

National Shellfisheries Association

QUARTERLY NEWSLETTER

FALL 1998



ST. JOHN'S, NEWFOUNDLAND

Call For Papers Halifax 1999

Hear ye, hear ye! This is the first, last and only call for papers for the Halifax 1999 meeting. **Deadline for abstract submission is December 11th, 1998.** The Halifax program is shaping-up nicely, and we have organized a number of special, invited sessions that are sure to be one of the highlights of the meeting. There will also be numerous high-quality sessions that develop from the contributed papers and posters. So don't miss this opportunity to contribute to what will surely be an exciting meeting!

The procedures for submission have been modified a bit from previous years, so please read the instructions carefully. Those of you who have been invited to present in one of the special sessions, please see the instructions for invited presentations on page 3.

Finally, I would like to thank all of the special-session organizers for the work they are doing (and are about to do) to help make the Halifax 1999 meeting an exciting and productive gathering. I hope to see all of you in Halifax next April!

J. Evan Ward
NSA Vice-President and Program Chair

In this issue:

- ***Invited Sessions***
- ***Call for Papers***
- ***Student Endowment Fund Awards***
- ***Conference Announcements***

President's Message

I've been thinking about the Halifax meeting for so long that it seems that the **CALL FOR PAPERS** should have gone out some time ago, but it didn't; it's just now coming out. Evan Ward is putting together a super meeting which will be held April 18-22, 1999 at the Westin Nova Scotian and will include several special sessions which are listed in this newsletter as well as contributed papers. Get busy on your abstracts and please try to get them to Evan well before the deadline. (See Evan's CALL elsewhere in this issue.) This is one meeting you don't want to miss.

Remember it's just us shellfish people this time; not all those catfish and alligator farmers we see every three years. Some of us don't get to visit Canada that often, so we have to make the best of the occasional opportunities. The last time NSA held an annual meeting in Halifax was in 1987, and the previous Canadian meeting was in Vancouver, British Columbia in 1979. Since we don't know when we'll be back up north again, you don't want to miss this chance. Jay Parsons has been working on local arrangements for over a year so you can be sure that accommodations will be top notch.

Sandy Shumway has already requested items for the Student Endowment Fund Auction, and will continue to do so until the auction begins. But I would also like to remind each of you to set aside one or more items (shellfish-related or not) that NSA folks would eagerly spend their money on. The more items we have donated, the longer the auction lasts, the more fun we have, and the better the yield for the Student Endowment Fund. Also, if we get enough items, I won't have to bring as many fossil pectinids as I have the last two years. You can send your contributed items to Sandy or better yet bring them with you to the meeting. If you're going to bring them, however, please let her know what you'll be bringing.

continued on page 2

Invited Sessions Halifax - 1999

1. Cold Water Aquaculture Health. Co-organizers Bruce Barber (bjbarber@maine.maine.edu) & Sharon McGladdery (mcgladderys@mar.dfo-mpo.gc.ca)

2. Scallop Fisheries: Incorporation of Scallop Biology and Ecology into Management Advice. Organizer Ellen Kenchington (kenchington@mar.dfo-mpo.gc.ca)

3. Shellfish-Microbial Interactions: Ecological and Human Health Perspectives. Co-organizers Fred Genthner (genthner.fred@epamail.epa.gov) & Aswani Volety (voley.aswani@epamail.epa.gov)

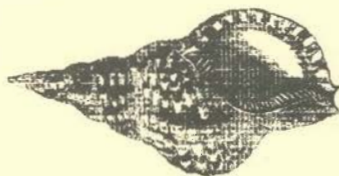
4. Modeling Shellfish Ecosystems. Organizer Eileen Hofmann (hofmann@ccpo.odu.edu)

5. Science, Business and the Future of the Shellfisheries Industry. Organizer Joth Davis (jdavis@wolfenet.com)

6. Physiological Ecology of Shellfish: Applications and Future Directions. Organizer Bruce MacDonald (bmacdon@admin1.unbsj.ca)

7. Perspectives in Lobster Biology and Fisheries. Organizer Peter Lawton (lawton@sta.dfo.ca)

8. Shellfish Immunology: Adaptation and Modulation. Co-organizers Robert Anderson & Cal Baier-Anderson (cal@cbl.umces.edu)



President's Message con't

Before long Roger Newell will be finalizing the slate for elections next year. It is not an easy job to find qualified candidates who are willing to serve for each position, so if Roger or one of his committee members asks you to be a candidate, they are not doing so without having given serious thought to the matter. Please consider running if asked. The quality of our candidates is very important to the continued smooth flow of business within NSA.

