Sept 1980

EXECUTIVE COMMITTEE PSNA 1980 - 1981

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The Phytochemical Society of North America is a non-profit scientific organization whose membership is open to anyone with an interest in the chemistry of plant products. Annual membership dues are $8.00 for regular members and $4.00 for student members. Annual meetings featuring symposium topics of current interest and contributed papers by conference participants are held throughout the United States, Canada, and Mexico. A newsletter is circulated to members several times a year to keep them informed of upcoming meetings and developments within the Society.

If you would like additional information about the PSNA or if you have material to be included in the newsletter, please contact the Society Secretary.

Minutes of the Annual Business Meeting of the PSNA, August 6, 1980, Pullman, WA.

The meeting was called to order about 4:15 p.m. by President Creasy. About 30 members were in attendance including the President-elect, C. Steelink, Secretary Nozzolillo, Treasurer Romeo, and Editor-in-Chief Loewus. Overlap of the PSNA meeting with that of the ASPP may have reduced attendance because of the conflict imposed by dual membership.

1. The Secretary summarized the minutes of the 1979 meeting which had been published in the September 1979 Newsletter. The availability of the new PSNA brochure was pointed out.

2. The Treasurer submitted his report, pointing out the $20,000 bank balance, some of which has been invested. The possibility of IRS intervention was discussed and discounted. An advance has been committed to the 1982 joint meeting in Ottawa.

3. The new Editor-in-Chief, Frank Loewus, was introduced by the President. He also announced that C. A. Ryan would be co-editor of Volume 15 of Recent Advances, and that a new contract had been signed with Plenum.

4. Report of the 1980 meeting - Jim Saunders, seconded by Jerry McClure (?), moved a vote of thanks to the organizer, Frank Loewus. The question of low membership attendance, as well as wide advertisement of the meeting to non-member scientists in the area, was discussed. For example, notices could be sent to local ASPP members. Ibrahim raised the question of attitude to non-members. Their participation in the symposia is O.K., but contributed papers must be sponsored by a member. McClure pointed out that members pay a lower registration and that this fact encourages non-members to join the Society. Various outlets for advertising the meetings were suggested: BioScience, CSPP Newsletter, ASPP Newsletter, Phytochemical Bulletin, Phytochemistry. Data on attendance for 1980 is still in the computer.

5. Report of membership survey - The Secretary summarized the results of the survey published in the December Newsletter (attached).

6. Future meetings - C. Steelink invited the Society to meet in Tucson, Arizona in 1983, with June suggested as the best time. Winter would also be good but is a bad time for academics. Walther spoke out in favor of Arizona and raised the question of car-pooling as a means of getting there. Loomis proposed that more emphasis be put on contributed papers, of which the 1981 notice, for example, makes no mention. Wender reminded everyone that contributed papers must be sponsored if given by a non-member. A major problem seems to be that abstracts are not published, even though such publication, as Walther pointed out, carries no weight with promotion committees etc. anyway.

7. Election of Officers - In the absence of the Chairman, G. Waller, R. Ibrahim presented the candidates put forward by the nominating committee:

for President-elect - C. Nozzolillo
for Secretary - S. Martin
for Treasurer - J. Romeo

Nominations from the floor were called for. G. Hrazdina, seconded by J. McClure (?) proposed the names of R. Mansell for President-elect, and J. Saunders for Secretary and J. Romeo for Treasurer. A vote by secret ballot resulted in election of C. Nozzolillo and J. Saunders to the posts of President-elect and Secretary, respectively.

The meeting adjourned about 5:30 p.m. before all in attendance had slipped out for dinner!

C. Nozzolillo

Summary of responses to the questionnaire published in the December 1979 Newsletter

# of respondents- 92; 63% from universities, 23% from government, 7% from industry and 5% from private institutions.
- 90% held a doctorate
- 41% chemists, 32% botanists, 27% biochemists.
- 81% U.S.A., 11% Canadian, 8% other.

Fields of interest (82 in all answered this)
- 44% secondary metabolites; phenolics (20), terpenoids (5), alkaloids (2), natural products (9), tobacco (1)
- 23% biology; chemotaxonomy (7), chemical ecology (7), pathology (1), genetics (4)
- 26% physiology and biochemistry; cryobiology (1), photobiology (1), seed physiology and growth (4), biosynthesis and enzyme mechanisms (8), cell culture (2), bioactive constituents (4), cancer (1)
- 7% wood chemistry

Duration of membership: 43% over 10 years, 24% 5-9 yrs., 33% 1-4 yrs.

Membership in other societies: "Many", or "etc" was the reply in a few instances, but over 100 societies were named. Only 21 of these were named by 3 or more PSNA members. The most popular are listed below:
- 44% American Chemical Society
- 26% American Society of Plant Physiologists
- 25% A.A.A.S.
- 19% Sigma Xi
- 18% American Soc. Pharm.
- 12% Bot. Soc. Amer.
- 6-9%: Chem. Soc. London, PSE, IAPTC
- 3-5%: AIBS, APS, SSPP, ASHS, SEB, CIC, NYAS, Econ. Bot., CSPP, AIC, ASPT

Meetings attended: 10 or more - 7%, 5-9 - 12%, 0-4 - 81%.

Factors influencing attendance (70 responses):	major	minor	no relevance
time of year (7 cannot in summer)	35%	45%	19%
conflict	49	30	21
topic of symposium	65	31	4
site (scenic interest requested)	49	30	21
length (2-3 days is O.K.)	2	48	51
funds	42	26	7

several suggested topics for symposia: medicinal plants (BEE), function of secondary metabolites (JWM), physiology of plant disease (SN), plant cryo-protectants (MS), relationship of biochemistry and physiology (CG), carcino-genesis (DH), in vitro secondary compound formation (PK), biosynthesis, enzymology, genetics of sec. comp. (DJA, SOD, JB, EL), sec. comp. in tissue culture (JB), chemotaxonomy (DMP, RW, DG, JAM), biochem. of plant growth and survival (BF), host-plant resistance (RS), fundamental areas (TJM, HAS), foliage chemistry (GB), chemical ecology (JGC, JN, JS, AW, RW), in addition to several mentions of natural products, phenolics, etc.

Joint meetings: 51% yes, 14% no, 35% indifferent.
ASP, ASPP, PSE, BSA, CSPP suggested

Associated tours and exhibits? (60 responses)

	Yes	No	Indifferent
Tour	53%	34%	14%
Exhibit	58	28	13

Award for young scientist's presentation? Yes - 52%, No - 25%, Indifferent - 23%

Comments were relatively few, as follows:

DLT - uses Recent Advances extensively in teaching, regards it as the major function of the PSNA.
JB - advise non-members of symposia, get stimulating speakers (EL also).
ER - prepare program on phytochemistry for undergrads, encourage them to attend symposia.
DG - meet with other groups whose major interest is natural products.
VLS - wants more status summary presentations.
JW - restrict meetings to university campuses, have a unifying topic.
DH - PSNA is too academic.
SAB - halt the trend to poster presentations.
WDL - more emphasis on contributed papers

C. Nozzolillo
August 1980

Interim Financial Report

1 January 1980 - 31 July 1980

Receipts		Expenditures	
Membership dues	1965.30	Directories	381.22
Royalties	5875.39	Secretary expenses (Newsletter)	400.00
Interest savings	448.47	Treasurer expenses	154.73
		Foreign exchange debit	4.05
		Editor-in-Chief (Contract Negotiat.)	120.00
	8289.16		1060.00

Summary

Receipts	8289.16
Expenditures	1060.00
Net Gain	7229.16

Assets - 1 January 1980		Assets - 31 July 1980	
Checking	2,904.32	Checking	4,306.20
Savings	10,249.99	Savings	16,077.27
Total	13,154.31	Total	20,383.47

NOTES 1980

Total members	315 (270 paid)	USA	245
Student members	29 (21 paid)	Canada	36
		Foreign	34

Respectively submitted,

John T. Romeo

UpComing Meetings of Interest:

It has only been a month since we left the rolling hills of Pullman where the PSNA held a joint meeting with the American Society of Plant Physiologists; therefore news on the meeting may come as a surprise; however the meeting organizers are firming up plans concerning the 1981 meeting in Ithaca. The meeting will be held at Cornell University, August 10-14, 1981.

In addition to the Symposium on the Cellular and Subcellular Localization in Plant Metabolism, whose topics were published in the last Newsletter, five contributed paper sessions are planned in the following areas:

1. Chemotaxonomy and systematics (Phenolics, terpenoids, alkaloids, etc.).
2. Plant Enzymology
3. Plant Chemistry (isolation, identification, and reactions)
4. Plant Stress (insect, diseases, and environment)
5. Physiology and Ecology

There will also be (a) Poster Session(s) for those individuals who would like to present data in this manner. It was decided at the Pullman meeting that in order to facilitize student participation in the program, the Society will pay the registration of any student who would like to present a paper.

The social side of the meeting has also received considerable attention by the planners. The mixer is planned in Johnson Art Museum overlooking Ithaca and Cayuga Lake. Family activities, spouses program and an afternoon in the Finger Lakes region are all being planned. Housing facilities will be available on the campus, however, motels and campgrounds are also nearby.

For further information or suggestions contact:

Dr. Geza Hrazdina
Dept. of Food Science & Tech.
Cornell University
Geneva, N.Y. 14456
(315) 787-2285

Dr. Leroy Creasy
Dept. of Pomology
Cornell University
Ithaca, N.Y. 14853
(607) 256-5438

A joint meeting of the American Society of Pharmacognosy and the Society for Economic Botany will be held in Boston, Mass., July 12-17, 1981. A Symposium entitled "Plants and Their Products in the Service of Man" has been arranged. The plenary lectures will be as follows:

1.	Herbaria as Resource Centers	Peter Ashton, Harvard University
2.	Medicinal Plants in Third World Countries	Edward Ayensu, Smithsonian Institute
3.	Plants, Insects and Man - Their Interrelationships	Martin Jacobson, USDA, Beltsville
4.	Plants as Renewable Resources	Lambertus Princen, USDA, Peoria
5.	Current Status of the NCI Plant and Animal Product Program	John Douros, National Cancer Institute
6.	New Techniques in the Separation and Identification of Natural Products	Koji Nakanishi, Columbia University
7.	Chemistry of Alkaloids of Pharmacologic Significance	Maurice Shamma, Pennsylvania State Univ.
8.	Biosynthesis of Natural Products - An Overview of Current Problems	Richard Hutchinson, Univ. of Wisconsin Steven Gould, Univ. of Connecticut
9.	New Areas for Plant Product Research	Norman Farnsworth, Univ. of Illinois

A call for contributed papers and preregistration information will be sent out in January, 1981. For information concerning local arrangements, Dr. Robert F. Raffauf, College of Pharmacy, Northeastern University, Boston, MA 02115 should be contacted. Information concerning the scientific program is available from Dr. Geoffrey A. Cordell, College of Pharmacy, University of Illinois, P.O. Box 6998, Chicago, IL 60680.

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1981 - American Society of Plant Physiologists are meeting jointly with the Canadian Society of Plant Physiologists at Laval University, Quebec City, Canada, June 15-19.

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1982 - Annual Meeting of the PSNA to be held at the University of Ottawa in Ontario, Canada in August. There is a possibility that this meeting will be held jointly with the Phytochemical Society of Europe and the Symposium Topic will deal with some aspect of the "Phytochemistry of Food". Dr. Connie Nozzolillo at the Dept. of Biology, University of Ottawa, Ottawa K1N 6N5, Ontario, Canada, is currently accepting suggestions for symposium presentations and speakers. A precise symposium title will be announced as soon as Dr. Stewart Brown returns from Europe where he is canvesing the interests of the PSE.

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1982 - American Society of Plant Physiologists are meeting at University of Ill., at Champaign/Urbana, June 13-19.

1983 - Annual meeting of the PSNA to be held at the University of Arizona in Tucson, Arizona in June. Dr. Cornelius Steelink from the Dept. of Chemistry, University of Arizona, Tucson, Arizona 85721 (602) 626-2780, will be one of the organizers for this meeting, and he welcomes suggestions on symposium topics, and/or speakers. Suggested topics for symposiums have included: Biochemical Adaption to Stress; Immunochemistry in Plants; or Alleopathy. Other ideas should be forwarded to Dr. Steelink at your convenience.

News From Other Societies:

The Washington Section of the American Society of Plant Physiologists will have their fall meeting on October 15, 1980 (Wed.) with a banquet and presentation by Dr. Winslow Briggs at the National Arboretum. The subject of the presentation will be on the Recent Physiology and Biochemistry of Phytochrome and any interested parties are welcome. For additional information contact Dr. Gerald Deitzer at the Smithsonian Radiation Biological Labs, 12441 Parklawn Drive, Rockville, MD 20852 (301) 443-2316.

At the Annual Meeting of the American Society of Plant Physiologists at Washington State University, Pullman, WA, August 4-7, 1980, new officers were elected as follows:

PRESIDENT: Dr. Page W. Morgan, Plant Science Department, Texas A & M University, College Station, TX (assumes office October 1, 1980).
PRESIDENT-ELECT: Dr. John S. Boyer, USDA/SEA, Dept. of Botany, University of Illinois (assumes office October 1, 1980).
MEMBER OF EXECUTIVE COMMITTEE: Dr. Charles J. Arntzen, Director MSU/DOE Plant Research Laboratory, Michigan State University, East Lansing, MI (assumes office October 1, 1980).
TWO CORRESPONDING MEMBERS WERE ELECTED:
Dr. T. W. Goodwin, Johnston Professor of Biochemistry
Department of Biochemistry
The University of Liverpool
and
Dr. Paulo de T. Alvim, Scientific Director
Centro de Pesquisas do Cacau
Itabuna Bahia
Brazil

Society Awards were given as follows:

STEPHEN HALES PRIZE AWARD to Professor N. Edward Tolbert, Department of Biochemistry, Michigan State University, East Lansing, MI.

CHARLES F. KETTERING AWARD for Excellence in Photosynthesis - The award was shared by three scientists: Dr. Hugo Kortschak, Hawaiian Sugar Planters Association, Dr. M. D. Hatch, Division of Plant Industry, CSIRO, Canberra City, Australia, and Dr. C. R. Slack, D.S.I.R., Palmerston North, New Zealand.
CHARLES REID BARNES LIFE MEMBERSHIP AWARD to Professor J. B. Hanson, Department of Botany, University of Illinois, Urbaba, IL.

Information on Grants:

The USDA Competitive Grants Program is tentatively planning to be operating again in 1980-81 with approximately the same funding as the previous years. Research proposals in the four areas of Biological Stress, Photosynthesis, Nitrogen Fixation, and Genetic Mechanisms, will be considered for funding for periods of 1-3 years. As yet Congress has not appropriated the necessary funds for the program; however, the Competitive Grants Office anticipates that the funds will be forthcoming by October 1, 1980. Nominations for reviewers in the four areas are welcome and the tentative deadline for submission of grant proposals is scheduled for December 1, 1980. Additional information may be obtained from Dr. David Krogmann at the Competitive Grants Research Office, Commonwealth Building, 1300 Wilson Blvd., Arlington, VA 22209 (703) 235-2630.

News from Society Members:

PSNA welcomes the following new members:

Dr. John Ohlrogge, 1815 North University St., Northern Regional Center, USDA, Peoria, Ill 61604 (309) 685-4011 X 371 (Interests in natural product metabolism, lipids).

Ms. Mary L. Reider, Dept. of Botany & Microbiology, 770 Van Vleet Oval, University of Oklahoma, Norman, OK 73019 (405) 325-3174 (Interests in compartmentation, localization).

Mr. Gary Leonard Cave, Dept. of Entomology, 402 Life Science Building, Louisana State University, Baton Rouge, LA 70803 (504) 388-1634. (Chemical bases host plant resistance).

Dr. Jorge D. Coussio, Facultad de Farmacia y Bioquimica, Catedra de Farmaxognosia, Universidad de Buenos Aires, Jun in 956, 1113-Capital Federal, Republica Argentina (84-7631) Pharmacognosy.

Ms. Suzanne M. Harley, Thimann Labs, Univ. of California, Santa Cruz, CA 95064 (408) 429-2046. (Plant biochemistry).

Dr. R. E. Howarth, Research Station, Agric. Canada, 107 Science Crescent, Saskatoon, Sask., Canada S7N OX2 (306) 343-8214. (Agricultural, nutritional, & food chemistry).

Mr. Konrad M. Kuzmanoff, Dept. of Botany, The Ohio State University, 1735 Neil Ave., Columbus, OH 43210 (614) 422-0238. (Cell wall chemistry).

Mr. Timothy J. Mulkey, Dept. of Botany, The Ohio State University, 1735 Neil Ave., Columbus, OH 43210 (614) 422-0238. (Plant growth regulators).

Dr. W. David Nes, U. S. Dept. of Agriculture, 800 Buchanan St., Berkeley, CA 94710 (415) 486-3683. (Polycyolic isopentenoids and fatty acids).

Dr. C. Michael Smith, Dept. of Entomology, Louisiana State University, Baton Rouge, LA 70803 (504) 388-1634. (Natural products & efforts on insect behavior).

Dr. Sheri J. Tonn, Dept. of Chemistry, Pacific Luthern University, Tacoma, WA 98447 (206) 531-6900, X 240. (Fungi excellular enzymes, plant pathogen interactions).

Dr. Pear P. Ueng; Lorre, Potter Center, Purdue University, W. Lafayette, IN 47907. (Carbon metabolism).

