

# NEERS NEW ENGLAND ESTUARINE RESEARCH SOCIETY

VOLUME 1; ISSUE 2

## NEWS



*"ALL THE NEWS THAT'S  
FIT FOR NEERS"*

AUGUST 1994

### EDITOR'S NOTE

It has been awhile since the last issue of the NEERS NEWSLETTER and a lot has happened in the interim. This issue of the newsletter is very important so please read carefully. In this issue we have included proposed changes to the constitution which will be voted on in the Fall '94 meetings on Cape Cod. One of the proposed changes is to divide the post of Secretary/Treasurer into two separate positions. Over the years the job of the Secretary/Treasurer has grown as NEERS has expanded. At present it is both a difficult and time consuming job and splitting the position will alleviate some of the problems recent Secretary/Treasurers have had to face. In light of the proposed changes to the constitution, the nominating committee has included candidates for both positions for the upcoming elections this fall (should the changes be approved). To help with the elections in the fall, we have asked all candidates to submit a few sentences explaining their reasons for running for the office of their choosing. We hope these statements will be helpful in deciding on which candidate you will be voting for. Since we have a very full issue, let's get right to the newsletter.

### PRESIDENT'S CORNER - President Berounsky

Hello again. We're back with a second newsletter! As a matter of fact we have so much news to put in this issue that NEERS NEWS Editor, Rich Orson has made me promise to keep this short (otherwise we may

go over our \$.29 postage limit)[Editor's Note: not to mention the editor's time availability]. One of my goals as President is to make NEERS better known as a resource for estuarine and coastal science in the New England area. At least one incident this summer makes me believe that the NEERS network does work. I received a message one day from NEERS member Barbara Whitman, she found a crab in Bridgeport, CT that she thought might not be from around here. She wanted to know if I could suggest any crab experts. For the outcome of the story see below (OTHER section). Plan on coming to the elbow of the Cape for our fall meeting. We all know that former NEERS President Sandy MacFarlane will organize a meeting that is all a NEERS meeting should be. And don't miss the NEERS Business meeting. Not only will we be electing new officers, but we will also be discussing and voting on changes to the constitution. We've got a fine slate of officers (see Candidates Corner) and no matter who wins the election, NEERS will win. The NEERS constitutional changes will restructure NEERS abit, but only in ways to make us operate more smoothly. The Executive Committee joins me in behind these changes. These changes were also discussed at the last two NEERS business meetings, and the membership wholeheartedly supported them. We now have an official NEERS student presentation scoring criteria (see below). We thought it would be a good idea to have a defined criteria, and now that we are tax-exempt and the IRS knows we exist, we need to document any award money we give out. The 1997 Estuarine Research Federation



(ERF) Biennial Meeting will be held in our area. By the NEERS fall meeting we will know where and when. The last ERF meeting held in NEERS territory was in 1985 at UNH (Ted Loder might still have some T-shirts!) and the next one won't be for another ten years, so let's make it a good one. This isn't any ERF meeting, this is **our** ERF meeting. We need suggestions on themes, how to give it a New England flavor, how to make the meetings memorable, etc.. Tell them to me at the fall meeting. Jonathan Garber at USEPA in Narragansett is the meeting organizer. Speaking of ERF, they will now send the ERF Newsletter only to ERF members (they had been sending it to affiliates members that were not ERF members). So if you want to continue to find out about ERF ongoing, fast breaking updates on the '97 meeting, what other affiliates are doing and "hot topics" from the affiliates (like Barbara Welsh's recent article on estuarine oxygen depletion) and get a lower rate on ERF meeting registration, join ERF now. As you can see, NEERS has had a busy spring and summer. And my allotted space has run out. Come to the fall meeting and hear more. This will be my last turn in the "President's Corner", David Franz will be taking over as NEERS President at the fall meeting. Come to the fall meeting and help us celebrate the end of one term and the beginning of another. Thanks to all for making my term as President productive and enjoyable.

## CANDIDATES CORNER

The following are short statements prepared by each candidate:

### Candidates for President

FRED SHORT, Jackson Estuarine Laboratory, UNH, "[NEERS] is a great organization that is particularly important to the professional development of students entering the field of estuarine sciences. Over the years, I've been encouraged by the increasing participation of students in NEERS meetings. In the years ahead, I think NEERS should encourage more active participation in our annual meetings. NEERS should broaden the scope of its programs to include more physical and geological sciences and

work to promote more women and minorities in the field of estuarine science. NEERS is one of the more active affiliate societies in ERF, and we should continue that participation.

