

# National Shellfisheries Association

QUARTERLY NEWSLETTER

NOVEMBER 2002 - FALL ISSUE

WALDOBORO, MAINE



## President's Message

You'll find lots of great reading in this issue. First and foremost, the Call for Papers is enclosed for our upcoming annual meeting in New Orleans. Abstract submission instructions are included. Please note that abstracts must be submitted on disk along with the abstract submission form. We're attempting to also set up the option for electronic abstract submission via the website, and so if you would prefer to do it that way please monitor <http://www.shellfish.com> for developments. Whichever way you submit, abstracts are due by **December 12<sup>th</sup>**.

Please also check out page 2 for the list of special sessions that have been developed for the New Orleans meeting. Those wishing to present as part of these sessions must contact the session organizers as soon as possible if they have not yet done so.

Students will find an array of new activities planned for the New Orleans meeting (page 2), and this will surely be a memorable meeting for them. Instructions for student application for travel awards and consideration for presentation awards are provided on page 10. It is imperative that students follow the instructions carefully to ensure proper consideration.

Thanks to Tom Soniat and Lou D'Abramo for their continued efforts to organize local arrangements and the program for New Orleans, which is certain to be an excellent meeting!

In addition to all of the advance information about the meeting, you'll also find enclosed a membership report, new information about fundraising goals and efforts for the Student Endowment Fund, book reviews, and much more.

With warm regards,  
Dan Kreeger  
President

## When the NSA goes "marching in," you'll want to be in that number!

### **Don't miss the 2003 Annual Meeting in New Orleans!**

From April 13<sup>th</sup> through 17<sup>th</sup>, 2003 New Orleans will be host to the NSA. Join us for festivities, science, music and seafood at the Downtown DoubleTree Hotel at the "foot of Canal Street," near the French Quarter and Riverwalk. We will feature a return performance of Cajun musician Bruce Daigrepoint, "Up the River" and "Down the Bayou" excursions, student socials, Ken Chew's Chinese Dinner, Sandy Shumway's Student Auction, and the opening of "A History of the Louisiana Oyster Industry" at the Historic New Orleans Collection in the French Quarter.

April is a delightful (and hurricane-free) time to be in New Orleans. As singer/songwriter Paul Simon crooned, "...you can legalize your lows ... you can wear your summer clothes in New Orleans." Be there!

The scientific program is beginning to take shape. Nine special sessions are currently scheduled (see this issue of the newsletter). The call for papers is also included in this newsletter. Contact Lou D'Abramo at 662-325-7492 or [Ldabramo@cfr.msstate.edu](mailto:Ldabramo@cfr.msstate.edu) if you have any questions or wish to provide input about the program.

TomSoniat  
Lou D'Abramo

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

- ***Call for Papers***
- ***New Orleans 2003 Update***
- ***Two New Book Reviews***

## Special Sessions

### New Orleans 2003

#### Integrated Approach to Bivalve Domestication: Genetics, Nutrition, Physiology, Disease Resistance and Environmental Effects

Organizers : **Fu-Lin Chu**, Professor of Marine Science, Virginia Institute of Marine Science, School of Marine Science, College of William and Mary, PO Box 1346, 1208 Grete Road, Gloucester Point, VA 23062 USA (tele: 804-684-7349) Email: chu@vims.edu and **Jean-Francois Samain**, Laboratoire de Physiologie des Invertébrés, IFREMER Centre de Brest, BP 70 29280 Plouzane, France (tele: 33 298224402) Email: jfsamain@ifremer.fr

#### Oyster Cultivation in the Gulf of Mexico

Organizer: **John Supan**, LA Sea Grant - LSU, Wetland Resources Blvd., Baton Rouge, LA 70803, USA (tele: 225-388-6527) Email: jsupan@lsu.edu

#### Freshwater Pearls: Commerce and Conservation of Native Mussels in the Southeastern U.S.

Organizers: **Catherine Gatenby**, Patrick Center for Environmental Research, Academy of Natural Sciences, 1900 Ben Franklin Parkway, Philadelphia, PA 19103, USA (tele: 215-408-5077) Email: gatenby@acnatsci.org and **Dick Neves**, Virginia Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife Sciences, Virginia Tech University, Blacksburg, VA 24061 USA Email: mussel@vt.edu

#### The Effect of Habitat Alteration on Shellfish Populations/Communities

Organizer: **Marty Chintala**, U.S. EPA, Atlantic Ecology Division, 27 Tarzwell Drive, Narragansett, RI 02882 USA (tele: 401-782-3155) Email: Chintala.Marty@epamail.epa.gov