We recently bought a flatbed scanner so that it would be easier for Carolyn Mueller Hansen to get printed information onto the web site. She will continue to build this site into an increasingly valuable information resource. If you have visited the site recently at www.shellfish.org, you probably saw things that you hadn't seen there before, and the scanner should increase the rate at which new information is uploaded. If there are things that you would like to see on our website, please let Carolyn know.

STUDENTS! Please note the application form for Student Endowments and Awards funds included in this newsletter which can help offset some of the costs of attending the Halifax meeting. This will be the only notification. These are competitive grants so I wish all of you the best.

George Abbe

AUCTION

Fall cleaning? Christmas shopping? It's time to contribute to the next
**ANNUAL AUDACIOUS ACTION-PACKED
AUCTION**
to benefit the STUDENT ENDOWMENT FUND.

Donations of just about any new or used shellfish-related items will be accepted. These 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. Send donations to Sandy Shumway at the address listed on the back page of this newsletter.



Call For Papers

FIRST, LAST AND ONLY CALL FOR PAPERS for the 1999 Annual Meeting of the National Shellfisheries Association, Sunday April 18th through Thursday April 22th, 1999, Halifax, Nova Scotia.

INSTRUCTIONS FOR ABSTRACT FORM

DEADLINE FOR ABSTRACT SUBMISSION IS DECEMBER 11, 1998.

The procedures for submission have been modified a bit from previous years, so please read the following instructions carefully. Those of you who have been invited to present in one of the special sessions, please see the instructions for invited presentations below.

Instructions for Contributed Presentations: For those who are interested in submitting a talk or poster for a contributed session, follow the instructions for preparing the abstract. Students who want to be considered for the Nelson Award, remember to indicate this on the form. Then do one of the following.

1. Oral Presentations: Send your abstract and fee (US\$20) to: Dr. Evan Ward, Department of Marine Sciences, University of Connecticut, 1084 Shennecossett Rd., Groton, CT 06340, USA. Be sure to include the abstract fee. In addition, E-mail me the exact title and full names of the authors of your presentation (jeward@uconnvm.uconn.edu).

2. Poster Presentations: a) If you plan to present a poster, and feel that it fits the theme of one of the invited sessions, contact the session organizer (see list on page 2). If the organizer feels that your poster complements the invited session, you will be placed in that session's thematic poster block. You will then send your abstract and fee to that session organizer. b) If you plan to submit a poster to the general contributed poster block, then send your abstract and fee to: Dr. Evan Ward, Department of Marine Sciences, University of Connecticut, 1084 Shennecossett Rd., Groton, CT 06340, USA. Be sure to include the abstract fee. In addition, E-mail me the exact title and full names of the authors of your presentation (jeward@uconnvm.uconn.edu).

Instructions for Invited Presentations: If you have been invited to present a talk in one of the special sessions, follow the instructions for preparing the abstract. Then send your abstract and fee to the organizer for your session. Be sure to include the abstract fee.

A PAGE CHARGE OF US\$20 MUST BE SUBMITTED WITH EACH ABSTRACT.

Please note that the abstracts and abstract fee are to be sent to the program or session chair. The abstract fee must be paid in order for your abstract to be published in the *Journal of Shellfish Research*.

PREPARING THE ABSTRACT

All accepted abstracts will be re-typed and included in the *Journal of Shellfish Research*; therefore, it is not necessary to have abstracts in camera ready form. However, it is essential that abstracts comply with the instructions below.

The abstract form may be reproduced and used in lieu of the original. Type the title (all capitals) and name(s) of author(s) and address(es), punctuating as shown in the accompanying example. An asterisk (*) should be placed after the last name of the author presenting the paper. DOUBLE SPACE all typing on the abstract form. Do not leave more than one space between the title information and the body of the abstract. The body of the abstract should be indented.

