



PHYCOLOGICAL NEWSLETTER

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REFLECTIONS ON THE 55th MEETING OF THE PHYCOLOGICAL SOCIETY OF AMERICA

The PSA met at the Estes Park Conference Center June 23 – 28. It was a time to renew old friendships, make new friends and establish contacts for future collaborative research endeavors. The Holiday Inn and its staff must be commended for their excellent service. The Symposium organizers, session chairs, and the students are to be highly praised for arranging and helping at this meeting. On behalf of the Program Committee, Larry Fritz (Chair), Dave Millie, Michelle Wood, Linda Graham, Dana Uzwiak and myself, I also would like to acknowledge the participants who truly made this meeting a success. A special thanks is extended to Larry Boihem, who was an invaluable resource for our computer presentations and presenters. Because of some symposia topics, we had participants who had not been to PSA meetings previously, and it definitely added much to the meeting. Elk marching through the parking lot also added to the ambiance, as Stacy Zimmerman can attest.

Just so that future organizers understand and realize the amount of work involved, preparations for the meeting began almost two years ago. Being 36 miles from Estes Park, I was the logical (??) choice for local organizer. The Conference Center was contacted in September 1999. The Conference Center is administered by the Holiday Inn



The PSA annual meeting was held June 23-28th at the Estes Park Conference Center in Estes Park, Colorado.

MARK YOUR CALENDAR NOW!

The PSA 2002 Annual Meeting will be held
at the Pyle Conference Center,
University of Wisconsin campus,
Madison, Wisconsin (USA)
August 3-8

The PSA will meet jointly with the Botanical Society of America and other botanical organizations. For more meeting information please see www.botany2002.org and remember to check the PSA website for updated information

<http://www.psaalgae.org/meeting/meeting.html>

The PSA portion of the program will consist of a Plenary Lecture, organized symposia, and contributed oral and poster papers.

but is jointly owned and operated by Denver and Estes Park, and I met with personnel from these entities to begin planning the meeting. Numerous additional trips and discussions about various aspects and requirements ensued in 2000 and 2001. Preparations and changes continued until the day before the meetings began. On Thursday, June 21, Charlie Yarish, Dennis Hanisak and I had our final meeting with the Holiday Inn personnel. In fact some of the activities changed during the meetings due to inclement weather.

The Board of Trustees was the first to arrive on Thursday, June 21, to prepare for its meeting on Friday. Most of the Executive Committee members arrived Friday in preparation for their meeting on Saturday. Meanwhile my students and I were bringing computers, projectors, auction items, poster boards, abstracts and programs to the meeting site. My lab finally had some room again.

Registration started on Saturday and continued through Sunday, as did the EC meeting. Shortly after 12 noon, the meeting began with the Bold Award presentations, chaired by T. J. Evens. Student presenters were Mel Alm, Mark Clegg, Stephen Greer, Hillary Hayden, Gunella Toth, Robert Verb, and Sarah (Dakel) Zuzulock. The judges had a difficult decision since all were first-rate presentations. Nevertheless, they had to select one of the presentations. The Graduate Student symposium chaired by Alison Sherwood and Todd Harper and sponsored by PSA, followed the Bold Award presentations. The theme was Historical Perspectives in Phycology, and the speakers were Clinton Dawes, Mike Wynne and Max Hommersand. A special presentation was provided by David "Paddy" Patterson on a user-friendly protist database for identifying genera. The presentation stimulated ideas on how more phycologists could contribute to this ever expanding database called micro*scope. In the evening registrants were welcomed with a buffet reception. However, we were drowned out by the rain, which began an hour after the festivities and the revelers were forced inside because our typical afternoon, temporary showers continued longer than usual. Some refused to seek shelter but after a period of being drenched, they finally succumbed.

The meetings continued on Monday, beginning with a Plenary Lecture by Ralph Quatrano on "*Physcomitrella*, a New Model System for Genomic Studies" and followed by the Algal Genomics Symposium, which was organized by Michelle Wood and Arthur Grossman and funded by PSA and EXELIXIS INC. The presentations included *Chlamydomonas*, diatoms, Cyanobacteria, red algae and dinoflagellates. That evening rains threatened and the planned outdoor BBQ had to be moved inside. The rain arrived again, but when it stopped, we were able to sit outside and enjoy some of the evening. A lively annual auction followed and raised a considerable amount of money to fund student travel. Russ Chapman, I believe, was the main victim or contributor to the financial success of the auction.

On Tuesday the early Plenary Lecture was presented by Mark Hay on "Seaweed Chemical Ecology: Its importance to individuals, Populations, and Communities", which was fol-

lowed by the symposium on Algal Chemicals and the Environment. The symposium was organized by Susan Watson and Edwin Cruz Rivera and was funded by PSA. A second symposium on Algae in Integrated Aquaculture began in the afternoon and was preceded by the second plenary lecture on "The importance of Integrating Algal Systems into a Balanced Management Approach to Aquaculture" by James McVey. Thierry Chopin organized this symposium, and funding was provided by PSA and NOAA. The annual business meeting that evening was sparsely attended, but we managed to have a quorum (40 members is all that it takes). Reports were given by all the executive committee members and a proposed membership fee structure change was passed by the members present (see Business Meeting Notes in this issue). It was also announced at this time, that next year PSA will meet with the Botanical Society of America and several other societies in Madison, Wisconsin from August 3-8. In 2003 the meeting will be held north of Newport, Oregon when Gayle Hansen will host the meeting. In 2004 the meeting is planned for Williamsburg, Virginia with Joe Scott and Sharon Broadwater volunteering to be the local organizers. In 2005 the proposed venue is South Africa. The rather uneventful evening was completed when a large group of students and others participated in the student social at a local pub.

Wednesday was reserved for relaxation, sight seeing and field trips. The scheduled field trips were to Rocky Mountain National Park, Grand Lake, and rafting on the Poudre River. Stretch limousines drove the passengers to Grand Lake. These participants thought it was rather humorous that tourists would wave at the limousines, believing that some important public figures were inside. Of course, we think that these phycologists were special. The Rocky Mountain tour used vans; nevertheless the participants had a good time. Rafters had to be ready at 6:30 for their trip, and I was told that some of the party people from the student social were unable to make the departure time. The group rafted the river twice, and only Mel Alm fell in. The Awards Banquet that evening included a buffet menu of superb food, and some could not resist going back for seconds or even



Colleagues Rick McCourt (Membership Director), Marvin Fawley, Jim Wee and Ed Theriot (left to right) enjoying one of the evening events at the PSA Annual Meeting.

thirds. Numerous awards were presented after the dinner and are listed elsewhere in this Newsletter. Charlie Yarish was a perfect host and a dynamic master of ceremonies, who provided an entertaining post-dinner program.