#### Biotechnology II

Organizers: **Karolyn Hansen**, Oak Ridge National Laboratory, Bldg. 4500S, MS 6123, Bethel Valley Road, P.O. Box 2008, Oak Ridge, TN 37831 USA (tele: 865-691-6808) Email: karolina@mindspring.com and **Ami Wilbur**, Department of Biological Sciences, Center for Marine Studies, University of North Carolina at Wilmington, 5600 Marvin K. Moss Lane, Wilmington, NC 28409 USA (tele: 910-962-2389) Email: wilbura@uncwil.edu

#### Hard Clam Aquaculture

Organizer: **Cornelia Schlenk**, Assistant Director, New York Sea Grant, 121 Discovery Hall, University at Stony Brook, Stony Brook, NY 11794-5001 USA, (tele: 631-632-6906) Email: cschlenk@notes.cc.sunysb.edu

#### Productive Capacity of Shellfish Aquaculture Systems

Organizer: **Carter R. Newell**, Great Eastern Mussel Farms, P.O. Box 141, Tenants Hbr., ME 04860 USA (tele: 207-372-6317) Email: gemcart@midcoast.com

#### Post-harvest Processing of Oysters

Organizer: **Marilyn Kilgen**, Department of Biological Sciences, Nicholls State University, Thibodaux, LA USA (tele: 985-448-4710) Email: biol-mbk@nicholls.edu

#### Biology, Fisheries, and Culture of the Blue Crab

##### *Callinectes sapidus*

Organizer: **Harriet Perry**, Gulf Coast Research Laboratory, P. O. Box 7000, Ocean Springs, MS 39566-7000 USA (tele: 228-872-4218) Email: harriet.perry@usm.edu

## Join the Recruits in

### New Orleans!

So, do you need some motivation to join us in New Orleans? (Other than just wanting to experience the Mardi Gras city, whew-hew!)

First, NSA is a great society for students and going to a meeting is the best place to find out. The level of dedication that NSA shows to its student members rivals that of much larger scientific societies of which I have been a member. The society provides grants for research and awards for travel to meetings. At the meetings, the students are a major focus. There is the infamous auction to benefit the Student Endowment Fund, the poster and oral presentation competitions, and my favorite hang-out, the Endowment Fund sales booth. There are plenty of opportunities for students to get involved and benefit from what NSA has to offer.

Second, there are the opportunities for networking and professional development. The intimate size of the average NSA meeting provides students with the chance to chat casually with the giants in their field as well as their future peers, the other students. In the last few years of working the sales booth, I've met the authors of papers that I use as references, have gotten advice on graduate school and careers, and, of course, sold a lot of pins. Other than just meeting and talking shop with the experts, presenting your own research is so important for professional development. Whether you choose to present a poster or a talk, you will get useful feedback on your work and get in some practice presenting – may come in handy for defenses and job talks in the future.

Third, NSA has made it easy for students to get to meetings and visit new places. As I mentioned before there are travel

Continued on page 9

# **Call for Papers** **New Orleans 2003**

## **INSTRUCTIONS FOR ABSTRACTS**

Please read the instructions for submission of abstracts carefully because the procedure has been changed considerably. Those who have been invited to present in one of the special sessions, please see the instructions for Invited Papers.

**Instructions for contributed papers:** For those who wish to contribute an oral presentation or a poster but who are not an invited speaker of special sessions, please follow instructions below for preparing the abstract. **Abstracts must be received by December 12<sup>th</sup> 2002.**

1. **Oral Presentations:** Send your abstract and fee (US\$25) to: Dr. Lou D'Abramo, Department of Wildlife and Fisheries, Mississippi State University, Box 9690, Mississippi State, MS 39762, USA using the postal service.
2. **Poster Presentations:** Send your abstract and poster publication fee (US\$25) to: Dr. Lou D'Abramo, Department of Wildlife and Fisheries, Mississippi State University, Box 9690, Mississippi State, MS 39762, USA using the postal service.

**FAX and email submissions will NOT be accepted.** Students who wish to be considered for the Nelson and Gordon Gunter Awards should indicate their student status on the abstract form.