The entire abstract must be placed within the rectangular outline of the abstract form. THE SPACE IS DESIGNED TO ACCOMMODATE AN AVERAGE OF 250 WORDS TYPED DOUBLE SPACE WITH A STANDARD ELITE TYPE-FACE. When using abbreviations, spell out in full first, followed by the abbreviation in parentheses. PLEASE PROOF-READ ABSTRACTS BEFORE SUBMISSION.

The accompanying abstract form can be used for both oral and poster presentations; specify the preferred method of presentation in the space provided on the form. Check the appropriate box if the author is student or recent graduate and is eligible for the Thurlow C. Nelson Award or Poster Award.

In order to maintain and expand student participation in the Association, a Student Endowment Fund has been established. For those students wishing to apply for travel support for presentation of paper or poster, please fill out a Endowment Fund application form and submit it with your abstract to Dr. Maureen Krause or Dr. Aswani Voley as detailed in the accompanying article.

Prepare one original abstract form and send it with check (personal or institutional) or money order for US \$20 (checks must be drawn on a US bank and made out to the NSA), to Program Chair Dr. Evan Ward at the address above or one of the session chairs (if applicable). **Abstracts must be mailed before December 11, 1998.**

Abbreviated title: _____

(seven words or less)

First author's mailing address: _____

(if different from above) _____

Telephone: _____ Email: _____

Preferred Method of presentation: _____ Oral _____ Poster _____ Either

Is this an invited paper for a special session? _____ Yes _____ No If yes, which? _____

IS FIRST AUTHOR A STUDENT OR RECENT GRADUATE? _____ Yes _____ No

(all student authors are eligible for the Thurlow C. Nelson Award or Poster Award)

SIZE AND DEPTH DEPENDENT LARVAL MORTALITY: A MODELING STUDY.

Margaret M. Dekhenieks,* Eileen E. Hofmann, and John M. Klinck, Center for Coastal Physical Oceanography, Old Dominion University, Norfolk, VA 23529; **Eric N. Powell,** Haskin Shellfish Research Laboratory, Rutgers University, Port Norris, NJ 08349.

The rates of mortality for larval stages of most marine organisms are difficult or impossible to measure, and as a consequence are largely unknown. This is problematic since mortality, in particular predation loss, is an important process determining recruitment and the structure of marine communities. Simulation models provide one means of testing the effects of different mortality losses on population structure. Thus, a time and depth-dependent model of the growth and behavior of larvae of the Eastern oyster, *Crassostrea virginica*, was developed to investigate the effects of different predation strategies on the survivorship of this species. Simulations that included a size-dependent mortality showed that the largest number of larvae survive to settlement size if predation loss decreases with larval size. Simulations that included depth-dependent predation loss showed that more larvae survive to settling size when predation is concentrated in surface waters. However, few larvae survive if benthic predation rates are high or if predation rates are constant with depth. Simulation results clearly illustrate the differences in larval survivorship resulting from variable size and depth dependent predation mortality.

Abbreviated title: Size and depth dependent mortality

(seven words or less)

First author's mailing address: same

(if different from above) _____

Telephone: 804-683-5550 **Email:** deks@ccpo.odu.edu

Preferred Method of presentation: ☒ **Oral** ☐ **Poster** ☐ **Either**

Is this an invited paper for a special session? ☐ **Yes** ☒ **No** **If yes, which?** _____

IS FIRST AUTHOR A STUDENT OR RECENT GRADUATE? ☒ **Yes** ☐ **No**

(all student authors are eligible for the Thurlow C. Nelson Award or Poster Award)

NATIONAL SHELLFISHERIES ASSOCIATION STUDENT ENDOWMENT FUND

The National Shellfisheries Association Student Endowment Fund was established in 1989 to maintain and expand the participation of students in the Association. Contributions for the Fund are tax-deductible and are used to defray the costs associated with presenting oral and poster presentations at the Annual Meeting. The funds are administered by an appointed committee which reviews student applications and makes recommendations for disbursement of funds.

