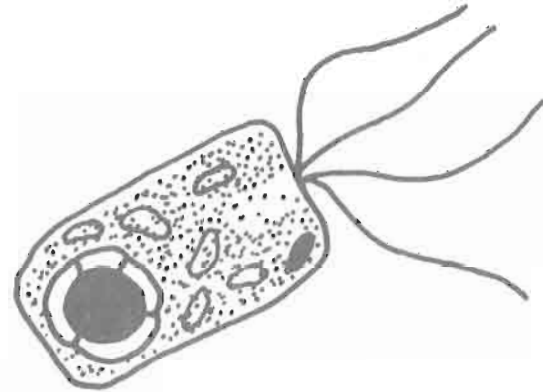


# PHYCOLOGICAL NEWSLETTER



Volume 13, Number 3

Editor: Carole A. Lembi, Department of Botany and Plant Pathology,  
Purdue University, W. Lafayette, Indiana U.S.A. 47907

## ONE WORD DESCRIBES SANTA BARBARA MEETINGS — FANTASTIC!

From all reports, the 1977 Santa Barbara meeting ranks as the most successful, enjoyable, and educationally stimulating conclave of phycologists ever held in the United States. The following first-hand description was submitted by Norma Lang (no doubt to tweak the envy of those of us who did not attend!): "The week-long joint meeting of the IXth International Seaweed Symposium, the International Phycological Society, and the Phycological Society of America in August in Santa Barbara, California was by far the largest gathering of phycologists ever assembled. Some 750 individuals from 44 countries reported and discussed research on marine and freshwater algae ranging from the most basic to the most applied aspects. Local press releases somewhat naively cited this meeting as 'the beginning of new lay and scientific awareness of the significance of these plants world-wide.' There were well over 500 individual presentations during the day 7 to 9 concurrent sessions, and several rooms were devoted to poster sessions where research results could be displayed and discussed.

The largest foreign delegation from a single country was that from Japan, long considered to be the most advanced country in utilization of seaweed resources. The simultaneous translation services in Japanese proved very helpful, and Michael Neushul who carried the major responsibility for all meeting arrangements was warmly praised for achieving the federal money which made the service possible. Lest those who were unable to attend believe that all the participants did was restricted to the scientific sessions, let it be reported that each evening contained social activities in the form of a reception, banquet, or beach party. Further, the boat tour to watch a kelp cutter in action, the bus visits to the Lompoc diatomaceous earth deposits and the Stauffer Chemical Company processing plant in the middle of the week provided some needed relief. For all, the evening highlight would have to be the annual banquet of the Phycological Society of America and the Distinguished Lecture in Phycology given by Professor W. D. P. Stewart of Dundee, Scotland. The margarita cocktail hour hosted by the P.S.A. before the excellent Mexican theme banquet set an appropriately relaxed atmosphere for Stewart's very entertaining and stimulating presentation which followed.

Special lectures on seaweeds as possible methane sources, as pharmaceutical prospects, and as potential human nutrients gathered large and attentive audiences. One of the interesting new industrial developments was discussed by Arnold Bryce of the General Electric Corporation. A pilot project to grow one-quarter acre plots of kelp 4 miles offshore in southern California is to start next spring. The aim is harvesting of organic matter to be converted into methane gas. Bryce projected that the kelp would grow at a rate of 2 feet a day and would be mowed like grass with a new crop ready for mowing in a matter of days. The cultivated seaweed would be a renewable resource which is environmentally clean, and its exploitation is technically feasible. General Electric is to manage the experimental program for the American Gas Association.

Another area of current research on new and unusual uses of marine algae was discussed by William Fenical of Scripps Institute. He reported that in the past 10 years marine chemists have found entirely new chemicals in some red algae. Several show promise as drugs for treatment of viral infections and other diseases that have not responded to drugs from land plants and animals. Once the molecular structure and effect of these 'sea pharmaceuticals' is discovered, then manufacturers could possibly reproduce these synthetically."

The Harold C. Bold Award for the outstanding presentation by a graduate student was given to Michael W. Hawkes of the University of British Columbia, Vancouver for his paper entitled "A Field, Culture, and Cytological Study of *Porphyrellagardneri* Smith & Holmberg (Bangiales)." The significance of this paper was cited by both G. F. Papenfuss and E. Conway in discussion, and the presentation achieved a score only 1/2 point below the maximum possible from the three independent evaluators. Mr. Hawkes plans to complete his Ph.D. in the spring of 1978 and to continue his career in university research and teaching. His major professor is R. F. Scagel. Congratulations to an outstanding young scientist!