LINDA DEEGAN, The Ecosystems Center, MBL, "Why do I want to be NEERS President? I don't, I have a million other things to do. But I couldn't help myself. I have been a member of NEERS since introduced to this august body as an undergraduate. NEERS brings together a great group of scientists with common and wide ranging interests. I would like to continue that tradition.

[Editor's Note: Linda's statement is reprinted word for word, please read it carefully]

### Candidates for Secretary

CHARLENE D'AVANZO, Marine Program, BU, "NEERS is important to me as the meeting where I gave my first talk, I now bring my students and where I try out new ideas. I am organizing a marine education session for next fall which I wouldn't have considered doing if the NEERS folk were any less helpful and interested.

WENDY LEO, no statement submitted

### Candidate for Treasurer

ROBERT BUCHSBAUM, Mass. Audubon Society, Rob currently holds the position and is running unopposed for the Treasurers position, he did not submit a statement.

[In the event that the membership rejects the changes to the constitution, these people will be running for the Secretary/Treasurer position]

## MEETINGS

The Spring '94 Meeting, marking the 25th Anniversary of NEERS, in Salem Massachusetts was a great success, science and fun were had by all. The meetings began on Thursday with a Mass Bay Symposium and continued on Friday and Saturday with general paper presentations. One of the highlights of the Saturday morning session was a team presentation by high school teachers working



with Project Oceanology. The teams presented the data they collected during the course of the program and gained a valuable experience interacting with scientists in the field. These presentations gave NEERS members an opportunity to see how their research can be brought into the secondary education system. Certainly, one of the missions of NEERS is to help educate and spread the word of estuarine sciences and what better way to do it than to involve the very people responsible for developing future estuarine scientists. All of us at NEERS applaud the program and thank Mickey Weiss and all the people involved for their participation in our meetings. The presentations ended Saturday at noon with Ted Loder scaring the averages out of everybody.

As always, NEERS presented student awards for the best presentations. The winners were:

**Ketcham Prize (Graduate Student):**

JODY BERMAN, UNH, "The role of scale and methodology in determining the apparent effects of biological invasions".

**Rankin Prize (Undergraduate Student):**

KERRY JO GUILFOYLE, Hampshire College, "The effects of human exploitation and hurricane damage upon mangroves".

This year a special honor was bestowed on **Bernie McAlice**, he was made an **Honorary Member of NEERS** as a way of thanking him for his many years of wonderful service to the society. The presentation was made at the banquet where he got the "boot" from Julie Rankin, an "earful" from Jay Moore, old war stories from Robert Radulski and even a little praise from Sandy Macfarlane, President Berounsky, Alan Young and Marshall Pregnall. Sheldon Pratt had photos of the young Dr. McAlice to complete the scene. Now that Bernie is an Honorary Member he will not have to pay dues and can spend his money on other things, like additional bottles of gin. THANKS BERNIE!

The awards and presentations were made after a wonderful meal of lobster, mussels, clams, salads and corn-on-the-cob. For dessert Jay Moore presented his famous "History of NEERS, Part I" in honor of the 25th Anniversary of NEERS (always a treat). And as always, NEERS members went out dancing after the festivities. Sandy Macfarlane won the NEERS Trivia Quiz by answering the question "how do you define an estuarine

scientist" as "a person not afraid to get their feet wet, be cold, be bitten by mosquitoes, work long hours, get stuck in the mud, run the boat aground, run a boat when no one should be out on the water, endlessly count mundane critters and explain what they are doing to anybody who wants to listen". We want to thank Bernie Gardner and Alan Young for arranging the meetings and Salem State College for providing the facilities and treating NEERS to such a wonderful time in June.

By now you should have received the call for papers for the Fall Meetings on Cape Cod. Just a reminder that all abstracts are due with Marshall Pregnall by Monday, September 12, 1994. Due to the special sessions and the number of presenters expected, all members are encouraged to consider a poster for their presentation. There will be a management/policy symposium on Thursday, October 20 (contact Sandy Macfarlane) and a special education session on Saturday, October 22 (see below). The Fall '94 meetings will be held at the Old Jailhouse Tavern (an appropriate place to hold meetings for NEERS members) in Orleans, Massachusetts from Thursday, October 20 through Saturday, October 22, 1994. The Cape in the fall is both beautiful and not very crowded and will be a great place for the meetings. This meeting will be well attended so get your reservations in early. Also be prepared to do a little relaxing while you are there, there are bike trails, beaches and places to see. We are looking forward to seeing everybody there.