STUDENT ENDOWMENT/AWARDS HALIFAX, NOVA SCOTIA

Students participating in the 1999 meeting in Halifax are invited to apply for both **travel awards** and **presentation awards**. For consideration for either award, students must present only their original research. Recent graduates will also be considered if they present only research gathered while a student. A short description of these awards and the requirements for consideration follow. Please note that incomplete applications may not receive equal consideration for either type of award.

PRESENTATION AWARDS

At every annual meeting, the best oral and poster presentations by students are acknowledged.

The **Thurlow C. Nelson Award** is to be given for the outstanding oral presentation of research that represents a distinctive and valuable contribution to shellfisheries science. The award is named after the distinguished shellfish biologist who served as NSA President from 1931 to 1933 and contributed more than 125 papers, many relating to oyster biology. The award includes a certificate of accomplishment and membership for four years in the Association. Oral presentations are judged on the following aspects: a) written abstract, b) scientific content and relevance, c) oral and visual aspects of the presentation, and d) handling of questions.

The **NSA Student Poster Award** is to be given for an outstanding poster presentation of research that represents a distinctive and valuable contribution to shellfisheries science. The award includes a certificate of accomplishment and membership for one year in the Association. Poster presentations are judged on the following aspects: a) written abstract, b) scientific content and relevance, c) quality of figures and text, and d) handling of questions.

STUDENT TRAVEL AWARDS

To facilitate the active participation by students in the 1999 meeting, travel awards will be granted to cover either registration and/or lodging. These funds are competitively awarded based primarily on abstract quality and content, and secondarily on financial need (i.e., distance of travel, support level).

AWARD REQUIREMENTS

Students will only be considered for travel and presentation awards if they complete all of the following items. Students who do not need travel assistance but still wish to be considered for a presentation award **must** still complete these tasks.

- 1) Fill out the abstract submission form. Check the appropriate box(es) on the abstract submission form requesting consideration for student presentation and / or travel awards.
- 2) Fill out the Student Endowment Award application form below (page 7).
- 3) Obtain one letter of recommendation from your advisor or other faculty mentor.
- 4) Enclose the Student Endowment Award Application in a separate envelope addressed to the Student Awards Committee. The application should consist of a) the Endowment Award application form, b) letter of recommendation and c) a copy of the abstract submission form.
- 5) Mail your complete set of Student Endowment Award application materials to Dr. Maureen Krause or Dr. Aswani Volety (contact information on back page) by the **abstract deadline December 11, 1998**.

Remember that the original abstract, abstract submission form and fee should be submitted to the Program Chair, Dr. Evan Ward, at the address listed on page 3 (or session chair if applicable). Please forward any questions concerning student awards to either Aswani Volety or Maureen Krause (contact information on back page). Good Luck!

Metamorphoses

• **Dr. Roger Mann** and wife **Elaine** are proud parents of their new son - **Nicholas Andrew**. After being born at 28 weeks and weighing in at 753 g (1 lb 10 oz), he came home after 74 days in the Neonatal Unit. He is now over 8 lb and doing well. Mom, Dad, and big brothers Matthew (age seven, on October 23) and Kyle (four last June 9) are still elated, although Mom and Dad are definitely in extended sleep deprivation.

Judges Wanted for Student Endowment Fund Awards

The NSA is committed to helping our undergraduate and graduate students become active in the field of shellfish research and in our association. We do so by encouraging students to attend and present at annual meetings. Most of you have probably taken part in one of our fabulous and audacious auctions to benefit the Student Endowment Fund, or have purchased hats, cookbooks, pins and mugs, with the proceeds benefitting the SEF. Do you know where that money goes? The Student Endowment Fund of NSA provides travel and registration assistance to students presenting at our Annual Meetings and to fund the Thurlow Nelson Award for Best Student Oral Presentation and the Best

Poster Award. Both travel and presentation awards are competitive, and that's where YOU come in. The Student Awards Committee needs your help in judging applications for travel awards and for student presentations at NSA '99 in Halifax. If you are willing and able to serve as a judge for either competition, please contact one of the co-chairs of the Student Awards Committee, Dr. Aswani Volety, or Dr. Maureen Krause (contact information on back page).