## THE SOCIETY NEEDS A LOGO!

As pointed out in the enclosed minutes of the P.S.A. business meeting at Santa Barbara, now that the Society has achieved tax-exempt, non-profit status, a logo for an official seal is in order. So, put your creative minds to work and send your designs to the Secretary, Elenor Cox, Department of Biology, Texas A&M University, College Station, Texas 77843 as soon as possible.

## EDITORSHIP OF NEWSLETTER CHANGES

All good things eventually come to an end, and such is the case for me after 4 years as the editor of the Phycological Newsletter. Beginning with the next issue (January-February, 1978), the new editors will be Lynda J. Goff and Judith E. Hansen, Center for Coastal Marine Studies, University of California, Santa Cruz, California 95060. We all look forward to a new and exciting format for the Newsletter as the Executive Committee has chosen 2 extremely energetic and capable young people for this job.

I personally wish to thank each and every person who has contributed items to the Newsletter in the past 4 years. Without your efforts, my task would have been an impossible one to complete. I am certain you will continue to support the Newsletter, and the best way you can start off the New Year will be to send the enclosed form with your newsworthy items to Lynda and Judy by December 30, 1977.

Thank you again, and best phycological wishes to you all — Carole A. Lembi

## POSITIONS AVAILABLE

An Assistant Professor in Marine Botany is being sought at the Duke University Marine Laboratory. Research utilizing marine facilities is anticipated with specific research area (physiology, ecology, systematics, etc.) and plants to be studied (phytoplankton, seaweeds, fungi, bacteria, vascular plants) open. A strong research program and a contribution to the teaching and graduate training programs is expected. Starting either January or September 1978. Send curriculum vitae, graduate and undergraduate transcripts and 3 letters of recommendation to Dr. R. B. Searles, Chairman, Search Committee, Department of Botany, Duke University, Durham, NC 27706.

The University of Montreal is seeking a research phycologist to teach various courses at the undergraduate and graduate level. Research experience should be in freshwater phycology with emphasis on taxonomy, ecology, or primary production. Candidates with a Ph.D. (or D.Sc.) are preferred, but candidates without these diplomas will be considered. The position is available immediately, and salary will be based on qualifications and experience. Fluency in French is required. Send curriculum vitae and 2 letters of recommendation to Dr. E. Magnin, Department of Biological Sciences, University of Montreal, C.P. 6128, Montreal, Canada H3C 3J7.

## UPCOMING MEETINGS

The Second Congresso Latinoamericano de Botanica will be held in Brasilia, Brazil on January 21-27, 1978. During the meeting, there will be a 2 day symposium on marine benthic algae with the participation of the leading phycologists in Latin America. Two round table discussions will be presented during the morning sessions on "The Study of Benthic Algae in Latin America" and "The Exploitation of Seaweeds in Latin America—Actual Situation and Perspectives for the Future." Research contributions will be presented during the afternoon sessions. People wishing to present papers should send an abstract (250 word maximum) as soon as possible. A post-symposium collecting excursion is being planned to the S. Paulo and Rio de Janeiro littoral. For information, contact Eurico C. de Oliveira Filho, University of Sao Paulo, Department of Botany, C. Postal 11461, 01000 Sao Paulo-SP, Brazil or Marilza Cordeiro Marino, Institute of Botany, C. Postal 4005, 01000 Sao Paulo-SP, Brazil.

## IM MEMORIAM — BOHUSLAV FOTT 1908-1976

Earlier this year we received notice of the death on October 7, 1976 of the renowned Czechoslovakian phycologist, Bohuslav Fott. As the successor to a rich tradition of phycology in Czechoslovakia established by Pascher, Fott was most famed for his text *Algenkunde* and for his research on the Chrysophyceae and Chlorophyceae, particularly the orders Tetrasporales and Chlorococcales. Prof. Fott was born on September 12, 1908, studied at the Charles University in Prague, and published his first work in 1929 on the "Vernal Algae in the Fishponds of Lnae." In 1949 he joined the staff of the Charles Univ. and in 1954 became head of the Institute of Botany there. His publication list contains over 190 citations (for a copy of the list, write C. Lembi), and he is credited with describing more than 100 new taxa of algae and fungi including 16 species of Chrysophyceae, 42 Chlorophyceae, and 9 Dinophyceae. In 1966, upon the death of Huber-Pestalozzi, Prof. Fott took over the publication of *Das Phytoplankton des Süsswassers* in the series *Die Binnengewässer* and contributed the monographs on the Chloromonadophyceae in 1968 and the Tetrasporales in 1972. At the time of his death he was working on another monograph on the Chlorococcales which will now be completed by one of his students, J. Komarek. Prof. Fott was one of the first researchers to use electron microscopy as a tool in taxonomy (e.g. his 1957 publication entitled "Die submikroskopische Struktur der Kieselschuppen bei *Synura* und ihre Bedeutung für die Taxonomie der Gattung," *Preslia* 29:5 and the 1962 publication "Taxonomy of *Mallomonas* based on Electron Micrographs of Scales," *Preslia* 34:69), and he also had a keen interest in limnology as several of his students worked at the Biological Station in Blatna. In 1962 Fott was named president of the International Phycological Society. He traveled to this country several times, once as a visiting professor at the Marine Biological Station in Woods Hole. Many of us younger phycologists had the opportunity to meet Prof. Fott at the Botanical Congress in Seattle in 1969. He also attended the Congress in Leningrad. Prof. Fott was active in phycological research right up to the time of his death. His papers in press include works on *Actinastrum*, *Coelastropsis* (both in the Scenedesmacaceae) and a report of red snow in the Giant Mts. The Society extends its sympathy to the family and colleagues of Prof. Fott. His research contributions will long be remembered.