**Instructions for Invited Papers:** If you have been invited to present a talk in one of the special sessions, please follow the instructions for preparing the abstract, then send your abstract and publication fee (US\$25) to your session organizer. Abstracts must be received by **December 5<sup>th</sup> 2002.**

**A PAGE CHARGE OF US\$25 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 abstracts must be submitted as either a MS Word or RIF file on disk accompanied by a hard copy and the abstract

form. You must also include the title and authors separately according to the two sample formats (Size 10 TIMES NEW ROMAN FONT) provided in the abstract form. Electronic submissions will also be accepted. Go to the NSA website [www.shellfisheries.org](http://www.shellfisheries.org) for instructions.

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.

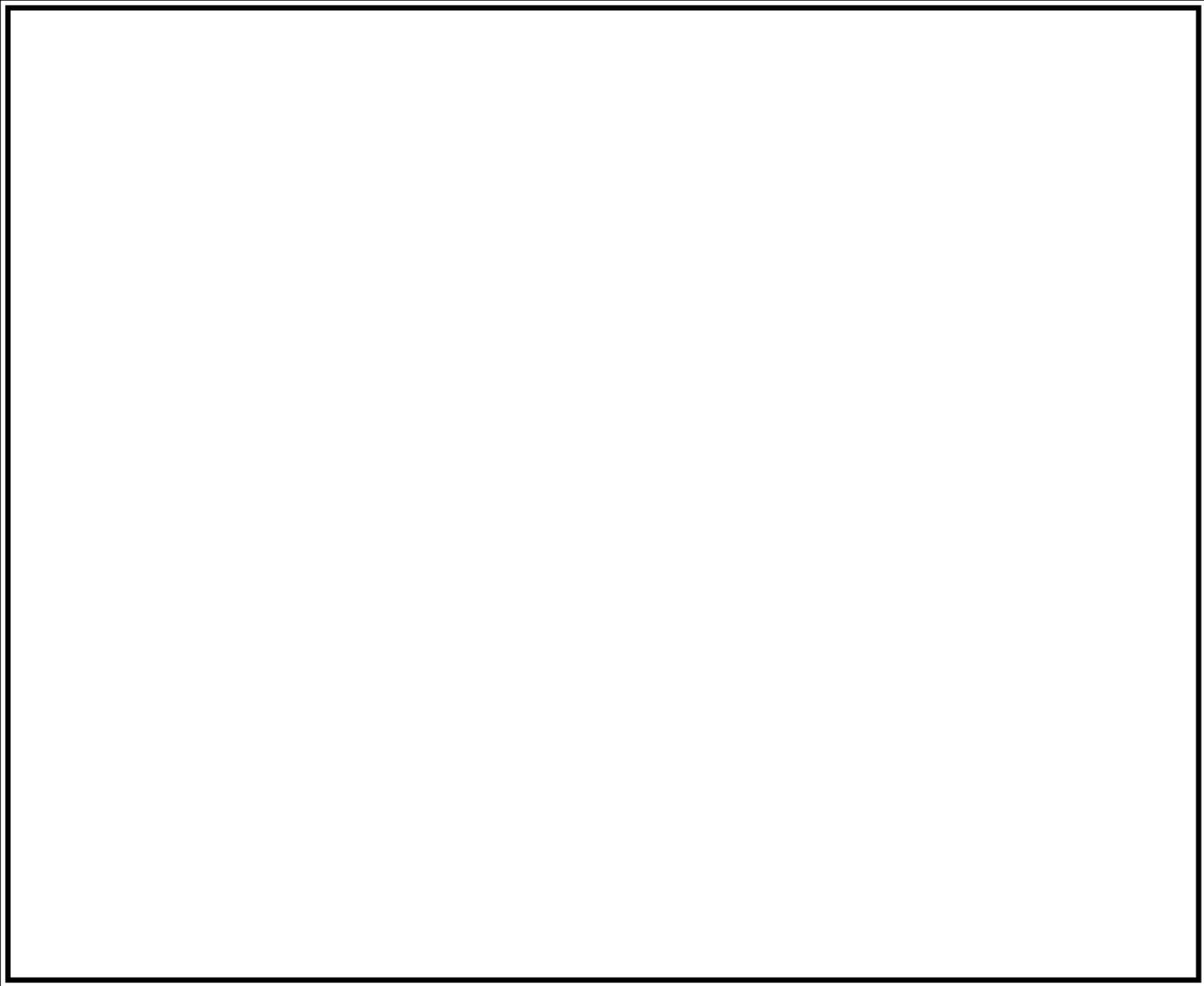
The entire abstract must fit within the rectangular outline provided on the abstract submission form. **IF THE ABSTRACT DOES NOT FIT IN THE BOX OR THE REQUIRED FONT OR SIZE HAS BEEN ALTERED TO ACCOMMODATE THE BOX, THEN THE ABSTRACT WILL NOT BE ACCEPTED.**

THE SPACE IS DESIGNED TO ACCOMMODATE AN AVERAGE OF 200 WORDS TYPED DOUBLE SPACE WITH A SIZE 10 TIMES NEW ROMAN FONT. When using abbreviations, spell out in full first, followed by the abbreviation in parentheses. PLEASE PROOFREAD 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 or Gordon Gunter Awards.