Faculty advisors – Don't forget to remind your students to apply for SEF awards before the abstract submission deadline (**December 11, 1998**)!



STUDENT ENDOWMENTS AND AWARDS

APPLICATION FOR THE 91ST ANNUAL MEETING OF THE NATIONAL SHELLFISHERIES ASSOCIATION HALIFAX, NOVA SCOTIA, APRIL 18 - 22, 1999

NAME: _____

INSTITUTION: _____

DO YOU WANT TO BE CONSIDERED FOR A PRESENTATION AWARD? YES NO (Circle one)

DO YOU WANT TO BE CONSIDERED FOR A TRAVEL AWARD? YES NO (Circle One)

PRESENTATION FORMAT: ORAL POSTER (Circle one)?

PRESENTATION TITLE (Attach a copy of abstract form):

ADDRESS: _____

PHONE: _____ EMAIL: _____

REFERENCE (Advisor / Mentor): _____

APPLICANT'S SIGNATURE: _____

DEADLINE FOR RECEIPT OF APPLICATION IS DECEMBER 11, 1998!

Graduate Assistantship **Available for Oyster Research**

The Department of Fisheries and Allied Aquacultures, Auburn University is seeking qualified students to pursue a Masters degree while participating in field and laboratory research related to survival of hatchery produced oyster seed. Applicants must be accepted by the Graduate School (contact: Dean of the Graduate School, 106 Hargis Hall, Auburn University, AL 36849-5122; augrads@mail.auburn.edu). Prospective students will need to be flexible in their living arrangement to accommodate classwork at the main campus in Auburn and field work in Mobile Bay. Qualified applicants can begin in 1999 during Winter Quarter (January) or Spring Quarter (March). For more information contact Dr. Rick Wallace (see below) or Dr. David Rouse at (drouse@acesag.auburn.edu). Applicants should send copies of back ground information to Drs. Wallace or Rouse in addition to materials required by Graduate School.

Rick Wallace, Extension Marine Specialist/Assoc. Prof., AUMERCASG, 4170 Commanders Dr., Mobile, AL 36615; phone: 334 438 5690, fax: 334 438 5670

David Rouse, Professor, Dept. of Fisheries, Auburn University, Auburn, Alabama 36830; phone: (334) 844-9125, fax: (334) 844-9208

Journal of Shellfish Research

You may notice a rush of journals this year. There will be 5 numbers in Volume 17, all at no extra cost to the membership or the Association. You should have already received Volume 17(1) in June of this year. Volume 17(2) is due to be mailed momentarily and is a special issue on blue crabs. Volumes 17(3) and 17(4) will be mailed together. Volume 17(3) is the Proceedings of the 3rd International Abalone Conference and Volume 17(4) is our regular December issue. Volume 17(5) contains 4 special symposia (sea urchins, International Molluscan Shellfish Safety Conference, Spatial Data and Remote Sensing in Invertebrate Fisheries, Gene Conservation: Management and Evolutionary Units in Freshwater Bivalve Management).....Thank you Sandy!

New Treasurer Reminder

As a reminder, Dan Kreeger has assumed the mantle of NSA Treasurer from Evan Ward. This does not change your membership dues payments, donations, or questions about membership, which should continue to be directed to Nancy Lewis (Bookkeeper). Please direct all other accounting issues, including page charges, back-issue orders and offprint payments for the Journal of Shellfish Research to Dan Kreeger. And please contact Dan if you have any questions or suggestions about our society's finances.

Aquatic Health Web Sites

Selected web sites that may be of interest to those in the field of shellfish health.