(The editor wishes to thank O. Lhotsky, J. Komarek, and V. Sladeczek for providing the information and publication list cited above.)

The Society is also deeply grieved to hear of the passing of Mary Pocock on July 10, 1977. An obituary will be published in a future issue of the newsletter.

## PUBLICATIONS RECEIVED

*The Algae of the Western Great Basin*, by Dr. Ira La Rivers, will be published this winter as a special publication of the Bioresources Center within the Desert Research Institute. The 350 page, paperbound monograph is taxonomic in approach, with plates and keys to the species of algae as well as introductory section on the aquatic ecology and history of botanical investigations in the Western Great Basin, particularly Nevada. Publication price is \$15.00 from the Bioresources Center, Desert Research Institute, University of Nevada, Reno, Nevada 89506. Dr. La Rivers retired in September following 30 years of teaching and research in aquatic biology at the University of Nevada-Reno. He has been director and editor of the *Biological Society of Nevada*. (Info submitted by Joe Mahoney.)

The first issue of *Conjugata*, a newsletter devoted to the desmids and other Zygnematalean algae appeared in April. To be placed on the mailing list, write to Prof. Dieter Mollenhauer, Forschungsinstitut Senckenberg, Aussenstelle Lochmühle, D-6465 Biebergemund 3, W. Germany.

A list of the Culture Collection of Algae at the Institute for Systematic Botany and Geobotany of the University of Innsbruck is now available from Dr. Georg Gartner, Curator. The address of the University is Sternwartestrasse 15, A-6020, Innsbruck, Austria. Dr. Gartner would also appreciate an exchange of publications on culture methods.

Section 2 of Part II. Desmidiaceae: Placodermatae of *A Synopsis of North American Desmids* by G. W. Prescott, H. T. Croasdale, and W. C. Vinyard is now available. This volume considers the genera *Euastrum* Ehrenberg 1832 and *Micrasterias* Agardh 1827. The price is \$22.50 and is available from the University of Nebraska Press, 901 North 17th St., Lincoln, Nebraska 68588.

P. Kornmann and P.-H. Sahling are the authors of *Meeresalgen von Helgoland*, published by Biologische Anstalt Helgoland, Zentrale, Pamaille 9, D-2000 Hamburg 50, W. Germany. The 189 page volume contains descriptions (in German) and excellent photomicrographs of the benthic green, brown, and red algae of the area. The price is \$14.50.

Volume I, Issue 1 of *Die Desmidiaceen Mitteleuropas* by J. Ruzicka is available from E. Schweizer bar'sche Verlagsbuchhandlung, Johannesstrasse 3A, D-7000 Stuttgart 1, W. Germany. Three volumes with several issues each are planned; Volume I will be published in 2 issues with the second issue appearing by the end of 1979. The cost of the first issue is \$62.10.

September 15th was the publication date for *The Seaweed Handbook: An Illustrated Guide to Seaweeds from North Carolina to the Arctic* by Thomas F. Lee of St. Anselm's College in Manchester, New Hampshire. Over 75 species are described and pictured with line drawings and the introductory chapter covers the biology, ecology, collection techniques, and economic uses of the seaweeds. Intended for novices as well as students of marine algae, the 217 page volume is available from the Mariners Press, P.O. Box 540, Boston, Massachusetts 02117 for \$16.50.

#### SHORT ANNOUNCEMENTS

Dr. Christopher Lobban would like to know if anyone is writing or planning to write a book on the biology of the brown algae, along the lines of Carr and Whitton's volume on blue-greens or Werner's work on the diatoms. If such a book is not underway he would be willing to coordinate one. If there is interest in this among brown algal cytologists, ecologists, physiologists, taxonomists, etc., please write to Dr. Lobban at the Division of Science, University of New Brunswick, P.O. Box 5050, Saint John, New Brunswick, Canada E2L 4L5.

A 1/2 time research assistantship to study the physiological ecology of *Pithophora* in Indiana lakes will be available beginning January 1978. The stipend is \$4200/yr. Applicants with M.S. degree and background in aquatic ecology and plant physiology preferred. For information, contact Dr. Carole A. Lembi, Department of Botany and Plant Pathology, Purdue University, W. Lafayette, Indiana 47907.

#### NEWS OF COLLEAGUES • PEOPLE ON THE MOVE

Sheldon Aaronson of the Biology Dept., Queens College, CUNY, Flushing, New York participated in the UNESCO/UNEP/ICRO Regional Training Course on "Basic Research Techniques in Industrial and Environmental Microbiology" at the University of Nairobi, Kenya on August 22-Sept. 10, 1977. Dr. Aaronson also reports that Drs. Tamar Berner, Dept. Environmental Engineering, Technio-Isiad Institute of Technology, and Zvy Dubinsky, Biology Dept., Bar-Ilan University, will be spending a year in his laboratory. They are seeking cultures of algae that accumulate lipids in their cells.

On September 1, Annette Coleman returned to Brown University after year's stay at the Karolinska Institute in Stockholm.

Diane M. Dudzinski, Manhattan College, Bronx, New York attended the Seminar in Tropical Marine Biology, Fredkin Marine Laboratory in the British Virgin Islands on June 6-10 and the 5th International Meeting of Protozoologists at the Lincoln Center Campus of Fordham University June 26-July 2.

The UNESCO/WFCC Training Course in Brisbane, Australia in July was attended by E. A. George, Culture Center of Algae and Protozoa, 36 Storey's Way, Cambridge, England.

Larry B. Liddle attended the Latin American Congress on Biological Oceanography in San Salvador as the chairman of the Education section in November, 1976. Dr. Liddle is now at Southampton College, Southampton, New York and is working on effects of environmental stresses on marine algae.

Anitra Thorhaug will be visiting the People's Republic of China with 9 other exchange botanists from the American Botanical Society. Dr. Thorhaug also attended a meeting on Global Survival, "Growth without Ecodisaster" at the invitation of the government of Iceland in June and was honored for her marine research on a nationwide TV Newsweek Broadcast entitled "The Ecologist" on May 5, 1977.

#### KUDOS

James A. DeBoer, formerly of the Woods Hole Oceanographic Institute, accepted a joint appointment at the University of Texas, San Antonio and the Marine Science Institute at Port Aransas, effective June 20, 1977.

Since September 1, the new address for Prof. John D. Dodge has been the Department of Botany, Royal Holloway College (University of London), Egham, Surrey, U.K. where he is the Head of the department. Prof. Dodge writes that he hopes phycologists traveling through London will consider visiting him at the College which is conveniently located just a few miles west of London's Heathrow Airport. In addition to his interests in dinoflagellates and algal ultrastructure, members of his department have strong interests in limnology particularly with respect to the London Reservoirs and the River Thames.

After receiving the doctorate from the State University of New York, Albany, Ivan J. Gothan III moved to the Environmental Microbiology Laboratory, Environmental Health Center, Division of Laboratories and Research, N.Y. State Department of Health, Albany, N.Y. 12202 in June.

Richard P. Herbst, formerly of the University of Wisconsin at Waukesha, is now Manager, Environmental Measurements Division, Environmental Research and Technology, Inc., 696 Virginia Rd., Concord, Massachusetts 01742.

In August, Christopher Lobban became the phycologist in the Division of Sciences, University of New Brunswick, Saint John, N.B., Canada.

News from a former winner of the Bold Award: Ruby Meredith has been working for the past 2 years in the Cancer Research Unit at Allegheny General Hospital in Pittsburgh, Pennsylvania. She recently was awarded a Special Fellowship from the Leukemia Society of America and this, in addition to 2 research grants, will allow her to pursue full time research of viral-induced leukemia.

Terry T. Terrell is now an aquatic ecologist with the National Habitat Assessment Group, Suite 23, One Drake Park, 333 W. Drake Rd., Ft. Collins, Colorado 80521. Dr. Terrell was formerly the phycologist at the University of Wyoming. She reports that she has some information on hot springs algae from sources in Wyoming outside of the Yellowstone area. She also has a limited quantity of preserved material. Requests should include the phone number.

Two recent retirements of well-known phycologists have been announced: On June 30, Clarence E. Taft retired from the Botany Department of Ohio State University. And, on November 20, William A. Dally will retire from the Eli Lilly Research Labs. His botanical address will be Department of Botany, Butler University, Indianapolis, Indiana 46208.