Thursday was a light day. The Algal Chemical Symposium continued from Tuesday, followed by contributed papers on the same topic. Concurrent sessions were Molecular Biology of Microalgae, Molecular Biology of Macroalgae, Ecology and Physiology. The sessions were completed by noon and participants said farewell. Others remained in Colorado for an extended visit to see other scenic areas in the state, and I hope that they had a pleasant, rewarding, and enjoyable experience.

Now that my formal obligations to the Society are at an end, I once again can begin to sleep at night and wish my successors the best of luck in their endeavors. It has been a hectic seven years for me, but for the most part, it has been a productive and satisfying time in my professional life, and I look forward to being a regular member who can attend meetings without worrying about logistics. Thanks to all who have helped me during this time and thanks for all the wonderful support, memories and friendships, with which I have been provided. I hope to see as many of you as possible next year in Wisconsin. PHYCOLOGY PHOREVER!

Paul Kugrens
Local Organizer

CONGRATULATIONS TO THE PROVASOLI AWARD WINNER, FINALISTS, AND NOMINEES!

The Editorial Board (including the Associate Editors and an appointed student member of the Provasoli Committee) nominates and elects the winner(s) of the Luigi Provasoli Award each year. This award for the best paper published in the preceding year in the *Journal of Phycology* now carries a \$1,000 prize, certificates, recognition at the annual awards' banquet, and official publication of the award in the December issue of the *Journal*. The winners of the 2001 Award for papers published in 2000 were Marnie J. Zirbel, Fabrice Veron, and Michael I. Latz of Scripps Institution of Oceanography (La Jolla, CA, USA) for a paper (see below) that is important in understanding phytoplankton dynamics and dinoflagellate morphology. Two finalist papers were also honored in Estes Park. A paper by Andrée Jenks and Sarah P. Gibbs (McGill University, Montreal, Canada) provides additional information on the evolutionary history behind the occurrence of different forms of Rubisco in different dinoflagellates. Drs. Florian Weinberger and Michael Friedlander (National Institute of Oceanography, Haifa, Israel) were applauded for their excellent paper (see below) that increases our understanding of cell signaling and defensive reactions by algae under attack from cell-wall digesting bacteria.

In addition to the finalists and winners, 27 other papers were nominated for the Provasoli Award. This means that one or more members of the Editorial Board considered this paper worthy of the Provasoli Award. Many excellent papers across the breadth of our discipline are published in the *Journal* each year.

One of the key pleasures of my editorship has been to supervise the selection of the Provasoli Award each year and to recognize not only the ultimate winner(s), but also the nominees, because nomination for this prize is a great honor in itself. I am pleased that so many of you were able to attend the awards' banquet during the annual meeting at Estes Park. There are future winners of the Provasoli Award among you; good luck with your future research!

Susan H. Brawley
Editor, *Journal of Phycology* (1996-2001)

WINNER: Zirbel, M. J., Veron, F., and Latz, M. I. "Reversible effect of flow on the morphology of *Ceratocorys horrida* (Dinophyceae)" (February [36/1], 46-58.)

FINALIST: Jenks, A., and Gibbs, S. P. "Immunolocalization and distribution of form II Rubisco in the pyrenoid and chloroplast stroma of *Amphidinium carterae* and form I Rubisco in the symbiont-derived plastids of *Peridinium foliaceum* (Dinophyceae)" (February [36/1], 127-38.)

FINALIST: Weinberger, F. and Friedlander, M. "Response of *Gracilaria conferta* (Rhodophyta) to oligoagars results in defense against agar-degrading epiphytes" (December [36/6], 1079-86.)

GERALD W. PRESCOTT AWARD

The Prescott Award is given to recognize scholarly work in English in the form of a published book or monograph devoted to phycology published in the last 2 years.

This year's Prescott Award was announced at the annual meeting. The winning book was "Susswasserflora von Mitteleuropa Cyanoprokaryota 1. Chroococales" by Dr. J. Komarek and K. Anagnostidis. This book very detailed descriptions of taxa, easy to follow keys and clear line drawings with photomicrographs as well.

ELECTION COMMITTEE RESULTS

Vice President/President Elect -

Dr. David Mille
USDA-Agricultural Research Service, Mote Marine Lab.

New Editorial Board Members -

Prof. Dr. Klaus Lüning
Stiftung Alfred-Wegener-Institut / Wattenmeerstation Sylt
Dr. Jeanine L. Olsen
University of Groningen
Dr. Chris Lobban
University of Guam
Dr. Michael J. Sullivan
Mississippi State University

Student Representative on Executive Committee -

Are Pedersen
University of Connecticut

PHYCOLOGICAL TRAILBLAZER

No. 15: Horatio C Wood

Horatio C Wood is certainly known for more than his contributions to botany and phycology. He has been regarded as “the pioneer in American pharmacology” and made numerous significant accomplishments in medicine, human physiology, and experimental therapeutics. Yet Horatio Wood is also remembered because he was one of the early and important American phycologists, one who preceded and influenced Wolle (1887). He came from an era in which medical people received extensive education in botany and in the medicinal uses of plants. But his strong curiosity in natural history in general and in botany and freshwater algae in particular manifested itself when he was quite young. His biographer Roth (1939, 1959) recorded how Wood came to the attention of the eminent Professor Joseph Leidy of the Philadelphia Academy of Sciences. Leidy could not help but notice the frustration of the 13-year-old Wood who was unable to handle and study specimens in a display case in the Philadelphia Academy of Natural Sciences. Leidy made arrangements with the President of the Society that this inquisitive youth might have access to such cases as he should desire, and thus Wood’s innate interest in science was encouraged at this formative time in his life.