The Aquaculture Health Page:

[<http://www.geocities.com/CapeCanaveral/Lab/7490>](http://www.geocities.com/CapeCanaveral/Lab/7490)

Aquanic:

[<http://ag.ansc.purdue.edu/aquanic/>](http://ag.ansc.purdue.edu/aquanic/)

Pfiesteria:

[<www2.ncsu.edu/unity/lockers/project/aquatic_botany/pfiest.html>](http://www2.ncsu.edu/unity/lockers/project/aquatic_botany/pfiest.html)

Haskins Shellfish Research Laboratory:

[<http://www.hsrl.rutgers.edu/>](http://www.hsrl.rutgers.edu/)

Aquatic Mailing Lists:

[<http://www.actwin.com/fish/lists.html>](http://www.actwin.com/fish/lists.html)

Shellfish Diseases (Fisheries and Oceans Canada):

[<http://www.pac.dfo.ca/pac/sealane/aquac/pages/title.htm>](http://www.pac.dfo.ca/pac/sealane/aquac/pages/title.htm)



Visit the NSA Web Site for the latest updates

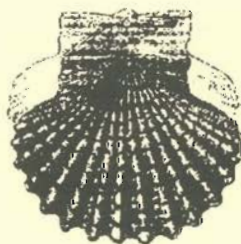
<http://www.shellfish.org>

From the Newsletter Editor...

This newsletter contains the one and only call for papers. Please note the abstract deadline of December 11, 1998. The next newsletter will contain the program for the NSA '99 meeting in Halifax as well as the meeting registration form.

In an effort to expand the coverage of items in the newsletter, I would ask if anyone has ideas for articles or submissions to please forward them to me directly. As the saying goes, this is your newsletter, and your assistance will lead to a better newsletter.

Jay Parsons



New Publication

Spawn, Spat and Sprains: A Manual for Aquaculture Safety in Alaska. Published by the Alaska Sea Grant College Program

Shellfish farmers and salmon workers must perform their jobs in all kinds of weather, often in remote places far from help should medical emergencies arise. The Alaska Sea Grant College Program announces the release of a special guide that discusses the most common dangers and ways to avoid them and reduce the chance of injury. Chapters include physical and chemical hazards, proper lifting techniques, airplane and boat safety, basic first aid, electrical hazards, fire fighting, cold water survival, and coping with bears, among other chapters. The 84-page easy to read guide is written by experts with the Alaska Marine Safety Education Association, and is the first guide devoted to aquaculture worker safety.

Cost of the guide is \$6.00. For more information contact Sherri Pristash at phone 907-474-6707, or check out the Alaska Sea Grant web page at <http://www.uaf.edu/seagrant/>

Recruited by? _____

How to Join the National Shellfisheries Association

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

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

Name: _____ For Calendar Year: _____ Date: _____

Mailing Address: _____

Institutional Affiliation, if any: _____

Phone: _____ Fax: _____ Email: _____

Shellfisheries interests: _____

Regular or Student membership? _____

Student members only - Advisor's signature REQUIRED

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

Name on card: _____ Signature: _____

Expiration Date: _____ Number: _____

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

Upcoming Meetings

IV International Symposium on Aquatic Nutrition: November 15-19, 1998, Hotel Crowne Plaza Resort, La Paz, BCS, Mexico. For information contact phone (112) 5 36 33, fax (112) 5 47 10 or email simpoc@cibnor.mx.

2nd International Conference on Shellfish Restoration: November 18-22, 1998, Crowne Plaze Resort, Hilton Head, South Carolina, USA. ICSR '98 will provide an opportunity for government officials, resource managers, and users to discuss approaches to restore coastal ecosystems through habitat quality assessment and restoration; stock enhancement, management, restoration; and habitat remediation through watershed management. Those interested in participating should request more information by contacting Elaine Knight: email <eknightel@musc.edu>; voice mail (803) 727-6406; or fax (803) 727-2080. You may also find updated information on the workshop at <http://www.csc.noaa.gov/SCSeaGrant/text/ICSR.html>.

Northeastern Aquaculture Conference and Exposition: November 18-19, 1998, Samoset Resort in Rockport, Maine. The Maine Aquaculture Innovation Center, the Northeastern Regional Aquaculture Center, the University of Maine, and the Maine/New Hampshire Sea Grant Program will co-host this first ever conference and exhibition. Details can be found at <http://www.seagrant.unh.edu/nace.htm>.