#### RECENT GRADUATIONS

John G. Aghajanian received his Ph.D. degree in May from the University of North Carolina. His dissertation title was "Light and Electron Microscope and Cytochemical Studies of Morphogenesis in the Fresh water Red Alga *Batrachospermum sirodotii* Skuja" under the direction of Max Hommersand. Dr. Aghajanian is now seeking a teaching/research position in plant (algal) ultrastructure and development and is presently employed as Assistant Director of the Central Electron Microscopy Facility, Department of Pathology, Univ. North Carolina, School of Medicine, Chapel Hill, N.C. 27514.

A June graduate from North Texas State University was **M. I. Alam**. Dr. Alam's research was entitled "Phytohormone Effects on *Scenedesmus quadricauda*" under the direction of B. Dwain Vance. Dr. Alam has accepted a post-doctoral appointment with Prof. Shimizu at the Univ. of Rhode Island to study algal toxins.

**Michael C. Amspoker** was awarded a Ph.D. degree in March from Oregon State University. His major professor was C. David McIntire and the title of his dissertation was "The Distribution of Intertidal Diatoms Associated with the Sediments in Yaquina Estuary, Oregon." Dr. Amspoker is seeking a postdoctoral and/or teaching-research position; his address is Department of Botany, O.S.U., Corvallis, Oregon 97331.

**Gary J. Court** will receive his Ph.D. degree this fall under I.E.P. Taylor at the University of British Columbia. His dissertation title is "Physiological and Biochemical Studies of *Laurencia spectabilis* and its symbiont *Jaczevskia gardneri* (Ceramiales, Rhodophyceae)". Mr. Court will be interested in a teaching/research position or in post-doctoral work in plant biochemistry and physiology. His address is the Department of Botany, U.B.C., Vancouver, B.C., Canada V6T 1W5.

**Larry Freeberg** received his Ph.D. degree in December, 1976 from Texas A&M University under the direction of William B. Wilson. His research project was on "The Chronic Effects of Light Intensity, Temperature, Cell Density, and Heavy Metals (Mercury and Chromium) on Two Marine Phytoplankters in Continuous Culture." Dr. Freeberg is currently responsible for the development of a marine phytoplankton research program at the Mote Marine Laboratory, 9501 Blind Pass Rd., Sarasota, Florida 33581, and he reports that a marine phytoplankton culture collection of recent endemic isolates from the west coast of Florida consisting of over 60 unialgal cultures (38 axenic) has been developed. A catalog is available upon request.

A September graduate of Brown University was **Alice Fulton**. Her Ph.D. dissertation title was "The Colonial State in *Pandorina morum* (Bory): Structure of the Extracellular Matrix, Colonial Morphogenesis, and Morphogenesis of the Extracellular Matrix." Her major professor was Annette Coleman. Dr. Fulton is now an NSF post-doctoral fellow with Chandler Fulton at Brandeis Univ.

**M. Dennis Hanisak** accepted a post-doctoral fellowship to work with Dr. John Ryther on seaweed aquaculture at the Harbor Branch Foundation, Fort Pierce, Florida. Dr. Hanisak received his Ph.D. in June under Marilyn Harlin at the University of Rhode Island. His dissertation title was "Physiological Ecology of *Codium fragile* susp. *tomentosoides*."

**Linda K. Medlin** is continuing her graduate program after obtaining an M.S. degree from Texas A&M under William B. Wilson. Her thesis title was "Light and Electron Microscopic Studies of the Nannobenthic Diatom, *Nitzschia ovalis* Arnott, Section *Lanceolatae* as Compared to Related Forms."

George J. Schumacher reports these recent graduates from S.U.N.Y. at Binghamton, New York: **James I. Mangi** received his Ph.D. degree with a research title of "The Role of an Extracellular Algal Polysaccharide in the Susceptibility to Copper Poisoning." He is presently employed by the Environmental Assessment Council of New Brunswick, New Jersey. In addition, two received their M.S. degrees. These were **Kathleen P. Schmidt** whose thesis was "A Field and Laboratory Investigation of Reproduction in the Freshwater Dinoflagellate *Ceratium hirundinella* O.F.M. Schrank." Two Ph.D. candidates who are completing the requirements for that degree are **William H. Shaw** ("Factors Influencing the Nature of Blue-green Algal Succession") and **Aimlee D. Laderman** ("Biotic Determinants of the Algal Community in White Cedar-Sphagnum Bogs").

#### THE EXCHANGE DEPARTMENT

**Marian S. McGrath** requests an exchange of publications on preservation (freezing, lyophilization), and biochemical taxonomy of algae. Her address is American Type Culture Collection, 12301 Parklawn Dr., Rockville, Maryland 20852.

Phycological Newsletter  
Volume 13, Number 3

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AIR MAIL

15. NOV. 1977

BIBLIOTHEK  
MAX-PLANCK-INST FÜR LIMNOLOGIE  
232 PLON (HOLSTEIN)  
POSTFACH 165, GERMANY





Phycological Society of America  
Minutes of the 1977 Annual Business Meeting  
Santa Barbara, California

The Annual Business Meeting of the Phycological Society of America was held August 25, 1977 at 7:00 p.m. in Lotte Lehman Hall on the campus of the University of California at Santa Barbara. The meeting was called to order by the President, Dr. Michael Wynne (University of Michigan at Ann Arbor). The attendance at the meeting was 155 members.

The minutes of the 1976 Annual Business Meeting were published in Volume 12 (3) of the Newsletter. Additional copies of the minutes were distributed to the assembled members at the Business Meeting. The minutes were approved unanimously as corrected, moved by Dr. Richard Meyer (Univ. of Arkansas) and seconded by Dr. Imre Friedman (Univ. of Florida).

Dr. Janet Stein (Univ. of British Columbia), Editor of the Journal of Phycology, reported that the sale of Volume I of the Handbook of Phycological Methods continued to do well. Volume II of the Handbook of Phycological Methods - Physiological Methods (Eds. Johann Hellebust and Jack Craigie) will appear next spring. The price will probably be \$30.00, but PSA members will receive a 30% discount for a specified period of time. Volume III of the Handbook of Phycological Methods, edited by Dr. Elisabeth Gantt, will be ready in about a year. The same price discount will be given to PSA members as with Volume II.

Dr. Stein reported that last year (1976) the number of manuscripts received by the Journal was down 30%. This year (1977) the number of manuscripts received by the Journal is up 15% from 1976. There is no backlog of manuscripts. The amount of time from submission to publication averages about 8 months, varying from 6 months to 10 months. The average cost to the Society for each page in the Journal is \$57.00 including figures and tables. A page with a figure or table costs \$30.00 more than a page of text. Authors are charged \$1.00 for each change made in proof. From 60 - 70% of the papers submitted are accepted for publication. According to the Institute for Scientific Information which publishes Current Contents, the Journal of Phycology has a high impact value and is listed in the top ten botanical journals. Dr. Stein listed the relative impact value of several journals as evaluated by the Institute for Scientific Information.

The Treasurer, Dr. James Rosowski (University of Nebraska) thanked the former treasurer, Dr. H. P. Hostetter, for the fine work done as treasurer for the past three years and for the effective way in which the records had been transferred on Jan. 1, 1977. Dr. Rosowski announced that the number of paid members had averaged around 1550 for the past several years, but that at this time (August 1977), the number of paid members is 1634. There may be a greater number by the end of 1977. Dr. Rosowski also announced that the expenses of the PSA had been the greatest this year than for any past year. However, in spite of this the Society remains on a firm financial basis, and there is no need to raise the dues to the members this year. The treasurer's report, which was distributed to members at the business meeting, is appended to these minutes. Rosowski noted that the \$11,328.00 in the checking account of the Westgate Bank would be largely used to pay the \$10,000.00 bill for the printing of the last issue of the Journal of Phycology and the abstracts for the Santa Barbara meeting. There is presently enough money in the treasury to cover the cost of publishing the Journal of Phycology for another year. He noted that the money already expended to cover costs of the Santa Barbara meeting exceeded \$3000.00, but that the expense would be closer to \$5000.00 when all the bills are received. Other large expenses this year have included expenses for computerizing the membership list, the dues notices, and other expenses connected with streamlining the operation of the treasurer's office. The \$1,612.45 bill to the attorney was for his services in restoring the tax-free status to the Society.

The President, Dr. Michael Wynne, called on Dr. Art Mathieson (Univ. of New Hampshire) to announce the results of the election of 1978 officers. The nominating committee consisted of Art Mathieson (Chairman), Lois Pfiester, and Dean Blinn. Mathieson reported that the 1978 officers elected by the Society will be Elisabeth Gantt, President; Clinton Dawes, Vice President; and John West, Patricia Walne, and Eugene Stoermer, members of the Editorial Board of the Journal of Phycology. The Editor, Dr. Janet Stein, will appoint three additional members of the Editorial Board.

The chairman of the Archives Committee, Dr. Bruce Parker (VPI) gave a report. The Archives were established in 1973. There are eight major categories of items included in the Archives. The Archives are presently housed at VPI near Dr. Parker's office and are better organized than previously. Dr. Parker pointed out that the Archives are continuing to grow and need the continued support of the members in the contribution of any items that may have historical importance. The Archives cost the Society very little and the contribution of slides, photographs, notes, etc. will pay off in future years as the Society grows older. A copy of Dr. Parker's report has been filed in the office of the Secretary.

Dr. Wynne announced that the Society now has tax exempt status as a non-profit corporation. He and the assembled members thanked Dr. Norma Lang (U. C. at Davis) for her tireless work in achieving this goal. Dr. Wynne pointed out that the Society now needs a logo for an official seal and for stationery. He announced a "contest" for a logo and asked members to send suggestions to the Secretary (Dr. Elenor R. Cox, Department of Biology, Texas A&M University, College Station, Texas 77843). The winning design will be selected from those submitted.

Ms. Nina Pearlmutter (Purdue Univ.) was recognized by the President with a message from Dr. Carole Lembi, retiring editor of the Newsletter. Dr. Lembi thanked all members who had contributed items to the Newsletter during her 4-year tenure and asked that similar support be given to the new editors. Dr. Wynne announced that the new editors of the Newsletter are Drs. Lynda Goff and Judy Hansen of Univ. of Cal. at Santa Cruz. Dr. Lynda Goff stated that the new editors solicited ideas for the Newsletter and told of some of the new plans. She stated that the Newsletter would attempt to include historical information and information about political decisions in the legislature which affect biologists. She urged that the membership respond to the questionnaire that had been distributed at the meeting.

The President, on behalf of the Society, expressed appreciation to Dr. Lembi for the fine job that she has done with the Newsletter.

Dr. Cox, the Secretary, reported that about 300 copies of the Career Brochure had been distributed to persons requesting it. Appreciation was expressed to Dr. Marilyn Harlin for her efforts in preparing the very successful brochure.

In 1978 the Phycological Society will meet with AIBS in Athens, Georgia on August 20-25. The membership approved this in the 1976 business meeting. The Executive Committee recommended that PSA meet with the AIBS in Stillwater, Oklahoma on August 12-17, 1979. Dr. Richard Norris moved (Dr. Lois Pfiester seconded) that the membership accept the recommendation of the Executive Committee. The motion was accepted unanimously. The secretary will notify AIBS that PSA will meet with them in 1979 in Stillwater. The possibilities for 1980 meeting sites were discussed - either UCLA or Vancouver, British Columbia. No decision was reached.

Dr. Clinton Dawes, Vice President/elect, asked the membership about the desirability of having a poster session at the next meeting in Athens. Dr. Elisabeth Gantt pointed out that poster sessions are expensive to set up and recommended that the expense should be taken into account. A general discussion followed. Dawes said that he could obtain the frames for the posters at no expense to the Society. It was generally agreed to pursue the idea of a poster session for the Athens meeting.

The President announced that Dr. Beatrice Sweeney (U.C. at Santa Barbara), AAAS Representative and Dr. Elisabeth Gantt (Smithsonian), AIBS Representative, had submitted reports to the Executive Committee.

A proposed change in the By-laws of the Society which will be submitted to the membership for vote in October, 1977 was discussed by the President, Dr. Wynne. Briefly, the change would make the person elected as Vice President of the Society the President elect. The rationale for the change concerns the increasing complexity of the operation of the Society. The proposed change will be submitted to the membership for vote with the dues notice in October, 1977.

Dr. Wynne also proposed to revive the Financial Advisory Committee. He proposed that this committee would assist with the recruitment of monies for the endowment fund and, in general, serve as financial advisor to the Executive Committee.

The co-chairpersons of the Bold Award (presented for the most outstanding paper presented by a graduate student) were Drs. Clinton Dawes and Norma Lang. Dr. Dawes reported that 36 students had participated and that the papers were excellent. He stated that the papers were given at 4 sessions and there had been 16 evaluators including the chairperson of each session in which competing papers were presented. Dr. Dawes thanked each participant and each evaluator for his cooperation. The Bold Award and a check for \$100.00 were presented to Mr. Michael Hawkes, Botany Department, University of British Columbia, Vancouver, British Columbia for his paper entitled "A field, culture and cytological study of Porphyrella gardneri Smith and Hollenberg (Bangiales)."

Dr. Richard Norris spoke for Dr. George Papenfuss in asking the members of the PSA if there was any interest in having an International Phycological Congress in the future. He pointed out that the membership of the various phycological groups was now large enough to make such a Congress possible. Norris asked that interested persons convey their ideas to Dr. George Papenfuss, Department of Botany, University of California at Berkeley, Berkeley, California.

Dr. Janet Stein mentioned that membership applications for new members were available. Dr. Richard Meyer announced a possible field trip to Wisconsin and Minnesota to collect Chrysophytes and Haptophytes. He asked that interested persons write to him at the Department of Biology, University of Arkansas, Fayetteville, Arkansas. Dr. Bruce Parker announced the International Botanical Congress in Sydney, Australia in 1981 and the X International Seaweed Symposium in 1980 in Gotborg, Sweden.

Dr. Elizabeth Percival, President of the British Phycological Society brought the greetings and thanks of that Society to the Phycological Society of America. She mentioned especially the excellent food served at the meeting and said the only complaint had been that there were just too many good things to eat.

The President, Dr. Michael Wynne, expressed the gratitude and appreciation of the membership of the PSA for an excellent meeting in Santa Barbara. Everyone agreed that we had a wonderful week. He especially thanked Dr. Michael Neushul, Dr. Beatrice Sweeney, and Dr. Shirley Sparling for all their work. He also thanked the officers of the Society.

The meeting was adjourned at 7:50 p.m.

Respectfully Submitted

Eleanor R. Cox, Secretary

PHYSIOLOGICAL SOCIETY OF AMERICA, INC.

Interim Financial Report

January 1, 1977 through August 15, 1977

James R. Rosowski, Treasurer

Balance Forward (From December 31, 1976)

52,094.56

INCOME

Dues Income

No. Members 1977

1 Domestic Regular	533	10,755.00
2 Domestic Student	224	2,595.00
3 Foreign Regular	178	3,540.00
4 Foreign Student	29	360.60
5 Domestic Institution	460	4,535.00
6 Foreign Institution	166	6,115.00
7 Retired	23	240.00
8 Joint	11	275.00
9 Life	10	
10 Complimentary Copy		
	<u>1634</u>	

Prepaid Dues Income

11 Prepaid Domestic Regular	120.00
12 Prepaid Domestic Student	
13 Prepaid Foreign Regular	20.00
14 Prepaid Foreign Student	24.00
15 Prepaid Domestic Inst.	
16 Prepaid Foreign Inst.	105.00

Other Income

21 Page Charges	165.00
31 Reprints	295.00
21/31 Page Charges & Reprints	8,743.50
41 Back Issues	1,140.00
45 Misc. Journal Income	100.00
46 Royalties Income---Handbook	565.18
51 Investment Income	1,312.24
71 Santa Barbara Fund	461.00
91 Miscellaneous	94.00
95 Cash---Fund Transfers	<u>67,777.62</u>

109,338.14

EXPENDITURES

110 Journal Printing Expense	15,858.33
120 Journal Reprint Expense	2,335.12
130 Journal Postal Expense	



210 Newsletter Publishing Expense	329.68
220 Newsletter Postal Expense	791.07
250 Handbook Expense	431.00
300 Santa Barbara Expense	3,070.00
400 Customer Refunds	60.00
500 Investments and Transfers	67,224.00
610 Tax Expense---State of Maryland	40.00
620 Tax Expense---Federal Withholding (FICA)	231.41
630 Tax Expense---Other	8.54
710 Treasurer's Office---Payroll	1,829.97
720 Treasurer's Office---Supplies	605.04
730 Treasurer's Office---Postal & Tel Exp.	547.59
810 Professional Service Fees--- Computer	265.10
820 Professional Service Fees--- Tax Prep.	170.00
830 Professional Service Fees--- Attorney	1,612.45
840 Professional Service Fees--- Accounting	350.00
910 AIBS Membership Dues	600.00
920 Miscellaneous Promotion (postage)	196.91
930 Janet Stein---Editor's Office	1,000.00
940 Ballot Expense	207.71
	<hr/>
	97,763.94

Balance as of August 15, 1977

63,668.76

ENDOWMENT FUND

State Securities Co., Passbook Account Interest 6.25%	107.45
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DISTRIBUTION OF ASSETS

State Securities Co., 2 year Savings Interest 7.25%	25,000.00
State Securities Co., Passbook Account Interest 6.25%	27,340.74
Westgate Bank, Checking Account	11,328.02
	<hr/>
	63,668.76

MEMBERSHIP SUMMARY

	<u>1977 to date</u>
Individuals	1008
Institutions U. S.	460
Institutions Foreign	166
	<hr/>
TOTAL	1634

PHYCOLOGICAL NEWSLETTER

Return by December 30, 1977 to: LYNDA J. GOFF AND  
JUDITH E. HANSEN, EDITORS  
Center for Coastal Marine Studies  
University of California  
Santa Cruz, California  
95060

Reply Form for  
January 1978  
Newsletter

Please TYPE or PRINT

Name \_\_\_\_\_

Address (with Zip Code) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Changes in employment or location (date effective):

Travel to international meetings, sabbaticals, etc:

Exchange of publications, cultures, herbarium specimens, etc. desired:

Information on Graduating Students

Name of graduating student \_\_\_\_\_

Date of graduation \_\_\_\_\_ Degree obtained \_\_\_\_\_

Major professor \_\_\_\_\_ University \_\_\_\_\_

Dissertation title \_\_\_\_\_

Future plans and/or position wanted \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Other news of interest, or comments: