

# National Shellfisheries Association

QUARTERLY NEWSLETTER

OCTOBER 2003, FALL ISSUE



WALDOBORO, MAINE

## President's Message

It seems like we just left New Orleans and Hawaii is just around the corner!

The EXCOM and Committees have been busy since then and there are a lot of activities underway:

Thanks to Roger Newell, Mark Luckenbach, Dee Kreeger, Dave Bushek and Evan Ward who worked diligently on the ad-hoc committee, we have entered into a contract with Longsight and will be working with Scott Siddall to update our computer system and make the NSA management system WEB-based. Not only did Longsight offer the best bid, we have the added advantage of Scott's long-standing dedication to NSA coupled with his corporate knowledge of the Society. We anticipate a successful and long-term association.

We will now publish three issues of JSR annually. This will allow more flexibility with regard to special issues, reduce the size of individual issues (and associated postage), reduce the time to publication for submitted manuscripts, and give me something to do in my spare time. The increased cost will be marginal. It also means I'll need more cover photos, so start those shutter fingers moving!

"*Taming of the Oyster*", the NSA history by Mel Carriker, is at the printer and we hope to have it available for sale before Christmas. Susan Ford has prepared an Appendix for the History on the role of women in NSA. A summary graph is presented on p. 14 — anybody have any thoughts on what caused the rapid increase and subsequent decrease of female participation in the early 1970's, or where all those women have gone?

The Publications Committee has been especially busy. They have been investigating possible ways to reduce costs associated with publishing JSR, and we are investigating means to get back issues of JSR on-line and current issues available as PDF files. Our new WEB-based database will be a benefit here. There is a questionnaire

continued on page 14.

## AQUACULTURE '04

### Honolulu, Hawaii

March 1-5, 2004

The beaches of Waikiki are beckoning.....

The abstract submission deadline has passed, but if you didn't get around to submitting a paper, we've always got room for another poster. Contact me immediately if you are still interested in participating. Even if you don't present a paper, come and take advantage of the largest aquaculture trade show in the world and a chance to meet new colleagues. This promises to be the biggest and most exciting Triennial yet. Included in the 85 sessions are featured sessions on shellfish best management practices, oysters, abalone, pearl oysters, scallops, new shellfish species for aquaculture, gastropods, sea urchins and mussels. As of this writing, I have received 1400 abstracts, so there should be something for everyone.

Special room rates are available at many hotels in close proximity to the Conference Center and the opportunities for post-meeting travel have never been better. **REMEMBER:** NSA receives a share of the meeting profits based on attendance by members, so be sure to plan on attending and check off NSA on your registration form!

Aloha, see you on the beach.....

Sandy Shumway

### ***In this issue:***

- ***Student Research Grants***
  - ***Industry Updates***
  - ***Book Reviews***
- and much more!***

## Nominations for Honored Life Member and David A. Wallace Award

The Awards Committee is now accepting nominations for NSA Honored Life Member and for the David A. Wallace Award. Nominations should include a 100 to 200 word description of the nominee's achievements that will allow the Committee to evaluate the suitability of the nominee for an award. The person proposing a candidate will also work with the Awards Committee to provide a description of the candidate's accomplishments that will be published in the *NSA Journal of Shellfish Research* and the *NSA Quarterly Newsletter*.

### **Honored Life Member Award**

Nominees must be NSA members who, by their exemplary service to the Association or to the profession, deserve recognition as Honored Life Members of the Association. In general, nominees should be highly respected individuals who have made substantial contributions to shellfisheries science, education, or the industry.

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

Nominees should be individuals whose actions most demonstrate the principles and actions concerned with programs in shellfisheries, aquaculture, and conservation as exemplified by Mr. David Wallace during his lifetime. These principles and actions should include promoting understanding, knowledge, and cooperation among industry members, the academic community, and all levels of government (states, national, and international); and outstanding success in bringing together shellfish scientists and industry officials for the benefit of shellfisheries. The award is not linked to NSA membership.

The deadline for nominations will be November 21, 2003. Nominations should be sent to Danielle Kreeger at the address listed on the back page.

## Recruits Corner

Aloha fellow Recruits!

I hope that many of you submitted abstracts for Aquaculture 2004 and will be joining us in sunny Honolulu. What better way to spend a little time away from school and the lab than presenting a paper, networking, and having a great time at a NSA meeting in March in Hawaii? Even if you are not presenting a paper, the triennial meetings of NSA, WAS, and the Fish Culture Section of AFS are excellent opportunities for making contacts, finding jobs, and meeting like-minded scientists from other professional

societies. And attending this meeting is not out of reach for students just because it is in Hawaii. The hotel rates are among the lowest I have seen for meetings any time in recent years. Hotel rooms start at just \$74 a night, not to mention that rooms can be shared. If you are interested in sharing a room and want to be matched up with a roommate, please contact Nature or Steve (e-mail addresses on back cover).

In addition to the NSA Student Endowment travel awards that help defray meeting costs for students that are presenting papers, there are other opportunities to make some extra cash at this meeting. For more information on working at the meeting please contact Sandy Shumway ASAP (contact info also on back cover). Speaking of awards, as many of you know, the Thurlow C. Nelson Award, for best student oral presentation, and the Gordon Gunter Best Student Poster Award are awarded at each annual meeting to the students with the best oral and poster presentations. At the student lunch in New Orleans, a few of you suggested that publishing the judging criteria for the awards would be helpful during presentation preparation. The winners of these presentation awards are presented with free NSA memberships.

The meeting in Hawaii should be great fun, as always, and very productive. We are in the planning stages for student activities at this meeting, similar to the very successful events at the meeting in New Orleans. If you have any suggestions for student events or any suggestions, news, or comments at all for that matter, please do not hesitate to contact Steve or me. One of the most popular events, and beneficial for students, at every NSA meeting is the Auction. Each year the auction raises money to help students get to the annual meetings (see above). Sandy Shumway is always looking for interesting shellfish-related items to auction off to the highest bidders. If you have any unique items lying around, or if you spot a special something in your travels, be sure to send it off to Sandy. The big turnout for this triennial meeting could mean big bucks made at the auction, so we want to have plenty of stuff to sell. And, as always, we hope that you can spare a few moments here and there at the meeting to help out at the auction, the sales booth, etc.

Come to Hawaii! I am really looking forward to the meeting and I hope you are too. Remember, it is not too late to register for the meeting and all the opportunities it will offer. Register by January 16 for the cheapest student rates and don't forget to check the NSA box on the registration form to show that you are a member of the coolest shellfish group around. There will be more information on student activities at the meeting to follow soon. Dreaming of hula-dancing,

Nature McGinn

## Application Details for the Student Research Grants

The National Shellfisheries Association has now instituted two student research grants, the Melbourne R. Carriker Student Research Grant and the Michael Castagna Student Grant for Applied Research.