The special Marine Science Education session scheduled for Saturday morning, Oct. 22, will involve presentations ranging from high school education to marine sciences for the public. Many NEERS members are involved in marine education in one way or another, but seldom have the opportunity to exchange ideas and thoughts on the subject. This marine science education session will present a broad-brush approach to the topic and will include both invited and contributed talks and posters. It is anticipated that presenters will be a mix of educators from all levels of education including elementary, secondary, college and the public sector. The session is particularly looking for posters focusing on school curricula and programs for the general public. There will be an extended coffee break/poster session for informal chats and a "sea swap" table to trade



curriculum ideas. For more information contact Charlene D'Avanzo at (508)548-3705 ext518 (summer) or (413)549-4600 (fall).

## OTHER

NEERS members have been in the news of late. An Associated Press article carried by many New England newspapers this past summer discussed the invasion of the Japanese shore crab into Long Island Sound. The presence of the crab in the Sound was discovered by NEERS member **Barbara Whitman** of Monroe, CT. during a field trip with sixth graders to Bridgeport, CT. The article quoted Barbara as well as NEERS member **James Carlton**, Director of Marine Studies at Mystic Seaport on the potential influences these crabs may have on the native marine environment (see Jim's article in the December '93 ERF Newsletter).

NEERS members **Jay Moore** and **Marshall Pregnall** left the Spring '94 meetings in June only to meet up the following weekend at their high school reunion. Both members went to St. Alban's School in Washington, D.C. (and lets just say that neither one was attending their 10th year reunion). Not only did they go to the same high school, but they both showed up in jacket and tie...will wonders never cease!

As many of you may be aware of by now, NEERS is looking to host the ERF '97 meetings. Volunteers will be needed for many of the tasks, keep an eye out for future announcements on the topic. ERF '95 will be in Corpus Christi, Texas so start saving those pennies.

## ACKNOWLEDGEMENTS

NEERS NEWS would like to thank **Dr. Tavit O. Najarian** of Najarian Associates, Inc. for his continuing support in the production of the newsletter.

## JOB ANNOUNCEMENTS

**Instructor/Assistant Professor of Ocean Studies**, temporary (possibly permanent) full-time position for the 1995 Academic Year to teach marine science and chemistry, MS required, Ph.D. preferred, Send letter of application and resume to

Director of Human Resources, Maine Maritime Academy, Box C-3, Castine, ME, 04420. For additional information contact John Barlow at (207)326-2396 or Joceline Boucher at (207)326-2240. Position starts 9/6/94.

**Course Instructors**, individuals willing to teach undergraduate courses at the senior level in marine sciences. These will be offered as intensive three to four week or 14 week full semester formats during the spring term. Topics are open to individuals expertise and the Academy has full facilities and equipment including waterfront lab space and research vessels. For more information contact John Barlow at (207)326-2396 or write him at Corning School of Ocean Studies, Andrews Hall, Maine Maritime Academy, Castine, ME, 04420.

**Research Scientist/Educational Coordinator**, Bigelow Laboratory for Ocean Sciences has a position open for a research scientist to conduct research on processes affecting biological productivity of the oceans and coastal seas. The position is supported primarily through research funding. Bigelow lab is also looking for applicants for Educational Coordinator between the lab and University of New England. Partial salary support will be available for development and implementation of the education programs. Send CV and letter of research interests to Search Committee, Bigelow Laboratory for Ocean Sciences, P.O. Box 475, McKown Point, West Boothbay Harbor, ME 04575 or call (207)633-9600; OMNET: bigelow.lab; Internet: bigelow@saturn.caps.maine.edu

## STUDENT SUPPORT

The Sounds Conservancy Inc. has a Marine Conservation Education and Research Program which supports student research projects within the marine region of southern New England (East River, NY to Outer Cape). Grants of \$1,000 to a maximum of \$2,500 are available. Applications are due April 1 for summer funds and October 1 for funding during the academic year. For



application/information contact Christopher Percy, The Sounds Conservancy, Inc., 43 Main St., P.O. Box 266, Essex, CT 06426 or call (203)767-1933. The Sounds Conservancy also encourages membership in its organization which helps provide funding for student grants. Anyone interested in becoming a member can contact the Conservancy at the above noted address.

