

National Shellfisheries Association

QUARTERLY NEWSLETTER

LATE SUMMER 1994



SOLOMONS, MARYLAND

President's Message

I am grateful to be taking over as President of NSA at a time when the organization is in excellent condition. The present status of the Association is a testimony to past leadership and volunteerism, and at least a decade of steady progress.

Before I discuss what I hope we can accomplish in the next year, I would like to remind the membership of the accomplishments of my predecessors and colleagues. The emergence of the Journal of Shellfish Research is a notable example. Its recent inclusion in Current Contents will result in better dissemination of our work and more visibility for NSA. Our newsletter has greatly improved and is the best that I've seen for an organization of our size. The student organization and endowment program continues to expand. Membership is growing. We know have an excellent financial document that reviews past expenditures, projects future activity, and outlines the desirable and attainable goal of establishing a financial reserve equivalent to one year's expenses. (This goal is desirable since the organization is always one failed annual meeting away from severe financial difficulty. This is not as alarming as it may seem since we have learned how to organize financially successful meetings and have done so for the last six years.) Our association with the triennial meeting has been financially successful and will continue.

As I stated in my acceptance speech in Charleston, upon assuming the Presidency of NSA I feel how Elizabeth Taylor's seventh husband must have felt on their wedding night -- I know what I am supposed to do, I know how to do it, but I don't see how I can make it memorable. In any case, my term as President will be the shortest on record. For this reason and others, I have largely retained the present committee chairs and membership. Most chairs and members were willing to continue and expressed interest in completing the initiatives they had begun.

The triennial meeting in San Diego (Aquaculture '95) will soon be upon us (February 1-4, 1995). Indeed, the July 15, 1994 abstract deadline has passed. Plans are being formulated for a meeting in the Chesapeake Bay area in 1996 and one on the Gulf coast for 1997. We hope to meet with the Shellfish Institute of North America at one or both of these annual meetings.

The organization is moving in the right direction and much of the groundwork for a successful year is already in place. There are, however, two initiatives that I would like to pursue. NSA is a viable organization because, among other things, it nurtures and promotes its student members. The main concern among students is the difficulty of obtaining meaningful employment in the hyper-competitive world of biology. The organization should explore new ways of functioning as an extended network of support for our student members, especially in their efforts to find that first job. The second initiative is to bring more industry members into the fold. The model that might be applied to other coasts is that of the Pacific Coast Section of NSA which has good industry support and interaction. I may be in the position (geographically and otherwise) to organize the disjunct Gulf Coast shellfish industry into a relationship with NSA similar to that which exists on the west coast. If successful, an Atlantic coast initiative should follow. Although my short time in office may prevent me from accomplishing all of my goals, my dedication to NSA will not end with my term.

Tom Soniat

Aquaculture '95 Update

All systems are go for an exciting meeting with a plenary lecture followed by a special session on Aquaculture Around the World organized by Bob Stickney. George Chamberlain will once again be hosting shrimp biologists and farmers for a 3-day session. Special sessions of particular interest to our members include abalone (Tom McCormick), crawfish (Jay Huner), scallops (Jay Parsons), shellfish genetics (Maureen Krause), pearl oysters (Richard Fassler), shellfish disease (Carolyn Friedman), mussels (Carter Newell), and crustacean ecology and fisheries (Betty Wenner). There will, of course, be a number of contributed papers (over 350 at last count) and poster presentations. The trade show is expected to be bigger than ever before. Producer-oriented sessions are planned on quality assurance, product enhancement and marketing. The Presidents' Reception is being held at Sea World with a special "Shamu" show and there's a pre-meeting golf tournament so plan on bringing your clubs.

(continued on page 2)

Aquaculture '95 Update (continued from page 1)

Disneyland is close by, so is San Diego Zoo, Sea World, Wild Animal Park, Knott's Berry Farm, Ensenada, Tijuana, beaches, wine country, shopping and golf courses. Bring the family and join us for this triennial extravaganza of science and fun!!