### **The Melbourne R. Carriker Student Research Grant**

This is a competitive grant that is awarded annually to recognize a student's excellence in any research in the area of shellfisheries.

### **The Michael Castagna Student Grant for Applied Research**

This is a competitive grant that is awarded annually to recognize a student's excellence in applied research in the area of shellfisheries. The practical, applied aspects of the research should be highlighted. Students applying for the Michael Castagna Student Grant for Applied Research may also apply for the Melbourne R. Carriker Student Research Grant, **but must submit separate applications.**

### **General Rules:**

Proposals will be reviewed by the NSA Awards Committee, which is an NSA standing committee chaired by the immediate Past-President. The deadline for proposal applications is **November 21, 2003**. Notification of the successful applicant will be made by January 31, 2004.

The applicant must be a student member in good standing of the National Shellfisheries Association and currently enrolled as a Master's or Ph.D. student in a recognized degree granting institution anywhere in the world. Students who have previously been awarded a Student Research Grant are not eligible to apply for that grant 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 Student Awards Committee. It is expected that students who are recipients of the Student Research Grant will present results of their research at one of the annual NSA meetings.

A completed application will consist of the following five components:

1. **Cover sheet** with the applicants name, professional address, phone number, email address, thesis title, degree being sought (Master's 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 close of the business day on **November 21, 2003**. No faxed, electronic, hand-written, or late proposals will be considered.

Danielle Kreeger  
Academy of Natural Sciences  
1900 Ben Franklin Parkway  
Philadelphia, PA 19103

## Auction Items Needed

The NSA Student Auction is scheduled for March 2<sup>nd</sup> – the first night of the conference – after the student mixer and reception. AQ 04 is a great opportunity to increase the auction revenues - start cleaning your closets and offices now! If you can't make it to the meeting, you can send your auction items to Sandy. Remember: anything goes and we will have 'fish' folks at this meeting also (no dead fish, please....).

**CONSTITUTION of the NATIONAL SHELLFISHERIES ASSOCIATION, INC.**  
**(A Corporation Not for Profit)**  
**Approved April 13, 2003**

**ARTICLE I. NAME AND ADDRESS**

The organization shall be known as the National Shellfisheries Association, Inc., hereinafter referred to as the Association or NSA.

The official permanent address of the NSA shall be:

National Shellfisheries Association, Inc.  
National Marine Fisheries Service Laboratory  
Oxford, MD 21654 USA

**ARTICLE II. OBJECTIVES AND PURPOSES**

The National Shellfisheries Association is organized as a non-profit society. The objectives and the purposes of the Association shall be:

Section 1. To encourage research on molluscs, crustaceans, and associated organisms with emphasis on species of economic importance known as "shellfish".

Section 2. To gather and disseminate scientific and technical information on shellfish.

Section 3. To promote and advance shellfisheries research and the application of results to the shellfish industry.

Section 4. To hold annual meetings for presentation, exchange, and discussion of information on scientific and professional aspects of shellfish research and management.

**ARTICLE III. MEMBERSHIP**

Section 1. Membership in the NSA shall be open to all individuals who actively support the objectives and purposes of the Association.

**ARTICLE IV. TERMS OF EXISTENCE**

Section 1. This corporation is to exist perpetually.

**ARTICLE V. OFFICERS**

Section 1. The officers of the Association shall be a President, a President-Elect, a Vice President, a Secretary, and a Treasurer, elected to perform usual duties of their respective offices.

Section 2. The signing officers of the Association are the President, the President-Elect, and the Treasurer or their appointees.

Section 3. Elections for the offices of President, President-Elect, and Secretary shall be conducted every second year for a term of two years, or until the end of the second regular business meeting following their installation into office. The President-Elect upon completion of his/her term shall accede to the office of President, and be installed at the opening of New Business of every second regular business meeting. The election for the office of Treasurer shall be conducted every third year for a term of three years. The Treasurer will relinquish office at the end of the third fiscal year (September 30th) following his/her installation into office. The Vice-President shall be elected each year for a term of one year, or until the end of the next regular business meeting following his/her installation into office. No officers, except for the Secretary and Treasurer, may succeed themselves.

Section 4. Nomination for office shall be made by an Elections Committee appointed by the President. All persons nominated by this committee shall be members in good standing and eligible to hold office in the Association. The Elections Committee shall present the list of consenting nominees to the Secretary, who shall prepare a mail ballot to be sent to the membership at least sixty (60) calendar days prior to the annual meeting. The ballot shall permit write-in votes for each office. Ballots must be returned to the President Elect fourteen (14) calendar days before the annual meeting, and they shall be audited as the Executive Committee directs.

Section 5. A simple majority of the votes received by the President-Elect fourteen (14) days prior to the annual meeting of the Association shall be necessary for the election of officers and the members of the Executive Committee. Elected officers other than the President-Elect take office at the end of the annual business meeting.

Section 6. In the event that any officer other than the President-Elect resigns or otherwise leaves a position vacant, the Executive Committee shall, by a simple majority vote of committee members present at a properly constituted meeting, at which business may be conducted, appoint a replacement to fill the remainder of the term. Any vacancy in the office of the President-Elect must be filled through membership ballot.

Section 7. No elected officer may receive any compensation for services rendered. Certain travel expenses may be defrayed when authorized by the President with the concurrence of the Treasurer. Clerical and other operational funds may be paid

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## **Constitution...** Continued from page 4

by the Treasurer when so authorized by the President.

### **ARTICLE VI. EXECUTIVE COMMITTEE**

Section 1. The Executive Committee shall consist of the elected officers, the immediate past-President, the Chairperson of the Pacific Coast Section, the Editor of the Journal of Shellfish Research (JSR), formerly known as Proceedings, and three (3) persons elected by the Association to serve as Members-at-Large for a term of three (3) years or until their successors are elected. One Member-at-Large will be nominated and elected each year in a manner similar to that outlined in Article V for officers. Each Member-at-Large shall not be eligible for re-election to the same office within a period of three (3) years after their term of office has expired.

Section 2. The Executive Committee shall manage the business and the affairs of the Association, subject to the provisions of the Constitution and By-Laws. A quorum of the Executive Committee consists of a simple majority of its members. A properly constituted meeting of the committee is any meeting in which all of the members have been notified in advance and of which a simple majority of all members have agreed to the meeting. All decisions of the Executive Committee shall be by a simple majority vote of the quorum.

Section 3. At each Executive Committee meeting prior to the annual meeting the President-Elect with coordination of the Treasurer shall submit for Executive Committee approval a proposed budget for the ensuing calendar year.