If you submit an abstract (by mail or electronically), a check (personal or institutional) or money order for US \$ 25 (checks must be drawn on a US bank and made out to the NSA) must be sent to Program Chair Dr. Lou D'Abramo at the address above or one of the session chairs (if applicable). No other form of payment will be accepted. Abstracts for the contributed sessions must be received by **December 12<sup>th</sup>, 2002** and abstracts for special sessions with invited speakers must be received by the session organizer by **December 5<sup>th</sup> 2002.**

**Special Instructions for Student Presentations:** 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 a copy of your abstract to Dr. Fu-Lin Chu as detailed in the accompanying article found elsewhere in this issue.



**Title/Author:**

\_\_\_\_\_

**Author/Title:**

\_\_\_\_\_

**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 or Gordon Gunter Awards)

**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.

**Title/Author:** Size and depth dependent larval mortality: a modeling study  
DEKHENIEKS, HOFMANN, KLINCK, POWELL

**Author/Title:** *Margaret M. Dekhenieks,\* Eileen E. Hofmann, John M. Klinck and Eric N. Powell*  
Size and depth dependent larval mortality: a modeling study

**Abbreviated title:** Size and depth dependent mortality

(seven words or less) \_\_\_\_\_  
same

**First author's mailing address:** \_\_\_\_\_  
(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 or Gordon Gunter Awards)

## Membership Report

Thanks to the hard work by several folks, NSA has recorded strong growth in new membership. As usual, Sandy Shumway is doing the lions' share of recruiting, and leading the contest in recruiting the maximum number of new members. Thank you Sandy! To date, NSA currently has 903 active paid-up members from over 40 countries (753 regular members and 150 student members). NSA membership is comprised of 44% from the academia, 25% from the government, 9% from the corporate sector, 12% from the private sector and 9% are unspecified. Additionally, 213 members have not yet paid their 2002 dues. 1783 members have been dropped over the past few years for non-payment of dues, and 50 members are retired or deceased. We urge the current members that have not paid their 2001 dues to please do so quickly. As you all know, all members receive the *NSA Quarterly Newsletter* and at least two issues of the peer-reviewed journal, *Journal of Shellfish Research* (JSR) every year. Printing and mailing of both these publications is an expensive endeavor and increased membership goes a long way in keeping NSA financially sound.

We'd encourage current members to actively participate in attracting new members, both nationally and internationally. Membership applications can be downloaded from the web site. If you are going to a meeting inside or outside of the country, please take some membership forms with you. The person recruiting the greatest number of new members will be given a one-year free membership in NSA. Advisors, please encourage your students to join the NSA if they haven't already. NSA supports student registration, room, and travel to NSA annual conferences in addition to the newsletter and JSR. With exciting sessions, the upcoming NSA meeting in New Orleans promises to be a terrific meeting. We look forward to seeing you all at the meeting.

We are happy to report that the membership directory is in its final stages of preparation and will be forwarded to all members soon. We thank everyone for providing information for this publication and hope everyone will find it useful. Anyone wishing to update or change his or her membership information is requested to send an email to Ami Wilbur at wilbura@uncwil.edu.

Finally, we would like to thank Nancy Lewis (book keeper) for her excellent work in updating and maintaining current membership information.

Aswani Volety  
Ami Wilbur  
Co-Chairs, Membership Committee.

## Student Endowment Fund Fundraising

Last year we began a concerted effort to build the Student Endowment Fund to help support travel for students to attend the Annual Meeting of the National Shellfisheries Association. At these meetings it gives the opportunity for students working in shellfish research to present their findings in a supportive atmosphere and mingle with fellow students and more seasoned shellfish devotees.

The NSA began a dedicated drive to increase the size of the fund in 2001 and had a good start with the money raised through the mailing campaign and the auction led by Sandy Shumway at the Annual Meeting in Mystic, CT. But the fund is far from the point where the Association can live off the interest from the principal and so we are trying another method for fundraising this year.