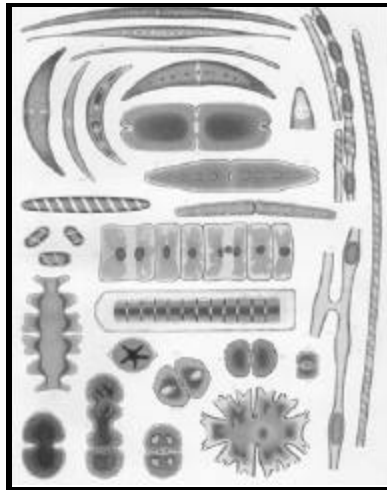
Wood’s initial scientific interests were botanical, and at the relatively young age of 19 he published his first paper, a contribution on the carboniferous flora of the United States. In fact, two other papers quickly followed.

He entered University of Pennsylvania Medical School in 1859. At that time a medical degree was conferred after the completion of two courses of lectures, the submission of a graduation thesis (Wood’s thesis was on enteric fever), and the attainment of the age of 21. Thus, he received his degree in medicine in 1862. Residency was spent in two civilian hospitals in Pennsylvania. With the “War Between the States” going on, once his residency was completed, he joined the United States Army, serving in its medical corps. It was after the War that he returned to Medical School of Penn, taking on the job of “quizmaster” or teacher. It was routine then that the medical school staff would also carry out their medical practice. Wood’s practice centered on neurological and psychiatric cases.

In 1867 he published his first paper on freshwater algae of North America, which was followed by about a dozen other relatively short papers on such algae as *Schizomeris*, *Oedogonium*, and *Palmella*. These papers were published mostly in the in-house journal of the Philadelphia Academy of Natural Sciences. Wood (1867b) reported on sexual and asexual reproduction in *Oedogonium* and *Bulbochaete*. He used fixatives and stains to detect the “circle or crown of cilia” in the naked zoospores of *Oedogonium*. He also observed the attachment of the dwarf male filaments in gynandrosporous species. He apparently traveled to California because he reported (1867c) an unnamed fresh-water alga growing in a Mono County hot spring, with water temperatures of 120-136°F. A more substantial publication, “Prodromus of a Study of the Fresh-water Algae of Eastern North America”, appeared in 1869. Then in 1872 he published his *magnus opus* on freshwater algae, namely, a quarto of 270 pages accompanied by 21 plates (19 of which were colored). The plates displayed an impressive total of 360 microscopic drawings executed by Wood himself and showing his artistic talents. An example of one of these plates is depicted below.



Horatio C Wood
(from Roth, 1939)



Wood, 1872, pl. XII

One of the new species that Wood described in his 1872 work was the red alga *Chantransia macrospora* from Aiken, South Carolina. This species was transferred to *Batrachospermum* by Collins (1906), where it was renamed *B. australe* because of the prior existence of the name *Batrachospermum macrosporum* Montagne. Wood’s species was also moved to *Pseudochantransia* by Brand (1909). The name *Audouinella macrospora* (Wood) Sheath & Burkholder (1985) was later proposed, but Necchi & Zucchi (1996) provided evidence that *A. macrospora* represents the *Chantransia* stage in the life history of several species of *Batrachospermum*, including *B. macrosporum* Montagne. By their analysis of rDNA sequences, Pueschel et al. (2000) demonstrated that 3 cultures of *A. macrospora* fell in a clade with *B. macrosporum* Montagne, thus generally confirming the conclusions made by Necchi & Zucchi that *A. macrospora* is not a good species within the Acrochaetiaceae.

On behalf of the Smithsonian Institution, Wood ventured

out in search of biological specimens. One of his trips was to the Bahamas. Another expedition was to then-remote regions of Texas along the Mexican border. In fact, he was supposed to be one of the first white men on record to see the Grand Canyon of the Rio Grande. For recreational purposes he took up hunting, and this avocation took him to remote parts of western and northwestern America and Europe in pursuit of large game.

Wood's primary research efforts gradually became focused on pharmacology, and he devoted thirty years of his professional life in helping to develop a Pharmacopoeia of the United States. From 1890 to 1910 he served as President of the United States Pharmacopoeial Convention. In 1902 he was the official delegate representing the United States at the Brussels Conference, which was called by the Belgian government to establish an International Pharmacopoeia (Roth, 1939). Most of the approximately 300 publications by Wood treated physiology, pharmacology, and experimental therapeutics. He was responsible for the very first publications in which hemp (*Cannabis sativa*) and hyoscyamine were used as pharmacological agents. These took on the reputation as classic papers. Other papers involved the activities of atropine, quinine, ethyl bromine, various anesthetics, and amyl nitrite. Dogs were initially used as experimental animals before he tried the drugs on humans, but he did include both himself and his wife as "guinea pigs" in these experiments. Wood was the recipient of numerous honors, including being elected to the National Academy of Sciences in 1879.

Brand, F. 1909. Über die Süßwasserformen von *Chantransia* (DC.) Schmitz, einschliesslich *Pseudochantransia* Brand. Hedwigia 49: 107-118.

Collins, F. S. 1906. New species, etc., issued in the Phycotheca Boreali-Americana. Rhodora: 104-113.

Necchi, Jr., O., & M. R. Zucchi. 1997. *Audouinella macrospora* (Acrochaetiaceae, Rhodophyta) is the Chantransia stage of *Batrachospermum* (Batrachospermaceae). Phycologia 36: 220-224.

Pueschel, C., G. W. Saunders & J. A. West. 2000. Affinities of the freshwater red alga *Audouinella macrospora* and related forms based on small-subunit ribosomal rna gene sequence analysis and pit plug ultrastructure. Journal of Phycology. 36: 433-439.

Roth, G. B. 1939. An early American pharmacologist: Horatio C Wood (1841-1920). Isis 30: 38-45, 1 pl.

—. 1959. Horatio C Wood, Jr. January 13, 1841-January 3, 1920. Biographical Memoirs National Academy of Science, U. S. A. 33: 462-484, with portrait.

Sheath, R. G., & J. M. Burkholder. 1985. Characteristics of softwater streams in Rhode Island. II. Composition and seasonal dynamics of macroalgal communities. Hydrobiologia 128: 109-118.

Wolle, F. 1887. Fresh-water Algae of the United States; (exclusive of the Diatomaceae) complementary to desmids of the United States. 151 pls. The Comenius Press, Bethlehem, PA.

Wood, H. C. 1867a. Some observations on the life history of some of our siphonaceous fresh water algae. Proc. Acad. Nat. Sci. Phila. 19: 93.

—. 1867b. A botanical excursion in my office. Am. Nat. 1: 517-530.