Section 4. The Executive Committee shall approve budgets, approve appointments, present proposals, and describe other activities that may require discussion and approval by the membership. The Secretary or a duly appointed member of the Association shall keep minutes of Committee meetings and deposit copies with the Secretary. Minutes shall be open to members or sent to them.

### **ARTICLE VII. BYLAWS**

Section 1. The structure and function of the National Shellfisheries Association within the context of the Constitution shall be described in the Bylaws. The Executive Committee of the Association may provide such Bylaws for the conduct of its business and the carrying out of its purpose as they may deem necessary from time to time. The Bylaws can be amended by a two-thirds (2/3) majority of the Executive Committee.

### **ARTICLE VIII. AMENDMENTS**

Section 1. The Constitution, after adoption by a 2/3 majority of the voting membership, shall supersede all existing Constitutions and Bylaws, and will take effect immediately.

Section 2. The Constitution may be altered or amended on recommendation of the Executive Committee, by a 2/3 majority of the voting membership, by a mail ballot, provided the membership shall receive written notice of such amendments at least sixty (60) calendar days prior to the deadline for voting. Ballots shall be collected and counted by the Secretary and validated by the President within twenty (20) calendar days after the voting deadline.

### **ARTICLE IX. ACQUISITIONS**

Section 1. In order to promote the purposes of this corporation, it may acquire property by grant, gift, purchase, devise or bequest, and hold and dispose of such property as the Association shall require for the benefit of its members and not pecuniary profit.

### **ARTICLE X. DISTRIBUTION OF ASSETS**

Section 1. In the event of dissolution, any assets of the National Shellfisheries Association shall be distributed to a non-profit fund, foundation or corporate organization operated exclusively for the purpose as specified in Section 501 (C) (3) of the United States Internal Revenue Code. The fund, foundation, or corporate organization to which the National Shellfisheries Association assets will be distributed shall be selected by the National Shellfisheries Association Executive Committee at its last meeting.

**BY-LAWS**  
**of the**  
**NATIONAL SHELLFISHERIES ASSOCIATION, INC.**  
**(A Corporation Not for Profit)**  
**Updated and Approved April 13, 2003**

**BYLAW I - NAME AND PURPOSE**

Section 1. The name of the organization shall be the National Shellfisheries Association, as described in the Constitution.

Section 2. The purpose and activities of this Association shall be as described in the Constitution.

**BYLAW II - MEMBERSHIP AND DUES**

Section 1. Any individual or institution that qualifies for membership under the Constitution and Bylaws may become a member in good standing of the Association by having a genuine interest in the purposes of the Association, by paying the appropriate dues, and by adhering to the rules and regulations laid down in the various sections and subsections of the Constitution and Bylaws.

Section 2. Dues, payable in U.S. dollars on or before January 1 of each calendar year, may be changed as necessary by a vote of the Executive Committee present at the annual meeting.

(a) Any member whose dues are in arrears for a period of more than one (1) year, and after two (2) written notices from the Secretary, shall be dropped from the membership within thirty (30) days after the second notice.

(b) *The Journal of Shellfish Research* shall not be distributed to members who have been dropped for non-payment of dues.

(c) Any person, firm, society, club, or state or federal agency, on approval of the Executive Committee and by payment of a sum to be established annually by the Executive Committee, may become a Patron of the Association. Patrons are entitled to six (6) copies of the *Journal of Shellfish Research*.

(d) Libraries and agencies not desiring to become Patrons may subscribe to the *Journal of Shellfish Research* and purchase copies for a subscription cost to be established by the Executive Committee.

(e) Any person, upon the recommendation of the Awards Committee, may be made an Honored Life Member with all the privileges of a Member, by a simple majority vote of the Executive Committee contacted by telephone, standard mail, or electronic mail before the Association's annual meeting, and shall be exempt from payment of dues.

**BYLAW III - MEETINGS, VOTINGS**

Section 1. The annual meeting of the membership shall be held at the time and place set by the Executive Committee. The Secretary shall serve by mail a written notice thereof, not less than sixty (60) calendar days prior to such meeting, to each member at their address as it appears on the records of the Association. The newsletter may serve as the written notice. There is no quorum requirement for the annual meeting.

Section 2. In all matters of business on which the membership is entitled to vote, all members shall be eligible to cast one vote.

Section 3. The annual meetings of the Association shall consist of a program of papers, discussions, symposia, demonstrations and other activities.

Section 4. The business meeting shall include, but not be limited to, the following:

(a) Report of the President

(b) Reports of the Secretary and Treasurer

(c) Reports of Committees (Audit-Budget-Finance, Membership, Resolution, etc.)

(d) Report of the Editor of the *Journal of Shellfish Research*

(e) Announcements of changes in editorship, editorial board, page charges, and page or budget limitations with respect to the *Journal of Shellfish Research*

(f) Old and new business

(g) Installation of officers

(h) Appointment of new committees and associate editors

**BYLAW IV - DUTIES OF OFFICERS**

Section 1. The President is responsible for the conduct of business and the organization of the Association. This individual shall preside over all annual and special meetings, shall make such appointments as are authorized in the Bylaws, and shall exercise such other functions and responsibilities as may be determined from time to time by action of the Association or the Executive Committee of which she or he is chair. The President is authorized to, from time to time, appoint ad hoc committees from the membership of the Association to perform various duties as in the discretion of the President may seem

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## **Bylaws...** Continued from page 6.

appropriate. The President shall also serve as ex-officio member of all committees.

Section 2. The President-Elect shall, at the end of the term, accede to the Presidency. During this term as President-Elect, he or she shall perform the duties of the President in the absence of the President. The President-Elect shall serve as chair of the Site Selection Committee and appoint the members of the Arrangements Committee for the annual meeting at which she or he will serve as President.

Section 3. The Vice President shall act in the capacity of President-Elect in the former's absence, or, in the absence of both the President and the President-Elect, shall perform the duties of the President until a new President-Elect has been elected. The Vice President shall serve as chair of the Program Committee and shall appoint other committee members.

Section 4. The Secretary shall be responsible for distributing ballots and the minutes of Association meeting and meetings of the Executive Committee, for maintaining an updated record of policy and operational actions decided by both groups, for maintaining contact with institutional subscribers of the journal, and for preparing the annual report for the Executive Committee meeting.

Section 5. The Treasurer shall be responsible for maintaining or overseeing the maintenance of membership and mailing lists. The Treasurer shall ensure that documented accounts of all transactions are maintained, that accepted bookkeeping and accounting practices are followed, and that the Association's financial resources are managed according to procedures adopted by the Executive Committee. The Treasurer shall, at the annual meeting, present a draft budget for the next fiscal year, and shall submit a detailed financial report audited in such a manner as shall be specified by the Executive Committee.