Those working on the program have set a goal of \$100,000 for the Student Endowment Fund Account. We realize that it may take a while to reach there but we would like to be there within 10 years. This will take the active participation of all in our organization. But it isn't as ominous as it might sound. If every member, on average, would contribute \$20 a year to the fund, we can easily reach this goal. Perhaps the giving levels outlined in the brochure last year were too threatening for some, but \$20 is an amount that won't break anyone's bank account.

Although many of you already contribute to the Student Fund in various ways, we encourage you to consider a regular, direct contribution when you pay your dues. This program will be coming to you through the annual membership renewal that will be mailed later this fall. You will be given the opportunity to check off an amount that would be added to your membership dues and write one check instead of two. We are counting on your generosity and commitment to NSA and the students that we support in their quest to be leaders in shellfish research and management.

Gef Flimlin

## Metamorphosis (or was it a spawning?)

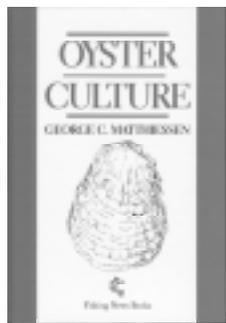
Congratulations to NSA members Shirley and Patrick Baker who had identical triplet boys on May 30, 2002; Arthur (3lb 13oz), Alexander (3lb 10oz) and Andrew (3lb 5oz). All are happy, healthy, and keeping their parents hopping!

## Book Reviews

**Oyster Culture** by George C. Matthiessen, Fishing News Books, Blackwell Science Ltd. (2001), 162 pp.

Among books and articles addressing “how to” aspects of culturing shellfish, there is often a dichotomy observed between texts offering overly specific information on a particular species or culture location to be of general use. The opposite is also seen where information about commercial aquaculture techniques are so general as to be

of little use to the aquaculturist or extension specialist looking for answers. Fortunately, some authors hit a good balance between generality and specificity in offering information that resonates with those looking for help or information on commercial aquaculture techniques. Such is the case for a new volume on oyster culture by George C. Matthiessen, entitled *Oyster Culture*.



With 30 plus years of experience and working with one foot on the oyster farm figuring out practical approaches to growing oysters, and the other foot engaged in research on eastern oysters including larval and algal culture techniques, breeding and disease resistance and maximizing seed oyster productivity in coastal salt ponds, Matthiessen brings a wealth of information and practical know-how to the table. The book is nicely partitioned between relating his experiences (both practical and research-based) rearing oyster larvae and seed in Ocean Pond, a coastal salt pond on Fishers island, NY, and describing with satisfying detail the history of oyster culture all over the world. Matthiessen weaves research conducted on his farm in the 1970's and 1980's on natural oyster setting techniques, nutrient enrichment of growing waters and genetic improvement in oysters for disease resistance with a general chapter on oyster biology. These chapters are interspersed with others on the history of oyster culture techniques in western Europe, North America, the Indo-Pacific and tropical regions, based in part on Matthiessen's travels to these oyster growing regions. As another researcher/oyster culturist, a reading of *Oyster Culture* leaves me with ideas to test and implement based on what works and doesn't at farms all over the world. I would have liked to have seen more recent information on applied research including selective oyster breeding programs in both the mid-Atlantic and Pacific Northwest which may be of interest to oyster culturists generally, as well as information on managing oyster production from a bioeconomic perspective. These are minor criticisms as this book generally hits the mark for its intended audience, and is an important addition to the

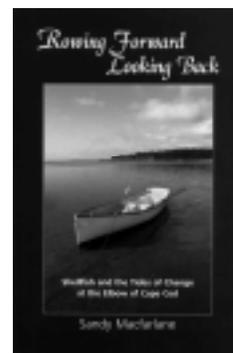
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**Rowing Forward, Looking Back- Shellfish and the Tides of Change at the Elbow of Cape Cod** by Sandy Macfarlane, Friends of Pleasant Bay, PO Box 845, South Orleans MA 02662, www.fopb.org, \$22.95

At a large-scale planning meeting for a regional aquaculture center in Hyannis MA in the late 1980's, an elder statesman, retired professor turned bow-tied mussel grower, opined about his first trips to Cape Cod in the '30's. He remembered how the population was scant but the production of shellfish was wonderful. Numerous train cars of oysters, hard and soft clams left the Cape daily for places far flung. Fifty years later, he felt the population had increased by several orders of magnitude and the shellfish production left the Cape in a few pickup trucks. The bottom line, according to him, was there was “too much fornication and defecation going on for the good of the shellfish resource!”