Positions Open:

All positions listed below are equal opportunity jobs unless otherwise noted:

Postdoctoral Position: Research
Biochemist to work on carbohydrate interconversions in higher plants. Send Curriculum Vitae or contact the following for more information:

Dr. Frank Loewus
Institute of Biological Chemistry
Washington State University
Pullman, Washington 99164
(509) 335-3413

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Graduate Research Assistantship (Ph.D.): Available August 1, 1980. Stipend is $6,200 per 12 months. The research will be in the general subject area of relationships between carbon and nitrogen metabolic processes during the development of soybeans. Specific research topics include: 1) comparative physiology of soybean nodules formed by *Rhizobium* strains with different N_2-fixation capabilities, 2) development of carbon and nitrogen budgets for nodulated soybeans during vegetative and reproductive growth stages, 3) biochemistry of synthesis and utilization of the nitrogen transport forms (allantoin and allantoic acid) by nodulated soybean plants. Interested candidates are requested to contact Dr. D. W. Israel, Soil Science Department, North Carolina State University, Raleigh, NC 27650. Please forward transcripts, two letters of recommendation, and a brief description of research interests.

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A Graduate Research Assistantship is available for January 1981 in the Fruit Crops Department at the University of Florida to study physiological interactions between endomycorrhizae and blueberries under field and laboratory conditions. Emphasis will be placed on the role of mycorrhizae in water and ion uptake. Applicants should have a strong background in plant physiology, plant pathology or mycology. Interested persons should contact: Dr. F. S. Davies, Department of Fruit Crops, 1143 HSPP, University of Florida, Gainesville, FL 32611 (904) 392-4711.

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Graduate Assistantships: Fruit Crops, University of Florida, Gainesville; M.S. and Ph.D. ; research areas: abscission, plant breeding, water relations, dormancy, cold hardiness of peaches, blueberries, citrus and tropicals, and plant-environment interactions. Appointments are on a 12-month basis, 1/3-time, M.S. $5,000, Ph.D. $5,500. Contact Dr. D. W. Buchanan, Fruit Crops Department, 1143 HS/PP Building, University of Florida, Gainesville, FL 32611 (904) 392-4711.

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Postdoctoral Research Associate: To study the phytochrome mediated light regulation of the mRNA levels and synthesis of the chlorophyll a/b binding protein and the small subunit of RuBP carboxylase. Some experience with recombinant DNA and general nucleic acid techniques is desirable. Please send a Curriculum vitae and the names of references to Dr. Elaine Tobin, Dept. of Biology, UCLA, Los Angeles, CA 90024.

RESEARCH BIOLOGIST (Plant Physiologist): Research project concerned with photosynthetic and photorespiratory carbon metabolism, including whole plant physiology and biochemical studies. This position may also entail some field work. Applicants should have a M.S. degree with research experience in some area of plant physiology/biochemistry, preferably photosynthesis. Starting salary $12,600 (12 months). Send c.v., transcripts and three letters of recommendation to Dr. George Bowes, Department of Botany, 3157 McCarty Hall, Gainesville, Florida 32611.

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Two postdoctoral research associate positions are available immediately to work on 1) Isolation and characterization of "nodule-specific" host genes, 2) Role of plant hormones in regulation of host genes involved in symbiotic nitrogen fixation. Candidates must have experience in the area of nucleic acids and/or protein synthesis. Please contact: Dr. D.P.S. Verma, Biology Department, McGill University, 1205 Avenue Docteur Penfield, Montreal, H3A 1B1, Canada, Phone (514) 392-8246.

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Postdoctoral research associate to carry out research on sieve tube physiology, with emphasis on electrophysiology and membrane transport. The work is part of a project concerning the use of phloem-feeding insects for the investigation of phloem physiology. Salary: $13,000 first year, with funds available for two years' support. Available October 15, 1980 or later, but no later than January 1, 1981. Closing data October 1, 1980. Send a letter of application, available reprints or manuscripts, curriculum vitae and three letters of recommendation to Donald B. Fisher, Department of Botany, Washington State University, Pullman, WA 99164.

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Postdoctoral Research Associate. Individual will conduct research on the partitioning and utilization of nitrogen in alfalfa plants with normal and ineffective nodules during different growth stages using $^{15}N_2$ and $^{15}NO_3$. A Ph.D. in plant physiology or a closely related field is required. Experience with legume plants would be helpful. Applications for one year, renewable, will be received until November 15, 1980 or until a suitable candidate is selected. Salary range is $14,000 to $16,000 per year. Send resume, list of publications and three letters of reference to: Dr. C. P. Vance, Department of Agronomy and Plant Genetics, the University of Minnesota, 1509 Gortner Ave., St. Paul, MN 55108.

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Postdoctoral Positions in Biochemistry: Two positions will be available beginning between 1 November 1980 and 1 January 1981 for research related to: (1) structure-function relationships in microbial and higher plant RuBP carboxylase/oxygenase; and (2) photosynthetic/photorespiratory carbon metabolism in C_3-C_4 intermediate species. Qualifications include: (1) a Ph.D. in microbiology, biochemistry or a related field with at least some experience in microbial enzymology. Previous experience (graduate, postdoctoral) with RuBP carboxylase/oxygenase is highly desirable; and (2) a Ph.D. in plant biochemistry, plant physiology or a related field with at least some experience in photosynthetic carbon metabolism. Previous experience (graduate, postdoctoral) with isolated leaf cells, protoplasts and organelles is highly desirable. $12,000 to $14,000 per year, for 2-year position.

Send resume and names of three references by December 1 to: Dr. T. Chollet, Department of Agricultural Biochemistry, University of Nebraska, Lincoln, NE 68583 (402) 472-2936.

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Postdoctoral Position: Starting October 1, 1980 for 2 years only under a USDA/SEA Special Research Grant. Research on the biochemical mechanism of tolerance to phytophthora root rot in soybeans. Experiments will include bioassays for glyceollin and other antifungal materials, separation and analysis of compounds using thin-layer chromatograph, and use of carbon-14 radioisotopes to study the breakdown of antifungal metabolites in tolerant soybeans. Applicants should hold a Ph.D. degree in plant breeding and genetics, plant physiology, plant pathology, or biochemistry. Starting salary is $15,504 plus benefits. Contact: Dr. A. K. Walker, Department of Agronomy, Ohio Agricultural Research and Development Center, Wooster, Ohio 44691 (216) 264-1021, Ext. 191.

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Postdoctoral Research Associate: A plant physiologist/biochemist to work on the isolation, purification and characteristics of several of the enzymes involved in the biosynthesis of the aspartate family of amino acids in developing maize endosperm tissue. Applicant must have a Ph.D. with a strong background in enzyme isolation, purification and kinetic analysis. The appointment is for one year, renewable, with a preferred starting date of September 1980. Applicants should submit curriculum vitae, and three letters of reference to Dr. Randolph R. Henke, University of Tennessee/Department of Energy, Comparative Animal Research Laboratory, Oak Ridge, TN 37830 (615) 576-4000 or 4050, FTS 626-4000.

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Postdoctoral Research Associate: Position available 1 September 1980 for one year with possibility of renewal. Plant growth hormone biochemist, experience in GA biochemistry preferred. Salary is negotiable depending on experience. Contact: Professor S. N. Visscher, Department of Biology, Montana State University, Bozeman, MT 59715 (406) 994-2040 or 994-4548.

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Assistant Professor of Seed Science: Geneva, New York. Appointee will spend 85% of his time conducting research on seed quality, germination, seedling emergence and field performance. Ph.D. required in agronomy, botany, crop science, horticulture or plant physiology. Postdoctoral experience desirable. Salary is competitive, commensurate with qualifications. Application deadline is 1 January 1981. Send currivulum vitae, transcripts and names and addresses of at least 3 references to: M. T. Vittum, Dept. of Seed and Vegetable Sciences, NYS Agr. Exp. Station, Geneva, NY 14457 (315) 787-2217.

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University of Wisconsin-Madison - The Department of Biochemistry invites applications for the position of Assistant Professor in plant biochemistry. Areas of interest include, but are not limited to, photosynthesis, plant development and nitrogen metabolism. Responsibilities will include teaching, supervision of graduate students and development of an independent research program. Salary will be on a 12-month basis; it will be commensurate with the experience of the candidate and compatible with the salary structure of the University of Wisconsin System. Send curriculum vitae, and statement of research interests to: H. F. DeLuca, Department of Biochemistry, University of Wisconsin, Madison, WI 53706, before November 31, 1980. Applicants should have 3 letters of recommendation submitted to the same address.

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Department of Biochemistry, Purdue University, invites applications for a tenure-track position at the Assistant Professor level in the area of plant molecular biology and gene transfer technology. Candidates must have significant post-doctoral experience in the field and will be expected to develop a strong research program in addition to classroom teaching at the graduate or undergraduate levels. Applicants should include vitae, a brief description of past, on-going and proposed research, and the names and addresses of 3 or 4 individuals well acquainted with the applicant's research and teaching abilities. Applications should be addressed to: Dr. Don M. Carlson, Head, Department of Biochemistry, Purdue University, West Lafayette, IN 47907. Deadline for submission is 11-15-80.

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Professor and Head, Department of Plant Sciences. The person in this position provides administrative direction of the academic and research programs of the department and statewide leadership and coordination of Extension and Experiment Station programs in physiology and pathology. Applicant should have a Ph.D. or equivalent and professional experience in research and education in plant physiology, genetics, molecular biology, plant health sciences, or related area. Current curriculum vitae and names of at least three references should be sent to: Dean H. O. Kunkel, College of Agriculture, Texas A&M University, College Station, TX 77843.

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Plant Physiologist. Assistant faculty level beginning 1 January 1981 in botany, Washington State University. Position: 75 percent research, 25 percent teaching with emphasis at the graduate level. Candidates must have a Ph.D. with training in physiology and biochemistry of photosynthesis. Send curriculum vitae and three letters of reference by 1 October 1980 to: G. E. Edwards, Department of Botany, Washington State University, Pullman, Wash. 99164.

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Horticulturist/Plant Breeder. A newly established lectureship in the Department of Botany starting February 1981. Teaching responsibilities to be determined by candidates' field of expertise. The role will include development of contacts with rapidly expanding horticultural industry in and around Auckland and the pursuit of an active research programme. Applicants should have a Ph.D. Applications

close 29 August 1980. Contact Professor P. H. Lovell, Department of Botany, University of Auckland, Private Bag, Auckland, New Zealand for further details.

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Pomologist/Plant Physiologist Position. Tenure Track position in the Department of Pomology, U.C. Davis, at the Assistant or Associate level. Appointment is 100% research. A Ph.D. in an area of Plant Science is required and experience with tree fruit crops and/or interest in perennial fruit species is desired. Appointee will be stationed at the University of California Horticultural Field Station, near Fresno. Applicants should submit a curriculum vitae with a list and reprints of pertinent publications, thesis summary, undergraduate and graduate transcripts, and the names and addresses of three references to: Dr. Adel A. Kader, Search Committee, Department of Pomology, University of California, Davis, CA 95616, by October 15, 1980.

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USDA-University of Illinois. The USDA Photosynthesis Research Unit at Urbana will have a position available 1 October 1980. Our research is directed toward elucidating basic mechanisms of rate-limiting processes in photosynthesis. This position will be located in the Department of Botany, School of Life Sciences, and is expected to be filled at the assistant or associate professorial level, although senior scientists will be considered. Interested candidates should send a curriculum vitae, brief statement of research interests and goals, and three letters of reference to: Dr. W. L. Ogren, Research Leader, USDA/SEA, S-218, Turner Hall, University of Illinois, Urbana, IL 61801.

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Assistant Professor. Department of Agronomy, University of Missouri - Columbia to work with soybean and oil seed crops. Ph.D. in plant breeding. The individual selected will be expected to carry out the soybean building program for all Missouri. Teaching responsibilities are beginning and advanced plant breeding courses. Send a letter including a curriculum vitae, college transcripts, and have 3 individuals send letters of reference on your behalf, to Dr. Harry C. Minor, Chmn., Search Committee, Department of Agronomy, Univ. of Missouri, Columbia, MO 65211.

Discount on Symposium Volume:

The membership is reminded that they will receive a 40% discount on the price of the Recent Advances in Phytochemistry. Listed below are detailed prices and order forms.

ISBN	AUTHOR/EDITOR	*List Price*	*Discount Price*
_____40572-5	Swain/Kleiman--THE RESOURCE POTENTIAL IN PHYTOCHEMISTRY (Recent Advances in Phytochemistry, Volume 14)	$29.50	$17.70
_____40188-6	Swain--TOPICS IN THE BIOCHEMISTRY OF NATURAL PRODUCTS (Recent Advances in Phytochemistry, Volume 13	$29.50	$17.70
_____40028-6	Swain/Harborne/Van Sumere--BIOCHEMISTRY OF PLANT PHENOLICS (Recent Advances in Phytochemistry, Volume 12)	$49.50	$29.70
_____34711-3	Loewus/Runeckles--THE STRUCTURE, BIOSYNTHESIS, AND DEGRADATION OF WOOD(Recent Advances in Phytochemistry, Volume 11)	$49.50	$29.70
_____34710-5	Wallace/Mansell--BIOCHEMICAL INTERACTION BETWEEN PLANTS AND INSECTS (Recent Advances in Phytochemistry, Volume 10)	$35.00	$21.00
_____34709-1	Runeckles--PHYTOCHEMISTRY IN DISEASE AND MEDICINE (Recent Advances in Phytochemistry, Volume 9)	$32.50	$19.50
_____50044-2	Runeckles/Watkin--RECENT ADVANCES IN PHYTOCHEMISTRY, Volume 4	$32.50	$19.50
_____50043-4	Steelink/Runeckles--RECENT ADVANCES IN PHYTOCHEMISTRY, Volume 3	$25.00	$15.00
_____50042-6	Seikel/Runeckles--RECENT ADVANCES IN PHYTOCHEMISTRY, Volume 2	$20.00	$12.00
_____50041-8	Mabry/Runeckles--RECENT ADVANCES IN PHYTOCHEMISTRY, Volume 1	$39.50	$23.70

Date _____

Order Form

Name _____

Institution _____

Street _____

City _____ State _____ Zip Code _____

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Plenum
PUBLISHING CORPORATION

PLENUM PUBLISHING CORPORATION
227 West 17th Street, New York, N.Y. 10011
Attn: F. Columbus

Dec 1980

The 1981 Annual Meeting and Symposium of the
PHYTOCHEMICAL SOCIETY OF NORTH AMERICA
will be held August 10-14, on the campus of

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The meeting will feature contributed paper sessions on:

1. Chemotaxonomy and systematics
2. Plant enzymology
3. Plant chemistry
4. Plant stress
5. Physiology and ecology
6. Cellular and subcellular localization

The symposium, Cellular and Subcellular Localization in Plant Metabolism, will be held coordinately with contributed papers, and published as Volume 16 of RECENT ADVANCES IN PHYTOCHEMISTRY.

Topics:

I. CELLULAR METABOLISM

1. C4 Plant Photosynthesis (C. C. Black)
2. Stomata (W. H. Outlaw)
3. Synthesis and degradation (of secondary metabolites) (E. E. Conn)

II. SUBCELLULAR METABOLISM

4. Cell Walls (M. C. Ledbetter)
5. Vacuoles (G. J. Wagner)
6. Chloroplasts (S. C. Huber)
7. Mitochondria (C. J. Leaver)
8. Microbodies (A. H. C. Huang)

1981 ANNUAL MEETING INFORMATION

The 1981 Annual Meeting of the PHYTOCHEMICAL SOCIETY OF NORTH AMERICA will be held August 10-14, 1981 at Cornell University, Ithaca, NY.

Situated on hills overlooking Cayuga Lake, the campus covers 740 acres and is considered one of the most beautiful in the United States. The original site has not lost its splendor in a magnificent setting cut by two deep gorges and with expansive views of the surrounding countryside. There are now more than ninety major buildings on campus containing a kaleidoscope of architectural styles, with distinguished older buildings placed comfortably side by side with newer, often impressive, examples of the modern. Within a short drive are three unusually scenic state parks with facilities for hiking, boating, swimming, and camping; and an extensive system of Finger Lakes Trails for hiking. Ithaca itself is a small city of character and charm, located in the heart of the Finger Lakes Region. You will find here the almost unique combination of a cosmopolitan atmosphere in a rural setting.

If you anticipate coming to the Cornell meeting, you should send a request to the DIVISION OF TOURISM, NEW YORK STATE DEPARTMENT OF COMMERCE, 99 WASHINGTON AVENUE, ALBANY, NEW YORK, 12245, for a free copy of the I LOVE NEW YORK TRAVEL GUIDE. This colorful book will provide you with ideas on what to see on your way into or out of the state.

SUMMER CONFERENCE REGISTRANT FACILITIES:

Health Services: Unlimited visits to Gannett Clinic, located at 10 Central Avenue. Clinic hours, Mon-Fri 8:00 a.m. - 4:30 p.m. Should emergency illness or injury occur when the clinic is not open, program participants should call 256-1111 (Public Safety) for instructions, or they may go directly to the Tompkins County Hospital, Trumansburg Road. Participants are responsible for payment of any care provided at Tompkins County Hospital. Children under 12 will not be treated at Gannett Clinic.

University Unions: Two of the three Union buildings will be open this summer: Willard Straight Hall and the North Campus Union. Both offer a wide variety of social, cultural, and recreational activities. Willard Straight facilities include a game room, pottery room, a theater, haircutters, art exhibition areas, and numerous lounges and meeting rooms. The Straight desk offers newspapers, magazines, and sundries for sale. Dining service at the Straight includes cafeteria and short order service, in the Ivy Room. The North Campus Union contains such diverse facilities as a darkroom, a fully-equipped craft shop, a small store that sells drug-store items, a laundry and drycleaning service, a game room, a tavern, and various lounges and meeting rooms. The North Campus dining area on the third floor of the Union, is open to Co-op Dining members or Conference Participants.

Libraries: Program participants are encouraged to make use of Cornell's fine library system. For standard book check-out procedure, inquire at the desk in either Olin Graduate Library or Uris Undergraduate Library.