# DIALOG

Dissertations Initiative for the Advancement of Limnology and Oceanography

## Program for Recent Ph.D. Recipients in Biological Oceanography and Limnology

### PURPOSE

The DIALOG (Dissertations Initiative for the Advancement of Limnology and Oceanography) program seeks to reduce the historical, institutional and philosophical barriers that limit the exchange of information between limnologists and oceanographers, and to expedite the transition from Ph.D. student to independent researcher. Through this program, the dissertation abstracts of recent Ph.D. recipients will be collected and compiled, a symposium will be held to bring together recent aquatic science graduates, and a centralized data base of aquatic science researchers will be initiated.

### DISSERTATION ABSTRACTS

Dissertation abstracts submitted to the DIALOG program will be compiled to provide a concise introduction to the work of this most recent generation of aquatic science researchers. Abstracts from dissertations completed after June 1, 1992 are eligible. Participation in the DIALOG symposium is not necessary for inclusion in the compilation.

### SYMPOSIUM

A 5-day symposium for up to 40 recent Ph.D. recipients will foster cross-disciplinary understanding and collaborations. Each participant will present a 20-minute overview of his or her Ph.D. dissertation research. Participants will also form working groups to discuss aquatic science issues that transcend traditional boundaries. Federal agency representatives and one research scientist, selected from community nominations, will present perspectives on interdisciplinary aquatic science research programs. Funds for symposium travel awards have been provided by the sponsoring agencies.

Symposium Dates & Location:  
December 13-17, 1994  
Bermuda Biological Station for Research.

### DATA BASE

Information submitted by applicants will be transferred to a computerized data base. It will first be used to characterize this most recent group of Ph.D. recipients, and later, as the data base expands, to assess trends.

### ELIGIBILITY

The program is open to biologically oriented limnologists and oceanographers who complete their Ph.D. requirements between June 1, 1992 and September 1, 1994, and wish to pursue interdisciplinary aquatic science research. Symposium space is expected to be limited. A committee will select participants based on the application materials submitted.

### APPLICATIONS

For information and application forms, contact:

Dr. C. Susan Weiler  
Dept. Biology  
Whitman College  
Walla Walla, WA 99362  
USA  
Tel: 509-527-5948  
Fax: 509-527-5961  
Internet: weiler@whitman.edu

### DEADLINE FOR ABSTRACTS AND SYMPOSIUM APPLICATIONS

September 10, 1994

DIALOG is a program of the American Society of Limnology and Oceanography

## SCORING CRITERIA FOR STUDENT PRESENTATIONS AT NEERS

EVALUATION OF ORAL PRESENTATION FOR KETCHUM OR RANKIN PRIZE (circle one)

OF (student name) \_\_\_\_\_  
AT \_\_\_\_\_ (place) \_\_\_\_\_ (date) NEERS MEETING  
BY \_\_\_\_\_ (judge). TOTAL SCORE = \_\_\_\_\_

EVALUATION: 5 = OUTSTANDING  
4 = ABOVE EXPECTED STANDARDS  
3 = ACCEPTABLE  
2 = BELOW EXPECTED STANDARDS  
1 = POOR

### A. QUALITY OF ABSTRACT (5 - 1)

Does it concisely state the objectives and scope of the investigation, describe the methods, summarize the results, and state the principal conclusions? Does it motivate interest?

### B. PREPARATION OF PRESENTATION (5 - 1)

logical development and integration of the presentation, states purpose of the study or hypothesis tested, logical formulation and expression of conclusions, interpretations, limitations, and implications.

### C. SCIENTIFIC CONTENT OF STUDY (5 - 1)

Are the design and methods appropriate and adequate for the purpose of the study? Value of the study in investigating methods, concepts, or data. Is this evident from the presentation?

D. CREATIVITY (5 - 1)  
degree of creativity or originality in both study and presentation

E. QUALITY OF VERBAL COMMUNICATIONS (5 - 1)  
Voice quality and volume, enthusiasm, grammar, interaction with audience, posture and body language and mannerisms, pronunciation, ability to get concepts across to audience, professionalism

F. ADEQUACY OF VISUAL AIDS (5 - 1)  
Slide or transparencies clear, focusable, readable, appropriate degree of complexity, comprehensible, and relevant

G. ABILITY TO HANDLE QUESTIONS DURING DISCUSSION (5 - 1)  
Adequately answer questions, ability to deal with questions that the speaker doesn't know the answer to

H. IS IT APPARENT THAT THE PRESENTER IS THE PERSON MAINLY RESPONSIBLE FOR THE WORK? (3 - 1)  
does the presentation show understanding of the topic?