Section 6. No officer of the Association or member of the Executive Committee shall be answerable for any act, receipt, neglect, or default of any other officer or Executive Committee member. No officer or Executive Committee member shall be liable individually or collectively for any judgement or for any act done or step taken or omitted under the advice of counsel, nor for any mistake or fact or law nor for anything which they may do or refrain from doing in good faith.

Section 7. The Executive Committee may remove an officer or other member of the Executive Committee for improprieties, either financial or through his/her personal actions, only by a 3/4 majority vote of the Committee. This action can be undertaken only after legal counsel on the appropriateness and legal ramifications of said actions.

### **BYLAW V - PUBLICATIONS**

Section 1. The Association shall publish semiannually the *Journal of Shellfish Research* to include scientific and applied papers which satisfy the requirements of the Editorial Board. Papers may be submitted at any time. Accepted manuscripts will be published in the earliest convenient *Journal of Shellfish Research*. Authors shall be notified of the current page charge for publication when a receipt of a manuscript is acknowledged. Rates including Life Membership rates shall be reviewed annually by the Publications Committee and the Editor. The Executive Committee shall vote to approve or disapprove these rates and the rates shall be published in the Newsletter.

Section 2. The Editor and six (6) or more Associate Editors shall be nominated by the Publications Committee and selected by the Executive Committee for determinate periods to serve on the Editorial Board.

Section 3. Special publications, symposia, and other reports may be issued as determined by vote of the Executive Committee.

### **BYLAW VI - STANDING COMMITTEES**

Section 1. The President, with the approval of the Executive Committee, shall appoint the following committees, of at least two (2) members each, to serve for a term of one (1) year unless otherwise specified, or at the discretion of the Executive Committee.

(a) An Audit-Budget-Finance Committee to manage the financial affairs of the Association and to examine the financial report of the Treasurer before its presentation to the Association for approval.

(b) An Awards Committee composed of the immediate Past President (chair) and at least two (2) other members to review and nominate individuals who, by their exemplary service to the Association or to the profession, deserve recognition as Honored Life Member of the Association, and nominate individuals for the Wallace Award. These nominations are to be presented to the Executive Committee prior to the annual meeting. Awards will be decided by simple majority vote of the Executive Committee.

For the Honored Life Member award the Awards Committee should select individuals who have made substantial contributions to shellfisheries science, education, or the industry. The Awards Committee is responsible for preparing a nomination package. The nomination package shall consist, at a minimum, of:

1. The identity of the nominee,

2. A written biography suitable for publishing in the society journal. This biography should be written in collaboration with the nominating member.

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## **Bylaws...** Continued from page 7.

If the Executive Committee agrees to the selection, the Awards Committee shall be:

1. In charge of the presentation ceremony,
2. In charge of, with consultation of the Treasurer, obtaining a suitable plaque or award for the awardee,
3. In charge of ensuring that the biography is published in the society journal.

For the Wallace Award the Awards Committee should select individuals whose actions most demonstrate the principles and actions concerned with programs in shellfisheries, aquaculture, and conservation as exemplified by Mr. David Wallace during his lifetime in promoting understanding, knowledge, and cooperation among industry members, the academic community, and all levels of government (states, national, and international), and who has had outstanding success in bringing together shellfish scientists and industry officials for the benefit of shellfisheries. The award is not linked to NSA membership. The Awards Committee is responsible for preparing a nomination package. The nomination package shall consist, at a minimum, of:

1. The identity of the nominee,
2. A written statement concerning the general contributions of the individual. This biography should be written in collaboration with the nominating member.

If the Executive Committee agrees to the selection, the Awards Committee shall be:

1. In charge of the presentation ceremony,
2. In charge of, with consultation of the Treasurer, obtaining a suitable plaque or award for the awardee,
3. In charge of preparing and submitting the award statement to the society newsletter for publication.

The Awards Committee will also be responsible for advertising and accepting applications for the Melbourne R. Carriker Student Research Grant and the Michael Castagna Student Grant for Applied Research. Applicants for both grants must be student members in good standing of the Association and currently enrolled in a graduate program in a recognized degree granting institution anywhere in the world. Students who have previously been awarded either a Carriker or Castagna grant are not eligible to apply for that particular grant again. The Awards Committee will be responsible for reviewing the applications and selecting the most deserving recipient for each award. Awards 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. Amounts for each award will be reviewed and determined periodically by the Executive Committee of the Association.

(c) A Membership Committee to ensure that all people actively interested in the objectives of the Association are invited to become members.

(d) An Election Committee composed of the immediate Past President, the current President, and the President-Elect, to submit a list of nominees for all offices and members-at-large whose terms are expiring, with a short vitae of each to the Executive Committee six (6) months prior to the annual meeting. Upon selection by the Executive Committee, the candidates will be presented to the membership by special mail ballot within sixty (60) calendar days prior to the annual meeting. The ballots will be returned to the President-Elect who will be responsible for collecting and collating the votes and reporting the results to the Executive Committee. The candidates will be notified of the election results at least one week prior to the annual meeting. The Executive Committee will validate the election at their annual meeting.

(e) A Publications Committee to manage the publishing affairs of the Association. The Treasurer and/or the Journal Business Manager and the Editor of the *Journal of Shellfish Research* shall be a member of the Committee.

(f) A Resolutions Committee to draft and recommend resolutions considered prudent and necessary for the promotion of the objectives and purposes of the Association.

(g) A President's Committee consisting of all Past Presidents of the Association to assist the Executive Committee in broad policy matters and special issues. This committee shall be chaired by the immediate Past President.

**Section 2.** The President-Elect, with the approval of the Executive Committee, shall appoint the following committees, of at least two (2) members each, to serve for a term of one (1) year unless otherwise specified, or at the discretion of the Executive Committee.

(a) An Arrangements Committee to arrange for programs at the annual meeting for which the President-Elect will serve as President. This committee will be chaired by the President-Elect.

(b) A Site Selection Committee composed of the current President, the President-Elect, the Vice President, and one or more other members selected by the President, if desirable, to select the location of the annual conference for the next

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## **Bylaws... Continued from page 8.**

conference for which a location has not been chosen. Normally this committee will secure sites for meetings at least two years in advance. The President-Elect will serve as chair and will appoint a Local Arrangements Committee to secure hotel accommodations and meeting space, arrange for special events, and perform registration duties (in conjunction with the Treasurer) during the annual meeting at which the President-Elect will take office. All contracts and agreements negotiated by the Local Arrangements Committee will be done so in coordination with the President, President-Elect and Treasurer, and must be approved by the Executive Committee of the Association. As per the Constitution of the Association, contracts and agreements must be signed by the President, President-Elect or Treasurer.