Many of us feel that coastal development has impacted the shellfish resources and we can drag in “old timers” who recall harvests of succulent shellfish in huge quantities from many years ago. Presently, those working on the water often turn to aquaculture to supplement the natural production that ever seems to dwindle while trophy homes continue to dot the bay fronts.

In her first literary effort, Sandy Macfarlane, the retired Shellfish Biologist/Conservation Administrator for the Town of Orleans on Cape Cod, MA gives us a first hand account of changes in shellfish abundance, algal blooms, coastal geomorphology, and development in her town. Orleans sits in the crook of the elbow of Cape Cod and is bound by Cape Cod Bay, Town Cove and the Nauset Marsh, Pleasant Bay, and the Atlantic Ocean. More water than one could shake a stick at! And each body of water contributes significantly to the shellfish resources of the town and the ambience of the area. It's a beautiful place that people love. They love it so much that it seems that they are loving it to death.



Her story begins with her appreciation of the water and marine environment as a child who summered with her aunt in a cottage (a little cottage, not a 4500 ft<sup>2</sup> “cottage” with martini porches) in Orleans. After college she moved to the Cape and found herself hired by the town as their first Shellfish Biologist. She worked with the skeptical Town Shellfish Wardens to investigate the shellfish stocks and attempted to rejuvenate the populations in all manner of ways, from protecting natural post-set to building and running a town shell-

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**Rowing...** Continued from page 7

fish hatchery for restocking. The industry didn't quite know what to do with her but she persevered. She invented the "Quahaug Outhouse" and even got to drive her own "Clambulance"! She fought a polluter and the town eventually received a \$100,000 settlement for wiping out her hatchery production. All along the way she describes the continued growth of the town as a haven for retirees who bring money and opinions to the lovely Town of Orleans. Some were most cooperative and assisted in trying to maintain a sustainable environment as best as possible. However the book eventually shows how the lack of proper sewers in parts of the town can increase the nitrogen loads from septic systems. Sandy points out that effluent can percolate through the soils and move with the groundwater into the town's waters. The author feels this may contribute to the disruption of the natural cycle of macroalgal growth and phytoplankton blooms and impact the shellfish stocks.

The narrative is told in the voice of someone who obviously

loves the place and wants it to be both a productive shellfish area and a great place to live. The first part of the book deals mostly with the shellfish and the author gives very clear explanations for the "shellfish challenged", the second part deals more with the impact of Mother Nature on the area combined with development. The light side of life and an appreciation of the beauty of nature is never far from the forefront. Much of the musings rise up from Sandy's meditative rowing through the waters of the town. But frustration comes close to the surface when challenges to what a biologist feels is right confronts what the taxpayer wants to support. The book is well written in a very readable style with facts interspersed with the humor of the local people who work on the water adding the occasional chuckle. It makes the reader, especially one who lives in the coastal zone and is involved with shellfish and development, think about the parallels between Orleans and his own area. It is a subtle call to action to continue to do the right thing and protect the estuarine resources before they are wiped out by the people who moved there to enjoy them.

Gef Flimlin

**STUDENT ENDOWMENTS AND AWARDS**

**APPLICATION FORM FOR STUDENT PRESENTATION AND TRAVEL AWARDS FOR THE 95<sup>th</sup> ANNUAL MEETING OF THE NATIONAL SHELLFISHERIES ASSOCIATION, NEW ORLEANS, LOUISIANA, APRIL 13-17, 2003.**

**NAME:** \_\_\_\_\_

**INSTITUTION:** \_\_\_\_\_

**PRESENTATION TITLE (Attach a copy of abstract form):**  
\_\_\_\_\_  
\_\_\_\_\_

**PRESENTATION FORMAT: ORAL POSTER (Circle one)?**

**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)**

**IF YOU ARE SELECTED FOR THE TRAVEL AWARD, WHAT IS YOUR PREFERECE OF THE AWARD? LODGING REGISTRATION WAIVER (Circle One).**

**ADDRESS:**  
\_\_\_\_\_  
\_\_\_\_\_

**PHONE:** \_\_\_\_\_ **EMAIL:** \_\_\_\_\_

**REFERENCE (Advisor / Mentor):** \_\_\_\_\_

**APPLICANT'S SIGNATURE:** \_\_\_\_\_

**DEADLINE FOR RECEIPT OF APPLICATIONS IS DECEMBER 12, 2002**

## **Edward A. Myers** **1917 - 2002**

Edward Myers, the father of Maine's aquaculture industry, died September 19 in Damariscotta, Maine, following a brief illness. Ed created the first mussel farm in North America near his home in South Bristol. He also is well-known along Maine's coast for his early role in the lobster business, his witty newspaper columns and his dignified presence - that of an erudite gentleman in glasses and a bow tie. Ed gave the opening plenary address at Aquaculture 2001 in Orlando, Florida.