—. 1867c. Remarks on a fresh-water alga from the thermal springs.... Proc. Acad. Nat. Sci. Phila. 19: 125.

—. 1868a. Manner in which *Schizomeris leibleinii* produces its zoospores. Proc. Acad. Nat. Sci. Phila., Biological & Microscopical Dept., Pp.11-12.

—. 1868b. Description of a new species of *Palmella*. Proc. Acad. Nat. Sci. Phila., Biological & Microscopical Dept., Pp. 12-13.

—. 1868c. Notes on some algae from a California hot spring. Am. J. Sci. Arts, II, 46: 31-34.

—. 1869a. Prodromus of a Study of the Fresh-water Algae of Eastern North America. Proc. Am. Phil. Soc. 11: 119-145.

—. 1869b. New species of *Sirosiphon*. Proc. Acad. Nat. Sci. Phila., Biological & Microscopical Dept., Pp. 1-2.

—. 1869c. *Nostochopsis*. A probably new genus of fresh-water algae. Proc. Acad. Nat. Sci. Phila., Biological & Microscopical Dept., Pp. 2-3.

—. 1869d. An undescribed species of *Oedogonium*. Proc. Acad. Nat. Sci. Phila., Biological & Microscopical Dept., Pg. 4.

—. 1869e. Desmids from the White Mountains. Proc. Acad. Nat. Sci. Phila., Biological & Microscopical Dept., Pp. 15-19.

—. 1869e. *Nostoc cristatum*. Proc. Acad. Nat. Sci. Phila., Biological & Microscopical Dept., Pg. 20.

—. 1869f. On *Oedogonium huntii*. Proc. Am. Phil. Soc. 10: 333-335.

—. 1871. Algae. Rep. U. S. Geol. Explor. Fortieth Parallel. (Botany) 5: 415.

—. 1872. A Contribution to the History of the Fresh-water Algae of North America. Smithsonian Contributions to Knowledge 19(3): i-viii, 1-262, with 19 colored and 2 uncolored plates from 360 original microscopic drawings. [with excerpts appearing in Grevillea 2: 54-57, 72-76, 92-96. 1873.]

M. J. Wynne
University of Michigan, Ann Arbor

Next issue: Phycological Trailblazer No. 16: A. H. S. Lucas

ATTENTION PSA STUDENT MEMBERS!

A listserv has been established for **students** for the purpose of communication on all phycological or graduate student topics: **PSAS**, or the Phycological Society of America Student listerv. This is YOUR listserv, and is a forum meant for student use only to allow a more informal discussion atmosphere and to concentrate on issues of concern unique to student members. Here are some ways PSAS could benefit you as a student:

- * You can ask research or technique questions without worrying what the esteemed gurus of our field think
- * Find roommates or travel buddies for the annual meeting
- * Exchange information on writing scholarship or grant applications
- * Get candid and firsthand information on what it's like to work with prospective advisors

Convinced? Here's how to join:

Send an email message to listserv@colostate.edu with the content "subscribe psas your_name".

2001 BOLD AWARD

The Bold Award was established in 1973 to honor Harold C. Bold, a Charter Member of the Society, and its President in 1955-56. The Award is for the outstanding student research presentation at the Annual PSA Meeting.

This year there were 7 students in the Bold Award competition. All the presentations were excellent.

The Bold Award for the best student presentation was awarded to **Mark Clegg** for his presentation entitled "Response of Freshwater Flagellates to Environmental Gradients" co-authored by S. C. Maberly and R. I. Jones.

To learn more about the competition for 2002 please visit the PSA website.



2001 Bold Award Competition

Pictured from Left to Right Robert Verb, Sarah (Dakel) Zuzulock, Stephen Greer, Hillary Hayden, Mel Alm, Mark Clegg (2001 Bold Award Winner), Gunella Toth and T. J. Evens (Bold Award Chair).

MINUTES OF THE PSA BUSINESS MEETING JUNE 26, 2001

I. Members present

A total of 49 members were initially present. Officers present: Charles Yarish (President), Steve Murray (Past President), Michelle Wood (Vice President/President-Elect), John La Claire (Secretary), Sharon Broadwater (Treasurer), Lawrence Fritz (Program Director), Richard McCourt (Membership Director), Susan Brawley (*Journal Editor*), Robert Waaland (Fund Manager), Dennis Hanisak (Board of Trustees Chairman), Morgan Vis (Communications Director) and Hillary Hayden (Student Representative).

The meeting was called to order at 6:25 p.m. by Dr. Yarish.

Dr. Yarish introduced the members of the PSA Executive Committee (EC) and described some of their duties. He also introduced Dr. Pat Wheeler as the *Journal of Phycology* Editor-Elect.

II. Outstanding Minutes (Dr. John La Claire)

A motion was made by Dr. Waaland (seconded by Dr. Gayle Hansen) to accept the minutes from the 2000 PSA Business Meeting in San Diego, CA. The motion was adopted unanimously.

III. President's Report (Dr. Charles Yarish)

Dr. Yarish expressed sincere gratitude to Dr. Paul Kugrens and Larry Boihem for all their efforts leading up to, and during, the meeting.

He listed the standing committees of the PSA and some of their projects. The Publications Committee is chaired by Dr. Robert Sheath who will be soliciting ideas. A high priority area is a proposal to publish a book. The Education Committee is chaired by Dr. Craig Bailey and it will be sponsoring a workshop at next year's annual meeting. There is also a project involved with putting algal images on a CD-ROM. The Grants & Fellowships Committee (chaired by Dr. Erin Krellwitz) awarded 18 Hoshaw Travel Grants, 5 Croasdale Awards, and eight Grants-in-Aid of research. He requested that any ideas be sent to the appropriate committee chairs. A Bylaws change last year involved putting students on the various committees, and he urged people to let him know if they have students who are interested in these positions.

The EC had to determine how to work with Blackwell Science Publishers as a business partner, and this has been a learning process for both of us. He expressed thanks to Ms. Liz St. Germain for working with the EC and to Ms. Anne-Marie Sheehy who has been involved in marketing efforts.

Lastly he expressed gratitude to colleagues and support staff for their help, especially Drs. Steve Murray and Paul Kugrens. He also acknowledged the teamwork and efforts of the EC.