Marketing & Shipping Live Aquatic Products '98:

November 22-24, 1998, Marriott Hotel, Sea-Tac Airport, Seattle, WA. Immediately following FISH EXPO. For information please contact Conference Manager, John B. Peters, Nor'Westerly Food Technology Services, 20455 - 1st Ave. NE, Suite C 303, Poulsbo, WA 98370-9329. FAX: (360)394-3760 or email: JohnBPeters@compuserve.com.

ExpoPesca '98: December 2-5, 1998, Santiago, Chile. For details, call Sue Hill at +44 (0) 171 470 6340, Fax +44 (0) 171 831 2509, email sueh@meed.emap.co.uk or alisonb@meed.emap.co.uk.

Fifth International Congress on Medical and Applied Malacology: December 27-30, 1998, Chiangmai, Thailand. Please contact Prof. Dr. Suchart Upatham or Prof. Dr. Maleeya Druatrachue, Department of Biology, Faculty of Science, Mahidol University, Rama 6 Road, Bangkok 10400, Thailand. Phone and Fax: 662-2477058, Email scsut@mucc.mahidol.ac.th, or access the web at <http://www.mahidol.ac.th>

Marine Bioinvasions: January 24-27, 1999, Massachusetts Institute of Technology, Cambridge, MA. First national conference sponsored by MIT Sea Grant College Program. The conference focuses on the incidence, effects and management

of exotic species in coastal, estuarine and marine ecosystems. For information contact MIT Sea Grant College Program, 292 Main Street E38-300, Cambridge, MA, USA. Fax 617-252-1615 or email exotics@mit.edu.

Aquaculture America '99: January 27-30, 1999, Tampa Convention Centre, Tampa, Florida. Theme: Aquaculture on the rise. National conference and exposition of the US Chapter of the WAS. For information contact conference manager, 21710 7th Place West, Bothell, WA 98021 USA, Tel: (425)485-6682, Fax: (425) 483-6319 or visit <http://ag.ansc.purdue.edu/aquanic/was/was.htm/>.

19th Milford Aquaculture Seminar: February 22-24, 1999, Quality Inn Conference Center, New Haven, CT. Deadline for abstracts January 6, 1999. For more information contact Walter Blogoslawski, NMFS, Milford Laboratory, Milford, CT, phone (203) 783-4217 or email walter.blogoslawski@noaa.gov.

International Symposium on Geographic Information Systems (GIS) in Fishery Sciences: March 2-4, 1999, Seattle, Washington, USA. Participation of a broad audience representing GIS applications in fisheries sciences are encouraged, i.e., scientists, students, computer experts, managers, administrators, and educators. For more information contact Fishery GIS Research Group, c/o Environmental Simulation Laboratory, 2F, Noble Build., 2-4-1 Arajuku, Kawagoe, Saitama, Japan 350-1124, phone 81 (Japan) -492-42-9262, fax 81 (Japan) -492-41-2442, email esl@esl.co.jp, or website <http://www.esl.co.jp/>.

National Shellfisheries Association 91st Annual Meeting: April 18-22, 1999, The Westin Nova Scotian, Halifax, Nova Scotia, Canada. For program information contact Dr. Evan Ward and for local arrangements, contact Dr. Jay Parsons (addresses on back page).

Tenth International Symposium on Pollutant Responses In Marine Organisms: April 26-30, 1999, Williamsburg, Virginia. For more information contact Dr. Mohamed Faisal, PRIMO 10, phone 804-684-7231, fax 804-642-7186, email faisal@vims.edu.

12th International Pectinid Workshop: May 5-12, 1999, Bergen, Norway. Preregister by contacting: Mr. Gunnar Eiken, 12th IPW, Local Organizing Committee, Hordaland Fylkeskommune, N-5020 Bergen, Norway (Tel: +47 56 55 53 33; Fax: +47 55 23 93 16; E-mail: gunnarek@online.no). The closing date for submission of extended abstracts for oral and poster presentations will be 1 Nov 1998. Suggestions regarding the scientific programme should be directed to: Dr Øivind Strand, Chairman of the Scientific Committee, Institute of Marine Research, P. O. Box 1870, Nordnes, N-5024, Bergen, Norway (Tel: +47 55 23 83 13; Fax: +47 55 23 83 33; email: oivind.strand@imr.no).

65th American Malacological Union Meeting: July 4-9, 1999. Sheraton Station Square, Pittsburgh, Pennsylvania, U.S.A. AMU '99 will have a wide array of programs for malacologists, conchologists, shellfishery biologists, and educators. For more information contact Bob Prezant email rprezant@grove.iup.edu, phone (724)357-2352 (up to January 5, 1999) or robert_prezant@qc.edu or phone (718)997-4105 (after January 5, 1999), or AMU website <http://erato.acnatsci.org/amu/>

Sixth International Symposium on Littorinid Biology: July 24-31, 1999, Hofstra University Marine Laboratory, Priory, Jamaica. For more information contact Dr. Robert F. McMahon, phone 817-272-2412, fax 817-272-2855, email r.mcmahon@uta.edu.

19th Milford Aquaculture Seminar
February 22-24, 1999

Quality Inn Conference Center
100 Pond Lily Avenue
New Haven, CT 06525
Phone: (203) 387-6651

Call for Abstracts Due Date: January 6, 1999

Aquaculturists and researchers with a professional interest in the culture of shellfish or finfish are invited to submit abstracts for both oral and poster presentations. Abstracts should include the title, names and affiliations of authors and a complete address. There must be a clear statement of work, methods employed, results and conclusions. Abstracts should not exceed one page in length (single spaced) and should be submitted no later than January 6, 1999 to Walter Blogoslawski, NMFS, Milford Laboratory, 212 Rogers Ave., Milford, CT 06460, in hard copy and on IBM compatible diskette in WordPerfect 5.0, 5.1 or 6.0 and the diskette labelled with the format used. Hard copy may also be faxed to Walter Blogoslawski at (203) 783-4217 or e-mailed to walter.blogoslawski@noaa.gov for inclusion in the final printed program. All accepted abstracts will be reviewed and edited for publication in the Journal of Shellfish Research, June-July 1999 issue.

19th Milford Aquaculture Seminar: February 22-24, 1999, Quality Inn Conference Center, New Haven, CT. Deadline for abstracts January 6, 1999. For more information contact Walter Blogoslawski, NMFS, Milford Laboratory, Milford, CT, phone (203) 783-4217 or email walter.blogoslawski@noaa.gov.

International Pandalid Shrimp Symposium: September 8-10, 1999, Halifax, Nova Scotia, Canada. This conference is cosponsored by NAFO, ICES and PICES. Participants are encouraged to submit papers on environmental and ecological influences, stock assessments and associated research, management strategies, and harvesting, processing and marketing. Abstracts must be submitted by April 15, 1999. For more information contact Peter Koeller at phone (902)426-5379, fax (902)426-1862, email Koellerp@mar.dfo-mpo.gc.ca, or website <http://www.mar.dfo-mpo.gc.ca/shrimp/>

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

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

If you know of meetings or workshops that might be of interest to NSA members, please contact Jay Parsons at Email: jparsons@gill.ifmt.nf.ca, phone (709)778-0307 or fax (709) 778-0535.

65th American Malacological Union Meeting:
July 4-9, 1999.

Sheraton Station Square, Pittsburgh,
Pennsylvania, U.S.A.

AMU '99 will have a wide array of programs for malacologists, conchologists, shellfishery biologists, and educators. Specific sessions will include a major symposium on linking paleomalacology with neomalacology as well as sessions on Molluscan Genetics (commercial and noncommercial species), Education and Malacology, Women in Malacology, Biomineralization, History of AMU, and a Curation Workshop. Other highlights of the meeting include: a keynote address by Rich Lutz on hydrothermal vents, poster and contributed sessions, open collections at the Carnegie Museum of Natural History, a major fireworks display at a reception on the 4th, and a dinner-dance cruise on the "three rivers". Both fossil and freshwater field trips will be held on the last day of the meeting. For additional information on contributing or attending this exciting meeting contact: Bob Prezant at rprezant@grove.iup.edu or phone (724)357-2352 (up to January 5, 1999) or robert_prezant@qc.edu or phone (718)997-4105 (after January 5, 1999). Also check the AMU website: <http://erato.acnatsci.org/amu/>

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