In the 1950s, Myers operated Saltwater Farm and pioneered the business of shipping lobsters around the country. He was administrator of the University of Maine's Darling Marine Center at Walpole from 1969 to 1974. In 1973, Myers established Abandoned Farm, North America's first mussel cultivation operations. Myers developed modified techniques based on work done in Europe. He helped write many of the state aquaculture laws and policies, and was granted the state's first aquaculture lease.

"He did aquaculture the hard way, he never made any money at it," said Robin Alden, a former Commissioner of Maine's Department of Marine Resources. Myers' work would pave the way for a growing industry that now produces salmon as well as mussels and other shellfish. "He began the aquaculture business in this state," Alden said. "He's one of these people who had the courage to follow his own paths."

### **The Recruits** Continued from page 2

awards for students. Be sure to apply when you submit your abstract. We can also help you find roommates, just e-mail me, Nature McGinn (namcginn@ucdavis.edu) or

Steve Allen (e-mail on back page). I have visited a lot of interesting places while attending NSA meetings over the last few years and I am looking forward to experiencing New Orleans and then Hawaii in 2004. They really know how to pick the nice spots.

Finally, there is great fun to be had. The student group at NSA meetings always leads the way to local hot spots for nightly dancing, pool playing, etc. (o.k., sometimes the professionals show us the way). It's so easy to get caught up in the excitement, that you have to remind yourself to get plenty of sleep the night before your presentation. Believe it or not, working at the meeting can also be quite enjoyable - with A/V or sales booth, there's always the chance to learn something new, meet someone exciting, or just socialize with other students. And this year, the social committee and Maille Lyons have some great formal opportunities for student socializing lined up. On Monday morning, there will be a special student breakfast, we can meet and get to know each other early on at the meeting. On Monday night, we'll head over to Pat O'Briens, a New Orleans icon that's nearby for after-hours fun. Tuesday - FREE LUNCH for students only. Lunch will be provided by NSA and we can talk about how the meeting is going and Recruits business. On Thursday morning, local organizers are recommending coffee and beignets at Café du Monde, not just for students and pay on your own, but definitely a good way to be social while sampling the local cuisine.

So, hopefully I have managed to convince you that this is a meeting not to be missed. Get your abstracts in and don't forget to apply for the Student Endowment award. Also, many university campuses offer abundant opportunities for getting travel money - so look/ask around, there may be money that someone is begging to give away. With a conference this affordable, useful, and fun, you should not be able to come up with an excuse not to JOIN US IN NEW ORLEANS!

Nature McGinn

### **Oyster Culture...** Continued from page 7

field. Anyone involved in or interested in oyster culture will find this volume to be an important reference for the simple reason that it is packed with information gleaned from years of research experience coupled with practical know-how of growing oysters. This is a rare combination today, and happily for shellfish growers and resource managers, Matthiessen's insights on the subject of oyster culture are now available.

Joth Davis

## NSA-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 NEW ORLEANS 2003

Students participating in the 2003 NSA meeting in New Orleans 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 **Gordon Gunter 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 2003 meeting, travel awards will be granted to cover either registration and/or lodging. These funds are competitively awarded based primarily on abstract quality, and secondarily on financial need (i.e., distance of travel, support level) and the student advisors' recommendation.

### **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 on page 8.
- 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. Fu-Lin Chu (contact information on back page) by **December 27, 2002**.

Remember that the original abstract, abstract submission form and fee should also be submitted to the Program Chair, Dr. Lou D'Abramo, at the address listed on back page (or session chair if applicable). Please forward any questions concerning student awards to either Fu-Lin Chu or Gary H. Wickfors (contact information on back page). Good Luck!

**Attention faculty advisors: Please don't forget** to write letters of recommendation for your students applying for SEF travel awards! Your support is very important for your students to compete for the awards.

**Attention students:** Travel award recipients will be expected to assist at the meeting (e.g., manning the sales booth table for a half day, or operating the A/V for a half day).

## Upcoming Meetings

**International Workshop on Restoration of Benthic Invertebrate Populations: Genetics, Diseases & Ecology:** November 9-12, 2002, Coquimbo, Chile. Sponsored by the Universidad Catolica del Norte. For more information, phone (56) 51-209813, email: restoration@ucn.cl or visit <http://herradura.ucn.cl/restoration>.

**Northeast Aquaculture Conference and Exposition:** November 15-16, 2002, Crowne Plaza at the Crossings, Warwick, RI. For more information, contact Ann Marie Rathbun at phone 800-292-8787 or email arathbun@narrabay.com.

**6th International Conference on Shellfish Restoration:** November 20-24, 2002, DoubleTree Guest Suites, Charleston, SC. For more information, contact Elaine Knight at phone 843-727-6406, email: elaine.knight@scseagrant.org or visit [www.scseagrant.org](http://www.scseagrant.org).

**Aquaculture America 2003:** February 18-21, 2003, Kentucky International Conference Center, Louisville, KY. For more information, contact the conference manager at phone 760-432-4270 or email: worldaqua@aol.com.

**23<sup>rd</sup> Milford Aquaculture Seminar:** February 24-26, 2003, Quality Inn, New Haven, CT. For more information, contact Walter Blogoslawski at phone 203-882-6535 or email walter.blogoslawski@noaa.gov.

**2003 Freshwater Mollusk Conservation Society Symposium:** March 16-19, 2003, Sheraton Imperial, Research Triangle Park, Durham, NC. For more information, contact John Alderman via email aldermjm@mindspring.com or visit <http://ellipse.inhs.uiuc.edu/FMCS/Symposium/>.

**Sea Urchin 2003:** March 25-27, 2003, Puerto Varas, Chile. For more information, visit [www.ifop-aquaculture.cl/seaurchin2003/index.html](http://www.ifop-aquaculture.cl/seaurchin2003/index.html).

**Benthic Ecology Meeting 2003:** March 28-30, 2003, University of Connecticut, Groton, CT. For more information, visit [www.marinesciences.uconn.edu](http://www.marinesciences.uconn.edu).

**National Shellfisheries Association 95<sup>th</sup> Annual Meeting:** April 13-17, 2003, DoubleTree Hotel, New Orleans, LA. NSA Vice-President Lou D'Abramo is the Program Chair; see the back page for his contact information.

**National Conference on Coastal and Estuarine Habitat Restoration:** April 13-16, 2003, Hyatt Regency Inner Harbor Hotel, Baltimore, MD. For more information, visit <http://www.estuaries.org/> or contact Heather Bradley, Conference

Coordinator at Restore America's Estuaries, Phone:703-524-0248 or email: [hbradley@estuaries.org](mailto:hbradley@estuaries.org).

**14<sup>th</sup> International Pectinid Workshop:** April 23-29, 2003, Hilton Hotel, St. Petersburg, Florida USA. For information visit workshop web site at <http://conference.ifas.ufl.edu/scallops/> or contact Beth Miller-Tipton, Conference Coordinator, Phone: 352-392-5930, fax 352-392-9734 or email: [bmiller-tipton@mail.ifas.ufl.edu](mailto:bmiller-tipton@mail.ifas.ufl.edu). See page 14 for more information.

**World Aquaculture 2003:** May 19-23, 2003, Bahia Convention Center, Salvador, Brazil. For more information, contact the conference manager at phone 760-432-4270 or email: worldaqua@aol.com.

**9th International Congress of the International Society for Developmental and Comparative Immunology:** June 29 - July 4, 2003, University of St Andrews, Scotland, UK. The Congress remit includes all aspects of comparative, developmental or evolutionary immunology across the whole spectrum of living organisms and will also report findings from new genomic, proteomic and bioinformatic studies. For further information, contact Dr Val Smith by email: [v.j.smith@st-and.ac.uk](mailto:v.j.smith@st-and.ac.uk) or visit: <http://www.st-and.ac.uk/~seeb/ISDCI/home.htm>.

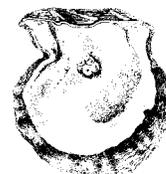
**Aquaculture 2004:** March 1-5, 2004, Hawaii Conference Center, Honolulu, Hawaii. International Triennial Conference and Exposition of the National Shellfisheries Association, American Fisheries Society Fish Culture Section and the World Aquaculture Society. For more information, contact the conference manager at phone 760-432-4270 or email: worldaqua@aol.com.

If you would like to announce any meetings, conferences or workshops that might be of interest to NSA members, please contact Chris Davis (see back page for contact information).

### AQUACULTURE 2004 - HAWAII MARCH 1-5, 2004

is just around the corner...

It's not too early to send Sandy Shumway  
your ideas for Special Sessions  
(Sandy's contact information is on back cover)



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