Bristol Bay Alaska and Puget Sound Dungeness crab molting patterns rounded out other papers describing recent work on tetraploid Pacific oysters and ongoing efforts by the State of Washington's Department of Fish and Wildlife to develop hatchery techniques for enhancing clam stocks. An award for the best applied research paper presented by a student was given to Hakan Calik (Oregon State University) by the PCSGA. The paper was entitled "Effect of high hydrostatic pressure on *Vibrio parahaemolyticus* strains." NSA-PCS presented its best student paper award to Timothy Loher (University of Washington) for his paper on "Spatial stock structure in Bristol Bay (Alaska) red king crab and its influence on long-term recruitment trends."

Jonathon Davis  
Industry Committee



## Resolutions of the 93rd 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 January 25, 2001, the National Shellfisheries Association formally recognized and thanked the Chairs of the following committees: Rick DeVoe, Presidents, Elections, and Awards Committees; Francis O'Beirn, Membership Committee; Mel Carriker, Association Historian; Mike Castagna, Publications Committee; Joth Davis, Industry Committee; Maureen Krause and Fu-Lin Chu, Endowment/Student Awards Committee; Steve Allen, Student Contact, The Recruits; George Abbe, Audit-Budget-Finance Committee for their outstanding contributions to the prosperity and well-being of the National Shellfisheries Association during the last year.

**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 January 25, 2001, the National Shellfisheries Association formally recognized and thanked: Evan Ward, President; Jay Parsons, President-Elect; David Bushek, Vice President; Carolyn Friedman, Secretary; Dan Kreeger, Treasurer; Aswani Voley, Member-at-Large; Lou D'Abramo, Member-at-Large; Mark Luckenbach, Member-at-Large; Nancy Lewis, Bookkeeper for their diligence and guidance in serving the National Shellfisheries Association during the last year.

**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 January 25, 2001, the National Shellfisheries Association formally recognized and thanked: Sandy Shumway, JSR Editor; Jay Parsons, NSA Newsletter Editor; Karolyn Hansen, Website administrator for their outstanding contributions to National Shellfisheries Association through the delivery of information to the membership and the scientific and management community worldwide.

**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 January 25, 2001, the National Shellfisheries Association formally recognized and thanked the steering committee for NSA 2001: Sandy Shumway, Joe Tomasso, Nick Parker; Program Committee: Rick DeVoe, Chairman, John Nickum, Jay Parsons, LeRoy Creswell, David Bushek for their outstanding contributions to the organization and success

of the 93rd Annual 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 January 25, 2001, the National Shellfisheries Association formally recognized and thanked: John and Mary Cooksey, Conference managers for going above and beyond the call of duty in making the conference arrangements and making Aquaculture 2001 meeting a great success.

**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 January 25, 2001, the National Shellfisheries Association formally recognized and thanked: Dan Kreeger for his tireless, diligent and ongoing work in maintaining the budget as the treasurer of NSA for the past 3 years.

### Past President's message continued from page 1

better. In addition to increasing revenue for our association, increasing our membership broadens our intellectual base, stimulates discussions that lead to new research directions, and strengthens our position as a truly international association. Student membership is particularly important to ensure the future of NSA. If all current members recruited just one new member, we could double our membership in the next year. I would like to challenge all members of NSA to do just that and add one new recruit for the year 2001.

3. Increase communication between industry and research activities. This is a two-way street and an area that needs constant attention. We need to continue to foster dialog among all the sectors interested in shellfisheries activities. An open exchange of information is important to the growth of shellfish science and industry. One initiative that will help foster exchange of ideas is the NSA membership directory which will facilitate member to member contact.

NSA is a wonderful organization and together we can continue to improve our association so it can meet the challenges of the future. In closing I would like to thank all members of the Executive Committee and all of the chairs of the standing and ad-hoc committees for their service over the past 10 months. It has truly been a pleasure to work with you, and I look forward to serving NSA in the future. I wish everyone a prosperous new year and hope to see many of you in Connecticut for our 2002 meeting.

Evan Ward  
Past-President

**President's message continued from page 1**

George Abbe is chair of A-B-F, Carolyn Friedman is chair of the Program Committee, Dan Kreeger is chair of the Arrangements Committee (2003), Steve Allan is chair of Student Recruits, Joth Davis and Rick Karney are co-chairs of the Industry Committee, Maureen Krause and Fu-Lin Chu are co-chairs of the Student Endowment and Awards Committee, Mike Castagna and Lou D'Abramo are co-chairs of the Publications Committee, Karolyn Mueller Hansen and LaDon Swann are chairs of the web site subcommittee, Ami Wilbur and Aswani Volety are co-chairs of the Membership Committee, Loren Coen is the chair of the Resolutions Committee, Gef Flimlin is chair of the Revenue and Investment Committee, and Mark Luckenbach chairs the Software Management Committee.

Thanks to these many volunteers I am looking forward to a productive year.

Finally, I want to emphasize two points: the importance of volunteers and new members. NSA is a volunteer group and we are always open to having members assist with the running of the organization. I was fortunate to get involved many years ago as a student volunteer and I want to encourage others, especially students, to let me know if you are interested in helping out. Also, our membership is the basis of a strong organization. However, an expanded membership will allow us to have an even stronger financial base from which to operate over the next ninety years. I encourage you to get colleagues to join the NSA, especially our friends overseas.

*Melbourne Carriker and Ed Meyers at the opening session of the Aquaculture '01 triennial conference in Orlando, Florida. Ed Meyers gave the opening plenary presentation.*

***Visit the NSA Web Site for the latest updates***

**<http://www.shellfish.org>**

## **Support the NSA Student Endowment Fund**

The human psyche is an interesting thing. It tells us right from wrong. It allows us to make choices. Usually the psyche or mind tells us that for our better interest we make decisions based on simple things. We befriend people that we know, we like and we trust. We bring our cars for repair to mechanics that we know, we like and we trust. We support ideas and organizations that we know, we like and we trust. If any of those elements go missing, our minds allow us to pick new friends, new mechanics and new organization to support.

If you are reading this, you are probably a member of the National Shellfisheries Association. You probably remain a member because you know what the Association is about...shellfish and research about them. You like that kind of organization because it allows you to interact with people whose interest is the same as yours, and you trust that NSA operates in a manner which is beneficial to you and to those who will follow you. If these things disappear, you may allow your membership to lapse.

One of the most gratifying tasks in which NSA engages is the support and encouragement of students who are interested in shellfish biology. Each year we dedicate funds to defray the travel and registration costs of numerous students to attend the Annual Meeting and present their research in the form of an oral presentation or poster. Many of our top shellfish biologists were recipients of awards from the Student Endowment Fund.

Many others have pursued other areas, but still gained a wealth of insight, knowledge, and personal satisfaction from being an integral part of our Annual Meeting. Most will remember the famous auctions that also take place each year to support the Fund.

The Student Endowment Fund Auction is probably the most visible example of how the rest of NSA believes in and supports the Student Endowment Fund. Until now.

The National Shellfisheries Association is embarking on a fundraiser to expand the Student Endowment Fund, and your assistance is needed. If you were a recipient of SEF funds, if you enjoyed student papers through the years, if you have students who benefited from the SEF, or simply if you believe in lending a helping hand to someone who may come behind you, we ask you to Help a Student Become a Scientist.

There are several categories of giving through which you can participate and we would urge all members of NSA to participate at some level. You know this Association. You like this Association. And you trust this Association. Please join with others who share these feelings and contribute to the NSA Student Endowment Fund. Now.

Brochures describing the program will be distributed to all members either through the newsletter or by separate mailing. When it arrives, take the opportunity to contribute and trust that your donation will help others.

Gef Flimlin  
Rutgers Cooperative Extension, Toms River, NJ

*WAS President Tom Losordo and NSA President Evan Ward at the opening of the Aquaculture '01 conference.*

## Online Bivalve Bibliography

The Santa Barbara Museum of Natural History is pleased to announce the availability of a new online bivalve bibliography. The bibliography contains over 4,800 references on the Bivalvia, primarily from our recent book *Bivalve Seashells of Western North America* (<http://www.sbnature.org/atlas/bivbook.htm>). You may access the bibliography at: <http://205.180.85.170/RIS/RISWEB.ISA>. When the web page opens, select the database "bivalve.pdt". The bibliography may be queried by author, title, date, or keywords. Keywords are limited, usually at the family level or above. Feel free to contact me if you have any questions or problems with the database.

Paul Valentich Scott, Senior Associate Curator, Department of Invertebrate Zoology, Santa Barbara Museum of Natural History, 2559 Puesta del Sol Road, Santa Barbara, CA 93105 USA, Phone 805-682-4711, ext. 319, fax 805-569-3170, email [pvscott@sbnature2.org](mailto:pvscott@sbnature2.org)

### NSA 2002 Auction

#### **For the benefit of the STUDENT ENDOWMENT FUND**

**It is never too early to start collecting any new or used shellfish-related items for the annual auction in benefit of the Student Endowment Fund. Items can include, but are not limited to: books & other publications (historically important reprints), home brews and vintages, jewelry, artwork, and, of course, t-shirts and other articles of clothing.**

**Please bring items with you to the NSA '02 meeting in Mystic, CT or send to Sandy Shumway at the address on the back page.**

Recruited by? \_\_\_\_\_

#### ***How to Join the National Shellfisheries Association***

Fill out and mail a copy of the application blank below. The dues are US \$65.00 per year (\$35.00 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 \$65.00 (\$35.00 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.

## Upcoming Meetings

**Fifth International Crustacean Congress:** July 9, 2001 - July 13, 2001, University of Melbourne, Melbourne, Australia. For more information contact: Dr Gary C. B. Poore, phone +61 3 9284 0215, email [icc5@mov.vic.gov.au](mailto:icc5@mov.vic.gov.au).

**9th International Congress on Invertebrate Reproduction and Development:** July 15-20, 2001, Rhodes University, Grahamstown, South Africa. This triennial meeting of the International Society for Invertebrate Reproduction (ISIR) is an integrative meeting which aims to bring together biologists with expertise in all fields of invertebrate reproduction and development. For more information contact: Alan Hodgson, phone +46 6038526, email [A.Hodgson@ru.ac.za](mailto:A.Hodgson@ru.ac.za).

**Aquaculture Europe 2001:** August 4-7, 2001, Trondheim, Norway. Meeting of the European Aquaculture Society (EAS) in conjunction with AQUA NOR 2001, August 7-10, 2001. For information, contact: European Aquaculture Society Slijkensesteenweg 4, B-8400 Oostende, phone +32 59 323859, fax +32 59 321005, email: [ae2001@aquaculture.cc](mailto:ae2001@aquaculture.cc). For program information visit [www.easonline.org/agenda/en/aquaeuro2001/Programme/full.asp](http://www.easonline.org/agenda/en/aquaeuro2001/Programme/full.asp).

**Larvi 2001:** September 3-6, 2001, Ghent University, Belgium Program: The aim of Larvi 2001 is to bring researchers and professionals together to evaluate recent progress, identify problem areas and stimulate future cooperation in research and industrial production of freshwater as well as marine fish and shellfish larvae. For more information contact Conference Secretariat phone +32 9 2643754, email [larvi@rug.ac.be](mailto:larvi@rug.ac.be).

**International Commemorative Symposium 70<sup>th</sup> Anniversary of the Japanese Society of Fisheries Science:** October 1-5, 2001, Pacifico Convention Plaza Yokohama, Yokohama, Japan. The symposium will consist of plenary sessions including keynote addresses, oral presentations, poster sessions and workshops on fisheries biology, environment and conservation, aquaculture, and others. For more information contact web page [www.symp70yr.or.jp](http://www.symp70yr.or.jp) or secretariat Dr. Toshiaki Ohshima, Tokyo University of Fisheries, Konan 4-5-7, Minato, Tokyo 108-8477, Japan, phone +81-3-5463-0613, fax +81-3-5463-0627, or email [symp70yr@tokyo-u-fish.ac.jp](mailto:symp70yr@tokyo-u-fish.ac.jp).

**National Shellfisheries Association 94th Annual Meeting:** April 14-18, 2002 Hilton Mystic Hotel, Mystic, CT. For program information contact Carolyn Friedman or local arrangements contact Evan Ward (addresses on back page).

**World Aquaculture 2002:** April 23-27, 2002, Beijing Convention Center, Beijing, China. Annual meeting of the World Aquaculture Society. For more information visit [www.was.org](http://www.was.org), or Director of Conferences and Sales: John Cooksey, voice +1-760-432-4270, fax +1-760-432-4275 or email [worldaqua@aol.com](mailto:worldaqua@aol.com).

**The 4th International Conference on Molluscan Shellfish Safety:** June 4 to 8, 2002, Santiago de Compostela (Galicia, Spain). The 4th ICMSS will be hosted by the Centro de Investigaciones Mariñas (CIMA) and the Centro de Control da Calidade do Medio Mariño (CCCMM), both depending on the Consellería de Pesca, Marisqueo e Acuicultura of the Xunta de Galicia. Oral presentations and posters will be presented dealing with the following topics: 1. Microbiological contamination 2. Chemical contamination and bioaccumulation 3. Harmful and toxic algal events 4. Shellfish contamination by marine biotoxins 5. Depuration 6. Management and mitigation 7. Water quality at harvesting sites 8. Public health, epidemiology and toxicology 9. Monitoring, quality assurance programmes and regulatory controls 10. Allergies associated with shellfish consumption. Proceedings will be published in the Journal of Shellfish Research. The Conference venue is the Faculty of Medicine (University of Santiago de Compostela), located in the historic mediaeval city of Santiago de Compostela, an important pilgrimage centre, designated as Patrimony of Humanity by UNESCO. Its International Airport is located less than 15 minutes drive from downtown. The city is close to the Galician Rías Baixas, one of the world's largest mussel production areas. For information, contact: CONFERENCE SECRETARIAT ICMSS Centro de Investigaciones Mariñas Aptdo. 13 36620 Vilanova de Arousa. Pontevedra Spain Phone: 34 986500155 Fax: 34 986506788 E-mail: [icmss@cimacoron.org](mailto:icmss@cimacoron.org) or Web site [www.atlanticocongresos.com/moluscos/index.html](http://www.atlanticocongresos.com/moluscos/index.html)

**Fourth International Symposium on Aquatic Animal Health:** September 2-6, 2002, Sheraton New Orleans Hotel, New Orleans, LA. For information, contact ISAAH2002 at Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA, 70803, fax 225-578-9701, email [ISAAH2002@vetmed.lsu.edu](mailto:ISAAH2002@vetmed.lsu.edu) or visit web site [www.vetmed.lsu.edu/isaah2002.htm](http://www.vetmed.lsu.edu/isaah2002.htm).

**Aquaculture Canada '02:** September 17-20, 2002, Delta Prince Edward Hotel, Charlottetown, PEI Canada. The 19th annual meeting of the Aquaculture Association of Canada. For more information contact Cyr Couturier at phone 709-778-0609, fax 709-778-0535, email [cyr@mi.mun.ca](mailto:cyr@mi.mun.ca) or visit [www.mi.mun.ca/mi/aac](http://www.mi.mun.ca/mi/aac).

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](mailto:Jay.Parsons@mi.mun.ca).

## Web Sites of Interest

Sea Urchin Web Site  
<http://zoology.unh.edu/faculty/walker/urchin/gametogenesis.html>

Harbor Branch Oceanographic Institute Courses  
<http://www.aquaculture-online.org>

**Ms. Nancy Lewis**  
**NSA Bookkeeper**  
**VIMS Eastern Shore Lab**  
**P. O. Box 350**  
**Wachapreague, VA 23480**

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## Officers, Committee Chairs and Staff of the National Shellfisheries Association

Dr. G. Jay Parsons, **President and Editor**,  
*NSA Quarterly Newsletter*  
Marine Institute of Memorial University  
P. O. Box 4920  
St. John's, NF Canada A1C 5R3  
Phone (709) 778-0307; FAX (709) 778-0535  
Email: Jay.Parsons@mi.mun.ca

Dr. Dan Kreeger, **President-Elect**  
Patrick Center for Environmental Research  
Academy of Natural Sciences  
1900 Ben Franklin Parkway  
Philadelphia, PA 19103  
Phone (215) 299-1184; FAX (215) 299-1079  
Email: kreeger@say.acnatsci.org

Dr. Carolyn Friedman, **Vice President and Program Chair**,  
Bodega Marine Laboratory  
P.O. Box 247, 2099 Westside Road  
Bodega Bay, CA 94923  
Phone (707) 875-2067/2066; FAX (707) 875-2009  
Email: csfriedman@ucdavis.edu

Dr. David Bushek, **Treasurer**  
Baruch Marine Field Laboratory  
P. O. Box 1630  
Georgetown, SC 29442  
Phone (843) 546-3623; FAX (843) 546-1632  
Email: bushek@sc.edu

Dr. Karolyn Mueller Hansen, **Secretary**  
Oak Ridge National Laboratory  
Bldg. 4500S, MS 6123  
Bethel Valley Road, P.O. Box 2008  
Oak Ridge, Tennessee 37831  
Phone (865) 691-6808  
Email: news@shellfish.org

Ms. Nancy Lewis, **Bookkeeper**  
VIMS Eastern Shore Lab, P. O. Box 350  
Wachapreague, VA 23480  
Phone (757) 787-5816; FAX (757) 787-5831  
Email: nlewis@vims.edu

Dr. Melbourne R. Carriker, **Historian**  
College of Marine Studies, University of Delaware  
Lewes, DE 19958  
Phone (302) 645-4274  
Email: carriker@udel.edu

Dr. Loren Coen, **2001-2004 Member-at-Large**  
Marine Resources Research Institute  
SCDNR, 217 Fort Johnson Road  
Charleston, SC 29412  
Phone (843) 762-5033; FAX (843) 762-5110  
Email: coenl@mrd.dnr.state.sc.us

Dr. Aswani Volety, **2000-2003 Member-at-Large, Co-chair Membership**  
Environmental Science  
College of Arts and Sciences  
Florida Gulf Coast University  
10501 FGCU Blvd.  
Fort Myers, FL 33965-6565  
Phone (941) 590-7216; FAX (941) 590-7200  
Email: avolety@fgcu.edu

Dr. Mark Luckenbach, **1999-2002 Member-at-Large**  
VIMS Eastern Shore Lab, P. O. Box 350  
Wachapreague, VA 23480  
Phone (757) 787-5834; FAX (757) 787-5831  
Email: luck@vims.edu

Dr. Maureen Krause, **Co-Chair, Endowment / Student Awards Committee**  
Department of Biological Sciences  
1301 College Avenue  
Mary Washington College  
Fredericksburg, VA 22401  
Phone (540) 654-1420; FAX (540) 654-1081  
Email: mkrause@mwc.edu

Dr. Fu-Lin Chu, **Co-Chair, Endowment / Student Awards Committee**  
VIMS School of Marine Science  
College of William and Mary  
P. O. Box 1346, 1208 Greate Road  
Gloucester Point, VA 23062  
Phone (804) 684-7349; FAX (804) 684-7186  
Email: chu@vims.edu

Dr. Ami Wilbur, **Co-Chair, Membership**  
Department of Biological Sciences  
Center for Marine Studies  
University of North Carolina at Wilmington  
5600 Marvin K. Moss Lane  
Wilmington, NC 28409  
Phone (910) 962-2389; FAX (910) 962-2410  
Email: wilbura@uncwil.edu

Mr. Steve Allen, **Chair, The Recruits**  
Grice Marine Laboratory  
205 Fort Johnson Road  
Charleston, SC 29412  
Phone (843) 406-9727  
Email: crassostrea@excite.com

Mr. Doug Thompson, **Chair, Pacific Coast Section**  
Coast Seafood, P. O. Box 327  
Quilcene, WA 98376  
Phone (360) 765-3345; FAX (360) 765-3045

Dr. Jonathan Davis, **Co-Chair, Industry Committee**  
15425 Smoland Lane  
Bainbridge Island, WA 98110  
Phone (206) 842-0894; FAX (360) 765-3028  
Email: jdavis@wolfenet.com

Mr. Richard C. Karney, **Co-Chair Industry Committee**  
Martha's Vineyard Shellfish Group  
P. O. Box 1552, Oak Bluffs, MA 02557  
Phone 508-693-0391  
Email: MVSG@capecod.net

Dr. J. Evan Ward, **Chair, Past-Presidents Elections and Awards Committees**  
Department of Marine Sciences  
University of Connecticut  
1084 Shennecossett Road  
Groton, CT 06340-6097  
Phone (860) 405-9073; FAX (860) 405-9153  
Email: jeward@uconnvm.uconn.edu

Mr. George Abbe, **Chair, A-B-F**  
Estuarine Research Center  
Academy of Natural Sciences  
10545 Mackall Road  
St. Leonard, MD 20685  
Phone (410) 586-9700; FAX (410) 586-9705  
Email: abbe@acnatsci.org

Mr. Michael Castagna, **Co-Chair, Publications Committee**  
Virginia Institute of Marine Science  
Wachapreague, VA 23480  
Phone (757) 787-5816; FAX (757) 787-5831  
Email: castag@seaside.es.vims.edu

Dr. Lou D'Abramo, **Co-Chair, Publications Committee**  
Department of Wildlife and Fisheries  
Mississippi State University  
Box 9690  
Mississippi State, MS 39762  
Phone (662) 325-7492; FAX (662) 325-8726  
Email: ldabramo@cfr.msstate.edu

Dr. Sandra Shumway, **Editor, Journal of Shellfish Research Steering Committee, Aquaculture '04**  
Southampton College, LIU  
Southampton, NY 11968  
Phone (631) 287-8407; FAX (631) 287-8419  
Email: sshumway@southampton.liu.edu