I. TIMING (3 - 1)  
Uses only allotted time or close to it

J. COMMENTS:

## RESULTS OF NEERS SURVEY

The results of the NEERS survey (see NEERS NEWS v.1 (1) are in. Of the 300 mailings, 41 (14%) responded to the survey [not a good showing NEERS people]. Most members found that all of the categories listed in question #1 (influence your decision to attend) were only a minor consideration. Most of those who responded attend three meetings every two years and prefer April or May in the spring and October or November in the fall. 80% like having the meetings at the end of the week (Thursday PM to Saturday AM). The factors of the meetings most important to members were diversity of the program, a good audience for presentations, a chance to discuss work with other scientists, a good place for students to gain experience, a small enough audience to be able to talk with fellow members, and a way to meet with other scientists from our area. Two thirds of those responding wants to keep the special sessions on Thursday afternoon (as opposed to Friday or Saturday AM). And 97% said they like having a NEERS newsletter [Phew! That's good to hear]. Other symposium topics members would like to see at future meetings include applied science, biocontaminants, biogeography, coastal currents and plankton transport, coastal structures, relation of estuary to open ocean, exotic species, historical ecology, integration of science and policy, pollution and pathogens, restoration and management, wildlife trends, anadromous fish, and application of research into usable techniques.

From time to time we will run these surveys to learn more about our membership. We can also, on occasion, run these surveys for individual members. When you receive them, please respond.



\*\*\*SPECIAL SECTION\*\*\*

## PROPOSED CHANGES TO THE NEERS CONSTITUTION

[The following are editorial comments presented by Veronica Berounsky and Robert Buchsbaum]

"Why We Need Some Changes to the NEERS Constitution" by President Berounsky and Secretary/Treasurer Buchsbaum.

One change will split our present Secretary/Treasurer into two positions, Secretary and Treasurer. NEERS needs to do this. As our present NEERS Secretary/Treasurer Robert Buchsbaum can testify to, there is enough work in this position for two people. Having been Secretary/Treasurer, I know how true this is. NEERS has grown in membership and responsibilities since our constitution was written at the organizational meeting 25 years ago. Also NEERS is very dependent on the Secretary/Treasurer, particularly at the meetings. Having two people involved eases the crisis that would occur if that person couldn't be on the job. A final consideration is that NEERS is a volunteer organization and we all lead very full lives. Also long gone are the days when you had a secretary to type for you [the NEWS editor can attest to this last statement]. Easing the burden of this office may encourage more members to run for an office and stay for a second term. The second change is to formally make the NEERS Program Chair a member of the NEERS Executive Committee and to spell out the duties of that position in our constitution. Our meetings are such an important part of NEERS that the NEERS constitution should reflect its importance by including the position and duties of the Program Chair. Also, the Program Chair should be attune to what the Executive Committee is thinking about and would like to see happen. I think we all agree that the Program Chair has been useful and has contributed in many ways to our programs.

### Proposed Constitutional Changes:

#### OFFICERS/EXECUTIVE COMMITTEE

First paragraph, present wording:

The officers of NEERS shall consist of a President, a President-elect, and a Secretary-Treasurer. Terms of office shall be two years and individuals elected to the office of President/President-elect shall not be eligible for election again to that office. The individual elected as President-elect will acquire the duties of President two years subsequent to the date of election. The Secretary-Treasurer may be reelected to the same office, but may serve no more than two terms in that capacity.

Proposed first paragraph (revisions in **bold**):

The officers of NEERS shall consist of a President, a President-elect, **a Secretary, and a Treasurer**. Terms of office shall be two years and individuals elected to the office of President/President-elect shall not be eligible for election again to that office. The individual elected as President-elect will acquire the duties of President two years subsequent to the date of election. **The Secretary and the Treasurer** may be reelected to the same office, but may serve no more than two terms in each capacity.

Second paragraph, present wording:

The President shall appoint one member of NEERS to serve as NEERS representative to the Governing Board of the Estuarine Research Federation (ERF). The President shall also appoint one member of NEERS to serve as NEERS historian and two members of NEERS to serve as at-large representatives on the Executive Committee.

Proposed second paragraph (revisions in **bold**):

The President shall appoint one member of NEERS to serve as NEERS representative to the Governing Board of the Estuarine Research Federation (ERF). The President shall also appoint one member of NEERS to serve as NEERS historian, **one member of NEERS to serve as Program Chair**, and two members of NEERS to serve as at-large representatives on the Executive Committee.

Third paragraph, present wording:

The Executive Committee shall consist of the President, the President-elect, the Secretary-Treasurer, the immediate past president, the Historian, the two at-large members and the NEERS representative to ERF.

Proposed third paragraph, (revisions in **bold**):

The Executive Committee shall consist of the President, the President-elect, **the Secretary, the Treasurer**, the immediate past president, the Historian, **the Program Chair**, the two at-large members and the NEERS representative to ERF.



## DUTIES OF THE OFFICERS/EXECUTIVE COMMITTEE:

First paragraph: remains as is.

Second paragraph, present wording:

The Secretary-Treasurer shall: 1) collect, disburse, and account for all monies; 2) issue a notice of meetings and call for papers at least six weeks prior to the meeting date; 3) maintain an up-to-date list of the members which shall be mailed to the membership annually in the fall; 4) notify, by letter in the spring, all members who are in danger of being dropped from membership after the fall meeting; 5) maintain and have available a copy of the Constitution for the information of any member.

Proposed second and third paragraphs, (revisions in bold):

The Secretary shall: 1. work with the meeting organizers and the Program Chair to issue an announcement of the meeting and call for papers at least eight weeks prior to the meeting date; 2. maintain an up-to-date list of the members which shall be mailed to the membership annually in the fall; 3. maintain and have available a copy of the Constitution for the information of any member; 4. record minutes of NEERS business meetings and Executive Committee meetings; 5. correspond with the Estuarine Research Federation; 6. prepare a Secretary's report for each NEERS business meeting.

The Treasurer shall: 1. collect, disburse, and account for all monies, including those pertaining to dues and meetings; 2. maintain bank accounts; 3. keep records of dues payments by NEERS members; 4. notify, by letter in the spring, all members who are in danger of being dropped from membership after the fall meeting due to non-payment of dues; 5. consequently, notify Secretary as to which members should be dropped; 6. prepare a Treasurer's Report for each NEERS business meeting.

Proposed fourth paragraph (new paragraph):

The Program Chair, in conjunction with the local organizing committee, and with help from officers of the Society shall plan and carry out each NEERS meeting. They will work together to: 1. schedule meetings; 2. select and reserve facilities; 3. mail out to members the announcement and call for papers at least 8 weeks before the meeting; 4. develop the program; 5. mail the meeting program out to members before the meeting; 6. have printed the abstracts of presentations; 7. facilitate the smooth running of the meeting. The Program Chair shall receive and review abstracts, and have final responsibility for all aspects of each NEERS meeting.

## Proposed Revisions to Update the "NEERS Policy Statement"

Second paragraph, present wording:

The Program Committee shall consist of \_\_\_\_\_. The Chair shall be appointed by the president (serve on the executive committee?)

Second paragraph, proposed wording:

The local organizing committee shall work with the Program Chair and the officers of NEERS to plan and host a NEERS meeting. (See NEERS constitution and Meeting Planning Document for more details.) The registration fee for four committee members will be waived.

Third paragraph, present wording:

The Ketchum Award was established to recognize excellence in student presentations. It consists of \$100 awarded to the best graduate student paper presented at a NEERS meeting; the student must be the sole author. The Rankin Award was first awarded at the spring 1989 meeting. It consists of \$50 awarded to the best undergraduate student paper presented at a NEERS meeting; the student must be the senior author of the paper. Three to five judges (an odd number prevents ties) shall be appointed by the President from the NEERS members attending the meeting to judge papers in both categories.

Third paragraph, revised wording in bold:

The Ketchum Award was established to recognize excellence in student presentations and was first awarded at the spring 1983 meeting. It presently consists of \$100 awarded to the presenter of the best graduate student paper at a NEERS meeting; the student must be the sole author or clearly the major contributing author. The Rankin Award was first awarded at the spring 1989 meeting. It presently consists of \$50 awarded to the presenter of the best undergraduate student paper presented at a NEERS meeting; the student must be the senior author of the paper. Three to five judges (an odd number prevents ties) shall be appointed by the President from the NEERS members attending the meeting to judge papers in both categories, using the NEERS scoring criteria. The awards are presented at the NEERS banquet, which student award candidates attend for free.

2-11  
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