Athletic Facilities:

Teagle Hall: Hours: 9:00 a.m. - 7: p.m. Mon-Fri.
Facilities available for use include the gymnasium, weight room, steam room, and locker room. Male and female participants should show their registration certificates at the equipment cage, where they will be issued a towel and use of lockers and baskets. Participants must provide their own locks and are responsible for their personal belongings.
Swimming Pools: Children may use pools ONLY if supervised and part of a group, and if they are at least three feet tall.
Teagle Hall pool schedule:
12:00 p.m. - 2:00 p.m. co-ed swimming, Mon-Fri only
Helen Newman Hall pool schedule:
1:00 - 3:00 p.m. women only
3:00 - 4:30 p.m. co-ed swimming
Mon-Fri only
Outdoor Facilities: These include numerous tennis courts near Teagle, Newman, the Baker dorms, and the North Campus Dorms; a golf course where a participant may purchase a summer membership or pay regular greens fees; and a canoe rental service on Beebe Lake.

Check Cashing: A check cashing service is available at the Tompkins County Trust Store Bank in the Campus Store. Checks up to $50.25 may be cashed with proof of registration; a $.25 fee is charged.

TENTATIVE SCHEDULE:

The symposium topic will be Subcellular and Cellular Localization in Plant Metabolism and will be complemented by contributed papers in many areas of Phytochemistry.

	A.M.	P.M.
Sunday		Register at N. Campus Union 8:PM Reception, Johnson Art Museum
Monday	9:AM Welcome and Announcements 9:15 Symposium Paper 10:10 Coffee 10:30 Contributed Papers	1:30 Symposium Paper 2:20 Coffee 2:40 Contributed Papers
Tuesday	9:AM Symposium Paper 10:00 Coffee 10:30 Poster Session	1:30 Symposium Paper 2:20 Coffee 2:40 Contributed Papers - Posters
Wednesday	9:00 Symposium Paper 10:10 Coffee 10:30 Contributed Papers	1:30 Tour Starts
Thursday	9:00 Symposium Paper 10:00 Coffee 10:30 Contributed Papers	1:30 Symposium Paper 2:20 Coffee 2:30 Business Meeting 7:30 Banquet
Friday	9:00 Symposium Paper 10:00 Coffee 10:30 Contributed Papers	

A final program will be published in the July Newsletter.

NAMES/ADDRESSES/PHONE NUMBERS OF THE ORGANIZERS:

Leroy Creasy
Dept. Pomology
117 Plant Science Bldg.
Cornell Univ., Ithaca, NY, 14853
607-256-5438, home-607-257-2085

Geza Hrazdina
Dept. Food Science
109 Food Res. Lab
Cornell Univ. Geneva, NY, 14456
315-787-2285, home-315-789-9496

Ken Hanson
Dept. Biochemistry
Conn. Agr. Expt. Station
P.O. Box 1106
New Haven, CT 06504
203-787-7421

Karl Niklas
Dept. Plant Biology
214 Plant Science Bldg
Cornell Univ.
Ithaca, NY 14853
607-256-2032

Hans VanEtten
Dept. Plant Pathology
355 Plant Science Bldg
Cornell Univ. Ithaca NY 14853
607-256-3243

GENERAL INFORMATION

REGISTRATION:

1) Return a separate form (make copies) for each meeting participant.
2) A final program will be published in the PSNA-Newsletter.
3) Note the EARLY due date for abstracts.
4) Credit cards are not accepted by Cornell University to pay for housing, dining, etc..
5) Foreign participants should exchange currency at airport banks upon their arrival in the United States. Ithaca banks do not have facilities for changing foreign currency or travelers checks.

TOUR:

An excursion to the wine country of the Finger Lakes region is planned for Wednesday afternoon and evening. Buses will leave the Cornell North Campus Union at 1:30 PM and participants can tour the facilities of a wine company, or the museums in Hammondsport. On the return trip, the buses will stop at Watkins Glen where you may walk down the scenic glen at the State Park, visit museums in Watkins Glen or tour Seneca Lake on an excursion boat. Dinner is included in the tour at the Glen Motor Court overlooking Seneca Lake. After dinner, the buses will return to Ithaca by about 10:30 PM.

SPOUSES PROGRAM:

Ithaca boasts many scenic, cultural and commercial attractions. A program for spouses and children will be provided to encompass some of these. Those indicating an interest will be contacted upon registration.

HOUSING AND DINING:

University dormitories, adjacent to the North Campus Union will be the primary housing available. There are numerous motels in the area, a partial list is included. Participants wishing to stay in motels must make their own reservations and provide their own transportation between their motel and the campus.

Several campgrounds are within reasonable driving distance of the campus. A partial list is provided and most accept reservations.

The University dormitories are close to the meeting rooms in the North Campus Union. Rooms contain either 1 or 2 single beds. Linens and towels are provided. There is daily maid service. Bath rooms are conveniently located. No private baths are available. A cafeteria is located in the nearby North Campus Union. Laundry facilities are found in each building. Dormitories are not air conditioned, but nights are generally comfortable in Ithaca.

Dining facilities are in the North Campus Union although for those wishing to dine off campus, the Ithaca area has many fine restaurants. Many of these can only be reached by automobile.

BANQUET:

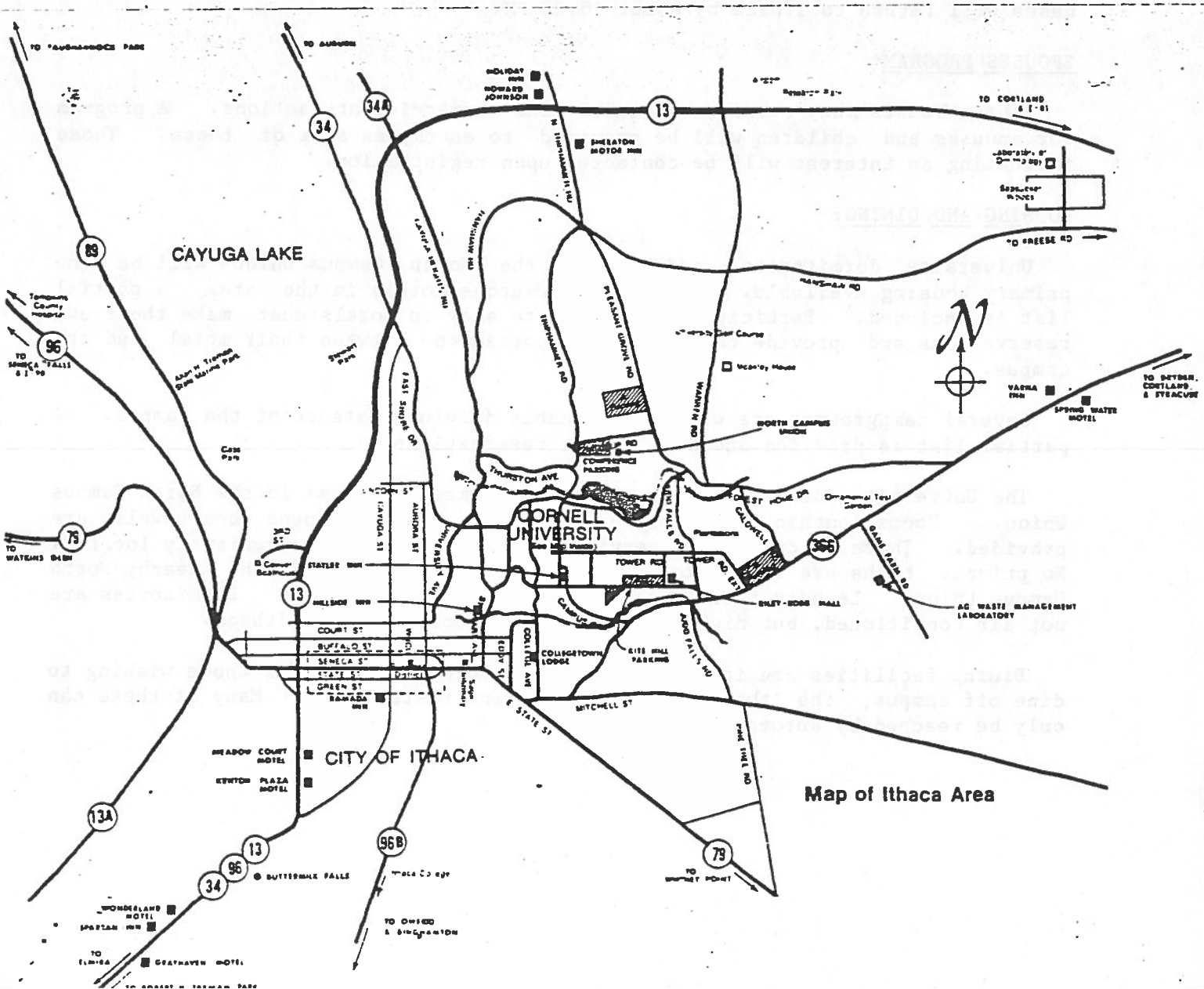
The banquet will be held Thursday evening in the North Campus Union. Professor Karl Niklas will be the featured after dinner speaker.

TRANSPORTATION TO ITHACA:

Ithaca is located about 400 kilometers northwest of New York City and 80 kilometers southwest of Syracuse, New York. The city is served by the following airlines: U.S. Air, Commuter, Command, Bard, Empire and Mall. U.S. Air (formally Allegheny Airlines) is a large regional carrier providing jet service. The latter five are small airlines which provide convenient schedules between Ithaca and certain nearby cities. They utilize small planes. Rental cars are available in Syracuse or Rochester, both a scenic drive from Ithaca of 80 and 145 km respectively.

The Greyhound Bus Company also serves the city. There is no train service.

Participants should report to the North Campus Union on their arrival.



Map of Ithaca Area

ACCOMODATIONS WITHIN THE ITHACA AREA:

This list is compiled from local sources and does not constitute a recommendation by Cornell University. It is merely prepared for your convenience.

NAME - ADDRESS & PHONE (Area Code 607)(Zip code 14850)	ROOMS AVAIL.	RATES*	FACILITIES	DISTANCE TO CORNELL
COLLEGETOWN MOTOR LODGE 312 College Ave. (273-3542)	41	$26-37	swimming privileges at Wonderland Lodge	1 block
GRAYHAVEN MOTEL 657 Elmira Rd. (272-6434)	12	$16-32	Outdoor Pool, Housekeeping Units	6 km
HILLSIDE INN 518 Stewart Ave. (272-9507)	41	$16-23		3 blocks
HOLIDAY INN 2310 N.Triphammer Rd (257-3100)	118	$32-40	Outdoor Pool, etc.	4 km
HOWARD JOHNSON'S N. Triphammer Rd. & Rt. 13 (257-1212)	72	$29-39	Outdoor Pool, Restaurant	4 km
KENTON PLAZA MOTEL 701 S. Meadow St. (273-0424)	82	$16-21	Outdoor Pool, Restaurant	6 km
MEADOW COURT MOTEL 529 S. Meadow St. (273-3885)	58	$20-30	Restaurant	6 km
RAMADA INN 222 S. Cayuga St. (272-1000)	120	$32-40	Indoor Pool, Restaurant	2 km
SHERATON INN One Sheraton Dr. (257-2000)	105	$28-44	Indoor Pool, Restaurant	4 km
SPRING WATER INN 1020 Dryden Rd. (272-9811)	14	$18-28	Spring Water	4 km
WONDERLAND LODGE 654 Elmira Rd. (272-5252)	35	$18-28	Indoor Pool, Restaurant	6 km

*Rates are approximate and subject to change without notice.

CAMPING AREAS:

Private Campgrounds:

BABBLING BROOK KAMPSITE: Rte. 34, Newfield, NY 14867. Phone 607-564-7851 or 607-564-9979. Located about 16 km from campus. Full hookups, showers, picnic tables.

SPRUCE ROW CAMPSITE: Tom and Jame Mahaney, RD 3, Ithaca, NY 14850. Phone 607-387-9225. Located about 21 km from campus. Full hookups, playground, store, showers, swimming pool.

WILLOWOOD CAMP: Dot and Jim Gordon, Box 583, Ithaca, NY 14850. Phone 607-272-6087. Located about 12 km from campus. Store, swimming, fishing, showers.

New York State Parks

BUTTERMILK FALLS STATE PARK: RD 5, Ithaca, NY 14850. Phone 607-273-5761. Located about 10 km from campus, many facilities.

TAUGHANNOCK FALLS STATE PARK: RD 3, Trumansburg, NY 14886. Phone 607-387-6739. Located about 25 km from campus, great spot.

ROBERT H. TREMAN STATE PARK: RD 5, Ithaca, NY 14850. Phone 607-273-3440. Located about 15 km from campus, many facilities.

For detailed information on state park activities, accommodations, reservations, etc., it is convenient to contact the regional office at:

Finger Lakes State Parks Region
Taughannock Falls State Park
Trumansburg, NY 14886
(607-387-7041)

ADVANCE REGISTRATION FORM

1981 Annual Meeting: PHYTOCHEMICAL SOCIETY OF NORTH AMERICA
August 10-14, 1981

Cornell University, Ithaca, NY 14853

Please complete a separate form for each meeting participant. Return no later than July 15, 1981 to:

L. L. Creasy
Department of Pomology
Plant Science Bldg.
Cornell University
Ithaca, New York, USA 14853

NAME_____ TELEPHONE_____
(Please print) (area code) (number)

Dept/Street_____

Institution/Company_____

City_____ State_____ Zip_____

Number		Amount
_____	Participant (member)--$35.00	_____
_____	Participant (non-member)--$45.00	_____
_____	Participant graduate/undergraduate student --$25.00	_____
_____	Participant member student presenting paper	(no charge)
_____	Spouse/Children--$5.00 per family, NAMES_____	_____
_____	Late Registration $55.00	_____

SPECIAL EVENTS:

_____	Sunday evening Reception (August 9, 1981, 8:PM, Johnson Art Museum)	(no charge)
_____	Spouse/Family Program (cost dependent on program, indicate interest)	
_____	Banquet (August 13, 1981, 7:30 PM)--$15.00	_____
_____	Excursion on Wednesday August 12, Leave 1:30 PM (Wine Country/Dinner--$25.00)	_____

TOTAL ENCLOSED _____

Make checks payable in U.S. Dollars to: Cornell University-PSNA-81

Registration refunds can be made if cancellations are received in writing by July 15, 1981. A $5.00 charge will be deducted for processing.

ROOM RESERVATION FORM

1981 Annual Meeting: PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

August 10-14, 1981

Cornell University, Ithaca, NY 14853

Return no later than: July 15, 1981 to:

L. L. Creasy
Department of Pomology
Plant Science Bldg.
Cornell University
Ithaca, New York 14853

	Sun	Mon	Tues	Wed	Thurs	Fri
Check off nights	_____	_____	_____	_____	_____	_____

Bed and Breakfast (as much as you can eat) included in room charge.
Children 12 and under are half price (both Room and meals).

_____Singles @ $18.00 per night for _____nights = $_____
_____Doubles @ $13.60 per person for _____nights = $_____
_____Meal tickets available (5 lunches and 2 dinners, $23.50) $_____

Roommate_____(return together if possible).
or assign a roommate_____.

_____days parking @$.25 per day $_____

Room charges should be payed in U.S. dollars at the time of arrival.
Personal checks are acceptable for room and for meal tickets.

Will make my own arrangements:
Stay in Motel_____
Camping_____
Undecided_____

NAME_____TELEPHONE_____
(Please print) (area code) (number)

Dept/Street_____

Institution/Company_____

City_____State_____Zip_____

Up Coming Meetings of Interest:

Progress is being made on the 1982 meeting of the PSNA which is to be held in Canada at the University of Ottawa. The Symposium topic, after some discussion with members of the Phytochemical Society of Europe, has been chosen as the Phytochemistry of Seeds. Suggestions for speakers should be forwarded to Dr. C. Nozzolillo at University of Ottawa, Department of Biology, Ottawa Ontario Canada K1N 6N5.

The Annual Meeting of the North Eastern Section of the American Society of Plant Physiologists will be held on May 1 & 2, 1981 at the Brookhaven National Laboratory. This meeting will be dedicated to the memory of Dr. Sam Granick one of the pioneers in the area of photosynthesis from the Rockfeller University who passed away last year. For additional information contact Dr. George Wagner at Brookhaven National Laboratory, Biology Dept., Upton, L. I., New York 11973 (516) 345-3443.

The USDA at the Beltsvillle Agricultural Research Center is hosting a symposia from May 17 - 20, 1981 on Strategies of Plant Reproduction. Further information on the meeting may be obtained from Dr. Albert Piringer, Chairman BARC Symposium VI, USDA, Bldg. 003, Rm 130, Beltsville, MD. 20705.

The Phytochemical Society of Europe has the following meetings scheduled:

April 6th-8th 1981, Hull. UPTAKE AND UTILISATION OF METALS BY PLANTS. Organiser: Dr. D. A. Robb.

September 21st-24th, 1981, Versailles. SEED PROTEINS. Organiser: Dr. J. Daussant.

News from Society Members:

Changes of addresses:

Dr. Denise E. Blume has accepted a permanent position with the U.S. Dept. of Agriculture in Oxford, N.C. to work on the control of secondary substances in tobacco. Her new addreess will be: Tobacco Research Lab, USDA, Rt. 2, Box 16 G, Oxford, N.C. 27565 (919) 693-5151.

Dr. Carolyn Levi has returned from a year and a half sabatical in Edinburg, Scotland and has accepted a position with M. Gibbs at Brandeis University to work on photosynthetic carbon metabolism. Her new address will be Institute for Photobiology of Cells & Organelles, Brandeis University, Waltham, Mass. 02254 (617) 647-2753.