IV. Elections Results

Dr. Yarish presented the election results from the ballot assembled by the Election Committee (chaired by Dr. Michael Gretz): Dr. David Millie was elected Vice President/President-Elect; Dr. Patricia Wheeler was confirmed as *Journal Editor*; Mr. Are Pedersen was chosen as the Stu-



Presidential Group Photo at PSA 2001

From left to right - Russ Chapman, Dennis Hanisak, Charlie Yarish (President 2001), Paul Kugrens, Annette Coleman, Steve Murray, Mike Wynne, Michelle Wood (President 2002) and Dave Millie (President 2003)

dent Representative on the EC; and Drs. Chris Lobban, Klaus Luning, Jeanine Olsen and Michael Sullivan were elected to the Editorial Board.

V. Program Director's Report (Dr. Lawrence Fritz)

At this meeting there are 165 registrants and 20 accompanying persons. The program includes one special lecture, three plenary lectures, and five symposia (one of which is student sponsored). There also was a mini-symposium on education, and the EC wants more of these in the future. He thanked Dr. Paul Kugrens and Larry Boihem for all their help. He noted that for the first time we are seeing a major shift from oral presentations and posters toward using computer technology. This is complicated and there are compatibility issues as well as a cost (\$2K to incorporate them into the program). He suggested that we revisit such questions as whether we want to continue this trend of using computer technology, do we want field-trip days in the middle of the meeting, *etc.*

The Program Committee has met to discuss upcoming meeting venues:

2002: University of Wisconsin, Madison. The PSA will meet with the Botanical Society of America. Dr. Linda Graham will be the onsite representative. The EC has contributed \$3K for the education workshop and \$6K for symposia. He re-issued a call for symposium suggestions. The PSA will also have a presence at the 10th International Conference on Harmful Algae in October at St. Petersburg, FL.

2003: (Tentatively) Otter Crest (near Newport), OR, where Dr. Gayle Hansen will be the local representative. He solicited proposals for symposia.

2004: (Tentatively) The College of William & Mary in Williamsburg, VA, where Drs. Sharon Broadwater and Joe Scott will be the local representatives.

2005: Considering meeting with the International Phycological Congress in South Africa. A letter of inquiry to the International Phycological Society officers will be written in order to request our meeting with them.

Dr. Yarish mentioned that the EC is very interested in looking at forward planning (minimally a three-year advance plan) in order to attract symposia and funding for future meetings. Dr. Fritz added that the time lag for NSF funding for workshops is well under one year; usually six months or less is within their time frame. He asked potential organizers to keep in mind that incorporating educational and international components would improve their chances for NSF support.

VI. Student Representative's Report (Ms. Hillary Hayden)

She expressed pleasure in seeing so many students here, and she encouraged all students to introduce themselves to her. She gave her thanks to Dr. Paul Kugrens' efforts in encouraging a student seat on the EC. This initiative indicates a sincere interest of the EC and Board of Trustees (BOT) to have student representation. Her appointment ends this December and Are Pedersen will take over for her. She has been involved in being a direct conduit from

student members to the EC. She will act as coordinator of the student members on standing committees and will serve as a conduit for them. She recognized the student members of the standing committees: Dana Uzwiak, Matt Edwards, Matthew Wargo, Sarah Henkel and Carol Thornber. There are vacancies, so she solicited interested students to contact her or Dr. Yarish. She expressed gratitude to Todd Harper and Alison Sherwood who organized the student-sponsored symposium. She announced the student social tonight at Lonigan's Pub at 10:00 p.m. Dr. Yarish stated that the future of the Society is in the hands of the students, so we want to do as much as we can for them. He expressed gratitude to Ms. Hayden for serving as the first student representative on the EC.

VII. Endowment Manager's Report (Dr. Robert Waaland)

He distributed his report. He explained that the numbers in the leftmost column of funds represent what we had on hand at the end of 2000. If he were to bring them up-to-date, the totals would be less since some of the 2000-year funds were not disbursed until early in 2001. Because the annual meeting is early this year, another \$11,750 will go to support symposia, travel awards, *etc.* There are other items in process that will also reduce the total, such as awards, prizes, *etc.* The center columns are the amounts of expenditures during 2000 for the various funds, and the rightmost column is the budget anticipated for 2002. The numbers in the leftmost column remain little changed, but the Bold Award will increase to \$750. There will be \$7K for Grants-in-Aid of research from the Commemorative Fund. There will be up to four Croasdale Awards at up to \$1K each (which is up from \$850). He expects that \$8K will be available for the Hoshaw Travel Awards (which is up from \$5K). There will be funds transferred from the Treasury Reserve to the *Journal of Phycology* Fund to support putting old issues on CD-ROM, which will take a few years. From the Lecture Fund, there is a total of \$9K with \$6K earmarked for symposia and \$3K for the education workshop. There will be \$500 for the Prescott Award, and \$1K for the Provasoli Award. The amount over \$50K in the Publication Fund will support Headquarters functions, management fees associated with the Fund, *etc.* One of the most significant changes is that the way this account is handled will be reorganized. There are three categories presently: the Endowments (for awards, *etc.*, which are required to be invested in income-producing instruments), the Life Membership Fund (which is intended to provide the *Journal* to life members for their whole lives. This is currently underfunded, so they will move \$100K from the Treasury Reserve to the Life Membership Fund to bring it up to \$162K), and the Treasury Reserve (which are funds accumulated from excess ones collected at meetings, excess funds when dues increase, *etc.*, and the accumulated amount is listed. This will be reduced to about \$114K from the \$250K that is presently there). Accordingly, the Endowment Funds are in fixed income instruments, and most of the Life Membership Fund is in such instruments. The Treasury Reserve disbursements are made at irregular intervals based on EC

decisions, such as the final \$8,667 HighWire Press payment. Dr. Yarish thanked him for all his efforts and time in managing the accounts in order to maximize interest income for the PSA.

VIII. Board of Trustees Report (Dr. Dennis Hanisak)

He thanked the members of the BOT who were present: Drs. Sharon Broadwater, Russell Chapman, Robert Waaland, Michelle Wood and Charles Yarish. Dr. Robert Sheath is the newest member. He and Dr. Sylvia Earle could not be present. The BOT works on the long-term issues of the Society and its Endowments. They meet the day before the EC convenes. This year they had a productive meeting. He acknowledged the work that his daughter Stephie and Ann Brawley-Davison did in the Headquarters Room. The proceeds from this year's auction were \$3,008. He thanked Dr. Paul Kugrens for all his help, for his heroic efforts in these meetings in general, and for his fine auctioneering. He also expressed gratitude to the people who purchased items. Dr. Hanisak thanked Drs. Waaland and Broadwater for receiving money at the auction. He outlined the recommendations made to, and approved by, the EC:

- 1) In 2002 the Lecture Fund should provide \$3K to support a 'Teaching with Algae' Workshop at the annual meeting. The Education Committee will be charged with this. He solicited input to be directed to this Committee. The BOT would like to see this as an ongoing meeting event. Dr. Yarish added that the desire is that researchers will be involved in the workshop. Dr. Hanisak noted that Dr. Chapman will assume the BOT position on this Committee.
- 2) The National Lecturers Program should resume on 1/1/02. The BOT will be involved, with Dr. Chapman spearheading it. There will be pamphlets announcing the program. He solicited the membership to consider it and to send suggestions to Dr. Chapman. It will not be limited to the USA, so we may have to change the name of the Program.
- 3) He believes that Dr. Sheath will energize the Publication Committee as its new Chair. They propose re-doing the *Culture Methods* book (Vol. 1 of the *Handbook of Phycological Methods* series). He expects to have a proposal to the EC by Nov. 1.
- 4) The Publication Committee should proceed with creating a CD-ROM of the PSA slide collection. The Education Committee will submit a proposal to the BOT by Nov. 1. They will solicit new content. He asked members to send slides to Dr. Harold Hoops since he curates the collection.
- 5) The Publication Committee recommended several other publications on a) biodiversity/biogeography, b) the biology of brown algae, and c) advanced molecular and cellular methods. In energizing this Committee, they are seeking potential authors and editors.
- 6) The *Journal of Phycology* CD-ROM project was submitted to, and approved by, the EC. The idea came from Dr. Brawley. They recommended establishing an *ad hoc* committee and the new editor will do so. It will provide all

the old issues on CD-ROM by 2004 or it will be web-based. This is up to the *ad hoc* committee, and the BOT will obtain the funds for the project. Dr. Annette Coleman suggested it would be preferable to put the back issues of the *Journal* online instead of on disk.

Dr. Hanisak reported on the BOT Workshop last year; there was an overview in the *Newsletter*. A draft report is available for the participants. There will be a full communication after the final revisions. This will be posted on the website, and the executive summary will appear in the *Newsletter*. The BOT strongly endorses the national initiatives on Phycology made last year. Two of the initiatives (genomics and aquaculture/sustainability) were already addressed. Dr. Wood is tasked to move this effort forward. Dr. Yarish recommended that the PSA make sure that its voice is heard among the other biological societies. Dr. Wood added that we must take the energy of the PSA and its members, and identify people and ideas for incorporation into the national agenda. She expressed gratitude to those who attended, and she solicited input from the membership. Dr. Yarish added that such initiatives should be moved forward in the USA and elsewhere.

Dr. Hanisak continued that most of the membership dues goes to support the *Journal*, the meetings and a few other items. The Endowments are supporting a wide range of activities, totaling \$41K next year. More than 50% is for direct student support, which reflects the culmination of the work begun by certain members (including Drs. Clinton Dawes and Michael Wynne, who were in attendance) that began more than 20 years ago.

IX. Journal of Phycology Editor's Report (Dr. Susan Brawley)

She distributed her report. Table I shows that the turnaround time for manuscripts was 1.8 months in 2000. She does have the ability to do rapid reports, so she invited potential authors to contact her or Dr. Wheeler (after Aug. 31). Table II shows that the place of origin of manuscripts has not changed much, but the *Journal* is becoming more international. Table III shows the effects of mini-reviews and reviews on the Science Citation Index Impact Factor (IF). The 2000 IF is down a little, but this is not unique to us. This is based on citations of papers in 1998 & 1999. The supplement that came out of a symposium in the Flagstaff meetings did not have the effect of increasing the IF, since it comprised research papers instead of reviews. She interpreted this as meaning that whenever we link the annual meetings with the *Journal*, it is probably better to aim for a review-type supplement. She emphasized that the supplement was excellent, however. She had a morphing of the "Great Papers in Phycology" series into a set of mini-reviews that will appear in the December issue. Because the IF is not increasing, she has commissioned two white papers: one from the Associate Editors and Editorial Board, and another from members of the U.S. National Academy of Sciences who work with algae. She is seeking ways for substantial improvement of the *Journal*. She will be sending this to the EC. Table IV shows the budgets. The cost was \$131 per volume, yet the membership dues were \$75. The

cost per page is \$201. Blackwell presented the EC a list of libraries that are in the rears in paying for the *Journal*, due to a subscription agency (EBSCO). The list was circulated around the room. They are delinquent in a portion of the library price for this year (libraries paid most or all; we do not know), but EBSCO has not paid Blackwell. Therefore, they have not sent the *Journal* to these libraries. She has put members' names on this list so they can go to their respective libraries to have librarians ask EBSCO why the funds have not gone to Blackwell. She asked everyone to keep an eye on his/her home library subscriptions. Dr. Yarish noted that EBSCO is one of the largest subscription agents in the USA and Europe. They are holding back funds from our business partner. Dr. Brawley said that the archival electronic version of the *Journal* is up at HighWire Press since they put it up faster and more accurately than Synergy does. But based on the usage characteristics, it seems like a Venn diagram with little overlap of users. So having the *Journal* in both places ought to be beneficial to us. She encouraged all members to use them. Anyone can get a Table of Contents alert, which is put up about 2 months ahead of the print version. There are about 1,500 hits/month at Synergy and 3,000 hits/month at HighWire.

She asked authors to check page proofs carefully even if they submitted a manuscript digitally, because errors creep in. Ms. Laura Pisconski has read them word-for-word, but authors need to be more responsible. This is a job that takes a lot of their time.

At the bottom of the report are listed a number of reasons why editing the *Journal* has been a rewarding experience. She thanked the Associate Editors, the Editorial Board and the community of reviewers and authors. She noted that the Editor-Elect (Dr. Wheeler) is currently an Associate Editor. Dr. Yarish stated that he would like to express appreciation on behalf of the entire PSA for all the effort she has done for the Society as Editor. The membership responded with a standing ovation.

X. Membership Director's Report (Dr. Richard McCourt)
He noted that over the past decade there has been a slow but steady attrition from 900 to 800 members; the number of subscribers (396) was slightly down also. The PSA is not doing as well as it did in the 1990's, and this may have to do with subscription agents, among other things. As for the geographic representation, about half the membership is from the USA, many members are from Japan, a sizeable fraction is from Canada, Mexico and Great Britain, but there are only a few from some western European countries. So we are an international society. There will be a printed directory that will be sent out later this year, due to delays with our new business partner, *etc.* There is a print version in the Headquarters, so he asked people to check their data and he will send on any corrections to Blackwell. It is now possible to track many things electronically, so he recommended that people have their students check things online so all this counts as usage statistics. He also asked members to encourage their students to become members. Membership renewals will arrive sometime in October. There

will be another fire sale of the *Journal* at that time.

XI. Treasurer's Report (Dr. Sharon Broadwater)
She distributed her report. The overall financial state of the PSA is in good shape. The combined size of the Endowments and operational funds (the Treasury) is a little over \$1 million. On the back of the page is the budget for 2000. One can see a loss of \$25,502.37. First of all, this has to do with it being a transition year from Allen Press to Blackwell, which is an entirely new system. One problem was that we were not receiving good reports of subscriber numbers (which is where much revenue comes from), or quarterly reports about income and disbursement, so it was difficult to tell what was happening. She relied on their original budget, and it projected that we would receive \$13K more in profit share than we actually did receive. Secondly, the disbursement for HighWire is a major one, but we all believe that this is important so we need to adjust our budget accordingly. Several factors contributed to the deficit: the profit share was not what we were promised in good faith, the annual meetings in San Diego ran a deficit of ~\$12K and this was not easily anticipated, there were unanticipated HighWire expenses, and the Society expended a lot of money to improve the meetings via symposia (\$11.2K). This will not continue, and we are obtaining a better relationship with Blackwell, as they have responded well to our concerns. The future looks good; there might be a small deficit in 2001, but the EC has decided to try for a zero budget.

In 2002 we have an increased income due to dues/subscriber costs. The EC has decided to recommend changes to the subscription rates. We would no longer offer anyone (including members) the print-only option in 2002, to make things easier. Instead we would offer the combination print + online where everyone gets both versions at the same price as was originally charged for print-only. Some of the international members are under a strain because of the increase in postage, so the EC decided to keep the online-only option for foreign members. No matter where they are, members get online-only for the same cost. She encouraged all to use the online version. There is no increase in cost to members, but we do have increased costs to institutional subscribers, because of the increase in postage rates, paper costs, *etc.* This represents an 8% increase from the current print-only rate. Dr. Kugrens argued that we should not decrease the rates, and the increase to institutions may result in some dropping the *Journal*. Dr. Broadwater responded that first, this does not represent a reduced rate for members, since there were very few who chose online-only or print + online. In essence, we only lose about \$1,500, so it does not represent a big difference. Dr. Murray added that institutions are indeed paying more of the share than members are. The EC did raise dues last year, after a long hiatus in such raises. The cost of the *Journal* increased substantially (due to color plates, electronic presence, *etc.*). Since we depend on members maintaining subscriptions, we have not raised members' rates at the rate of institu-

tional increases. All projections for institutions' subscriptions indicate that the average journal will raise its cost between 9.5-10%, so we are actually under the expected increase. Libraries are aware of the increases across-the-board. So it is true that institutions' costs have risen, but this is not out of line with the actual cost of the *Journal*. Dr. Thierry Chopin agreed that there is an annual increase of 10% every year, so the PSA is still in the right bracket. Dr. Waaland added that there are other Blackwell journals advertised and their price structure is identical to ours. Dr. Yarish reiterated that our business partner needs to make money, and this in part is the recommendation from Blackwell. We do not want to write off vendor money as was done last year, because this is substantial. Dr. McCourt commented that with the proposed price structure there are fewer categories than last year, and vendors are used to this. Dr. Murray said that the strategy is to provide as much electronic access as possible, of the best quality, and do what we can to handle it financially. This new structure gives every member electronic capability. Dr. Kugrens felt that the levels were still too low; he wanted to raise each category for member rates.

A motion was made by Dr. Kugrens (seconded by Dr. Fritz) to set the base combination (print + online) rate to \$95 for full members (+\$5 postage for the USA, +\$10 postage for Canada/Mexico and +\$30 postage for overseas members). For student members, the base rate would be \$45. Dr. Wood called the question. The motion was not adopted by a vote of 12 in favor, 22 opposed.

A motion was made by Dr. Wood (seconded by Dr. Chapman) to accept the rate change proposed by the Executive Committee [which was to offer print + online at the current rate for print-only: \$90 for full members (+\$5 postage for the USA, +\$10 postage for Canada/Mexico and +\$30 postage for overseas members) and \$40 for student members. Online-only will remain at \$90 for full members and \$40 for student members. Print-only will no longer be available.]. The motion was adopted by a vote of 29 in favor, 5 opposed.

Dr. McCourt explained that Blackwell would look into the subscribership lapses. Dr. Yarish noted that this is the first time that we have had this information, so we will have the ability to check this in the future. We want all libraries to have the *Journal*. Dr. Wood added that \$500 is a key cutoff price for many libraries, but this may change with increasing costs. Institutions will pay 8% more but all will receive the online product as well. We need them to track their online usage as well as print usage to know how heavily the *Journal* is accessed. We want all members to have access to the online version. Dr. Broadwater noted that institutions would currently have to pay \$451 for print + online in the USA, so their costs will actually be lowered next year to \$442. Dr. Chopin wondered how we could get this information to the libraries, since they need to know via marketing that they are actually getting more for their money. Dr. McCourt said that he would look into this and do the contacting.

XII. Communication Director's Report (Dr. Morgan Vis)

She explained that her task is to ensure the quality of the PSA website, the *Newsletter* and the Listserv. She works with the Communications Committee. The *Newsletter* will be put out two times per year. Members will receive the next issue in September. She solicited information on colleagues for both the *Newsletter* and the Website.

XIII. Other Business

Dr. Yarish stated that he will announce the PSA Award of Excellence winners at the upcoming banquet and they will be published in the *Newsletter*.

Dr. Yarish thanked the speakers in the first-ever graduate student sponsored symposium (Drs. Michael Wynne, Max Hommersand and Clinton Dawes) and the plenary speakers (Drs. David Patterson, Ralph Quatrano, Mark Hay and James McVey).

A motion was made by Dr. Russell Chapman (seconded by Dr. Peter Rizzo) to adjourn the meeting. The motion was adopted unanimously.

The meeting was adjourned at 8:15 p.m.

John W. La Claire II
Secretary (2000-2002)

THE 40th NORTHEAST ALGAL SYMPOSIUM

The annual meeting of the Northeast Algal Society (NEAS) was held on April 20-22, 2001 at The Sheraton Inn in Plymouth, Massachusetts. There were over one hundred participants at the symposium, about half of them were students. Members of the PSA Executive Committee were in attendance.

The scientific program included contributed oral presentations as well as posters on a wide range of phycological topics. Students competed for the Robert T. Wilce Awards given annually for the best graduate student presentations. In the oral category, Penny Humby of the Dept. of Biology, Univer-



Dr. Paul Kugrens taking time out at the NEAS meeting to collect a few plankton samples in a Rhode Island pond.



Drs. Susan Brawley and Pat Wheeler at this year's PSA meeting. Dr. Brawley has handed over the reins of the *Journal of Phycology* to Dr. Wheeler September 1st. For more information on this transition please see the August issue of the *Journal*.

sity of New Brunswick received the award for her talk entitled "Characterizing photoacclimation-dependent LHC gene expression using an arylsulfatase reporter gene" by Holly Saunders, Penny Humby & Dion Durnford. In the poster category the award went to Xingye Yang of SUNY ESF, Syracuse, NY for "The identification of anatoxin-A from a toxic blue-green algae bloom in Lake Champlain" by Xingye Yang, Michael Satchwell & Gregory Boyer. The President's Award, given for undergraduate presentations went to Julie Price of the Dept. of Biology, University of New Brunswick for her oral presentation entitled "Excess-light stress induced changes in gene expression in *Chlamydomonas reinhardtii*" by Julie Price and Dion Durnford. The Honorable Mention award for an undergraduate student presentation went to Jennifer Sallee of Roger Williams University for her presentation "Genetic analysis of marine cyanophage isolates from Mt. Hope Bay, Rhode Island" by Jennifer Sallee & Marcia Marston. Congratulations to the student award winners. A very special award given during the symposium was the Frank Shipley Collins Award for meritorious service to NEAS and to Phycology, given very appropriately to Robert Wilce.

Saturday's scientific sessions were concluded with the Distinguished Lecture by Dr. Ian Davison of The University of Maine and Director of Maine Sea Grant. The title of this very interesting talk was "Travels with PAM: Insights into the strange world of seaweed physiology".

There was also a special session on Algae and Technology as part of the meeting, as well as a collecting trip. Congratulations to the Co-conveners Karen Culver-Rymsza and Carl Grobe for organizing a very successful program. Proceeds from the post-banquet auction (run expertly by Glen Thursby) go to the student fund to help students to attend the annual meetings.

Co-conveners for the next meeting (*i.e.* The 41st Northeast Algal Symposium) to be held in April 2002 at the University of New Hampshire are Anita Klein of The University of New Hampshire and Jack Holt of Susquehanna University. Those interested in joining NEAS or receiving information about the next symposium are urged to contact the Membership Director Glen Thursby at thursby.glen@epa.gov

Peter M. Bradley
Secretary, NEAS

NEWS OF COLLEAGUES

Graduations -

Robert Verb graduated from Ohio University with his PhD and is currently an Assistant Professor in the Department of Biology, Ohio Northern University.

Hillary Hayden graduated from the University of Washington with her PhD and is currently serving as interim collections manager for the UW herbarium while evaluating some interesting opportunities.

On the Move -

John Stiller has taken an Assistant Professor position in the Department of Biology at East Carolina University.

Robert Sheath has taken the position of Provost & VP of Academic Affairs at California State University San Marcos.



Morgan Vis and Alison Sherwood on a field trip in Hawaii, where most of this newsletter was constructed. Tropical streams with the threat of *Leptospirosis* by day; newsletter by night. I just hope I can edit the next newsletter in such an enviable locale.

Deadline for submission of information for the next PSA NEWSLETTER:

January 15th

Please contact Morgan Vis
(psa@psaalgae.org)

This Newsletter may be viewed in
PDF format at
WWW.PSAALGAE.ORG

PSA Student Grant Recipients in 2001

Hoshaw Travel Awards (for travel to the PSA annual meeting - amount varies):

Melissa Alm, Brian Bartkowiak, Dale Casamatta, Mark Clegg, Sarah Dakel, Hillary Hayden, Megan Jaskowiak, Klara Kubekova, Jeff Levandowski, Moria Nagy, Fred Ottman, Rui Pereira, Carolina Pizarro, Lourdes Salgado-Rogel, Gunilla Toth, Dana Uzwiak, Robert Verb, Stacy Zimmermann

Grants-in-Aid-of-Research (\$750):

Pascal H.Badiou - Effects of the common carp (*Cyprinus carpio*) on the water quality, sediment chemistry, submerged macrophytes and benthic community in six experimental cells in Delta Marsh, Manitoba

Barbara A.Bauer - Effect of herbivorous fish and sea urchins upon the recruitment and growth of macrophytic algae and coral

Janna Fierst - Distribution of *Mastocarpus papillatus* on Multiple Spatial Scales

Xia Li - Does Fe availability constrain phytoplankton growth in Lake Erie?

Martha Nelson - Characterization of Chloroplast Genes in Dinoflagellates

Kathryn Privett - Biodiversity of cyptomonad algal flagellatees in Wisconsin lakes

Brian Wysor - Intraspecific phylogeny of *Phyllocladon anastomosans* (Chlorophyta: Cladophorales) and the biogeography of amphi-isthmian populations from the Republic of Panama

Croasdale Awards (for field course attendance - up to \$850)

Laura Truesdale Carney, Janna Fierst, Christopher Krenz, Anne Guerry, Kathryn J. Wilkinson

These awards are made possible by the generous gifts to the PSA endowment and by funds raised in the headquarters room and auction at the annual meeting. Please consider giving to the endowment when you renew your membership for 2002.

If you are a PSA student member & would like to learn more about these awards for 2002, please visit the website at www.psaalgae.org/student/stugrants.html



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