(c) An Endowment Committee to examine student abstracts and applications for support to present papers at the next Annual Meeting. The committee will include the Treasurer who will report on the availability of funds. The committee will make recommendations to the Executive Committee for the awards. The committee will also be responsible for organizing the review of all qualified student presentations for the Thurlow C. Nelson Award for outstanding oral presentation, and the Gordon Gunter Award for outstanding poster presentation at the annual meeting. In consultation with the President and Treasurer of the Association, the Committee will be given the flexibility to determine the number of awards and honorable mentions to be presented at each meeting.

Section 3. The Vice-President, with the approval of the Executive Committee, shall appoint the following committees, of at least two (2) members each, to serve for a term of one (1) year unless otherwise specified, or at the discretion of the Executive Committee.

(a) A Program Committee to arrange for programs at the upcoming annual meeting. This committee will be chaired by the Vice President.

Section 4. All Standing Committees will conduct business based on voting by a simple majority of the members present at their meetings.

### **BYLAW VII - MEMBERSHIP LIST**

Section 1. The official membership list of the Association shall be distributed to all members as frequently as necessary at the discretion of the Executive Committee.

### **BYLAW VIII - RESOLUTIONS**

Section 1. The Association may express opinions and recommendations by resolution(s) or other appropriate action(s), except on specific numbered bills of federal or state legislatures.

### **BYLAW IX - AMENDMENTS**

Section 1. These Bylaws may be amended, altered or rescinded by a two-thirds (2/3) majority vote of those members of the Executive Committee present at any scheduled meeting of the Executive Committee for which proper notice has been given. The Secretary shall ensure that all such changes to the Bylaws are communicated to the membership at the earliest opportunity. Changes to the Bylaws may be made by teleconference provided a duly constituted meeting has been called and appropriate notification has been given to all members of the Executive Committee.

Section 2. A petition for change in the Bylaws can be submitted to the Executive Committee by ten percent (10%) of the membership. The Executive Committee shall review the recommended changes and offer them, with recommendations, to the membership for majority vote.

### **BYLAW X - REGIONAL SECTIONS OF THE ASSOCIATION**

Section 1. The Pacific Coast Section (PCS) of the Association is authorized to elect its own officers and hold meetings at times and places selected by its members. Local dues will be assessed. All members of the Association are invited to attend PCS meetings.

Section 2. The purpose of the Pacific Coast Section shall be to further the aims and interests of the Association on the Pacific Coast. The PCS shall operate under a constitution and bylaws established by its members insofar as they are not inconsistent with the constitution and bylaws of the parent Association.

### **BYLAW XI - MISCELLANEOUS**

Section 1. No member, committee chair, Executive Committee member or Office of this Association shall use the seal, logo or name of the Association to endorse, condemn or express an evaluation of any product or service of any firm or individual.

Section 2. No part of the financial resources of this Association may be used to defray the travel expense of any officer or member where the purpose of such travel is to influence or intervene in the internal legislation of any country.

Section 3. The Editor of the Journal of Shellfish Research will receive an honorarium, dispensed on a quarterly basis (calendar year). The amount of the honorarium is determined and subject to change by vote of the Executive Committee.

## Shell Display at Pectinid Workshop

Participants at the 14th International Pectinid Workshop held last April in St. Petersburg, Florida, received a special treat: a large display of recent scallops shown by Carole Marshall, an amateur collector from Lake Worth, Florida. The 100 foot display, had over 300 species from the Pecten and Propeamussium families with approximately 700 specimens shown.

Carole has been collecting Pectens since 1968. On a trip to Ft. Myers, Florida, she met a shrimp fisherman who gave her a 7 1/2 inch pair of Lion's Paws, which cemented her love of both shells and the family of Pectens.

Carole considers herself an advanced amateur and has done a considerable amount of research into the taxonomy and the life habits of Pectens. She has won many of the top awards in shell shows for her Pecten displays. Some of those include the coveted DuPont Museum trophy, given by the Delaware Museum of Natural History for the best educational exhibit in a show and the Conchologists of America trophy given to the exhibit that best exemplifies the excellence that an amateur collector can attain with an exhibit.

She also has given many slide programs to Shell Clubs, explaining different aspects of the changes now occurring regarding the Pectens, both taxonomically and in terms of new discoveries.

Carole said doing the exhibit for the Pecten conference was the best thing to happen to her collection. She researched and re-identified each shell in her collection finding many surprises. Some of the shells she had been trying to obtain for years, were found in her collection drawers with incorrect taxonomic labels. "I have a bad habit of obtaining shells and putting them in a drawer until I have time to access them into my collection. Unfortunately it has been many years since I have sorted through those drawers until now", Carole said.

"One of my best finds was *Manupecten alicei* (Dautzenberg & Fischer, 1897), from the west coast of Africa. I had 5 of

them in my collection and did not know it as they were labeled as *Manupecten pesfelis* (Linne', 1758), a Mediterranean shell", she said.

Asked why she was so enthralled with the Pecten family, Carole said, "They have everything. The shells are some of the most beautiful colorful things on earth, the animal is unique, with it's many eyes and swimming capabilities, they have a history in art, heraldry and religion, the discarded shells are used as road building material and fill and they feed the world. What more could you ask of an organism?"



Carole wanted to thank everyone at the conference for the kindness shown her and especially to Norm Blake. "What a great party, I hope I can come to another conference sometime soon. There is a wonderful core of knowledge among you all. Keep up the fantastic work and if I can help anyone with identifications I will certainly do my best to try", she said.

Carole is considerably more than an 'advanced amateur'. Her collection and knowledge are quite simply amazing. She has compiled a list of 'missing'

species and anyone who would like to contact her or help fill in the gaps is encouraged to do so: [marshalldg@aol.com](mailto:marshalldg@aol.com).

Sandy Shumway

### ***Veined rapa Whelks: Aliens in the Chesapeake***

An new educational multimedia CD ROM. For more information, contact:

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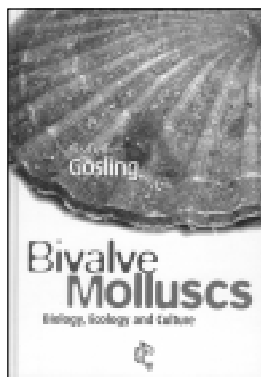
## Book Reviews

**Bivalve Molluscs-Biology, Ecology and Culture** by Elizabeth Gosling, Fishing News Books, Blackwell Science Ltd. (2003), 443 pp.

I found this a most readable book that presents a comprehensive overview of commercially important marine bivalves in the world and the physical, biological, environmental and economic factors that affect natural populations and culture operations. The author has undertaken a formidable task to write a book with such a broad subject matter incorporating the extensive amount of information that has accumulated on the subject, particularly during the past thirty years. Considerable skill has been shown in reviewing this vast literature and distilling it into a book that provides a good review of the present situation in commercially important bivalves in the world.

The twelve chapters cover material from basic biology of bivalves, feeding, reproductive cycle, through physiology, ecology, fisheries, culture, genetics, diseases and public health. Each chapter provides a good summation of current information on the subject without going into intricate detail that would be superfluous to the reader. Each chapter could be a book in itself. Numerous references are given after each chapter so the reader has access to considerably more information on a particular subject if desired. The author states over 1,200 references are given in the book, this alone makes acquisition of the book worth the money. Excellent illustrations, graphs, photographs and tables are provided in each chapter that compliment topics under discussion in the text and add considerably to understanding what the author is saying.

Some readers may feel examples cited by the author to illustrate subjects in some chapters are limited, e.g. the chapters on fisheries and aquaculture. While this may be true the examples given amply illustrate what is being discussed in the text and are completely adequate. Space is limited and only a limited number of examples can be given. As mentioned previously, numerous references are provided so the reader can obtain considerably more information on any of the subjects discussed in each chapter if desired. I found several chapters of particular interest, those on Genetics, Fisheries, Culture, Diseases and Parasites and Public Health.



continued on page 12.

**Responsible Marine Aquaculture**, edited by RR Stickney and JP McVey, (2002), CABI Publishing, New York, 391pp.

The real and perceived impact of aquaculture activities on the environment have been popular topics during the past five years. Driven mostly by environmental advocacy groups, articles and reports critical of aquaculture have appeared in the popular press, science-news sources, and in the scientific literature. Unfortunately, political advocacy and policy development in most democratic societies have evolved into adversarial exercises. Typically, the adversaries are advocacy groups and their targets, usually industries or governments

*Responsible Marine Aquaculture* is one of several recent books in which aquaculture scientists review specific topics related to environmental impact and try to present what is known and point out what is not known. The goal of these books has been to provide a technical and scientific basis for policy debates. The job can be difficult given that the usual practice of reviewing a topic and reaching a conclusion (or even summarizing) can brand a scientist a policy advocate—something most scientists try to avoid.

This volume is the result of a special session held during the Aquaculture 2001 conference in Orlando. The editors, Bob Stickney and Jim McVey, brought together a group of people to speak and later write on topics related to the impact of aquaculture on the environment. In the introductory chapter, Bob Stickney explains that the term “responsible” was chosen to be used in the title in order to avoid the semantic arguments and connotations often associated with the more popular “sustainable”.

The editors and authors did a good job of addressing a variety of topics in the eighteen chapters. The book provides a lot of detail on some topics, but the strength of the volume—and the thing that makes it a very worthwhile addition to an aquaculture library—is that most of the chapters offer overviews and, in some cases, conceptual frameworks, of specific topics. Topics covered include: public policy and regulation (Rick DeVoe and Catherine Hodges), conflicts with marine mammals and potential resolutions (Bernd Würsig and Glen Gailey), aquaculture and concerns of recreational fishing interests (Bill Harvey and Larry McKinney), relationships of aquaculture to commercial fishermen (Rollie Barnaby and Steve Adams), marine stock enhancement (Ken Leber), polyculture (Jim McVey, Bob Stickney, Charles Yarish and Thierry Chopin), aquaculture facilities as habitats (Barry Costa-Pierce and Chris Bridger), mangroves and aquaculture (Claude Boyd), netpen effects (Kenneth Brooks, Conrad Mahnken and

continued on page 12.

## Pacific Coast Section Report

The Pacific Coast Section of NSA again met jointly with the Pacific Coast Shellfish Growers Association in Portland, Oregon this October 8-10. The annual meeting of the west coast shellfish research community resulted in an excellent meeting that again focused on bringing together shellfish growers and the research community. Environmental aspects of shellfish culture and ecological characteristics of west coast estuaries served as a focus of this year's meeting. In addition to a slate of excellent presentations, the annual business meeting of the Pacific Coast Section of NSA resulted in the election of new officers. Rich Childers (Washington Department of Fish and Wildlife biologist) was elected Chair for the coming year. Vice-Chair is Don Velasquez (WDFW fisheries biologist) and Secretary/Treasurer Kelly Toy, a biologist with the Jamestown S'Kallum Native American tribe. Rounding out the slate are Members at Large, Jennifer Whitney (WDFW biologist) David Fyfe (NW Indian Fisheries Commission), Jon Agosti (Qutekchak Hatchery, Seward, Alaska) and Andy Suhrbier (Pacific Shellfish Institute, Olympia, WA). Finally, outgoing Chair, DFO scientist Graham Gillespie (Pacific Biological Station) will assist the new officers in the coming year with PCS business, as necessary.

Excellent student presentations again characterized this year's meeting. The award for the best student paper was University of Washington graduate student Kirstin K Holsman's research presentation entitled "*Spartina* Impacts on Dungeness Crab Populations in Willapa Bay." Her paper was selected among 12 other presentations that reflected the excellent and growing participation of graduate students engaged in both basic and applied research in the Pacific Northwest.

Joth Davis

### Bivalve Molluscs... Continued from page 11.

I found a few cavils but these do not detract from the usefulness of the book nor its readability. Other reader may find other minor points but again these will not detract from the main emphasis of the book. Such minor points may be corrected if a revised edition of the book is published.

In the Preface the author states this book was written primarily for undergraduate students. I believe it will have a much broader appeal and be a most useful addition to the libraries of other people such as graduate students, academics and professionals in the field as well as to people in the industry. It will serve as a good reference book. Certainly both undergraduate and graduate students will find it most useful and it could provide an impetus for them to undertake careers in the field of molluscan biology.

Professional people working in the field of molluscan biology will find chapters in fields other than those of their expertise provide valuable information to help keep them up to date in the broader field of molluscan biology. The book should prove of great interest to people in industry since it provides an excellent overview of information on commercially important marine bivalves that can assist them in their business operations.

This book is a welcome addition to my library and I would certainly recommend it to others who have any involvement in the field of molluscan biology.

Neil Bourne

### Responsible Aquaculture... Cont. from page 11.

Colin Nash), culture of non-indigenous species (Bob Stickney), genetics (Bill Hershberger and L. James Lester), application of ecosystem modeling approaches to predicting effects of aquaculture (Mac Rawson and nine collaborators), shrimp farm effluents (Granvil Treece), history and outlook of fish meal used in aquaculture feeds (Ron Hardy and Albert Tacon), the use of wild-caught juveniles in coastal aquaculture (Cathy Hair, Johann Bell and Peter Doherty), and interacting with non-governmental organizations (Terry Tiersch and John Hargreaves).

Each person who reads this book will find sections that are of interest and very informative. This reviewer particularly enjoyed the chapters on fish meal, the use of wild-caught juveniles in aquaculture, and environmental effects of netpens.

The book does have a few detractions. A chapter is dedicated to mangroves while a large part of a second chapter also deals with the topic. Tables in the fish meal chapter reporting percentages of fish meal use are difficult to follow. The chapter on interacting with non-governmental organizations lists the World Aquaculture Society in a table with advocacy groups—an association that the World Aquaculture Society has worked hard to avoid. However, a few detractions aside, this is a book that the editors and authors can be proud of—and a book that anyone who has an interest in aquaculture and the environment will find valuable.

Joe Tomaso



## ISSC Update

This past August saw the 21st meeting of the Interstate Shellfish Sanitation Conference in Portland, Oregon. The conference is now held every other year. This a brief report of some of the highlights of the meeting. Due to the large number of proposals for changes to the Model Ordinance, details of the actions taken on individual proposals cannot be covered in this newsletter. The actions taken on each proposal are detailed in the Summary of Actions. Meeting attendees have copies of the Summary of Actions and the Summary which will be posted on the ISSC website in the near future.

Due to budget constraints the Interstate Shellfish Shippers List (ICSSL) that is published by FDA on a monthly basis will be discontinued shortly. The FDA has taken input from ISSC members on the type of use this document receives and its importance and has listened to many suggestions. FDA is working to come up with alternative means of publishing the Shippers List. It is likely that the List will be available via email as well as on a subscription basis.

The European Union will be doing an audit of the US shellfish program. If the desired level of consistency is present, expect to see more trade with the EU, both imports and exports of shellfish. The EU has recently completed the audit of both the New Zealand and Canadian programs.

The Jellett Rapid Test (formerly known as the MIST Alert) was approved as a level IV laboratory method for PSP. In addition to making some PSP testing less cumbersome and less expensive, the test kit may open some new opportunities for off-shore harvesting or in areas where there are long term PSP closures.

*Vibrio vulnificus* was a dominant theme once again at the Conference. Many in the industry are familiar with the illness reports. Due to confidentiality issues these will now be reported quarterly in tabular format.

As most in the industry are aware, the state of California has banned the sale of Gulf of Mexico oysters during May through October due to concerns about illnesses from *Vibrio vulnificus*. The ISSC held special sessions of the Executive Board to address this issue and to address any violation of Procedure V that provides for reciprocity between the member states. At General Assembly the voting delegates narrowly defeated a motion to censure the State of California and revoke voting privileges. Although the motion failed, the Conference will write the state and express its displeasure with the actions taken, in particular that the state has violated the spirit and intent of Procedure V. Task Force III convened a working group to write a procedure for addressing future Procedure V complaints.

continued on page 14.

## ECSGA Update

Over the past year there has been an effort to start a new grower's association; the East Coast Shellfish Growers Association (ECSGA) patterned after the Pacific and Gulf Coast industry groups. The ECSGA hopes to educate the public about the benefits of shellfish aquaculture, provide marketing assistance to growers, develop BMPs for industry and serve as a source for accurate information for the press. We held our first official meeting in November 2002 and continue to hold virtual discussions through an internet discussion list which has around 95 subscribers.

Specific goals include the production of tangible products to support the industry. We are working on publishing a position paper on the beneficial impacts of shellfish culture on the environment and a companion glossy brochure.

In June the ECSGA staffed a booth at the NOAA Fish Fry in Washington where we served several thousand oysters and clams to NOAA employees and congressional staffers. (Ed Rhodes has some great photos - also may be up on our website).

Organizing has been challenging because the East coast industry is a diverse group of small growers spread across a huge geographic range. Few of these growers have the resources to deal with the issues facing our industry and the ECSGA will allow our industry to speak with a unified voice.

In June a mass mailing was sent to every grower on the East Coast soliciting membership and as of August about 60 individuals and firms have joined. To download application or join the listserve discussion visit the website [www.ECSGA.org](http://www.ECSGA.org).

Bob Rheault

## Metamorphosis

NSA member Dr. Pierre Edmond Lubet, of Mondeville, France passed away this past February 23, He was 78.

Dave Bushek has moved to Rutgers University at the Haskin Shellfish Research Laboratory (see back cover for new contact information).

Jay Parsons is now working for Fisheries and Oceans in Ottawa, Canada (see back cover for new contact information).

Guilherme Rupp successfully defended his PhD thesis on lion's paw scallops at Memorial University, St. John's, Newfoundland, Canada and has moved back to Brazil to take up a position with the Santa Catarina State government.

## **ISSC Update...** Continued from page 13.

There is a widespread education campaign ongoing to educate the approximate 7% of the population that is at risk for *Vibrio vulnificus*, that oysters should not be consumed raw. Industry members from non-Gulf states have continued to express concern that this education campaign is dissuading non at-risk individuals from eating raw oysters. Several surveys have been done with the purpose of establishing the baseline number of at-risk persons who do eat raw oysters. The education campaign seeks to increase this baseline number. Unfortunately, the survey did not ask other respondents if they have stopped eating raw oysters, and if so, what information led to this decision.

The international Codex group is in the process of revising the standard for Cadmium in shellfish. The current standard is 4 ug/g. The proposed new standard is 1 ug/g. This will mean that shellfish exported to those countries that use the Codex standard may not exceed 1 ug/g. If the proposed standard is adopted, expect to see the same standard applied within the United States. Many shellfish, particularly, but not exclusively, on the West Coast exceed the new proposed standard. If you have any data on Cadmium please submit it to the ISSC office as soon as possible.

The next biennial meeting of the ISSC will be held in Mobile, Alabama during the summer of 2005. The Marriott Grand Hotel in Point Clear has been selected as the site.

Lori A. Howell

## **President's Message...** Continued from page 1.

included with this newsletter asking for your input on the quality and content of all NSA publications: the Journal, the Newsletter and the WEB page. Please take a few minutes to answer the questions and let us know your thoughts. We are especially interested in your desire to have papers available electronically, back issues on CD, and whether or not you would be willing pay for such products. You'll also note an advertisement in this issue for a WEB assistant. It's not a lucrative position, but it's a great chance to get involved.

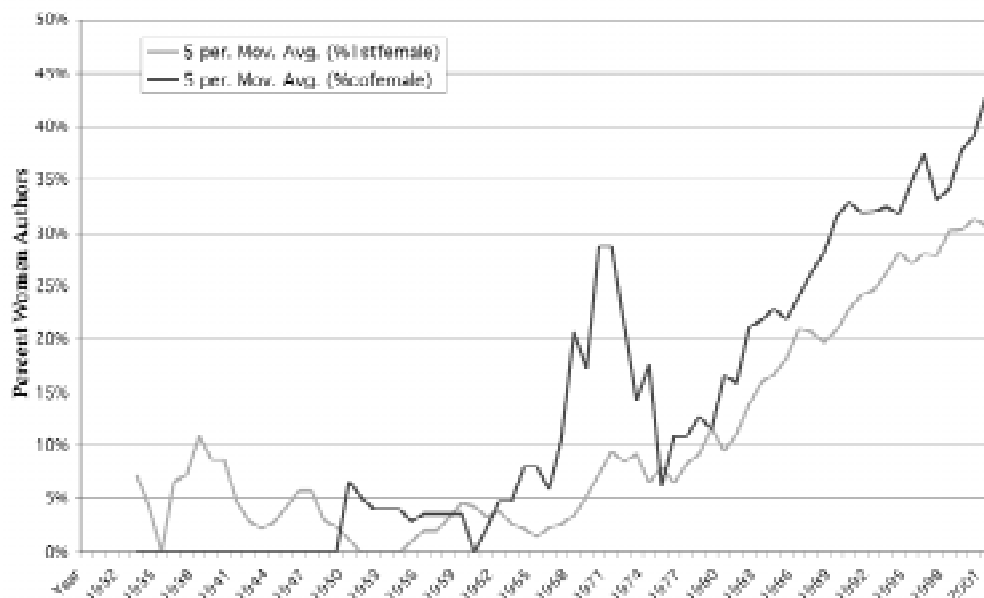
The Membership Committee is always looking for volunteers and I am pleased to note that we have gained 28 new members since the New Orleans meeting, bringing our membership to 883. The goal of 1000 members by next year is in sight! We plan to update and correct the membership roster with an anticipated reprinting after the Hawaii meeting. Please take a moment to check your entry and let us know if corrections are needed.

The Recruits are gearing up for Hawaii. I've asked Marty Chintala to work again with the Recruits to help arrange schedules, orientation packets, and other activities. Start making plans now and contact your student reps to make arrangements for roommates.

We've still got lots do before March and your input is always welcome.

Sandy Shumway

**Women as First or Co-Authors on Presentations at Annual NSA Meetings**



*Data for this graph was compiled by Susan Ford and appears in the appendix of "Taming of the Oyster" by NSA Historian, Mel Carriker.*

## Upcoming Meetings

**20th Annual Meeting of the Aquaculture Association of Canada:** October 29 - November 1, 2003, Victoria Conference Center, Victoria, BC, Canada. The theme of the meeting - "Two Decades and Beyond" underscores the successful development and maturation of the aquaculture industry in Canada and its bright and sustainable future. For more information, visit <http://www.aquacultureassociation.ca/ac03/welcome.html>.

**7th International Conference and Workshop on Lobster Biology and Management:** February 8 – 13, 2004, Hobart Tasmania Australia. For more information, contact the Conference Secretariat at Conference Design Pty Ltd, PO Box 342, Sandy Bay Tasmania 7006, Australia or visit <http://www.cdesign.com.au/lobster2004>.

**24th Milford Aquaculture Seminar:** February 23-25, 2004, Quality Inn, New Haven, CT. For more information, contact Walter Blogoslawski at phone 203-882-6535 or email [walter.blogoslawski@noaa.gov](mailto:walter.blogoslawski@noaa.gov).

**Aquaculture 2004:** March 1-5, 2004, Hawaii Conference Center, Honolulu, Hawaii. International Triennial Conference and Exposition of the National Shellfisheries Association, American Fisheries Society Fish Culture Section and

the World Aquaculture Society. For more information, contact the conference manager at phone (760) 432-4270 or email: [worldaqua@aol.com](mailto:worldaqua@aol.com). **Abstracts are due August 1, 2003.**

**5th International Conference on Recirculation Aquaculture:** July 22-25, 2004, Hotel Roanoke and Conference Center, Roanoke, VA. For more information, email: [aqua@vt.edu](mailto:aqua@vt.edu), phone (540) 231-6805 or visit <http://www.contend.vt.edu/aquaculture/r-aqua/index.html>.

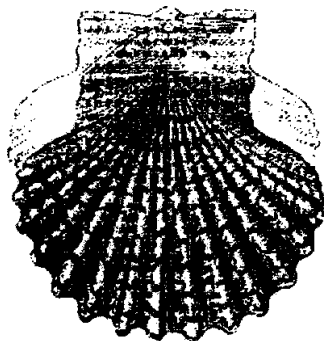
**Second National Conference on Coastal and Estuarine Habitat Restoration:** September 12-15, 2004, Washington State Convention & Trade Center, Seattle, Washington. For more information, please contact Nicole Maylett, Conference Coordinator by phone at 703-524-0248 or email: [nmaylett@estuaries.org](mailto:nmaylett@estuaries.org) or visit <http://www.estuaries.org>.

**19th International Congress of Zoology:** August 23-27, 2004, Beijing, China. There will be a session on "Molluscan Systematics, Evolution and Population Genetics". For more information, contact Dr. Ximing Guo at [xguo@hsrl.rutgers.edu](mailto:xguo@hsrl.rutgers.edu) or visit <http://www.icz.ioz.ac.cn>.

If you would like to announce a meeting, conference or workshop that might be of interest to NSA members, please contact Chris Davis (see back page for contact information).

## Future NSA Meetings

Most of the discussion in this newsletter is about Hawaii — but plans for future meetings are made years in advance. The contract has been signed with the Doubletree Hotel in Philadelphia for 2005, Susan McBride has been scouting sites for the 2006 meeting in Monterey, the next triennial will be in Austin, Texas in 2007, and a skeleton committee has been formed for the NSA Centennial meeting in 2008.



## WANTED WEB Assistant

We are seeking someone interested in helping to develop and maintain the NSA WEB page. Position to begin immediately. The new WEB assistant will actively seek out information to be posted, work with the WEB Master to improve the content and versatility of the page, and assist in any other activities deemed appropriate by the WEB Master and EXCOM. Stipend: Meeting registration fee and \$300 annually. All applicants welcome — this is an ideal opportunity for a graduate student to become more involved with NSA.

Send your application by email to:

[sandra.shumway@uconn.edu](mailto:sandra.shumway@uconn.edu) and copy to the WebMaster ([news@shellfish.org](mailto:news@shellfish.org)) and the Publications Co-Chairs (See back cover for addresses).

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