PSNA welcomes the following new members:

Mr. John H. Payne, Dept. of Plant Pathology, University of Florida, Gainesville, Fla. 32611. Interests in Cell Recognition, Plant-Micro-organism interactions.

Mr. Philip D. Owusu, 3724 Frazier Street, Pittsburg, PA 15213. Interests in Phytochemistry and Natural Products Chemistry.

Dr. Edgar E. Stinson, USDA/ERRC/SEA, 600 E. Mermaid Ln, Philadelphia, PA 19118. Interests in Mycotoxins and Alternaria.

Dr. Wolf-Dieter Ibenthal, Inst. F. Pflanzenpathologie, Grisebach Str 6, 3400 Goettinen, West Germany. Interest in Host-Parasite Interactions, Altered Plant Physiology of Pathogens, and Yield Production.

Mr. Gary M. Pace, Dept. of Soil Science, Box 5907, North Carolina State University, Raleight, N.C. 27650. Interests in N. metabolism and N - C interactions.

Mr. Mark S. Lee, Dept of Enviromental Toxicology, Univ. of California Davis, CA 95616, Biosynthesis of cardiac glycosides milkweeds.

Miss Li-Shar Huang, 136 Plant Science Bldg, Dept of Pomology, Cornell University, Ithaca, NY 14853, Secondary Metabolisum, photosynthesis, senescence.

Mr. Richard P. Sandstrom, Oregon State Univ. Dept. of Biochemistry, Corvallis, OR 97331, Plant Enzyme extraction techniques, stress physiology.

Mr. Paul Rygiewicz, College of Forest Resources - AR-10, Univ. of Washington, Seattle, WA 98195, Xylem formation, mycorrhizal physiology, recognition mechanisms.

Dr. Pat. J. Langston, Biochem Dept. Univ. of Minnesota, St. Paul, MN 55108, Enzymology, carbohydrates, small grains.

Items of Interest of Phytochemists:

The Phytochemical Society of Europe is negotiating with the Journal of Phytochemistry to establish a formal link between the two organizations. The details of the arrangement have not been fully established, however prospects look favorable for the joint venture.

The following information was received by the PSNA for distribution to the membership. Anyone interested in participating as a possible reference source should answer the 12 questions listed below and forward them to Judge Robert L. Shaw, P. O. Box 6819, Ventura, CA 93006.

For the use of judges and attorneys, I am compiling a reference source of persons who are qualified and willing to serve as lecturers and consultants and/or testify in a court of law as expert witnesses on a variety of subjects.

I would like to include persons who are authoritities in your field.

If you are interested in participating in such an endeavor, I will appreciate your completing the attached statement of qualifications and returning it to me at your early convenience.

There will be no charge to you for participation in this project, nor will we solicit you for any kind of contribution or purchase. Further, information submitted by you shall not be disclosed to any other person or entity without your consent.

A final draft of your statement of qualifications will be submitted for your approval before publication.

I'm sure you will find participation in this project to be financially remunerative as well as providing national and professional recognition and personal enjoyment.

I hope to hear from you soon.

Very truly ours,

Robert L. Shaw

NAME TITLES

ADDRESS TELEPHONE

1. Field of Experitise:

2. Primary Occupation:

3. Educational Resume and Degrees:

4. Employment Resume:

5. Books or Papers Published:

6. Lecture and Teaching Experience:

7. Honors and Awards:

8. Membership and Offices Held in Professsional and Social Societies and Organizations:

9. Expert Witness Experience:

   (a) Courts:

   Types of Cases.

   (b) Other Proceedings:

10. Misc. Comments and related experience: (NOTE: Include all additional pertinent qualifications.)

11. My present fees for consultation and research or testimony as an expert witness are: $_____per diem or $_____per hours. Minimum fee: $_____and expenses.

12. My fees for lectures are: $_____per diem or $_____per hour. Minimum fee: $_____and expenses.

_____
Signature

Information on Grants:

National Science Foundation has released their 1981 Guide to Programs in Fiscal Year 1981 containing information and instructions for preparing NSF grants for the upcoming year. Target dates and deadlines for submission of grant proposals may be obtained from the NSF Bulletin which is published on a monthly basis. Both publications as well as others from NSF may be obtained free of charge by contacting: Editor, NSF Bulletin, Public Information Branch, National Science Foundation, Washington D. C. 20550.

The USDA Competitive Grants Program has been funded again for 1981. Research in the Plant Science was appropriated at 13 million dollars with an additional 3 million for human nutrition.

Information and grant proposals should be directed to Dr. Schrader at the Competitive Grants Research Office, Commonwealth Building, 1300 Wilson Blvd., Arlington, Va. 22209 (703) 235-2630. Absolute deadlines for the submission of grant proposals are:

Nitrogen Fixation Area	Feb 13, 1981
Genetic Mechanisms and Photosynthesis Areas	Feb 20, 1981.
Human Nutrition and Biological Stress Areas	Feb 27, 1981.

Scientists interested in serving on review panels for grant proposals should submit a curriculum vitae with letter of interest to the above address.

All authorized SEA/USDA grants have awarded for 1980 and are summarized by program area and type of institution, following.

SPECIAL RESEARCH GRANTS

Program Area	Number of Grants	Amount
Soybean Research	6	$ 485,000
Energy Research	23	1,843,000
Animal Health	70	6,790,000
Alcohol Research (P.L. 95-113 Sect. 1419)	5	485,000
Guayule (Native Latex) Research	9	630,500

COMPETITIVE RESEARCH GRANTS

Program Area	Number of Grants	Amount
Biological Nitrogen Fixation	33	$2,813,000
Photosynthesis	41	2,813,000
Genetic Mechanisms	44	3,298,000
Biological Stress on Plants	60	3,298,000
Human Nutrition	28	2,813,000

In addition, we have awarded 37 grants totaling $1,788,300 for the Solar Energy Systems for Agriculture Program. Funding for this program was provided by the Department of Energy.

The percentage of grants awarded to each type of institution closely parallels the percentage of applications received from each.

POSITIONS AVAILABLE All positions listed below conform to equal opportunity guidelines unless otherwise stated.

Research Associateships for studies on Photosynthesis and Crop Productivity. Several new research positions at both the research associate and graduate student levels will become available during 1981. The primary theme of the program is photosynthesis and crop productivity. Applicants with training and interest in any of the following disciplines; horticulture, crop science, genetics, plant physiology, biochemistry & biophysics are encouraged to apply. Financial support is dependent upon qualifications, and guidelines set down by the National Science & Engineering Research Council of Canada. Enquiries should be sent to Dr. Bernard Grodzinski, Dept. of Horticultural Science, Ontario Agricultural College, University of Guelph, Guelph, Ontario, NIG 2W1, Canada.

Post-Harvest Physiologists. A 12 month tenure track position in the Horticulture Department, Purdue University, West Lafayette, Indiana at the Assistant or Associate Professor level. The appointment is 70% research and 30% teaching. The applicant should have a Ph.D. and a strong background in either biochemistry, biology or botany and plant physiology with an interest in and knowledge of postharvest problems of horticultural crops. The appointee is expected to conduct imaginative research lending to improved longevity of harvested horticultural crops. The individual will teach a course in post harvest physiology and participate in a second team-taught course. Applicants should submit a curriculum vitae with a list and reprints of pertinent publications, thesis summary, undergraduate and graduate transcripts, and names and addresses of three references to: Dr. Joe H. Cherry, Chairperson, Search Committee, Horticulture Department, Purdue University, West Lafayette, IN 47907. Application will be accepted through March 1, 1981 or until the position is filled.

PLANT BIOLOGIST. Section of Plant Biology, Division of Biological Sciences, Cornell University. The Division of Biological Sciences is seeking a tenure track faculty member (preferably an Assistant

Professor) to teach or introductory course in General Biology to non-majors. Applicants must hold a Ph.D. degree in one of the biological sciences and have demonstrated research productivity in an area of plan biology. Post-doctoral research experience is highly desirable as is experience in teaching undergraduates. In addition to teaching the introductory course, the appointee will be expected to develop a vigorous research and graduate training program. Occasional participation in upper level courses in the appointee's area of interest is expected. Applications, which should include a description of teaching experience, reprints of research publications and a statement of future research directions, should be sent to: Dr. M. V. Parthasarathy, Section of Plant Biology, Room 237, Plant Science Building, Cornell University, Ithaca, New York, 14853. Three letters of reference requested by the candidate should also be sent directly to the same address. Applications should be received not later than February 1, 1981.

Plant Cell Biologist: The Department of Developmental and Cell Biology, University of California, Irvine, is seeking a plant cell biologist at the assistant professor level who specializes in plant somatic cell genetics, plant molecular genetics, or plant cell morphogenesis. Preference will be given to an individual working on higher plants. The candidate is expected to conduct high-quality research and teach at both the graduate and undergraduate levels. At least one year of postdoctoral experience is desired. Address all correspondence to: Chairman, Plant Cell Biology Search Committee, Department of Developmental and Cell Biology, University of California - Irvine, Irvine CA 92717.

Postdoctoral Position: Starting immediately for two years. To study glycolate metabolism and relationships between photorespiration and dark respiration. Background in biochemistry with some experience with photosynthesis desirable. Send curriculum vitae and three letters of reference to Dr. D. J. Oliver, Department of Bacteriology and Biochemistry, University of Idaho, Moscow, Idaho 83843 (208) 885-7014.

Postdoctoral Research Associate: Research project concerned with structure-function relationships of chloroplast thylakoids, and their regulation. Experience in membrane research and electron microscopy desirable. Salary around $14,000/yr; appointment as early as possible, but after February 1, 1981, for two years. Contact Dr. P. H. Homann, Institute of Molecular Biophysics, Florida State University, Tallashassee, FL 32306. PH (904) 644-3068.

Postdoctoral Position in Plant Biochemistry. An opening exists for a two year postdoctoral program in the study of the metabolism of certain highly toxic non-protein amino acids proliferated by leguminous plants. The salary is $14,000/yr and the opening is available as of June 1981. You will be a part of an active group probing the biochemistry of secondary amino acid formation, regulation, utilization, and function. Please send a complete C. V. a short statement of your research interest, and three letters of recommendation to Dr. Gerald A. Rosenthal, T. H. Morgan Building, University of Kentucky, Lexington, KY 40506. (606) 258-2652.

Postdoctoral Research Associate - Plant Physiology/Biochemistry. The primary research area of this position is to study carbon metabolism in Echinochloa crus galli var. oryzicola (barnyard grass) seedlings. Work would include enzymology, metabolite identification and quantification, gas exchange determinations and electron microscopy. Experience with isolated mitochondria or chloroplasts desirable. Available: Spring 1981, for 1-2 years. Salary to commensurate with experience. Send reprints or manuscripts, resume and names of three references to: Dr. Robert A. Kennedy, Department of Horticulture, Washington State University, Pullman, WA 99164, (509) 335-3621.

EXECUTIVE DIRECTOR - ASPP

This position requires a professional plant physiologists or professional in a related plant sciences field to represent ASPP and oversee the operations of the national office. Duties include representing ASPP relative to federal research policy and funding, relations with other scientific organizations, support the publications of PLANT PHYSIOLOGY via the Editor-in-Chief's office and the publisher and assisting the Board of Trustees, Officers and Executive Committee of ASPP. Other responsibilities include interacting with the ASPP Business Director and Society Committees, and participating in organization of annual meetings. Details of the position are flexible depending upon qualifications and interests of the person selected. Applicants interested in a full-time, half-time or part-time (consulting) appointment will be considered if they can live in the Washington D. C. , Maryland, Virginia area or readily commute into that area. Applicants should send a statement of interest, vita and an outline of professional experience to ASPP Business Office, Box 1688, Rockville, Maryland 20850.

XIII INTERNATIONAL BOTANICAL CONGRESS

The BSA-ASPP Botanical Congress, Travel Committee, Dr. J. Arditti, Chm, has sent out information concerning charter flights to Sydney. They also mailed the second and final circular from the Botanical Congress Organizing Committee. The circular contains Registration and Booking Forms (rooms, tours, etc.) as well as descriptions of the Congress scientific sessions. If you have not received this material contact Joe Arditti, Department of Developmental and Cellular Biology, University of California, Irvine, CA 92714.

APPLICATIONS FOR ASPP TRAVEL GRANTS

Applications are invited from members of ASPP for funds to attend the 13th International Botanical Congress in Sydney, Australia, August 21-28, 1981. Applicants should be forty years of age or less. They should outline their research, indicate whether they will present results at the Congress, and whether they will visit laboratories during their visit. The names of two references should be provided. Applications may be made for all or part of the expenses; other sources of funds should be listed on

application. It is expected that not more than ten awards will be made. Send applications to: American Society of Plant Physiologists, (Travel Grants) P.O. Box 1688, Rockville, Md. 20850. Application Deadline: February 27, 1981.

NSF TRAVEL GRANT, 13th INTERNATIONAL BOTANICAL CONGRESS

The National Science Foundation announces an award of $36,800 to the Botanical Society of America to be used for travel of recognized U.S. scientists to the 13th International Botanical Congress in Sydney, Australia, August 21-28, 1981. Seventy-three awards of $500 will be made from these funds. Eligibility: U.S. scientists, defined as any recognized member of the U.S. scientific community, irrespective of nationality, who performs work in the U.S. Constraints: travel must be by U.S. -flag carrier wherever available; no other NSF funds may be used to supplement an award. Selection criteria: special consideration is to be given to young scientists; special consideration is to be given to application of women and ethnic minorities to ensure, insofar as possible, adequate representation of both proportional to the total number of applicants from the scientific community; special consideration to be given to active scientists, i.e., those who are currently members of professional organizations and who are currently publishing their research; consideration is to be given to those who will take an active part in IBC-81 by presenting an invited or contributed paper, chairing a session or symposium, or presenting a poster. Persons who currently hold NSF grants for travel funds specificially allocated for IBC-81 are not eligible for additional NSF funds.

Deadline for applications: February 1, 1981
Announcement of awards: Approximately March 10, 1981

Information and applications may be obtained by sending a stamped self-addressed envelope to:

Barbara D. Webster, Treasurer
Botanical Society of America
Department of Agronomy and Range Science
Davis, CA 95616

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

NEWSLETTER MARCH 1980

TABLE OF CONTENTS

1. PSNA annual meeting 1980: August 4-7, jointly with the ASPP at Washington State University, Pullman, Washington. You should all have received the call for papers and information package from the ASPP. In case you didn't, the information is repeated on pp 2-10. Please note the deadline of March 14 if you want your abstract(s) to appear in the supplement to Plant Physiology. Use the blue form provided by ASPP. If you have lost it, or never received it, Dr. Beevers might be persuaded to accept a timely abstract submitted on plain paper in the format shown on p 8 . Even if you can't make the deadline, submit an abstract anyway- one session is reserved for such "spill-over" of paper and posters, and an informal photocopied handout of abstracts will be prepared for that session. The deadline in that case is May 30, 1980 for receipt either by Dr. Beevers or by the Secretary, PSNA .

NB. PRELIMINARY CALENDAR

	Sunday Aug. 3	Monday Aug. 4	Tuesday Aug. 5	Wednesday Aug. 6	Thursday Aug. 7
Morning	ASPP Executive Committee Mtg.	Symposium: Cell Recogn. 8:30-11:30	Symposium: Cell Recogn. 8:30-11:30	ASPP/PSNA Sessions	ASPP Sessions
		ASPP Sessions	ASPP Sessions	ASPP/PSNA Posters	ASPP Posters
Lunch 11:30-1:30 Dorm Cafeteria		1) Plant Physiol. Assoc. Ed.	ASPP Sectional Officers	1) ASPP Monograph	OPEN
		2) PSNA Exec. Committee		2) Future Local Committees	
Afternoon	ASPP Executive Committee Mtg.	ASPP Sessions	ASPP Sessions	ASPP/PSNA Posters	ASPP Sessions
		ASPP Posters	ASPP/PSNA Posters	Grant Agencies Info Session	
			PSNA Social 4:00-5:30	Business Mtgs. (ASPP/PSNA)	
Dinner 5:30-7:00 Dorm Cafeteria		Plant Physiol. Editoral Board 6:00-9:00	Salmon Barbecue 5:30-7:30	OPEN	
Evening	Plant Phys. Editorial Board Mtg. 7:00	ASPP/PSNA Mixer 8:00-11:00	ASPP President's Symposium: Mol. Biol. Chlpst. 8:00-10:00	Workshops 7:30-10:00	

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

1980 symposium, August 4-5, 1980, Washington State University, Pullman

PHYTOCHEMISTRY OF CELL RECOGNITION AND CELL SURFACE INTERACTIONS

Part I: INTERACTIONS AT THE CHEMICAL AND BIOCHEMICAL LEVELS

Session Chairman: Leonard Beevers (University of Oklahoma, Norman)

1. The Structure and Biosynthesis of Lipopolysaccharides and Glycoproteins (Alan Elbein, University of Texas, Health Science Center, San Antonio).

2. Plant derived Lectins (Irwin J. Goldstein, University of Michigan, Ann Arbor).

3. Host-pathogen Interactions (Peter Albersheim, University of Colorado, Boulder).

4. Cell Surface Lipoglycopeptides (John Gander, University of Minnesota, St. Paul).

5. Enzymic Properties of Phytohemagglutinins (Leland M. Shannon and Charles Hankins, University of California, Riverside).

Part II INTERACTIONS AT THE BIOLOGICAL AND ECOLOGICAL LEVELS

Session Chairman: Tsune Kosuge (University of California, Davis)

1. Plant Protoplast Agglutination and Immobilization. (Phillip J. Larkin, CSIRO Cranberra City, Australia).

2. Recovery of Glycoproteins from Plant Tissues (Robert G. Brown, Dalhousie University, Halifax, Nova Scotia).

3. Bacterial Attachment to Plant Cell Walls. (Mariamne Whatley, University of Wisconsin, Madison).

4. Pollen-stigma Interaction (R. Bruce Knox, University of Melbourne, Australia).

5. Lectins and Herbivore - Plant Interaction (Daniel H. Janzen, University of Pennsylvania, Philadelphia).

6. Cell Surface Interactions and Pattern Formation in the Cellular Slime Mold (Daniel McMahon, Washington State University, Pullman, Washington).