Charleston '94 NSA Annual Meeting

The 86th Annual National Shellfisheries Association meeting was held April 24-28, 1994 at the Sheraton Inn, Charleston, South Carolina. Program Chair Bill Fisher organized a technical program of over 100 paper and poster presentations. Topics for technical sessions included: bivalve genetics, broodstock management feeding and nutrition of bivalves, decapod crustacean biology, bivalve recruitment, stock assessment, *Perkinsus marinus* disease of oysters, bivalve aquaculture, bivalve diseases and defense, and bivalve mollusk biology. In addition, two panels were convened ("Constraints to the Development and Growth of Commercial Aquaculture in the U.S." and "System Level Influences of Bivalve Filter Feeders") as well as a workshop ("Culture of *Perkinsus marinus*").

Once again Ken Chew organized a wonderful Chinese dinner - this year it was held at the Emperor's Garden restaurant in Charleston. Meeting attendees had a great time sampling the assortment of restaurants that Charleston has to offer and were seen taking in the many sights in and around Charleston (OK - who took the cab ride out to Folly Beach at 4:00 am??!!).

The NSA Executive Committee met on Sunday, April 24. Audit-Budget-Finance Committee Chair George Abbe presented a 14-page document detailing the financial history and status of NSA (please see ABF Update on page 3). Elections Committee Chair Tom Soniat reported that 149 ballots were cast for EXCOM candidates; results of the 1994 election are: Bill Fisher, President-Elect; Steve Tettelbach, Vice President; Rick DeVoe, Secretary; Christine Hodgson, Treasurer; Susan Bower, 1994-97 Member-at-Large. Newsletter editor Carolyn Mueller Hansen announced plans to step down; Maureen Krause has agreed to assume the newsletter editor position. Industry Committee Chair Bill Green reported on the preparation of a questionnaire to be sent to industry members to assess what industry needs and how NSA can respond to those needs. Awards Committee Chair Susan Ford reported that two awards were to be given in 1994: Honored Life Member award to Herb Hidu and Wallace Award to George Matthiessen. As for old business, John Kraeuter reported that NSA and its officers now have a \$500,000 liability insurance policy, the necessity of which had been discussed at past EXCOM meetings. New business items included discussion of site selection for the 1996 annual meeting (Baltimore, Maryland) and a motion

for a modest dues increase for regular members (to \$45/year) and institutional subscriptions (to \$125 (US) and \$130 (foreign)) effective October 1, 1994 (FY1994-95). Student dues will remain at \$25 per year.

The NSA Business Luncheon was held on Wednesday, April 27. Recognition was given to the local arrangements committee (Rick DeVoe, Elaine Knight, Monica Mulvey and Leigh Handal) for their efforts in putting together a great meeting. Thanks also went to Palmetto Aquaculture, Pemaquid Oyster Co., Atlantic Littleneck Clam Farm, Coast Oyster Co., and Great Eastern Mussel Co. for donating the wonderful seafood for the Sunday evening President's Reception. The Nelson Award for Best Student Paper was presented to Dave Bushek and the Best Student Poster Award went to Sandy Blake (see story elsewhere in newsletter). Honored Life Member and Wallace Awards were presented to Herb Hidu and George Matthiessen, respectively. Resolutions were presented recognizing: 1. the Charleston local arrangements committee, 2. Neil Bourne for his accomplishments over his career, and 3. George Abbe for his tireless efforts as Chair of the Audit-Budget-Finance Committee over the past 10 years. John Kraeuter then passed the gavel to incoming President Tom Soniat who presented John with a plaque recognizing his contributions to NSA. New officers were formally installed and composition of the various NSA committees was presented. Committee chair appointments are: Susan Bower, Resolutions; George Abbe, Audit-Budget-Finance; Susan Ford, Awards; Evan Ward, Endowment/Student Awards; Carolyn Friedman, Membership; John Kraeuter, President's and Elections; Mike Castagna, Publications; Keith Benson, Historian; Sandy Shumway, JSR Editor; Maureen Krause, Newsletter Editor.

2nd Annual NSA Auction

The second annual NSA auction was held Monday night, April 25th at the 1994 Charleston meeting. The auction followed the student reception and there was literally standing room only in the reception room. Sandy Shumway, our tireless auctioneer, was ably assisted by Evan Ward and Steve Tettelbach. Here is a sampling of the items offered at auction: NSA cookbooks, a copy of Galtsoff's *The American Oyster*, numerous books on mollusc biology and ecology, Evan Ward's home-made wine, Carolyn and Doug Hansen's "Blue Mussel" home-brew beer, Dot Leonard's shirt(!), a lantern slide taken by Thurlow Nelson, Russian postcards, a gold scallop necklace, the last of the NSA sweatshirts, the Ward/Thompson/MacDonald bivalve feeding endoscopy video, and last but certainly not least - Eric Powell's socks (2 pair: 1 clean, 1 worn). Sandy even auctioned the shirt off her back - yes, we have photographic documentation (Sandy wore her bathing suit underneath!). The auction netted over \$1300 for the Student Endowment Fund and provided wonderful entertainment for those in attendance. See you at next year's auction!

Audit-Budget-Finance Update

Total revenues for the 1992-1993 fiscal year (October 1, 1992 to September 30, 1993) were \$115,425, and expenses were \$88,975 for a net increase of \$26,450. This figure is comparable to the increase of \$24,653 for the 1991-1992 year and is the first time in the history of the National Shellfisheries Association that we have experienced back-to-back positive years of such magnitude. Much of this was due to the success of the Portland meeting in 1993 following the success of Aquaculture '92 in Orlando the year before. Administrative revenues and expenses were \$26,512 and \$4,928, respectively, for a net increase of \$22,584. Publication revenues totalled \$47,872, and expenses were \$64,699 for a net decrease of \$16,827. Our Portland meeting brought in revenues of \$40,041 and had associated expenses of \$19,348 for a gain of \$20,693. We ended the 1992-1993 fiscal year with a balance of \$61,260 compared to \$34,809 at the end of the 1991-1992 year and just \$10,155 at the end of 1990-1991.

Financial strength is due in large part to the increasing number of members who have supported NSA by prompt dues payment, by payment of JSR page charges, and by attending the annual meetings. A substantial increase in institutional subscriptions, which accounted for \$19,150 of our publication revenues in 1992-1993, and sponsorship of particular issues of the JSR by state and federal agencies have also helped. With another successful meeting in Charleston, and by careful management of the JSR, we should be able to add to our present balance by the end of the 1993-1994 fiscal year.

The proposed budget for the 1994-1995 fiscal year, which begins October 1, 1994, projects a gain of \$23,670 from administrative activities, a decrease of \$21,500 from publications, and a gain of \$28,100 from our Aquaculture '95 meeting in San Diego next February. If these revenues and expenses are realized it would increase the Association's balance by \$30,270. Changes in our accounting procedure which will shift money from administrative revenues to publication revenues should help reduce the decrease encountered by publications each year, and could be implemented as soon as the details are worked out.

A-B-F did not conduct a detailed review of the NSA financial ledgers at the end of the 1992-1993 fiscal year, but since we now have a new treasurer, a review will be conducted when the books are passed from Steve Tettelbach to Christine Hodgson at the end of this fiscal year.

The A-B-F Committee for 1993-1994 consisted of Steve Tettelbach, John Manzi, Ken Cooper, and George Abbe. One of our goals was to develop a long range plan for NSA which would put at least one year's operating expenses into the bank by 1998. We spent several months during 1993 and 1994 analyzing the financial data of the

Association going back to 1984, and generated a 14-page special report in the process. We projected annual revenues and expenses ahead for 5 years and are confident that NSA will have at least \$126,000 in reserves by the end of the 1997-1998 fiscal year, which is the amount necessary to run the organization for one year.

George Abbe, Chairman
Audit-Budget-Finance Committee

Recruits Corner

The 86th meeting of the National Shellfisheries Association in Charleston, South Carolina was a successful meeting for the NSA Recruits. The best student presentation award went to Dave Bushek and the best student poster award went to Sandy Blake - congratulations!

Many thanks go to those students who helped out at the meeting. Jay Parsons donated a great deal of time to the sales table and Ami Wilbur, Jay Parsons and Margaret Dekshenieks were among the students who set up the student reception. Finally, thanks to several students who donated their time to run the slide projectors!

The Recruits have a mixture of new and old contacts this year: James Anderson (ander1@ducvax.auburn.edu), Ian Bartol (Virginia Institute of Marine Science, Gloucester Point, VA), Margaret Dekshenieks (Center for Coastal Physical Oceanography, 768 52nd Street, Norfolk, VA 23529; deks@ccpo.odu.edu), and Karen Tammi (Department of Fisheries, Animal and Veterinary Sciences, University of Rhode Island, Kingston, RI 02881). Plans for this year include supporting the NSA membership drive, refining the available database of job listings and boosting student participation in projects like the NSA sales desk at Aquaculture '95 in San Diego. Please let us know if you have any questions, comments or suggestions regarding the Recruits or any Recruits activities.

Finally, on behalf of all the students, we would like to personally thank Sandy Shumway and Steve Tettelbach for contributing their time and effort for the benefit of the Recruits. The auction this year was the most successful so far - Sandy even sold the shirt off her back. Both Sandy and Steve went out of their way to make sure everything ran smoothly - THANK YOU!!

Margaret Dekshenieks
Dave Bushek

STUDENT ENDOWMENT AND AWARDS - 1994 ANNUAL MEETING, CHARLESTON, SC

The 1994 student endowment and awards committee was comprised of Bruce Barber, Peter Beninger, Mike Castagna, Carolyn Mueller Hansen, Maureen Krause, Bruce MacDonald, and Evan Ward (Chair). This year the committee was charged with judging student endowment applications, judging student oral and poster presentations, and recommending guidelines for awards to the Executive Committee.

Student Endowments:

Based on endowment applications, the committee awarded free hotel accommodations to 11 students and free meeting registration to 4 students. Endowment recipients included: Kellie Austin (Univ. of Maryland), Ian Bartol, (V.I.M.S.), Sandra Blake (V.I.M.S.), David Bushek (Rutgers), Zaúl García-Esquivel (S.U.N.Y.), Catherine Gatenby (VA Tech.), Raouf Kilada (Univ. of Texas), Marcela Pascual (Instituto de Biología), Sylvie St-Jean (Univ. of Moncton), Karin Tammi (Univ. of Rhode Island), and Aswani Volety (V.I.M.S.). Congratulations to all!

Students should be aware that endowment awards are competitive, and therefore a complete application is necessary for full consideration by the committee. Requirements for an endowment application are given at the bottom of the endowment form and include: one (1) original abstract form and two (2) copies, \$ 20.00 abstract fee (US funds), a completed Endowment Fund application form, and at least one (1) letter of recommendation from a mentor or advisor. The completed application must reach the Program Chair prior to the stated deadline on the endowment form.

In the future, incomplete or late applications will not be considered for endowment funds.

Student Awards:

Fourteen students competed for the **Thurlow C. Nelson** award for best oral presentation at the Charleston meeting. There was a number of very high quality student papers this year making the final decision very difficult. The T.C. Nelson Award is given each year to a student or recent graduate who presents an outstanding oral paper at the annual meeting of the National Shellfisheries Association. This year the T.C. Nelson award was presented to **David Bushek** (Haskins Shellfish Research Laboratory, Rutgers) for his presentation, "Race-specific interactions between Crassostrea virginica and Perkinsus marinus." **Congratulations Dave!!**

In addition, several students competed for the **NSA Student Poster** award at this year's meeting. The poster award is presented each year to a student or recent

graduate who presents an outstanding poster at the annual meeting. This year the NSA Student Poster award was presented to **Sandra Blake** (School of Marine Science, V.I.M.S.) for her poster, "Mitochondrial DNA variation in the cultured bay scallop Argopecten irradians." **Congratulations Sandra!!**

The Student Awards Committee has recommended to the Executive Committee the following guidelines for future student awards:

1. Presentations must be based on the student's original research carried out during the time while he/she was a student. Recent graduates who are presenting "student" research are eligible.
2. The **Thurlow C. Nelson** award is to be given for an outstanding oral presentation of research that represents a distinctive and valuable contribution to shellfisheries science. The award includes a certificate of accomplishment and membership for four (4) years in the association.
3. Oral presentations are judged based on the following aspects: (a) scientific content and relevance, (b) oral and visual aspects of the presentation, and (c) handling of questions.
4. 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 (1) year in the association.
5. Poster presentations are judged based on the following aspects: (a) written abstract, (b) scientific content and relevance, (c) quality of figures and text, and (d) handling of questions.
6. To be eligible for the awards, students need to meet the requirements in #1 above, be first author on the presentation abstract, indicate that he/she is a student or recent graduate on the abstract form, and submit the abstract prior to the deadline indicated in the newsletter.

Students who do not meet the deadline for abstracts may be ineligible for the awards.

Remember that next year's meeting will be held in February, earlier than our usual annual meeting. Therefore, students wishing to compete for endowment and presentation awards should pay particular attention to endowment form and abstract submission deadlines. Again, congratulations to all 1994 student award winners!! And, good luck to all students in 1995!

J. Evan Ward, Chair
Endowment/Student Awards Committee

The National Shellfisheries Association Constitution and Bylaws appear on the following pages. Date of most recent Executive Committee approval appears just below the title. The Constitution and Bylaws were last printed in the Summer 1991 and Summer 1992 issues of the National Shellfisheries Association Newsletter.

**CONSTITUTION
of the
NATIONAL SHELLFISHERIES ASSOCIATION, INC.
(A Corporation Not for Profit)
Approved November 13, 1990**

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
Biological Laboratory
Oxford, MD 21654 USA

ARTICLE II. OBJECTIVES AND PURPOSES

The National Shellfisheries Association is organized as a non-profit society. The objectives and 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 the 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. All officers shall be elected for one year, or until the next regular annual meeting. The President-Elect shall, upon completion of the term, accede to the Presidency. Therefore, elections shall be for President-Elect, Vice President, Secretary and Treasurer. The President Elect will be installed as President at the opening of New Business of each regular annual business meeting. 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 each 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 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. 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.

BYLAWS
of the
NATIONAL SHELLFISHERIES ASSOCIATION, INC.
(A Corporation Not for Profit)

June 23, 1991

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*. Corporations, agencies and commercial companies may not use membership in the Association as a substitute for their duties and obligations to the Shellfish Institute of North America.

(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 Honorary Member with all the privileges of a Member, by a simple majority vote of the Executive Committee contacted by telephone or mail before the Association 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, Resolutions, 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 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 meetings 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 of fact or law nor for anything which they may do or refrain from doing in good faith.

BYLAW V PUBLICATIONS

Section 1.

The Association shall publish semiannually the *Journal of Shellfish Research* to include scientific and applied papers 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 to review and nominate members who, by their exemplary service to the Association or to the profession, deserve recognition as Honorary Member of the Association. These nominations are to be presented to the Executive Committee prior to the annual meeting. The Committee shall also review and nominate individuals for the Wallace Award, which will be awarded by simple majority vote of the Executive Committee before the annual meeting.

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.

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 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

If the Executive Committee agrees to the selection, the subcommittee 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

(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 conference for which a location has not been chosen. The President-Elect will serve as chair and will appoint an on-site Registration Coordinator to schedule and perform registration duties (in conjunction with the Treasurer) during the annual meeting at which the President-Elect will take office. Normally this committee will secure sites for meetings at least two years in advance.

(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 at the annual 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.

**National Shellfisheries Association
1993-1994 Membership Form**

HOW TO JOIN

Fill out and mail a copy of the application blank below. The dues are US\$40.00 per year (\$25.00 for students) and that includes the *Journal* and Newsletter!

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

NAME _____ For calendar year _____

Date _____

Mailing Address _____

Institutional Affiliation, if any: _____

Shellfisheries Interests: _____

Regular or Student membership: _____

Student members only - Advisor's signature *REQUIRED* _____

Make checks (*MUST* be drawn on a US bank) or international postal money order for \$40.00 (\$25.00 for students with advisor's signature)-payable to the National Shellfisheries Association and send to Dr. Stephen Tettelbach, Division of Natural Sciences, Southampton College, Long Island University, Southampton, New York 11968 USA. *Effective October 1, 1994, member dues increase to \$45.00; student dues will remain \$25.00.*

Book Reviews

Quality Assurance in Seafood Processing: A Practical Guide by A.D. Bonnell. 1994. 208pp. \$49.95
Available from Chapman & Hall, One Penn Plaza, New York, NY 10119.

This book is the result of several years' teaching of quality assurance by the author and it shows. The text is well-organized, clearly written and, perhaps more important, understandable. While the book is suitable as a reference text it is also a readable textbook. There is a general introduction which provides definitions of terms, a discussion of quality control versus quality assurance, and a chapter on misconceptions regarding quality programs. Subsequent chapters include: Organization of a quality program, Finished Product Quality, Process Control, Raw Material Quality, Sanitation, Microbiological Indicators and Seafood Processing, Statistical quality control, Quality management information systems (collection of data and maintenance of records), Quality cost accounting, and finally, Quality program implementation. I found the chapters on microbiological indicators (7) and statistical quality control (8) to be particularly well done. Chapter 7 begins with a simple introduction to concepts in microbiology followed by definitions of the major groups of microorganisms. He then provides examples from compliance guides. Chapter 8 explains simple statistical concepts followed by worked examples of their application to quality control.

While the text deals in generalities that could be easily applied to any seafood product quality program, the appendices do not. Appendices A, B, C and E deal specifically with internal standard skinless flounder fillets, external standard fish inspection regulations for Newfoundland and Labrador, Canada, product specification (minced cod block), and lumpfish roe processing forms respectively. These seem a bit too specific for inclusion in a general text. Appendix D provides a concise summary of hygienic practices applicable to any seafood product.

This book provides a good introduction for anyone interested in the quality assurance of seafood processing at a reasonable price.

Sandy Shumway

Practical Manual for Zebra Mussel Monitoring and Control. 1994. R. Claudi and G.L. Mackie. Lewis Publishers, Boca Raton. 227 pp. \$59.95 (\$72.00 outside USA).

This compact seven-chapter book is intended to be a utilitarian manual that will enable managers and engineers to respond to incipient or ongoing invasions of raw water sources and systems by freshwater dreissenid mussels. I believe the book's projected readership will find it to be informative and useful.

Chapter 1 focuses on the biology of the zebra mussel, *Dreissena polymorpha*, including anatomy and morphology, reproduction and larval biology, population dynamics, dispersal and distribution, and physiology. Comparisons are made where possible with the related quagga mussel *D. bugensis*, the North American dreissenid *Mytilopsis leucophaea* (note correct spelling), the introduced Asiatic clam *Corbicula fluminea*, and freshwater unionid clams. The goal is to help the reader understand why the two introduced dreissenids are such a threat to water-use systems, to explain the biological characteristics that produce that threat or that may be weak spots to be exploited by methods of control, and to allow for positive identification of larvae and adults before expensive control procedures are begun.

Chapter 2 has practical advice on monitoring for the presence of larvae or settled mussels in or near water-use systems, with various sampling devices or protocols described in some detail. Chapter 3 considers how introduced dreissenids might cause problems for bridges, docks, locks, and dams, as well as various raw water systems (intake structures, cooling systems, safety systems). The next three chapters describe control measures: the application of a variety of chemical treatments (chemical type, timing of use); details of the most common toxicant, chlorine (its water chemistry, effectiveness under various conditions, timing of application, dosage and consumption calculations, advantages and disadvantages of its use); and implementation of nonchemical controls (filters, antifouling compounds, lethal physical factors, mechanical cleaning of systems). Chapter 7 presents descriptive case histories of monitoring and controlling zebra mussels in the water-use systems of three industrial plants: steel, pulp and paper, and chemical. The book ends with a glossary of over 150 technical terms.

While useful for engineers and managers, this book is not intended to be a resource for biologists. The introductory chapter is brief, and 45% of the 171 references are to abstracts, reports, theses and dissertations, and other grey literature. The book on zebra mussels by Naleps and Schloesser from the same publisher is a better scientific compilation.

Victor Kennedy
Horn Point Environmental Labs
Cambridge, MD

Dues Reminder...

1994 NSA dues statements were sent out in March - please be sure to renew your membership NOW if you haven't already. Regular member dues increase from \$40 to \$45 with the start of the new fiscal year on October 1, 1994. Student dues will remain at \$25 for annual membership. Thanks!!

JOURNAL OF SHELLFISH RESEARCH

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Volumes: 10(1,2) \$15.00 each
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Indexes are also available for both the *Proceedings of the National Shellfisheries Association* and the *Journal of Shellfish Research* for \$3.00 each.

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Natural Science Division
Southampton College, LIU
Southampton, New York 11968

From the Newsletter Editor...

Can it really be the end of Summer already? You've probably been wondering when your Summer newsletter issue would arrive and I apologize for it arriving so late. My only excuse is that when one's oysters are ripe and ready to spawn everything else takes a back seat! This will be my last issue as Editor of the *NSA Quarterly Newsletter* as I have decided to hand the duties to someone else after four years. Maureen Krause has agreed to assume the duties of Editor effective with publication of the Fall 1994 issue and I am looking forward to working with her over the next few years. The EXCOM has agreed to a loosely organized group of Contributing Editors for the Newsletter - Jay Parsons and I will be the first those individuals. If there are any other NSA members that would be interested in acting as contributing editors, please contact Maureen at the address below.

It has been a pleasure working with NSA over the last several years, but I would like to particularly thank Sandy Shumway for all her support and guidance during my time as newsletter editor. A note of thanks also goes to my predecessor, John Ewart, who handed me a well-run and organized NSA newsletter operation back in 1990.

Cheers! KMH

All newsletter correspondence should now be sent to:

**Dr. Maureen Krause
Natural Science Division
Southampton College, LIU
Southampton, New York 11968
Phone: (516) 283-4000**

Employment

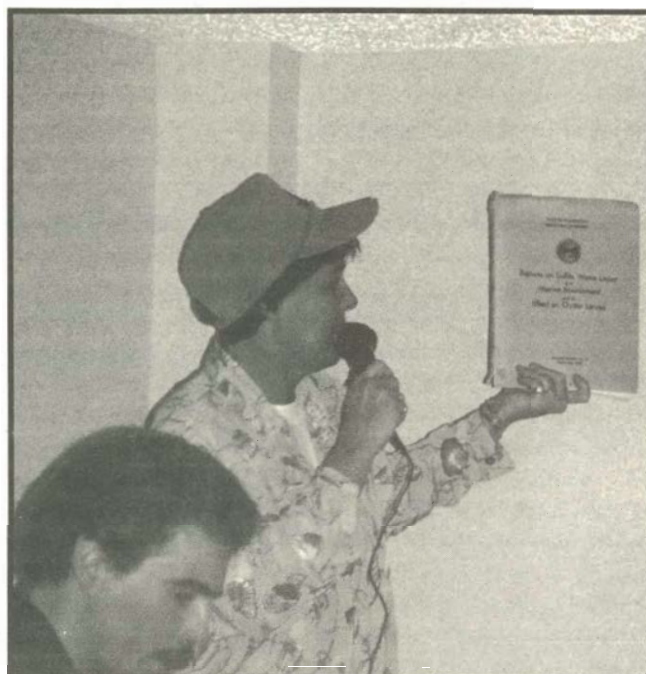
Microbiology Position - Zebra Mussel Biological Control Biological Survey, New York State Museum, Field Research Laboratory, Cambridge, New York. Two year appointment: September 1994-December 1996. Salary: M.S. level - \$28,000; Ph.D. level - \$33,000. Qualifications: graduate degree in a biological science (preferable microbiology), expertise in bacterial culturing highly desirable, experience with statistical analysis and mollusk rearing, fitness for lab/fieldwork, SCUBA certification desired. For further information please contact: Dr. Daniel P. Molloy, Biological Survey, New York State Museum, Field Research Laboratory, RD 1 - Box 151, Cambridge, NY 12816 USA. Phone: (518) 677-8245.

A Note of Thanks...

Sent to John Kraeuter, former NSA President:
"I have recently received the NSA Honored Life Member Award in a little ceremony presented by Bruce Barber at a departmental retreat (University of Maine). Let me express my great appreciation to you, the awards committee and the membership for this great honor. I hope to attend a meeting or two sometime in future but this dirt-farming has me pinned down just now. Thank you again and best of luck in your endeavors. Yours Sincerely, Herb Hidu".
Herb - what's this about dirt-farming? We thought golf and antique collecting were keeping you busy! We look forward to seeing you at future NSA meetings.

A Scene from Charleston....

Sandy Shumway demonstrates her auctioneering skills at the 2nd annual NSA auction (see story on page 2). Evan Ward (foreground) was Sandy's slave labor/assistant during the auction. All proceeds went towards the NSA student endowment fund; over \$1300 was raised this year! Start searching your file drawers and closets for donations for next year's auction to be held at the annual meeting in February. Note: Sandy still has her shirt on in this photo...



***** EDUCATIONAL VIDEO *****

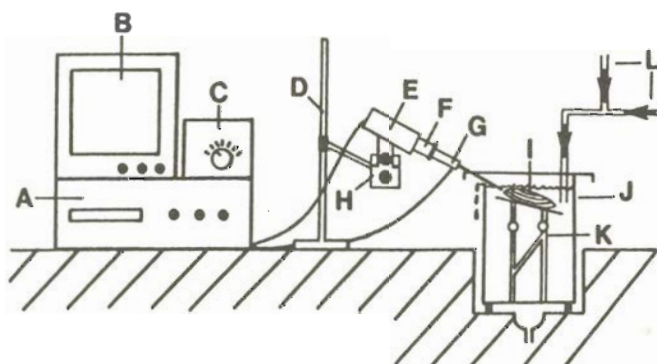
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Attention: Endoscope Video

Meetings/Courses

Pacific Coast Oyster Growers Association and National Shellfisheries Association - Pacific Coast Section Annual Meeting October 2-4, 1994, Oceanview Resort, Seaside, Oregon USA. For registration and hotel information please contact: Tim Smith, Executive Director, PCOGA, 120 State Avenue NE #142, Olympia, WA 98501 USA. Phone: (206) 459-2828; FAX: (206) 459-2829.

75th Anniversary, University of Washington School of Fisheries October 26-29, 1994, University of Washington, Seattle, Washington. Series of events to commemorate 75 years of excellence. For further information please contact: Marcus Duke, School of Fisheries WH-10, University of Washington, Seattle, WA 98195 USA. Phone: (206) 543-4678; FAX: (206) 685-7471; E-mail: mduke@pisces.fish.washington.edu

2nd International Lobster Congress October 28-29, 1994, Portland, Maine USA. Sponsored by the Lobster Institute and the Sea Grant College Program, University of Maine. For more information please contact: Belinda Doliber at (207) 526-4170 or the Lobster Institute at (207) 581-1448.

Aquaculture '95 Triennial Conference and Exposition, February 1-4, 1995, San Diego, California USA. Sponsored by the National Shellfisheries Association, World Aquaculture Society, and American Fisheries Society - Fish Culture Section. For further information please contact: Aquaculture '95, c/o Sea Fare Expositions, Inc., 850 NW 45th Street, Seattle, WA 98107 USA

North Pacific Symposium on Invertebrate Stock Assessment and Management March 6-10, 1995, Nanaimo, British Columbia, Canada. Abstract deadline: September 23, 1994. For further information please contact: Dr. Glen Jamieson, Symposium Chairman, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C. V9R 5K6 Canada. Phone: (604) 756-7223; FAX: (604) 756-7138; E-mail: jamiesong@pbs.dfo.ca

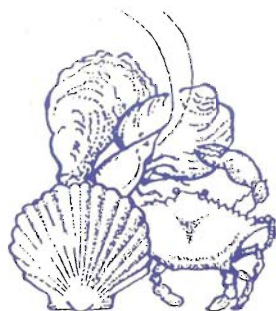
10th International Pectinid Workshop April 26 - May 2, 1995, Cork, Ireland. For Further information please contact: Dr. Gavin Burnell, Department of Zoology, University of College Cork, Lee Maltings, Prospect Row, Cork, Ireland. Phone: 353-21-276871 (ext. 4745); FAX: 353-21-270562 or 353-21-277922.

Aquaculture Europe '95 Conference and Trade Show, Trondheim, Norway, August 9-12, 1995. Organized by the European Aquaculture Society and the Nor-Fishing Foundation. Abstract deadline: October 15, 1994. For further information please contact: European Aquaculture Society, Aquaculture Europe '95, Coupure Rechts 168, B-9000 Gent, Belgium. Phone: +32-9-2237722, FAX: +32-9-2237604

Larvi '95 First announcement for Larvi '95: fish and shellfish larviculture symposium. Scheduled for September 5-8, 1995, University of Ghent, Belgium. Abstract deadline: September 30, 1994. For preregistration form and further information please contact: Larvi '95 Conference Secretariat, Laboratory of Aquaculture and Artemia Reference Center, University of Ghent, Rozier 44, B-9000 Gent, Belgium. Phone: +32-9-2643754, FAX: +32-9-2644193, E-mail: magda.vanhooren@rug.ac.be

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