To be published as Volume 15, Recent Advances in Phytochemistry and available to PSNA members at a substantial discount!

FIFTY-SIXTH ANNUAL MEETING
American Society of Plant Physiologists
Joint meeting with
Phytochemical Society of North America
Washington State University, Pullman, Washington
August 3-7, 1980

Please register as early as possible.

We are meeting this year with the Phytochemical Society of North America, August 3 to 7, 1980, at Washington State University in Pullman, Washington. The following general information will be useful in planning attendance at this meeting. This is the only general mailing to be made to the membership.

Travel

Pullman can be reached by air, bus, and car. One may also travel by rail to Spokane and then by other means to Pullman.

Airlines: Cascade Airways offers a number of flights daily into Pullman, Washington. Connecting flights are available from Spokane and Seattle, Washington; from Boise and Lewiston, Idaho; and from Portland, Oregon.

Special arrangements have been made with Cascade Airways to provide additional unscheduled flights for a shuttle service from Spokane to Pullman on Sunday, August 3. Since these will not be scheduled flights, a standby list will be used to arrange additional flights. To insure there will be enough planes available, make your reservations early. *It is necessary for you to book your flight all the way through Spokane to Pullman on the first* Cascade flight that day from Spokane to Pullman. The travel agents' computer will probably show that the Spokane to Pullman flight(s) are all full. However, tell your travel agent to put you on Cascade standby from Spokane to Pullman. This will alert Cascade to have extra planes and to reserve shuttle space for you. Ask your travel agent for joint fare—it will save you money as Cascade is a commuter airline. A special hospitality room will be located in the Spokane International Airport where you will be greeted and directed to the shuttle service. All you need is the connecting ticket purchased *in advance.* Additional shuttle flights from Pullman to Spokane for outbound travelers will be arranged, if required. Tickets and arrangements can be secured through your local travel agent. Special questions about airline reservations can be directed to Cascade Airways 1-800-541-5552.

It is necessary for you to check your bags through to Pullman. If they do not arrive in Pullman on the same plane with you, they will be delivered. Be sure to put your name on your bag(s).

Pullman Airport: Public transportation and shuttle service will be available from the airport to campus housing and the registration area and return to the airport.

Bus: Greyhound Bus Lines serve Pullman with three trips daily from Spokane, Washington, and Pendleton, Oregon and connections to these cities.

Rail: Amtrak serves Spokane from Chicago with trains *arriving in Spokane* on Monday, Wednesday, and Friday. It also has trains from Seattle *arriving in Spokane* on Tuesday, Friday, and Sunday. For information call 1-800-421-8320 (AMTRAK).

Automobile: For those wishing to rent automobiles, Avis (1-800-331-1212), Budget (1-800-228-9650), Hertz (1-800-654-3131), and National (1-800-328-4567), are located at the Spokane International Airport, and Hertz and American International (1-800-527-6346) are located at the Pullman Airport. All five agencies also have outlets in downtown Spokane. American International, Budget, Avis, National, and Hertz have tentatively expressed a willingness to provide ASPP and PSNA convention participants with some type of discount or special rate. Anyone expecting to rent a car should ask for special rates and make reservations in advance.

Ample parking space will be available near the dormitories for those bringing their own automobiles. Parking permits will be available at the registration desk. You must have this diplayed on your car.

Highway Access to Pullman: Pullman can be reached from I–90 on the western edge of Spokane by taking U.S. 195 south. The distance is 75 miles. Pullman is also readily reached from Lewiston, Idaho, by taking U.S. 195 north and from Walla Walla, Washington. Distance from Seattle is 300 miles.

Campus Shuttle: Free campus shuttle service will be available to conference participants from Sunday to Friday. The shuttle will also provide service to and from campus and local motels.

Travel Information: An information desk will be available in the Spokane Airport on August 3 and daily on campus to help you with any travel problems.

Accommodations

WSU Dormitory Housing: Two adjoining high-rising dormitories with 500 rooms (Rogers and Orton) have been reserved. Rooms are not air conditioned but the elevation at Pullman (2,500 feet above sea level) and low humidity provides comfortable summer night-time temperatures. Each room has two single beds. Participants are urged to share rooms where this is possible.

The rates have been set at:

per person per night single occupancy	$8.00
per person per night double occupancy	$6.00
per student per night (with ID card)	$4.50
children under 6 (with personal sleeping bag)	$1.00

Rooms will be furnished with fresh towels daily but there will be no room service. Fresh linens will be provided after three days of occupancy. *Room rentals are payable at time of check-in.* Dormitories will be available for occupancy beginning on August 2.

Motels: Participants using off-campus lodging will need to make their own arrangements. Here is a list of area motels and information about them.

Miles to WSU	Motel Listing	No. Units	Facilities* (see code)	Price Range (single-double)
Pullman (area code 509, ZIP 99163)				
0.5	Thunderbird Lodge (332-2546) SE 915 Main St.	60	1-2-4-6-7	$22-28
0.8	Manor Lodge (334-2511) SE 455 Paradise	31	1-2-3-5-6-7	$15-17
1	Royal Motor Inn (334-3535) W 120 Main St.	43	1-2-4-6-7	$16-23
1.5	TraveLodge (334-3500) S. 515 Grand Ave.	34	1-2-4-6-7	$22-31
1.5	Hilltop Motor Inn (334-2555) P.O. Box 155 (Colfax Highway)	15	1-2-4-6-7	$17-20

Moscow, ID (8 miles east of Pullman) (area code 208, ZIP 83843)

7	University Inn, Best Western 1516 Pullman Road (882-0550)	120	1-2-3-4-6-7	$25-35
7.5	Motel 6 (882-6639) Pullman Road	130	(info not yet available)	$11
8	TraveLodge Moscow (882-1611) 645 Pullman Road	81	1-2-3-4-6-7	$22-30
9	Mark IV Motor Inn (882-7557) 414 N. Main St.	86	1-2-3-4-6-7	$21-26
9.3	Hillcrest (882-7579) 706 N. Main St.	50	1-2-5-6	$20-24

**Facilities Code*

1. TV
2. Phone
3. Radio
4. Swimming Pool
5. Kitchen Facilities
6. Air Conditioning
7. Restaurant on premises or nearby

Camping: Military Hill Park is about 1 mile from campus; no hook-ups. No charge.

Kamiak Butte Park is 14 miles from Pullman. 26 spaces, no hook-ups. $3/night, does not take reservations. (509) 878-1869.

Wawawai Park, 18 miles from Pullman, 9 spaces, no hook-ups, $3/night (509) 334-3774.

Boyer Park, 25 miles from Pullman, 28 spaces, has hook-ups, $4-$4.50/ night; takes reservations. (509) 397-4444.

Palouse, 16 miles from Pullman, has a small park where campers are welcome.

There is a disposal site in Pullman for self-contained units.

Meals

Dining Hall Facilities: Meals will be served in Stephenson dining hall adjacent to the dormitories beginning with dinner on Sunday, August 3 through breakfast on Friday, August 8. There are two rates, adult and child (under 12). Meals will be purchased on an individual meal basis. The schedule is:

	Adult (excluding tax)	Child (excluding tax)	Hours
Breakfast	$1.85	$1.40	7:00–9:00
Lunch	2.45	1.95	11:30–1:30
Dinner	3.50	2.80	5:30–7:00

Those arriving on Saturday will find several local restaurants available within walking distance of the dorm.

Placement

A Placement Service desk will be staffed during the meetings to assist in arranging interviews and listings of "positions available" and "candidates for positions" will be posted.

Special Events

ASPP/PSNA Mixer: Monday, August 4, 8-11 p.m., non-alcoholic beverages and hors d'oeuvres are included in registration. Cocktails and beer may be purchased by the drink.

Salmon Barbecue: Tuesday, August 5, 5:30-7:30 p.m. An outstanding meal featuring Pacific Northwest salmon, potato salad, cole slaw, baked beans, bread, dessert, and choice of beverage. $10.50/adult, $5.25/child, under 12. Requires pre-payment.

PSNA Social: Tuesday, August 5, 4-5:30 p.m. Non-alcoholic beverages and hors d'oeuvres are included in registration. Cocktails and beer may be purchased by the drink. All conference participants are welcome.

Sports: Tennis, golf, and swimming facilities are available. A nine-hole golf course is on campus and rental clubs are available. A public out-door swimming pool is near campus. Tennis courts are on campus.

White Water Raft Trip: This is a non-conference activity. Participants must make all arrangements for participating on their own. Pre- and post-conference trips on the Salmon River, one of the Pacific Northwest's scenic wild rivers, are available. A three day, pre-conference trip is available July 31—August 2. The post-conference trip is ~~July~~ Aug. 8-10. Transportation from Pullman to the river, meals, and incidentals such as waterproof bags, tents, etc., and return to Pullman is included. Participants would need to furnish personal gear and sleeping bags. Entire cost is $232. Make your own arrangements with:

White Water River Tours
John R. Jones
N.W. 720 Gary
Pullman, WA 99163
(509) 332-4862

Write early—directly—to "White Water River Tours" for detailed information. Early confirmation is requested and should be completed no later than July 9.

Program

Since the sessions start promptly on Monday, August 4 at 8:30 a.m., *all participants are urged to arrange their travel so they arrive in Pullman on Sunday, August 3.*

Two symposia are planned. *The Phytochemistry of Cell Recognition and Cell Surface Interactions*, sponsored by PSNA, the Western Section, ASPP and NSF, will be held in two sessions on Monday and Tuesday mornings. *The Molecular Biology of the Chloroplast*, sponsored by ASPP to honor the 1979 recipient of the Charles Albert Shull Award, Charles J. Arntzen, will be held on Tuesday evening.

Registration Fees:*	Date due in Pullman	
	By July 9	After July 9
Regular	$30	$40
Student	20	30
Spouse	5	5

Check Cashing: No arrangement for cashing personal checks is planned during this meeting.

*Cancellations confirmed by letter will be honored by refund until July 23. There will be a $5.00 fee for such refunds.

WSU does not accept credit cards for meals, lodging, or any other services. Payment of registration and housing may be made by check in the correct amount.

Weather

Pullmans summers are sunny, generally dry, warm during the day, and cool at night. Sweaters or light coats may help make the evenings more comfortable.

Tourist Information

Pullman and WSU: Agriculture and education, these two basics give Pullman and Whitman County their strength. Wheat, dry peas, lentils, barley, swine, and cattle are produced here. The diversified curriculum of Washington State University serves the entire state. We take great pride in the accomplishments of these two elements of our community.

Pullman is rolling hills, clean air and summers that are warm, dry and sunny, with cool nights. You'll find the friendly atmosphere of small-town living, with the excitement and spirit of a major university. It's all part of Pullman and the Palouse Country of Whitman County. You'll want to explore, picnic, swim, hike, or perhaps just relax . . . at the city's parks—Kruegel, McGee, Palouse River, Military Hill, or the others . . . the county's nearby Kamiak Butte and Klemgard parks . . . state parks at Steptoe Butte, Palouse Falls, and Central Ferry . . . or the public and private facilities along the Snake River.

If you have any questions about Pullman, contact the Pullman Chamber of Commerce, North 415 Grand, Pullman, WA 99163, (509) 334-3565.

Washington State University: The Pullman campus covers 600 acres on one of the city's four hills. The University is a multi-purpose institution with eight undergraduate colleges, a graduate school and 52 academic departments. More than 40 percent of declared majors are in the College of Science and Arts. Other colleges are Agriculture, Economics and Business, Education, Engineering, Home Economics, Pharmacy, and Veterinary Medicine. Tours of the WSU campus are offered from the Office of University Relations in the French Administration Building. WSU, Washington's land-grant institution, also maintains a strong program in research and Cooperative Extension. Special points of interest at WSU are the Albrook Hydraulic Laboratory, the Anthropological Museum, Conner Museum, the Electron Microscope Center, Holland Library, the new Owens Science and Engineering Library, the Nuclear Radiation Center and the Edward R. Murrow Communications Center.

Washington: The majestic Cascades bisect the state of Washington from north to south dividing it into two regions each with a distinctly different type of climate and terrain. In the western region are three national parks and four national forests. Small fishing villages and seaside resorts are to be found along the coast where stretches of sandy beach alternate with rocky headlands and quiet estuaries. The 172-island archipelago called the San Juan Islands contains countless bays and inlets. Washington's eastern region is an immense inland basin, a vast semi-arid region of wide-open spaces and sunny skies, dominated by the mighty Columbia River. Astride the Columbia is Grand Coulee Dam. Outstanding attractions are only a few hours' from any major city which makes Washington an ideal place for a fly-drive vacation.

For additional information on Washington State write:

Travel Division
Dept. of Commerce
General Administration Bldg.
Olympia, WA 98504

Other Northwest States: Write to their travel division at their state capitol.

ABSTRACT FORM for THE AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS (ASPP) and THE PHYTOCHEMICAL SOCIETY OF NORTH AMERICA (PSNA)

Leave this line blank

REPORT CATEGORIES

Molecular Biology
1. Nucleic Acids
2. Protein Synthesis
3. Enzymes and Regulation
4. Membranes
5. Glycoproteins

Photobiology
6. Photosynthesis-electron transfer
7. Photosynthesis-carbon flow
8. Photorespiration
9. Phytochrome and others

Metabolism
10. Carbon
11. Nitrogen
12. Sulfur
13. Lipid
14. Mineral

Phytochemistry
15. Aromatic Compounds
16. Alkaloids
17. Isoprenoid Compounds
18. Other Natural Products

Physiology
19. Stress
20. Gas Exchange
21. Transport
22. Wounding
23. Germination
24. Seed Maturation
25. Senescence
26. Ion Flux Studies
27. Assimilate Partitioning

Growth and Development
28. Tissue Culture
29. Chloroplast Studies
30. Host-pathogen Relations
31. Cell Walls

Hormonal Responses
32. Cytokinins and Gibberellins
33. Ethylene
34. Abscisic Acid
35. Auxin

Other
36. Environment
37. (Specify)

MAIL TO: Dr. Leonard Beevers, Secretary ASPP
Botany & Microbiology Dept.
University of Oklahoma
Norman, OK 73019 USA

DEADLINE FOR RECEIPT: FRIDAY, March 14, 1980

Read this example for format and content before writing.

HOW TO TRANSMIT KEY INFORMATION AT A GLANCE

Sandy Soil & Larry Loam, Biol Dept, State Univ, City MD 20014

Short, declarative sentences work best in a synopsis or abstract. All elements of a report should be present. These are the introduction, method, result and conclusion. Emphasize your most important and newsworthy item. Type the copy using a carbon ribbon on an electric typewriter, if available. Otherwise, use a new ribbon and take care not to smudge the ink before it has set. Draw symbols using BLACK INK ONLY. Stay within the margins, but type right up to them. Do not fold the abstract frame at any time. Submit ONE completed form. Label the envelope FIRST CLASS MAIL. Use AIRMAIL if FOREIGN

The DEADLINE FOR RECEIPT IS FRIDAY, March 14, 1980

1. SET UP as in the above example. CAPITALIZE THE TITLE. Give the full name of each author (unless initials are preferred) and underline each name. State the institutional affiliation and address. Start the text on the next line, indented three spaces. Please use the lines of the box as your margins. Stay within the box. In box in bottom right corner indicate Society affiliation (ASPP, PSNA, BOTH)
2. One author or sponsor must be an ASPP or PSNA member, but no member may sponsor more than one report. Sponsor sign here:_____.
3. Choose classifications for this report (Consult the accompanying list):1.____ 2.____ 3.____
4. Choose your preferred method of presentation: Poster report____; Oral report____; Indifferent____; Abstract only____.
5. Use 50x50 mm (2x2 inch) slides. Thin holders are preferred because they seldom jam in the carousel.

FIFTY-SIXTH ANNUAL MEETING
American Society of Plant Physiologists
Joint Meeting with
Phytochemical Society of North America
at Washington State University, Pullman
August 3-7, 1980

Registration form due by July 9, 1980.

Please complete a separate form from *each* person registering for regular or student registration. You may copy this form. Please *print* or *type*

For Office Use

I.D. No. _____
Date Received _____
Date Arrived WSU _____

Name _____
last first init.

Address _____
_____
city state zip

Phones: Business (___) _____ home (___) _____
Academic/Business Affiliation _____

Membership (If member of both societies please check both) _____ ASPP _____ PSNA _____ Neither

Basic Registration Fees	*Received By July 9*	*Received After July 9*	*Amount Enclosed*
1. Regular Registration	$30.00	$40.00	$ _____
2. Student	$20.00	$30.00	$ _____
3. Spouse _____ (name)	$ 5.00	$ 5.00	$ _____
4. Children _____ (names)		n/c	
_____		n/c	
_____		n/c	

Special Events		*Number*	
1. Salmon Barbecue Tuesday, August 5, 5:30-7:30 p.m.	$10.50 adult	_____	$ _____
	$ 5.25 child (under 12)	_____	$ _____
2. ASPP/PSNA Mixer Monday, August 4, 8-11:00 p.m.	No. attending	_____	n/c
3. PSNA Social Tuesday, August 5, 4-5:30 p.m.	No. attending	_____	n/c

Total Advanced Registration $ _____

Make checks, voucher, or money order payable to: "ASPP/PSNA 1980"
(Please do not send cash)

Send this completed registration form and payment before July 9, 1980 to:

ASPP/PSNA 1980
Cooperative Extension Conference Office
323 Ag Phase II
Washington State University
Pullman, WA 99164

complete back page of this form

cut along this line

WSU Dormitory Housing Registration

(Advanced registration required. Payment by cash, travelers check, or personal check is to be made at time of check-in)

Check *nights* of lodging desired.

	Per person per night	*August* 2	3	4	5	6	7
Single occupancy	$8.00	☐	☐	☐	☐	☐	☐
Double occupancy	$6.00	___	___	___	___	___	___
Student (I.D. card)	$4.50	___	___	___	___	___	___
Child, with sleeping bag	$1.00	___	___	___	___	___	___

Name of person sharing room _____

Motel (please make your own reservations)
I will be staying at _____ Motel

Camping (please make your own arrangements)
I will be camping at _____

Travel Arrangements

Arrival

1. Connecting flight into Spokane then to Pullman. We _____ will arrive in *Spokane* on
(no. of people)
airline _____, flight no. _____, date _____,
at _____ (a.m./p.m.), for a connecting shuttle flight on Cascade Airlines to Pullman.

2. Other air arrangements:
airline _____, flight no. _____, date _____,
arrival time in Pullman _____ (a.m./p.m.)

3. I will be arriving by (bus) (car) on _____

Departure

1. Connecting flights *out* of *Spokane*
We _____ will be leaving Spokane on airline _____,
(no. of people)
flight no. _____, date _____, at _____ (a.m./p.m.),
after arriving in Spokane on a Cascade Airline shuttle flight from Pullman.

2. Other air arrangements leaving Pullman on Cascade flight no. _____, date _____,
at _____ (a.m./p.m.)

2. PSNA annual meeting, 1981: August 10-14, Cornell University, Ithaca, N.Y. Organizers are Le Creasy and Gésa Hrazdina. The symposium: Cellular and Sub-cellular Localization in Plant Metabolism is being arranged by Ken Hanson, Hans Van Ettin, and Karl Niklas.

3. PSNA annual meeting, 1982: early August, University of Ottawa, Ottawa, Canada, possibly with the European Phytochemical Society- still in the preliminary discussion stage. Symposium topic also still undecided, but Stew Brown, Thor Arnason, and Connie Nozzolillo are working on it.

4. Miscellany:

Call for help: A graduate student of mine is working on the chemotaxonomy of the genus Medicago in association with Ernie Small of the Biosystematics Research Institute. We are looking for seeds (viable) of the following species:

Trigonella archiducisnicolai
M. brachycarpa (Trigonella emodi, T. brachycarpa)
M. cancellata
M. constricta
M. daghestanica
T. elliptica
T. graeca
M. grenadensis
M. lanigera
M. muricoleptis
M. noeana
M. rupestris
M. (T.) ovalis
M. (T.) plicata
M. (T.) popovii
M. (T.) pubescens
T. rostrata
M. secundiflora
M. (T.) rutenica
T. teheranica

If you have any of these, please contact the Secretary, PSNA!

APPLICATION FOR MEMBERSHIP

Dr. John T. Romeo, Treasurer,
Department of Biology,
University of South Florida,
Tampa, Florida 33620

Date: _____

Name: (Dr., Mr., Mrs., Miss) _____

Mailing Address.
(with Zip Code) _____

_____

_____

Telephone + A/C - _____

Class of Membership Desired and Annual Dues (U.S. Funds): Regular ($8.00) _____

Student ($4.00) _____

Make check or money order payable to PHYTOCHEMICAL SOCIETY OF NORTH AMERICA and send with this application to the Treasurer at address above.

Field of Interest: _____

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

NEWSLETTER MARCH 1980

Executive Committee 1979-1980

Dr. George Waller, Jr., Past-President
Department of Biochemistry,
Oklahoma State University,
Stillwater, Oklahoma 74074

Dr. Leroy L. Creasy, President
Department of Pomology,
Cornell University,
Ithaca. N.Y. 14850

Dr. Cornelius Steelink, President-elect
Department of Chemistry,
University of Arizona,
Tucson, Arizona 85721

Dr. John T. Romeo, Treasurer,
Department of Biology,
University of South Florida,
Tampa, Florida 33620

Dr. Tony Swain, Editor-in-Chief
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Boston University,
2 Cummington Street,
Boston, Massachusetts 02115

Dr. Constance Nozzolillo, Secretary PSNA
Department of Biology,
University of Ottawa,
Ottawa K1N 6N5,
Ontario, Canada

First Class, Airmail
Première Classe, Par Avion

Dr. John T. Romeo
Biology Department
Univ. of South Florida
Tampa, FL 33620

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

NEWSLETTER JUNE 1980

Pre-meeting issue

TABLE OF CONTENTS

1. PSNA annual meeting, 1980 : The pre-program issue of the ASPP Newsletter containing the preliminary program for the first-ever joint annual meeting of the PSNA and the ASPP is now out. A summary of the program and the Symposium titles are reproduced on pp2,5. No "spillover" abstracts have reached the Secretary by the May 30 deadline, and unless Dr. Beevers of the ASPP received some, there will be no need for the extra session. An extra session has been arranged for another purpose, however, entitled: Effects of volcanic activity - arranged for Wed. p.m. from 1.15 to 3.00. (As far as is known now, the spectacular eruption of Mt. St. Helen will not affect plans for the meeting.) Volcano specialists will discuss the eruption, its aftermath and physiological effects, and movies will be shown. Registration deadline is July 9 if you don't want to pay late fees and the registration form is reproduced on pp 3-4.

1980 Annual Business Meeting of the Phytochemical Society of North America.

Pullman, Washington. Wednesday, August 6, 1980. 4:00 P.M.

Agenda:

Minutes of the 1979 annual meeting

Treasurers report

Report of the 1980 Organizing Committee

Report of the Secretary's poll on meeting locations and topics.

Discussion of future meeting locations and topics.

Introduction of the Editor-in-Chief (see page 5 for announcement)

Report of the Nominating Committee

Nominations from the floor

Election of officers for 1980-1981

Other

Please check over the above agenda. If you have comments on any items, but will not be in attendance, or have items to add, please submit them to the Secretary or the President as soon as possible.

PRELIMINARY PROGRAM

Joint Annual Meetings

AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS

AND

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

Washington State University, Pullman, Washington
August 3 to August 7, 1980

HEADQUARTERS: Rogers Hall, Rm. 110 (tel.335-2308)

	MONDAY August 4, 1980	TUESDAY August 5, 1980	WEDNESDAY August 6, 1980	THURSDAY August 7, 1980
A. M.	9:00 Symposium 8:00 ASPP Sessions* 1. Symposium-Cell Recog.I 2. Phytochrome 3. Stress: Water 4. Photosynthesis:Electron Transport	8:30 Symposium 8:00 ASPP Sessions* 11. Symposium-Cell Recog.II 12. Ethylene 13. Stress: Temperature 14. Gas Exchange	8:00 ASPP/PSNA Sessions* 21. Protein Synthesis and Nucleic Acids 22. Stress: Misc. 23. Photosynthesis: Carbon Fixation 24. Tissue Culture 25. Gibberellins & Abscisic Acid 26. Isoprenoids, Aromatics & Other Nat. Products 27. ASPP/PSNA Posters III	8:00 ASPP Sessions* 32. Nucleic Acids 33. Enzymes & Regulation 34. Auxin & Ion Transport 35. Environment 36. Host Pathogen 37. Germination & Maturation 38. Posters IV
LUNCH	Plant Physiology Associate Editors - North Room** PSNA Executive Committee Meeting - South Room**	ASPP Sectional Officers- North Room** PSNA South Room	ASPP Monograph Committee- North Room** Future Local Program Committees- South Room**	
P. M.	1:30 ASPP Sessions 5. Photorespiration & C_4 Metabolism 6. Mineral Nutr. & Sulfur Metabolism 7. Chloroplast Development 8. Cell Walls 9. Cytokinin 10. Posters I	1:30 ASPP Sessions 15. Glycoproteins 16. Nitrogen Metabolism 17. Transport 18. Senescence 19. ASPP/PSNA Posters II 4:00 - 5:30 PSNA Social Hr. Compton Union Bldg., Jr. Ballroom	1:30 ASPP Sessions 28. Carbon Metabolism 29. Lipids 30. Membranes 31. Assimilate Partition. 3:00 Grant Agencies Infor. Session 4:00 ASPP Business Meeting 4:00 PSNA Business Meeting	1:30 ASPP Sessions 39. Auxin - General 40. Nitrogen Fixation 41. Ion Flux
DINNER	6:30 - 9:00 Plant Physiology Editorial Board Dinner	5:30 - 7:30 Salmon Barbecue/Open area East of Orton Dorm		
EVENING	8:00 - 11:00 ASPP/PSNA Mixer * Morning Paper Sessions ** Stephenson Dining Hall	8:00 - 10:00 ASPP 20. ASPP Presidential Symposium Start at 8:00 a.m.	7:30 Workshops 1. Glycoproteins 2. Molecular Biology of Chloroplast 3. Hormone Action 4. Stress Physiology 5. High Energy Constituents of Plants 6. Under-utilized Methods in Plant Science Research a. nutrition & salinity b. hormones c. transport-source/sink d. regulation of enzyme activity	

FIFTY-SIXTH ANNUAL MEETING
American Society of Plant Physiologists
Joint Meeting with
Phytochemical Society of North America
at Washington State University, Pullman
August 3-7, 1980

Registration form due by July 9, 1980.

Please complete a separate form from *each* person registering for regular or student registration. You may copy this form. Please *print* or *type*

For Office Use

I.D. No. _____
Date Received _____
Date Arrived WSU _____

Name _____
last first init.

Address _____
_____ city _____ state _____ zip

Phones: Business (___) _____ home (___) _____
Academic/Business Affiliation _____

Membership (If member of both societies please check both) _____ ASPP _____ PSNA _____ Neither

Basic Registration Fees	*Received By July 9*	*Received After July 9*	*Amount Enclosed*
1. Regular Registration	$30.00	$40.00	$ _____
2. Student	$20.00	$30.00	$ _____
3. Spouse _____ (name)	$ 5.00	$ 5.00	$ _____
4. Children _____ (names) _____ _____		n/c n/c n/c	

Special Events		*Number*	
1. Salmon Barbecue Tuesday, August 5, 5:30-7:30 p.m.	$10.50 adult $ 5.25 child (under 12)	_____ _____	$ _____ $ _____
2. ASPP/PSNA Mixer Monday, August 4, 8-11:00 p.m.	No. attending	_____	n/c
3. PSNA Social Tuesday, August 5, 4-5:30 p.m.	No. attending	_____	n/c

Total Advanced Registration $ _____

Make checks, voucher, or money order payable to: "ASPP/PSNA 1980"
(Please do not send cash)

Send this completed registration form and payment before July 9, 1980 to:

ASPP/PSNA 1980
Cooperative Extension Conference Office
323 Ag Phase II
Washington State University
Pullman, WA 99164

complete back page of this form

WSU Dormitory Housing Registration

(Advanced registration required. Payment by cash, travelers check, or personal check is to be made at time of check-in)

Check *nights* of lodging desired.

	Per person per night	*August* 2	3	4	5	6	7
Single occupancy	$8.00	☐	☐	☐	☐	☐	☐
Double occupancy	$6.00	___	___	___	___	___	___
Student (I.D. card)	$4.50	___	___	___	___	___	___
Child, with sleeping bag	$1.00	___	___	___	___	___	___

Name of person sharing room _____

Motel (please make your own reservations)
I will be staying at _____ Motel

Camping (please make your own arrangements)
I will be camping at _____

Travel Arrangements

Arrival

1. Connecting flight into Spokane then to Pullman. We _____ will arrive in *Spokane* on
(no. of people)
airline _____, flight no. _____, date _____,
at _____ (a.m./p.m.), for a connecting shuttle flight on Cascade Airlines to Pullman.

2. Other air arrangements:
airline _____, flight no. _____, date _____,
arrival time in Pullman _____ (a.m./p.m.)

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We _____ will be leaving Spokane on airline _____,
(no. of people)
flight no. _____, date _____, at _____ (a.m./p.m.),
after arriving in Spokane on a Cascade Airline shuttle flight from Pullman.

2. Other air arrangements leaving Pullman on Cascade flight no. _____, date _____,
at _____ (a.m./p.m.)

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

SYMPOSIUM: PHYTOCHEMISTRY OF CELL RECOGNITION AND CELL SURFACE INTERACTIONS

(This symposium will be published as Volume 15 of Recent Advances in Phytochemistry and will be available to PSNA members at a substantial discount, as are all other volumes of the series published annually by the Society.)

MONDAY, August 4 (morning)

Session 1. Symposium: Cell Recognition I. Bryan Hall, Leonard Beevers presiding.

L. Beevers, Call to Order 9:00 a.m.
G. Terrell, President, Washington State University, Welcome 9:00 a.m.

S-1 A. D. Elbein, The Structure and Biosynthesis of Lipopolysaccharides and Glycoproteins, 9:05 a.m.
S-2 I. J. Goldstein, Plant Derived Lectins, 9:35 a.m.
S-3 P. Albersheim, A. G. Darvill, M. McNeil, B. S. Valent, M. G. Hahn, B. Robertsen, & P. Aman, Structure and Function of Polysaccharides Active in Regulating Plant Microbe-Interactions, 10:05 a.m.
BREAK: 10:35 a.m.
S-4 J. E. Gander & C. J. Laybourn, Galactofuranosyl-Containing Lipoglycopeptide in Penicillium, 11:00 a.m.
S-5 L. M. Shannon & C. N. Hankins, Enzymic Properties of Phytohemagglutins, 11:30 a.m.

TUESDAY, August 5 (morning)

Session 11. Symposium: Cell Recognition II, Bryan Hall, Tsune Kosuge, presiding

T. Kosuge, Call to Order, 8:30 a.m.

S-6. P. J. Larkin, Plant Protoplast Agglutination and Immobilization, 8:30 a.m.
S-7. R. G. Brown & W. C. Kimmins, Recovery of Glycoproteins from Plant Tissues, 9:00 a.m.
S-8. M. H. Whatley & L. Sequeira, Bacterial Attachment to Plant Cell Walls, 9:30 a.m.
BREAK: 10:00 a.m.
S-9. A. E. Clarke & R. B. Knox, Pollen-Stigma Interactions, 10:30 a.m.
S-10. D. H. Janzen, Lectins and the Herbivore-Plant Interaction, 11:00 a.m.
S-11 D. McMahon, The Cell Surface and Pattern Formation, 11:30 a.m.

Report from the Executive Committee:

Tony Swain has resigned as Editor-in-Chief of the Phytochemical Society of North America. We would like to thank Tony for the excellent work he has done for the Society and look forward to his continued participation in Society affairs. The Executive Committee wishes to appoint a new Editor-in-Chief before the Pullman meeting to assist in the preliminary stages of the preparation of Vol. 15 of Recent Advances in Phytochemistry. If members have any suggestions who might be appointed to this important position please convey them to any member of the Executive Committee as soon as possible.

Request from the Executive Committee:

The Society is looking for meeting locations, symposium organizers and symposium topics. If you would like to make suggestions for any of the above, contact any member of the Executive Committee before their meeting (on August 4th at noon). We can then organize the suggestions for presentation at the annual business meeting.

2. PSNA annual meeting, 1981 *1981 Meeting*

of the

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

Date: *August 10-14, 1981*

Location: *Cornell University, Ithaca, New York*

Symposium Title: *CELLULAR AND SUBCELLULAR SPECIALIZATION IN PLANT METABOLISM*

General Topics	*Speakers*
Morphology of the Plant Cell	
1. *Cellular and subcellular morphology relating to plant metabolism.*	?
Cellular Metabolism	
2. *C_4 - Plant Photosynthesis*	*C. C. Black*
3. *Stomata*	*W. H. Outlaw*
4. *Synthesis and Degradation*	*E. E. Conn*
Subcellular Metabolism	
5. *Vacuoles*	*G. J. Wagner*
6. *Chloroplasts*	*S. C. Huber*
7. *Mitochondria*	*C. J. Leaver*
8. *Microbodies*	*A. B. Huang*

Specific titles will be published in advance of the Symposium

For further information contact the organizers:

L. L. Creasy
Department of Pomology
Cornell University
Ithaca, New York 14853

G. Hrazdina
Department of Food Science and Technology
Cornell University
Geneva, New York 14456

3. PSNA annual meeting, 1982: Probably early August, at the University of Ottawa, Ottawa, Canada. This meeting will be held jointly, we hope, with the Phytochemical Society of Europe (PSE). Preliminary discussions by mail have settled on a symposium topic either on "Plants and nutrition" or "Allelopathy". Stew Brown plans to meet with Chris van Sumere, Chairman of PSE, when he is in Great Britain in August for further discussions. Meanwhile, suggestions and opinions from the membership as to speakers and specific topics within the framework of the above topics are solicited by the organizers: Stew Brown, Thor Arnason, and Connie Nozzolillo.

4. PSNA annual meeting, 1983 and following: The Executive Committee is looking for meeting locations. Most University residences count on conferences for extra income. For example, the calling card of the conference cooridinator at Yale came across my desk. Is anyone at Yale interested in organizing a PSNA meeting???

REPORT OF THE TREASURER

1 January 1980

Despite our poor attendance at annual meetings, the membership and financial position of the Society are both strong. For the first time, PSNA membership has gone over 300. We ended 1979 with 307 members (290 regular, 17 student). We lost 13, but gained* 37 new members in 1979. Of the total, 241 are United States members, 34 are from Canada and 32 are foreign.

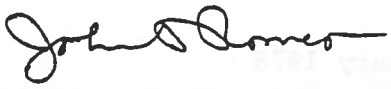
In the 1979 annual report included in this issue, you will note that our assets increased by $1,099.00. This is substantial--but considerably less than our $2,308.90 increase in 1978. The lesser amount is due largely to the fact that we have not yet received any royalties from Vol. 12 Recent Advances in Phyto-Chemistry which was published late. Also, we paid off the balance due on the 1978 Stillwater meeting which would normally have been paid in 1978, but was not because of a delayed final accounting by the meeting organizer. The cost to the Society for the 1979 DeKalb meeting ($1,223.00) was the lowest in recent memory. This was due largely to the fact that it was heavily subsidized by the DeKalb Agriculture Research Foundation.

I have invested some of our funds in six month high interest money market certificates in order to try and beat losses on our savings due to inflation. As a non-profit organization we have limited options, but this will help. The continuing significant royalty income from the Symposia volumes permits us to maintain our current low dues rate and also to support a major meeting each year with noted national and international speakers.

I greatly appreciate your assistance in promptly sending your dues and address corrections. The new 1980 directory reflects all those changes received by the end of January 1980.

Copies of all back statements and the auditor's report are on file. All your comments and criticisms are invited.

Respectfully submitted,



John T. Romeo, Treasurer
Department of Biology
University of South Florida
Tampa, FL 33620

* New members include: Wolfgang Hosel, Michael Gold, Jan West, Ramesh Shah, Kevin Spencer, Juana Nunez-Alarcon, Russell Molyneux, S.E. Moshier, J. van Brederode, Jacek Sliwowski.

We received notice from his sister, Elizabeth Kohler, that long-standing member Dr. William T. Gillis, Michigan State University, Department of Natural Sciences E. Lansing, Michigan passed away of a heart attack on June 20, 1979.

FINANCIAL STATEMENT

1 January 1979 - 31 December 1979

Receipts

Membership		
Regular	78	$ 48.00
	79	1940.60
	80	96.00
Student		64.80
	Total	$ 2149.40
Royalties		
Vol. 5-9		$ 208.39
Vol. 10		861.12
Vol. 11		887.00
Vol. 12 (late publication)		0.00
		$ 1956.51
Interest from Savings		$ 519.03
	Total	$ 4624.94

Disbursements

1978 Symposium (previous unpaid balance)	$ 730.00
1979 Symposium (Total)	1223.00
1980 Symposium (advance)	1000.00
Treasurer expenses	135.63
Secretary expenses (newsletter)	400.00
Foreign exchange debit (Canadian funds)	7.31
Auditor	30.00
Total	$ 3525.94

Summary

Total Receipts	$ 4624.94
Total Disbursements	3525.95
Net Gain	$ 1099.00

Assets 1 January 1978	
Checking	2,324.35
Savings	9,730.96
Total	$12,055.31

Assets 31 December 1979	
Checking	2,904.32
Savings	10,249.99
Total	$13,154.31

Net Gain for 1979 $1099.00

ANNOUNCEMENT

REVISED FOURTH EDITION HERBICIDE HANDBOOK PUBLISHED

The Weed Science Society of America announces the publication of the 4th Edition of the Herbicide Handbook. Information on herbicide efficacy, environmental effects, physical and chemical characteristics, toxicity and manufacturing are presented for 143 herbicides which are currently commercially available or in development. Twenty one new herbicides have been included in the 4th Edition. An extensive terminology section has been added to explain the vocabulary of weed science. The paper back text has 480 pages in a convienient 6 by 9 inch page size. The handbook will be of interest to agricultural and biological scientists, commercial pesticide manufacturers, applicators and dealers, and agricultural educators.

The Herbicide Handbook may be ordered, postpaid, by sending $7.50 (checks payable to Weed Science Society of America) to: Weed Science Society of America, 309 Clark St., Champaign, IL 61820.

wanted!

Biochemistry

Research associate in phytochemistry, to conduct research on biosynthesis in plant systems. Position initially for one year; renewable. Requires PhD, extensive experience in affinity chromatography, and reasonable publication record. Preference to applicants experienced in plant enzymology. Salary will be commensurate with qualifications and experience. Apply to Prof. S.A. Brown, Chemistry Department, Trent University, Peterborough, Ont. K9J 7B8 by July 15. Position available September, 1980.

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

NEWSLETTER 1980

Executive Committee 1979-1980

Dr. George Waller, Jr., Past-President
Department of Biochemistry,
Oklahoma State University,
Stillwater, Oklahoma 74074

Dr. Leroy L. Creasy, President
Department of Pomology,
Cornell University,
Ithaca. N.Y. 14850

Dr. Cornelius Steelink, President-elect
Department of Chemistry,
University of Arizona,
Tucson, Arizona 85721

Dr. John T. Romeo, Treasurer,
Department of Biology,
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Tampa, Florida 33620

Dr. Constance Nozzolillo, Secretary PSNA
Department of Biology,
University of Ottawa,
Ottawa K1N 6N5,
Ontario, Canada

First Class, Airmail
Première Classe, Par Avion

Dr. John T. Romeo
Biology Department
Univ. of South Florida
Tampa, FL 33620

PSNA Newsletter Sept 1980

EXECUTIVE COMMITTEE PSNA 1980 - 1981

Dr. Leroy L. Creasy
Past-President
Dept. of Pomology
Cornell University
Ithaca, N.Y. 14850
(607) 256-5438

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President
Dept. of Chemistry
University of Arizona
Tucson, Arizona 85721
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Dr. Constance Nozzolillo
President-elect
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Dr. Frank A. Loewus
Editor-in-Chief
Dept. of Agricultural Chemistry
Washington State University
Pullman, WA 99164
(509) 335-3413

The Phytochemical Society of North America is a non-profit scientific organization whose membership is open to anyone with an interest in the chemistry of plant products. Annual membership dues are $8.00 for regular members and $4.00 for student members. Annual meetings featuring symposium topics of current interest and contributed papers by conference participants are held throughout the United States, Canada, and Mexico. A newsletter is circulated to members several times a year to keep them informed of upcoming meetings and developments within the Society.

If you would like additional information about the PSNA or if you have material to be included in the newsletter, please contact the Society Secretary.

Minutes of the Annual Business Meeting of the PSNA, August 6, 1980, Pullman, WA.

The meeting was called to order about 4:15 p.m. by President Creasy. About 30 members were in attendance including the President-elect, C. Steelink, Secretary Nozzolillo, Treasurer Romeo, and Editor-in-Chief Loewus. Overlap of the PSNA meeting with that of the ASPP may have reduced attendance because of the conflict imposed by dual membership.

1. The Secretary summarized the minutes of the 1979 meeting which had been published in the September 1979 Newsletter. The availability of the new PSNA brochure was pointed out.

2. The Treasurer submitted his report, pointing out the $20,000 bank balance, some of which has been invested. The possibility of IRS intervention was discussed and discounted. An advance has been committed to the 1982 joint meeting in Ottawa.

3. The new Editor-in-Chief, Frank Loewus, was introduced by the President. He also announced that C. A. Ryan would be co-editor of Volume 15 of Recent Advances, and that a new contract had been signed with Plenum.

4. Report of the 1980 meeting - Jim Saunders, seconded by Jerry McClure (?), moved a vote of thanks to the organizer, Frank Loewus. The question of low membership attendance, as well as wide advertisement of the meeting to non-member scientists in the area, was discussed. For example, notices could be sent to local ASPP members. Ibrahim raised the question of attitude to non-members. Their participation in the symposia is O.K., but contributed papers must be sponsored by a member. McClure pointed out that members pay a lower registration and that this fact encourages non-members to join the Society. Various outlets for advertising the meetings were suggested: BioScience, CSPP Newsletter, ASPP Newsletter, Phytochemical Bulletin, Phytochemistry. Data on attendance for 1980 is still in the computer.

5. Report of membership survey - The Secretary summarized the results of the survey published in the December Newsletter (attached).

6. Future meetings - C. Steelink invited the Society to meet in Tucson, Arizona in 1983, with June suggested as the best time. Winter would also be good but is a bad time for academics. Walther spoke out in favor of Arizona and raised the question of car-pooling as a means of getting there. Loomis proposed that more emphasis be put on contributed papers, of which the 1981 notice, for example, makes no mention. Wender reminded everyone that contributed papers must be sponsored if given by a non-member. A major problem seems to be that abstracts are not published, even though such publication, as Walther pointed out, carries no weight with promotion committees etc. anyway.

7. Election of Officers - In the absence of the Chairman, G. Waller, R. Ibrahim presented the candidates put forward by the nominating committee:

for President-elect - C. Nozzolillo
for Secretary - S. Martin
for Treasurer - J. Romeo

Nominations from the floor were called for. G. Hrazdina, seconded by J. McClure (?) proposed the names of R. Mansell for President-elect, and J. Saunders for Secretary and J. Romeo for Treasurer. A vote by secret ballot resulted in election of C. Nozzolillo and J. Saunders to the posts of President-elect and Secretary, respectively.

The meeting adjourned about 5:30 p.m. before all in attendance had slipped out for dinner!

C. Nozzolillo

Summary of responses to the questionnaire published in the December 1979 Newsletter

# of respondents- 92; 63% from universities, 23% from government, 7% from industry and 5% from private institutions.
- 90% held a doctorate
- 41% chemists, 32% botanists, 27% biochemists.
- 81% U.S.A., 11% Canadian, 8% other.

Fields of interest (82 in all answered this)
- 44% secondary metabolites; phenolics (20), terpenoids (5), alkaloids (2), natural products (9), tobacco (1)
- 23% biology; chemotaxonomy (7), chemical ecology (7), pathology (1), genetics (4)
- 26% physiology and biochemistry; cryobiology (1), photobiology (1), seed physiology and growth (4), biosynthesis and enzyme mechanisms (8), cell culture (2), bioactive constituents (4), cancer (1)
- 7% wood chemistry

Duration of membership: 43% over 10 years, 24% 5-9 yrs., 33% 1-4 yrs.

Membership in other societies: "Many", or "etc" was the reply in a few instances, but over 100 societies were named. Only 21 of these were named by 3 or more PSNA members. The most popular are listed below:
- 44% American Chemical Society
- 26% American Society of Plant Physiologists
- 25% A.A.A.S.
- 19% Sigma Xi
- 18% American Soc. Pharm.
- 12% Bot. Soc. Amer.
- 6-9%: Chem. Soc. London, PSE, IAPTC
- 3-5%: AIBS, APS, SSPP, ASHS, SEB, CIC, NYAS, Econ. Bot., CSPP, AIC, ASPT

Meetings attended: 10 or more - 7%, 5-9 - 12%, 0-4 - 81%.

Factors influencing attendance (70 responses):	major	minor	no relevance
time of year (7 cannot in summer)	35%	45%	19%
conflict	49	30	21
topic of symposium	65	31	4
site (scenic interest requested)	49	30	21
length (2-3 days is O.K.)	2	48	51
funds	42	26	7

several suggested topics for symposia: medicinal plants (BEE), function of secondary metabolites (JWM), physiology of plant disease (SN), plant cryoprotectants (MS), relationship of biochemistry and physiology (CG), carcinogenesis (DH), in vitro secondary compound formation (PK), biosynthesis, enzymology, genetics of sec. comp. (DJA, SOD, JB, EL), sec. comp. in tissue culture (JB), chemotaxonomy (DMP, RW, DG, JAM), biochem. of plant growth and survival (BF), host-plant resistance (RS), fundamental areas (TJM, HAS), foliage chemistry (GB), chemical ecology (JGC, JN, JS, AW, RW), in addition to several mentions of natural products, phenolics, etc.

Joint meetings: 51% yes, 14% no, 35% indifferent.
ASP, ASPP, PSE, BSA, CSPP suggested

Associated tours and exhibits? (60 responses)

	Yes	No	Indifferent
Tour	53%	34%	14%
Exhibit	58	28	13

Award for young scientist's presentation? Yes - 52%, No - 25%, Indifferent - 23%

Comments were relatively few, as follows:

DLT - uses Recent Advances extensively in teaching, regards it as the major function of the PSNA.
JB - advise non-members of symposia, get stimulating speakers (EL also).
ER - prepare program on phytochemistry for undergrads, encourage them to attend symposia.
DG - meet with other groups whose major interest is natural products.
VLS - wants more status summary presentations.
JW - restrict meetings to university campuses, have a unifying topic.
DH - PSNA is too academic.
SAB - halt the trend to poster presentations.
WDL - more emphasis on contributed papers

C. Nozzolillo
August 1980

Interim Financial Report

1 January 1980 - 31 July 1980

Receipts

Membership dues	1965.30
Royalties	5875.39
Interest savings	448.47
	8289.16

Expenditures

Directories	381.22
Secretary expenses (Newsletter)	400.00
Treasurer expenses	154.73
Foreign exchange debit	4.05
Editor-in-Chief (Contract Negotiat.)	120.00
	1060.00

Summary

Receipts	8289.16
Expenditures	1060.00
Net Gain	7229.16

Assets - 1 January 1980

Checking	2,904.32
Savings	10,249.99
Total	13,154.31

Assets - 31 July 1980

Checking	4,306.20
Savings	16,077.27
Total	20,383.47

NOTES 1980

Total members	315 (270 paid)	USA	245
Student members	29 (21 paid)	Canada	36
		Foreign	34

Respectively submitted,

John T. Romeo

UpComing Meetings of Interest:

It has only been a month since we left the rolling hills of Pullman where the PSNA held a joint meeting with the American Society of Plant Physiologists; therefore news on the meeting may come as a surprise; however the meeting organizers are firming up plans concerning the 1981 meeting in Ithaca. The meeting will be held at Cornell University, August 10-14, 1981.

In addition to the Symposium on the Cellular and Subcellular Localization in Plant Metabolism, whose topics were published in the last Newsletter, five contributed paper sessions are planned in the following areas:

1. Chemotaxonomy and systematics (Phenolics, terpenoids, alkaloids, etc.).
2. Plant Enzymology
3. Plant Chemistry (isolation, identification, and reactions)
4. Plant Stress (insect, diseases, and environment)
5. Physiology and Ecology

There will also be (a) Poster Session(s) for those individuals who would like to present data in this manner. It was decided at the Pullman meeting that in order to facilitize student participation in the program, the Society will pay the registration of any student who would like to present a paper.

The social side of the meeting has also received considerable attention by the planners. The mixer is planned in Johnson Art Museum overlooking Ithaca and Cayuga Lake. Family activities, spouses program and an afternoon in the Finger Lakes region are all being planned. Housing facilities will be available on the campus, however, motels and campgrounds are also nearby.

For further information or suggestions contact:

Dr. Geza Hrazdina
Dept. of Food Science & Tech.
Cornell University
Geneva, N.Y. 14456
(315) 787-2285

Dr. Leroy Creasy
Dept. of Pomology
Cornell University
Ithaca, N.Y. 14853
(607) 256-5438

A joint meeting of the American Society of Pharmacognosy and the Society for Economic Botany will be held in Boston, Mass., July 12-17, 1981. A Symposium entitled "Plants and Their Products in the Service of Man" has been arranged. The plenary lectures will be as follows:

1.	Herbaria as Resource Centers	Peter Ashton, Harvard University
2.	Medicinal Plants in Third World Countries	Edward Ayensu, Smithsonian Institute
3.	Plants, Insects and Man - Their Interrelationships	Martin Jacobson, USDA, Beltsville
4.	Plants as Renewable Resources	Lambertus Princen, USDA, Peoria
5.	Current Status of the NCI Plant and Animal Product Program	John Douros, National Cancer Institute
6.	New Techniques in the Separation and Identification of Natural Products	Koji Nakanishi, Columbia University
7.	Chemistry of Alkaloids of Pharmacologic Significance	Maurice Shamma, Pennsylvania State Univ.
8.	Biosynthesis of Natural Products - An Overview of Current Problems	Richard Hutchinson, Univ. of Wisconsin Steven Gould, Univ. of Connecticut
9.	New Areas for Plant Product Research	Norman Farnsworth, Univ. of Illinois

A call for contributed papers and preregistration information will be sent out in January, 1981. For information concerning local arrangements, Dr. Robert F. Raffauf, College of Pharmacy, Northeastern University, Boston, MA 02115 should be contacted. Information concerning the scientific program is available from Dr. Geoffrey A. Cordell, College of Pharmacy, University of Illinois, P.O. Box 6998, Chicago, IL 60680.

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1981 - American Society of Plant Physiologists are meeting jointly with the Canadian Society of Plant Physiologists at Laval University, Quebec City, Canada, June 15-19.

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1982 - Annual Meeting of the PSNA to be held at the University of Ottawa in Ontario, Canada in August. There is a possibility that this meeting will be held jointly with the Phytochemical Society of Europe and the Symposium Topic will deal with some aspect of the "Phytochemistry of Food". Dr. Connie Nozzolillo at the Dept. of Biology, University of Ottawa, Ottawa K1N 6N5, Ontario, Canada, is currently accepting suggestions for symposium presentations and speakers. A precise symposium title will be announced as soon as Dr. Stewart Brown returns from Europe where he is canvesing the interests of the PSE.

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1982 - American Society of Plant Physiologists are meeting at University of Ill., at Champaign/Urbana, June 13-19.

1983 - Annual meeting of the PSNA to be held at the University of Arizona in Tucson, Arizona in June. Dr. Cornelius Steelink from the Dept. of Chemistry, University of Arizona, Tucson, Arizona 85721 (602) 626-2780, will be one of the organizers for this meeting, and he welcomes suggestions on symposium topics, and/or speakers. Suggested topics for symposiums have included: Biochemical Adaption to Stress; Immunochemistry in Plants; or Alleopathy. Other ideas should be forwarded to Dr. Steelink at your convenience.

News From Other Societies:

The Washington Section of the American Society of Plant Physiologists will have their fall meeting on October 15, 1980 (Wed.) with a banquet and presentation by Dr. Winslow Briggs at the National Arboretum. The subject of the presentation will be on the Recent Physiology and Biochemistry of Phytochrome and any interested parties are welcome. For additional information contact Dr. Gerald Deitzer at the Smithsonian Radiation Biological Labs, 12441 Parklawn Drive, Rockville, MD 20852 (301) 443-2316.

At the Annual Meeting of the American Society of Plant Physiologists at Washington State University, Pullman, WA, August 4-7, 1980, new officers were elected as follows:

PRESIDENT: Dr. Page W. Morgan, Plant Science Department, Texas A & M University, College Station, TX (assumes office October 1, 1980).
PRESIDENT-ELECT: Dr. John S. Boyer, USDA/SEA, Dept. of Botany, University of Illinois (assumes office October 1, 1980).
MEMBER OF EXECUTIVE COMMITTEE: Dr. Charles J. Arntzen, Director MSU/DOE Plant Research Laboratory, Michigan State University, East Lansing, MI (assumes office October 1, 1980).
TWO CORRESPONDING MEMBERS WERE ELECTED:
Dr. T. W. Goodwin, Johnston Professor of Biochemistry
Department of Biochemistry
The University of Liverpool
and
Dr. Paulo de T. Alvim, Scientific Director
Centro de Pesquisas do Cacau
Itabuna Bahia
Brazil

Society Awards were given as follows:

STEPHEN HALES PRIZE AWARD to Professor N. Edward Tolbert, Department of Biochemistry, Michigan State University, East Lansing, MI.

CHARLES F. KETTERING AWARD for Excellence in Photosynthesis - The award was shared by three scientists: Dr. Hugo Kortschak, Hawaiian Sugar Planters Association, Dr. M. D. Hatch, Division of Plant Industry, CSIRO, Canberra City, Australia, and Dr. C. R. Slack, D.S.I.R., Palmerston North, New Zealand.
CHARLES REID BARNES LIFE MEMBERSHIP AWARD to Professor J. B. Hanson, Department of Botany, University of Illinois, Urbaba, IL.

Information on Grants:

The USDA Competitive Grants Program is tentatively planning to be operating again in 1980-81 with approximately the same funding as the previous years. Research proposals in the four areas of Biological Stress, Photosynthesis, Nitrogen Fixation, and Genetic Mechanisms, will be considered for funding for periods of 1-3 years. As yet Congress has not appropriated the necessary funds for the program; however, the Competitive Grants Office anticipates that the funds will be forthcoming by October 1, 1980. Nominations for reviewers in the four areas are welcome and the tentative deadline for submission of grant proposals is scheduled for December 1, 1980. Additional information may be obtained from Dr. David Krogmann at the Competitive Grants Research Office, Commonwealth Building, 1300 Wilson, Arlington, VA 22209 (703) 235-2630.

News from Society Members:

PSNA welcomes and following new members:

Dr. John Ohlrogge, 1815 North University St., Northern Regional Center, USDA, Peoria, Ill 61604 (309) 685-4011 X 371 (Interests in natural product metabolism, lipids).

Ms. Mary L. Reider, Dept. of Botany & Microbiology, 770 VanVleet Oval, University of Oklahoma, Norman, OK 73019 (405) 325-3174 (Interests in compartmentation, localization).

Mr. Gary Leonard Cave, Dept. of Entomology, 402 Life Science Building, Louisiana State University, Baton Rouge, LA 70803 (504) 388-1634.

Dr. Jorge D. Coussio, Facultad de Farmacia y Bioquimica, Catedra de Farmaxognosia, Universidad de Buenos Aires, Jun in 956, 1113-Capital Federal, Republica Argentina (84-7631)

Ms. Suzanne M. Harley, Thimann Labs, Univ. of California, Santa Cruz, CA 95064 (408) 429-2046.

Dr. R. E. Howarth, Research Station, Agric. Canada, 107 Science Crescent, Saskatoon, Sask., Canada S7N OX2 (306) 343-8214.

Mr. Konrad M. Kuzmanoff, Dept. of Botany, The Ohio State University, 1735 Neil Ave., Columbus, OH 43210 (614) 422-0238.

Mr. Timothy J. Mulkey, Dept. of Botany, The Ohio State University, 1735 Neil Ave., Columbus, OH 43210 (614) 422-0238.

Dr. W. David Nes, U. S. Department of Agriculture, 800 Buchanan St., Berkeley, CA 94710 (415) 486-3683.

Dr. C. Michael Smith, Dept. of Entomology, Louisiana State University, Baton Rouge, LA 70803 (504) 388-1634.

Dr. Sheri J. Tonn, Dept. of Chemistry, Pacific Lutheran University, Tacoma, WA 98447 (206) 531-6900, X 240.

Dr. Pear P. Ueng, Lorre, Potter Center, Purdue University, W. Lafayette, IN 47907.

Positions Open:

All positions listed below are equal opportunity jobs unless otherwise noted:

Postdoctoral Position: Research
Biochemist to work on carbohydrate interconversions in higher plants. Send Curriculum Vitae or contact the following for more information:

Dr. Frank Loewus
Institute of Biological Chemistry
Washington State University
Pullman, Washington 99164
(509) 335-3413

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Graduate Research Assistantship (Ph.D.): Available August 1, 1980. Stipend is $6,200 per 12 months. The research will be in the general subject area of relationships between carbon and nitrogen metabolic processes during the development of soybeans. Specific research topics include: 1) comparative physiology of soybean nodules formed by Rhizobium strains with different N_2-fixation capabilities, 2) development of carbon and nitrogen budgets for nodulated soybeans during vegetative and reproductive growth stages, 3) biochemistry of synthesis and utilization of the nitrogen transport forms (allantoin and allantoic acid) by nodulated soybean plants. Interested candidates are requested to contact Dr. D. W. Israel, Soil Science Department, North Carolina State University, Raleigh, NC 27650. Please forward transcripts, two letters of recommendation, and a brief description of research interests.

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A Graduate Research Assistantship is available for January 1981 in the Fruit Crops Department at the University of Florida to study physiological interactions between endomycorrhizae and blueberries under field and laboratory conditions. Emphasis will be placed on the role of mycorrhizae in water and ion uptake. Applicants should have a strong background in plant physiology, plant pathology or mycology. Interested persons should contact: Dr. F. S. Davies, Department of Fruit Crops, 1143 HSPP, University of Florida, Gainesville, FL 32611 (904) 392-4711.

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Graduate Assistantships: Fruit Crops, University of Florida, Gainesville; M.S. and Ph.D. ; research areas: abscission, plant breeding, water relations, dormancy, cold hardiness of peaches, blueberries, citrus and tropicals, and plant-environment interactions. Appointments are on a 12-month basis, 1/3-time, M.S. $5,000, Ph.D. $5,500. Contact Dr. D. W. Buchanan, Fruit Crops Department, 1143 HS/PP Building, University of Florida, Gainesville, FL 32611 (904) 392-4711.

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Postdoctoral Research Associate: To study the phytochrome mediated light regulation of the mRNA levels and synthesis of the chlorophyll a/b binding protein and the small subunit of RuBP carboxylase. Some experience with recombinant DNA and general nucleic acid techniques is desirable. Please send a Curriculum vitae and the names of references to Dr. Elaine Tobin, Dept. of Biology, UCLA, Los Angeles, CA 90024.

RESEARCH BIOLOGIST (Plant Physiologist): Research project concerned with photosynthetic and photorespiratory carbon metabolism, including whole plant physiology and biochemical studies. This position may also entail some field work. Applicants should have a M.S. degree with research experience in some area of plant physiology/biochemistry, preferably photosynthesis. Starting salary $12,600 (12 months). Send c.v., transcripts and three letters of recommendation to Dr. George Bowes, Department of Botany, 3157 McCarty Hall, Gainesville, Florida 32611.

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Two postdoctoral research associate positions are available immediately to work on 1) Isolation and characterization of "nodule-specific" host genes, 2) Role of plant hormones in regulation of host genes involved in symbiotic nitrogen fixation. Candidates must have experience in the area of nucleic acids and/or protein synthesis. Please contact: Dr. D.P.S. Verma, Biology Department, McGill University, 1205 Avenue Docteur Penfield, Montreal, H3A 1B1, Canada, Phone (514) 392-8246.

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Postdoctoral research associate to carry out research on sieve tube physiology, with emphasis on electrophysiology and membrane transport. The work is part of a project concerning the use of phloem-feeding insects for the investigation of phloem physiology. Salary: $13,000 first year, with funds available for two years' support. Available October 15, 1980 or later, but no later than January 1, 1981. Closing data October 1, 1980. Send a letter of application, available reprints or manuscripts, curriculum vitae and three letters of recommendation to Donald B. Fisher, Department of Botany, Washington State University, Pullman, WA 99164.

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Postdoctoral Research Associate. Individual will conduct research on the partitioning and utilization of nitrogen in alfalfa plants with normal and ineffective nodules during different growth stages using $^{15}N_2$ and $^{15}NO_3$. A Ph.D. in plant physiology or a closely related field is required. Experience with legume plants would be helpful. Applications for one year, renewable, will be received until November 15, 1980 or until a suitable candidate is selected. Salary range is $14,000 to $16,000 per year. Send resume, list of publications and three letters of reference to: Dr. C. P. Vance, Department of Agronomy and Plant Genetics, the University of Minnesota, 1509 Gortner Ave., St. Paul, MN 55108.

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Postdoctoral Positions in Biochemistry: Two positions will be available beginning between 1 November 1980 and 1 January 1981 for research related to: (1) structure-function relationships in microbial and higher plant RuBP carboxylase/oxygenase; and (2) photosynthetic/photorespiratory carbon metabolism in C_3-C_4 intermediate species. Qualifications include: (1) a Ph.D. in microbiology, biochemistry or a related field with at least some experience in microbial enzymology. Previous experience (graduate, postdoctoral) with RuBP carboxylase/oxygenase is highly desirable; and (2) a Ph.D. in plant biochemistry, plant physiology or a related field with at least some experience in photosynthetic carbon metabolism. Previous experience (graduate, postdoctoral) with isolated leaf cells, protoplasts and organelles is highly desirable. $12,000 to $14,000 per year, for 2-year position.

Send resume and names of three references by December 1 to: Dr. T. Chollet, Department of Agricultural Biochemistry, University of Nebraska, Lincoln, NE 68583 (402) 472-2936.

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Postdoctoral Position: Starting October 1, 1980 for 2 years only under a USDA/SEA Special Research Grant. Research on the biochemical mechanism of tolerance to phytophthora root rot in soybeans. Experiments will include bioassays for glyceollin and other antifungal materials, separation and analysis of compounds using thin-layer chromatograph, and use of carbon-14 radioisotopes to study the breakdown of antifungal metabolites in tolerant soybeans. Applicants should hold a Ph.D. degree in plant breeding and genetics, plant physiology, plant pathology, or biochemistry. Starting salary is $15,504 plus benefits. Contact: Dr. A. K. Walker, Department of Agronomy, Ohio Agricultural Research and Development Center, Wooster, Ohio 44691 (216) 264-1021, Ext. 191.

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Postdoctoral Research Associate: A plant physiologist/biochemist to work on the isolation, purification and characteristics of several of the enzymes involved in the biosynthesis of the aspartate family of amino acids in developing maize endosperm tissue. Applicant must have a Ph.D. with a strong background in enzyme isolation, purification and kinetic analysis. The appointment is for one year, renewable, with a preferred starting date of September 1980. Applicants should submit curriculum vitae, and three letters of reference to Dr. Randolph R. Henke, University of Tennessee/Department of Energy, Comparative Animal Research Laboratory, Oak Ridge, TN 37830 (615) 576-4000 or 4050, FTS 626-4000.

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Postdoctoral Research Associate: Position available 1 September 1980 for one year with possibility of renewal. Plant growth hormone biochemist, experience in GA biochemistry preferred. Salary is negotiable depending on experience. Contact: Professor S. N. Visscher, Department of Biology, Montana State University, Bozeman, MT 59715 (406) 994-2040 or 994-4548.

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Assistant Professor of Seed Science: Geneva, New York. Appointee will spend 85% of his time conducting research on seed quality, germination, seedling emergence and field performance. Ph.D. required in agronomy, botany, crop science, horticulture or plant physiology. Postdoctoral experience desirable. Salary is competitive, commensurate with qualifications. Application deadline is 1 January 1981. Send currivulum vitae, transcripts and names and addresses of at least 3 references to: M. T. Vittum, Dept. of Seed and Vegetable Sciences, NYS Agr. Exp. Station, Geneva, NY 14457 (315) 787-2217.

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University of Wisconsin-Madison - The Department of Biochemistry invites applications for the position of Assistant Professor in plant biochemistry. Areas of interest include, but are not limited to, photosynthesis, plant development and nitrogen metabolism. Responsibilities will include teaching, supervision of graduate students and development of an independent research program. Salary will be on a 12-month basis; it will be commensurate with the experience of the candidate and compatible with the salary structure of the University of Wisconsin System. Send curriculum vitae, and statement of research interests to: H. F. DeLuca, Department of Biochemistry, University of Wisconsin, Madison, WI 53706, before November 31, 1980. Applicants should have 3 letters of recommendation submitted to the same address.

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Department of Biochemistry, Purdue University, invites applications for a tenure-track position at the Assistant Professor level in the area of plant molecular biology and gene transfer technology. Candidates must have significant post-doctoral experience in the field and will be expected to develop a strong research program in addition to classroom teaching at the graduate or undergraduate levels. Applicants should include vitae, a brief description of past, on-going and proposed research, and the names and addresses of 3 or 4 individuals well acquainted with the applicant's research and teaching abilities. Applications should be addressed to: Dr. Don M. Carlson, Head, Department of Biochemistry, Purdue University, West Lafayette, IN 47907. Deadline for submission is 11-15-80.

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Professor and Head, Department of Plant Sciences. The person in this position provides administrative direction of the academic and research programs of the department and statewide leadership and coordination of Extension and Experiment Station programs in physiology and pathology. Applicant should have a Ph.D. or equivalent and professional experience in research and education in plant physiology, genetics, molecular biology, plant health sciences, or related area. Current curriculum vitae and names of at least three references should be sent to: Dean H. O. Kunkel, College of Agriculture, Texas A&M University, College Station, TX 77843.

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Plant Physiologist. Assistant faculty level beginning 1 January 1981 in botany, Washington State University. Position: 75 percent research, 25 percent teaching with emphasis at the graduate level. Candidates must have a Ph.D. with training in physiology and biochemistry of photosynthesis. Send curriculum vitae and three letters of reference by 1 October 1980 to: G. E. Edwards, Department of Botany, Washington State University, Pullman, Wash. 99164.

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Horticulturist/Plant Breeder. A newly established lectureship in the Department of Botany starting February 1981. Teaching responsibilities to be determined by candidates' field of expertise. The role will include development of contacts with rapidly expanding horticultural industry in and around Auckland and the pursuit of an active research programme. Applicants should have a Ph.D. Applications

close 29 August 1980. Contact Professor P. H. Lovell, Department of Botany, University of Auckland, Private Bag, Auckland, New Zealand for further details.

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Pomologist/Plant Physiologist Position. Tenure Track position in the Department of Pomology, U.C. Davis, at the Assistant or Associate level. Appointment is 100% research. A Ph.D. in an area of Plant Science is required and experience with tree fruit crops and/or interest in perennial fruit species is desired. Appointee will be stationed at the University of California Horticultural Field Station, near Fresno. Applicants should submit a curriculum vitae with a list and reprints of pertinent publications, thesis summary, undergraduate and graduate transcripts, and the names and addresses of three references to: Dr. Adel A. Kader, Search Committee, Department of Pomology, University of California, Davis, CA 95616, by October 15, 1980.

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USDA-University of Illinois. The USDA Photosynthesis Research Unit at Urbana will have a position available 1 October 1980. Our research is directed toward elucidating basic mechanisms of rate-limiting processes in photosynthesis. This position will be located in the Department of Botany, School of Life Sciences, and is expected to be filled at the assistant or associate professorial level, although senior scientists will be considered. Interested candidates should send a curriculum vitae, brief statement of research interests and goals, and three letters of reference to: Dr. W. L. Ogren, Research Leader, USDA/SEA, S-218, Turner Hall, University of Illinois, Urbana, IL 61801.

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Assistant Professor. Department of Agronomy, University of Missouri - Columbia to work with soybean and oil seed crops. Ph.D. in plant breeding. The individual selected will be expected to carry out the soybean building program for all Missouri. Teaching responsibilities are beginning and advanced plant breeding courses. Send a letter including a curriculum vitae, college transcripts, and have 3 individuals send letters of reference on your behalf, to Dr. Harry C. Minor, Chmn., Search Committee, Department of Agronomy, Univ. of Missouri, Columbia, MO 65211.

Discount on Symposium Volume:

The membership is reminded that they will receive a 40% discount on the price of the Recent Advances in Phytochemistry. Listed below are detailed prices and order forms.

If you have any items of interest such as grant information, news of members, job openings, etc., to be included in the next Newsletter, please send them to the Society Secretary.

PHYTOCHEMICAL SOCIETY OF NORTH AMERICA

DEPARTMENT OF BIOLOGY • UNIVERSITY OF SO. FLORIDA • TAMPA, FLORIDA 33620

JOHN T. ROMEO

Treasurer

APPLICATION FOR MEMBERSHIP

Date: _____

Name: (Dr., Mr., Mrs., Miss) _____

Mailing Address
(with Zip Code) _____ Telephone: _____

_____

_____

_____

Class of Membership Desired and Annual Dues (U.S. Funds): Regular ($8.00) _____

Student ($4.00) _____

Field of Interest: _____

_____

_____

Make check or money order payable to PHYTOCHEMICAL SOCIETY OF NORTH AMERICA and send with this application to the Treasurer at address above.

Dr. James A. Saunders
Secretary, Phytochemical Society of North America
Tobacco Laboratory, USDA
Bldg. 001, Rm. 107
Beltsville, MD 20705 USA

SEND TO: