

ASP NEWSLETTER

Volume 23, Number 3

Fall, 1987



Monroe E. Wall

MONROE E. WALL NEW HONORARY MEMBER

Honorary membership was bestowed upon Monroe E. Wall at the 28th Annual Meeting of the American Society of Pharmacognosy. Dr. Wall's career has spanned 50 years since his graduate student days, having received his B.S. in Chemistry from Rutgers University in 1936, his M.S. in Chemistry and Ph.D. in Agricultural Biochemistry also from Rutgers in 1938 and 1939 respectively.

Shortly after his graduation in 1939, Monroe Wall joined the Eastern Regional Research Laboratories of the U.S. Department of Agriculture where he remained until 1960. At that time, he joined the newly formed Research Triangle Institute where he rose through the ranks until he became the Chief Scientist at RTI in 1983. He is presently in that position which is highly research oriented.

Dr. Wall's distinguished career in natural products research includes work in isolation, characterization, synthesis, metabolism, and pharmacology of those substances.

Continued on Page 2, Column 1



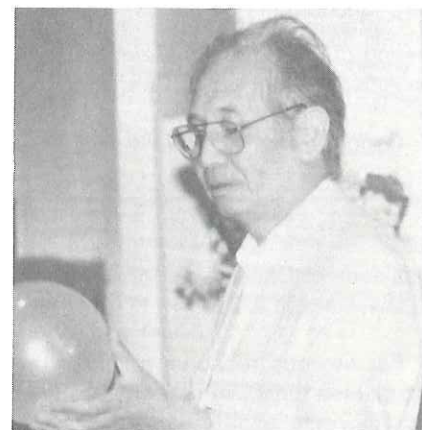
President McChesney Receives Gavel

PRESIDENT JIM "MCCHESKY" RECEIVES GAVEL

Normally Dave Slatkin and I feel like heavyweights, but this year in dealing with Jim, we're definitely lightweights! Now that something has bothered us just a little, but it has not intimidated us unnecessarily.

Normally I would say that it is a pleasure to come before you and address the microphone on an occasion like this, but such is not the occasion with me this evening. I am here on messy business; I am here out of a sense of dedication and duty; the Founding Fathers of the Society established a system of checks and balances. I am representative of the key committee in this process, a committee that Presidents do not appoint, a committee that President "McChesky" tried very hard to suppress, unsuccessfully. The sole responsibility of this nefarious committee which presidents find so frightening is the **objective** assessments of the qualifications and accomplishments of the Society's leader.

Continued on Page 2, Column 2



Koji Nakanishi "It's absolutely innocent!"

ASP 28th ANNUAL MEETING IS A SUCCESS!

The 28th Annual Meeting of the American Society of Pharmacognosy was held July 19-22, 1987 at the University of Rhode Island in Kingston, Rhode Island. A stimulating symposium was presented on the subjects of "Drugs from the Ocean," and "Modern Approaches to Folk Medicine."

In addition to the symposium, there were approximately 120 papers presented in the podium and poster sessions on the various aspects of natural products research.

The social events of the 28th annual meeting were remarkable. The local program committee provided a clam bake which was delicious. There was an abundance of clams and lobsters; Nobody went away from that feast hungry!!

The annual banquet was quite memorable, also, with the presentation of Honorary Membership to Monroe E. Wall as well as the presentation of the awards and grants to the various recipients. The recipients are as follows:

Continued on Page 2, Column 3

Monroe E. Wall - Continued from Page 1, Column 1

His areas of expertise include the carotenoids, steroidal saponins, antitumor agents such as the captothecin series, and recent work on the

pharmacological agents of marijuana and its metabolism.

During his remarkable career, Dr. Wall has published approximately 250 scientific papers on the various topics listed previously.

Certainly Dr. Monroe E. Wall is deserving of the Honorary Membership in the American Society of Pharmacognosy.

Congratulations Dr. Wall!

President McChesky - Continued from Page 1, Column 2

For obvious reasons, much of the committees functions requires absolute secrecy. Be assured however, that there are no covert activities; we do not have an Ollie North; but the identity of only two committee members can be revealed. Norman Farnsworth is the shy, retiring type, so he handles most of the **inside** operations. And I serve as "Mr. Outside," for disclosure of selected data. We must condemn, but in retrospect we can comprehend, President "McChesky's" efforts to impede our investigation and particularly for his depriving us of the adequate resources to conduct our investigation. You must realize that most of our investigations must be conducted in typical allegedly smoke-filled rooms, and Treasurer Slatkin has appropriated my cigar for the occasion, but I must indicate that we did not receive a **single** cigar from the President's office for our activities this year.

We, however, do have some evidence to report. We can indicate, for example, that President "McChesky" is a person, with a catfish taste in a society that is lobster oriented. As part of our investigations we did obtain Jim's secret recipe for converting chicken entrails into catfish bait but social sensitivities precludes disclosure of details at this time. Those catfish fishermen in the crowd will appreciate the significance of that.

One question that arose early in our discussion was the motivation for Jim's

move several years ago from the University of Kansas to the University of Mississippi. The impression was that there was some question about the uncertainty or even the legitimacy of his appointment at Kansas. Those people at Mississippi might want to take note. Various titles were suggested as appropriate for the designation of his position at Kansas. We were unable to determine the most factual of these designations, but we can report that upon his departure from the University of Kansas they did retire their "shaft award." Now when he left Kansas, it might be significant for you to note, that he went to assume the management of a marijuana farm in Mississippi.

No one questioned during any of our investigations, Jim's attention to business. It was just a question of **which** business. We do recognize that he is the star of a named softball team in Mississippi, and it's even rumored that he has aspirations for controlling a whole league. Presumably under the same clan name.

A symbol of authority in the Society is a gavel, made of the lignified vessel elements of *Rhamnus purshiana*. Now the species was very carefully selected; it is a species that is legendary for its ability to move mountains, or constipated water buffalo, not necessarily in that order. It is creed of the Society that catharsis is good for the soul, for the body and soul. Now it is obvious that in President "McChesky" we have a lot of body. Jim, this replicate gavel made of cascara wood is being presented to you as a memento of the past year and this ritualistic cleansing. You will note that it does have an attached string leading to Harry Fong. This is either an umbilical cord or an old oriental tradition. Thank you.

Recorded for the record by Lynn Brady.

BOOKS OF INTEREST

Les Herbes, Les Arbres, Les Peuples, Leurs noms: comparaisons et correlations, Pierre Garnier, Librairie Maloine, 27, rue de l'Ecole-de-Medecine - 75006 Paris, 464 pages, 1987.

Mammalian Cytochromes P-450, F. Peter Guengerich, Editor, CRC Publications, Inc., 2000 Corporate Boulevard, N.W., Boca Raton, Florida 33431 Phone: (305) 994-0555, 484 pages, 1987. Two volume set, \$245.00.

Annual Meeting - Continued from Page 1, Column 3

1. Research Starter Grants
Steve Cheatham,
University of Toledo
Roy K. Okuda
University of Rhode Island
2. Travel Grants for Active Members
Manuel F. Balandrin
Salt Lake City, Utah
3. Travel Grants for Graduate Students
Mrs. Hiranthi Jayasuriya
University of Mississippi
Mr. Alex R. Jurgens
University of Mississippi
4. Undergraduate Research Awards
Michael Ruberto
Stevens Institute of Technology
Advisor: A.K. Bose
Jane E. Stacklin
University of Pittsburgh
Advisor: David J. Slatkin

The entertainment for the evening was a magic show performed by Koji Nakanishi which was wonderful!

The weather for this year's annual meeting was unique for Rhode Island consisting of temperatures in the high 80's and 90's. This made it uncomfortable for those who stayed in the unair-conditioned dormitories. Also, some of the classrooms which were used for the sessions were rather warm, so windows were opened. This led to the addition of bats to the audience in some instances.

The Scientific Program Committee (Yuzuru Shimizu, Chairman, Roy K. Okuda, John P. Rosazza, Cedric J. Pearce, and Geoffrey A. Cordell), the Local Program Committee (Leonard R. Worthen, Chairman, Ching-Shih Chen, Heber W. Youngken, Jr., Mostafa M.M. Omar, and E. Paul Larrat), and the Spouse's Program Committee (Betty Worthen, Hiroko Shimizu, and Woan-Ru Chen) are to be commended on the fine annual meeting!

OBITUARY

Dr. Karlis Kazerovskis passed away on June 21, 1987 in St. Petersburg, Florida. He taught pharmacognosy at Ferris State College, Mich. from 1949 to 1975 and was a long-time member and friend of the Society. He is survived by his wife.

ASP AWARDS AND GRANTS PROGRAM FOR 1987 ANNOUNCED

To stimulate interest in all phases of natural products research, the American Society of Pharmacognosy is offering the following awards and grants:

1. Research Starter Grants:

Members of the Society who are within the first five years of assuming their first professional position are eligible for a grant of \$2000 to \$5000 to aid in their research. These grants will not provide overhead monies to the grantee institution. Applications are due February 1, 1988.

2. Travel Grants for Active Members:

Members of the Society who are within the first five years of assuming their first professional position are eligible for a grant of \$300 to \$500 to enable them to present a paper at an annual meeting of the Society. Applications are due May 1, 1988.

3. Travel Grants for Graduate Students:

Graduate students under supervision of a Society member are eligible for a grant of \$300 to \$500 to enable them to present a paper at an annual meeting of the Society. Applications are due May 1, 1988.

4. Undergraduate Research Awards:

Undergraduate students interested in investigating a career in natural products research are eligible for a research award to study under the direction of a Society Member on the faculty of an American college or university. These awards (\$2000 to the student and \$500 to the advisor) do not provide overhead monies to the grantee institution. The research project is to be accomplished in a summer during the student's academic program leading to the B.S. or Pharm.D. degrees. Applications are due February 1, 1988.

Address inquiries and requests for application information to:

Chris M. Ireland, Ph.D.
Chairman, Awards Committee
Am. Society of Pharmacognosy
College of Pharmacy
University of Utah
Salt Lake City, Utah 84112 U.S.A.

ASP RESEARCH AWARD ANNOUNCED

Nominations for the 1988 ASP Research Award are now being received. Candidates must be members of the Society who have made significant contributions to natural products research. The first winner of this award in 1985 was Professor Koji Nakanishi.

Nominations should be sent to Dr. David G.I. Kingston, Department of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061, U.S.A. Nominations should consist of a letter of recommendation, a curriculum vitae of the candidate, and the names of 3-5 individuals who are familiar with the candidate's accomplishments. In order to be considered for the 1988 award, nominations must be received in Blacksburg before November 1, 1987.

FUTURE MEETINGS

Future ASP Meetings

1988 - July 17-21 "International Research Congress on Natural Products" Joint meeting between the ASP and the Japan Society of Pharmacognosy - University of Utah. The theme will be "New Directions and Methods in Natural Products Research"

1989 - August 6-10 University of Puerto Rico

1990 - Last half of September - Joint meeting with the Gesellschaft Fur Arzneipflanzenforschung, University of Bonn, West Germany.

American Association of Pharmaceutical Scientists Future Meetings

Third Annual Meeting, October 30-November 4, 1988, Orlando, Florida

Fourth Annual Meeting, October 22-27, 1989, Atlanta, Georgia

Phytochemical Society of Europe Future Meetings

"Amines in Plants," University College, London, U.K., December 21-22, 1987. For information contact: Prof. G.R. Stewart, Department of Botany, Birkbeck College, University of London, London WCI 7HX, U.K.

Sixteenth International Symposium on the Chemistry of Natural Products: Kyoto, Japan, May 29-June 3, 1988. (Under the auspices of the International Union of Pure and Applied Chemistry. The program will include: (1) Marine natural products, (2) Chemical communication between bioorganisms, (3) Molecular recognition in natural products, and (4) Computer use in natural product chemistry. For further information contact: Professor Isao Kitagawa, General Secretary, Sixteenth International Symposium on the Chemistry of Natural Products, c/o The Chemical Society of Japan, 1-5 Kanda-Surugadai, Chiyodaku, Tokyo, 101, Japan.

American Association of Colleges of Pharmacy Future Meetings

89th Annual Meeting, July 31-August 3, 1988, Chicago, Illinois

90th Annual Meeting, July 9-12, 1989, Portland, Oregon

Other Meetings of Interest

XIth Conference on Isoprenoids, Prague, Czechoslovakia, October 4-11, 1987. For further information: Dr. Ladislav Kohout, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Flaminio nam. 2, 166 10 Prague 6, Czechoslovakia.

Initial meeting of the Sociedad Latinoamericana de Fitoquímica, Montevideo, Uruguay, November 15-22, 1987. For details contact: Dr. Patrick Moyna, University de la Republica, Facultad de Química, Gral. Flores 2124, Casilla de Correo 1157, Montevideo, Uruguay or Sociedad Química del Perú, Av. Nicolas de Arambar 696, Santa Beatriz, Apartado 891, Lima 100 - Peru. Telephone: 72 39 25.

International Workshop on Tissue Culture and Biotechnology of Medicinal and Aromatic Plants, December 7-9, 1987, Central Institute of Medicinal and Aromatic Plants, Lucknow, India. Address inquiries to: Dr. R.S. Thakur, Chairman, Organizing Committee, International Workshop on Tissue Culture and Biotechnology of Medicinal and Aromatic Plants, Central Institute of Medicinal and Aromatic Plants (CIMAP), Post Bag No. 1, RSM Nagar Post Office, Lucknow - 226 016, India. Phone: 75088 or 71170, Gram: Medplants, Lucknow, India. Telex: 0535-298.

Continued on Page 6, Column 3

NEW MEMBERS

The ASP is pleased to welcome the following new members:

New Full Members:

D.V.C. Awang
Bureau of Drug Res., Ottawa

Bill Baker
Rice University, Houston

David Ben-Bassat
Jerusalem, Israel

P.H. Biermasz
Netherlands

Rosanne Bonjouklian
Eli Lilly & Co., Indianapolis

David M. Brandenburg
Brooklyn Botanic Garden, N.Y.

Lois M. Browne
The University of Alberta

Armando Caceres
Guatemala City, Guatemala

J.L. Rios Canavate
Universidad de Valencia, Spain

Peter Carmeci
Potomac, Maryland

T.E. Chagwedera
University of Zimbabwe

Ching-Shih Chen
University of Rhode Island

Hong-Nong Chou
National Taiwan University

Carsten Christophersen
University of Copenhagen

S.F. Dossaji
Nairobi, Kenya

Claude Dufresne
Tempe, Arizona

Rudolf Endress
University of Hohenheim

Dalton F. Faulkner
Freetown, Sierra Leone

Jan Gliński
Ridgefield, Connecticut

James B. Gloer
University of Iowa

Arthur Goldberg
Long Island University

Sandra June Hofstead
Wallingford, Connecticut

Tom G. Holt
University of Illinois

Brenwyn G. Hughes
Murdock International, Utah

Kristin Ingólfssdóttir
University of Iceland

C.S. Rukmani Iyer
Indian Institute of Technology

Roger Kalbermatten
Roggwil, Switzerland

Yoshito Kishi
Harvard University

Takao Konoshima
Kyoto Pharmaceutical Univ.

Masanori Kuroyanagi
Shizuoka College of Pharmacy

Sohail Malik
Stanford University

Guido Marcelle
St. Georges, Grenada

H.H. Mathur
Indian Institute of Technology

Leonard A. McDonald
Wallingford, Connecticut

M.S.R. Murthy
TTK Pharma Limited, India

A. Nahrstedt
Institut für Pharm., FRG

Benjamin Noamesi
University of Lagos, Nigeria

Szabolcs N. Nyiredy
Swiss Federal Institute of Tech.

P. Pachaly
University of Bonn, FRG

Luis M. Pena-Rodríguez
North Carolina State University

Deborah Roll
University of Utah

Ikram M. Said
Universiti Kebangsaan Malaysia

Gino M. Salituro
Merck and Company

Daniel Schaufelberger
Arizona State University

Yusei Shiraga
Alpha Ther. Corp., Los Angeles

Fabio Soldati
Lugano, Switzerland

Virgil Stenberg
University of North Dakota

Joachim Stockigt
University of Munchen, FRG

W.G. van der Sluis
Culemborg, Nederland

Victoria Toro Sainz
Sevilla, Spain

Anthony J. Verbiscar
Sierra Madre, California

Dieter Von Engelmann
Gouvieux, France

Noemi Waksman de Torres
Col. del Valle, N.L., Mexico

L.K.G. Wickramasinghe
University of Kelaniya, Sri Lanka

Terry Willard
Calgary, Alberta, Canada

John S. Williamson
Yale University

Toshio Yokio
Kobe-Gakuin University, Japan

New Associate Members:

Farid Badria
University of Mississippi

Michael Bailey
University of Mississippi

Abdel-Azizi Mahmoud Dawidar
Mansoura University, Egypt

Forrest E. Gaul
University of Maine

Yuhua Hui
Purdue University

Leonardus Broto S. Kardono
University of Illinois at Chicago

Claudia Koerting-Walker
University of Rhode Island

Caroline L. Lohr
University of Connecticut

Julie R. Mikell
University of Mississippi

Martua P. Nasution
University of Illinois at Chicago

David A. Paloski
University of Connecticut

Adela Jimenez Perez
Universidad de Valencia, Spain

Lucia Maria Cunha Reboucas
University of Mississippi

Mark William Russell
University of Connecticut

Michele Lee Solem
Oregon State University

Andrew L. Staley
Univ of Ill. at Urbana-Champaign

THE EDITOR'S DESK

I want to thank those of you who have complimented me on the *ASP Newsletter*. Your input, both positive and negative, is important to the progress of the *Newsletter*. I always appreciate hearing your words about the *Newsletter*. As you already know, your contributions to the *Newsletter* are always welcome and needed for the publication to be a success. I welcome any information which would be of interest to our members, including letters to the editor, publications, grant information, position openings, promotions, and so on. For inclusion in the Winter issue of the *Newsletter*, please have your contributions forwarded to me by December 15, 1987 at the following address:

Joy B. Reighard, Ph.D., Editor
ASP Newsletter
Temple University
School of Pharmacy
3307 N. Broad Street
Philadelphia, PA 19140, U.S.A.
Phone: (215) 221-7887

**MARK JULY 17-21, 1988
ON YOUR CALENDAR
FOR SALT LAKE CITY**

SOCIETY BUSINESS

JOURNAL OF NATURAL PRODUCTS REPORT

Editor James E. Robbers has reported to the membership the progress that the Journal has made over the last year. The Journal continues its growth with another increase in the number of manuscripts received over last year. The total number received this year was 412, an increase of 37 over last year. The number of manuscripts published increased by 50 over last year with a total of 295 this year. The increase in papers published was mostly in the areas of "full papers" and "brief reports". The editors again wish to thank the dedicated referees who provide their time, effort, and expertise in helping produce a quality journal. In addition, the editors send a special thanks to the members of the Editorial Advisory Board who submitted manuscripts to help make the 50th anniversary issue a memorable one.

Once again, Editor Robbers, Associate Editors Kingston and McLaughlin, Managing Editor Stites, and the entire editorial staff have done an excellent job.

MEMBERSHIP COMMITTEE

The membership committee (Yuzuru Shimizu, Chairman, Ronald M. Woodard, Pedro I. Chavez, and Matthew Suffness) sent over 340 letters to various potential members in an effort to increase our membership. While we have received approximately 80 new members, the net increase of members in the Society as of July 1, 1987 is 26 over that of last year. The membership as of July 1, 1987 is 807.

PATRON MEMBERS

The patron membership committee (James D. McChesney, Chairman, and Geoffrey A. Cordell) reports the following members for 1986-1987:

Benefactors

Dr. Madis Laboratories
Tsumura Juntendo, Inc., Japan

Sustaining Members

Berlex Laboratories, Inc.
Bristol-Myers Company
Eli Lilly and Company
Sandoz Research Institute
E.R. Squibb and Sons, Inc.

Patron Members

Abbott Laboratories
Ayerst Laboratories
Burroughs Wellcome Co.
Ciba-Geigy Pharmaceuticals
Dorsey Laboratories
FMC Corporation
Hoechst-Roussel Pharm., Inc.
Hoffmann-La Roche, Inc.
International Minerals and Chemical Corporation
Meer Corporation
Merck, Sharp and Dohme Research Laboratories
Merrell Dow Research Institute
Norwich Eaton Pharmaceuticals
Penick Corporation
Pfizer, Inc.
Philip Morris, Inc.
Proctor and Gamble Company
Purdue Frederick Corporation
Rorer Group, Inc.
Schering Corporation
Smith, Kline, and French Laboratories
Stuart Pharmaceuticals
University of Arkansas for Medical Sciences, College of Pharmacy
Warner-Lambert/Parke Davis
Xechem, Inc.

NOMINATING COMMITTEE

The nominating committee (Harry H.S. Fong, Chairman, Ching-er Chang, and David E. Thurston) has nominated the following candidates for the indicated offices:

Vice President (1988-1989):

Matthew Suffness
Joseph E. Knapp

Secretary (1988-1991):

William J. Keller
Hala N. ElSohly

Executive Committee (1988-1991):

Carlton Turner
Arnold Brossi

Secretary Keller will be mailing ballots this fall for your vote.

JOURNAL DONATIONS

Any member who is willing to donate his Journal to a needy group of scientists can do so by notifying the Treasurer at the following address:

David J. Slatkin, Ph.D., Treasurer
The Am. Society of Pharmacognosy
Department of Pharm. Sciences
512 Salk Hall
University of Pittsburgh
Pittsburgh, PA 15261, U.S.A.
Phone: (412) 648-8490

KILMER PRIZE NOMINATIONS BEING ACCEPTED

The American Society of Pharmacognosy in conjunction with the American Pharmaceutical Association annually awards the Kilmer Prize for meritorious work in pharmacognosy and natural products to a pharmacy student. Both undergraduate and graduate students are eligible for this prize.

The Kilmer Prize was established in 1937 with a bequest by Frederick B. Kilmer, the income from which is applied to support the award. The recipient receives a gold key bearing the likeness of the late Dr. Kilmer. The ASP and the APhA provide honoraria to the prize winner so that he or she may attend the Annual APhA and ASP meetings. The 1987 Kilmer Prize Winner will be honored during the ASP and APhA annual meetings in 1988.

Entries are now being solicited for the 1988 Kilmer Prize. A paper resulting from the student's own work in the field of pharmacognosy or natural products should be submitted in triplicate to APhA Awards, 2215 Constitution Avenue, N.W., Washington, D.C. 20037 U.S.A. no later than November 1, 1987.

SOCIETY NEWS

RICHARD E. SCHULTES HONORED

Richard E. Schultes, an Honorary Member of the ASP, was awarded the Tyler Prize in Environmental Achievement in Los Angeles in May, 1987. This prize was in recognition of 45 years of field work in the northwest Amazon researching medicinal and toxic plants of the Indians.

Dr. Schultes was also awarded an honorary D.Sci. in Pharmacy on June 7, 1987 from the Massachusetts College of Pharmacy.

Congratulations Dr. Schultes!

JACK K. WIER RETIRES

Jack K. Wier retired from his position at The University of North Carolina at Chapel Hill effective August 31, 1987. Jack is relaxing at his "homestead" in Chapel Hill. We wish Jack the best in his retirement.

Dr. E. John Staba
 College of Pharmacy
 University of Minnesota
 Minneapolis, MN 55455

ASP Newsletter
 American Society of Pharmacognosy
 Joy B. Reighard, Ph.D., Editor
 Temple University School of Pharmacy
 3307 N. Broad Street
 Philadelphia, PA 19140 U.S.A.



MEMBERSHIP

Membership in the American Society of Pharmacognosy is recognized in several categories:

Full Membership

Full membership is open to any scientist interested in the study of natural products. Dues are \$45.00 per year. If overseas airmail is requested, the dues are \$70.00.

Associate Membership

Associate membership is open to students of pharmacognosy and allied fields. These members are not accorded voting privileges, and dues are \$35.00 per year.

Honorary Membership

Honorary members are selected by the Executive Committee of the American Society of Pharmacognosy on the basis of meritorious service to pharmacognosy. Present Honorary Members are:

- Dr. Jack L. Beal, Columbus, Ohio
- Dr. Norman R. Farnsworth
University of Illinois
- Dr. Jonathan L. Hartwell
Washington
- Dr. R. Hegnauer
Leiden, Netherlands
- Dr. Albert Hofmann, Switzerland
- Dr. Richard E. Schultes
Harvard Botanical Museum
- Dr. Arthur E. Schwarting, Florida
- Dr. Gordon Svoboda
Indianapolis, Indiana
- Dr. Varro E. Tyler, Purdue University

- Dr. Monroe E. Wall
Research Triangle Institute
North Carolina
- Dr. Heber W. Youngken, Jr.
University of Rhode Island

Patron, Sustaining, and Benefactor Memberships

These memberships are open to any person or organization wishing to support the aims and objectives of the Society. Dues are as follows:

- Patron Member - \$200.00 per year
- Sustaining Member - \$500.00 per year
- Benefactor Member - \$1,000.00 per year

Additional information about memberships may be obtained by writing to the Treasurer of the Society:

- David J. Slatkin, Ph.D., Treasurer
The Am. Society of Pharmacognosy
Dept. of Pharmaceutical Sciences
512 Salk Hall
University of Pittsburgh
Pittsburgh, PA 15261 U.S.A.

BOOKS OF INTEREST

Primary and Secondary Metabolism of Plant Cell Cultures, Neumann, K.-H., W. Barz, E. Reinhard, Editors, Springer-Verlag, 377 pages, 1985, \$65.00.

Chromatographic Methods, Braithwaite, A., and F.J. Smith, Chapman and Hall, 414 pages, 1985, \$65.00.

Meetings-Cont. from Page 3, Column 2

The 1st Princess Chulabhorn Sci. Congress 1987, International Congress on Natural Products, Bangkok, Thailand, December 10-13, 1987. For more information contact: Professor Vichai Reutrakul, Department of Chemistry, Faculty of Science, Mahidol University, Rama VI Road, Bangkok 10400, Thailand. Telex: 84770 UNIMANI TH. Tel: 2458332

Nigerian Society of Pharmacognosy presents the International Workshop on the Development and Production of Raw Materials for Pharmaceutical and other Industries from Plants, January 5-9, 1988, Zaria, Kaduna State, Nigeria. For details contact: The Secretary, Organizing Committee, c/o Department of Pharmacognosy, Ahmadu Bello University, Zaria, Kaduna State, Nigeria.

XV International Symposium on Natural Products Chemistry, Monterrey, N.L., Mexico, April 28-30, 1988. For details contact Prof. Dr. Xorge A. Dominguez, Chairman Chemistry Department, ITESM, Sucursal de Correos "J", C.P. 64849 Monterrey, N.L., Mexico. Telex: 0382975 ITESM

The Sixth International Congress on Medicinal Plants, June 3-4, 1988, Angers, W. France. For further information contact: Professor J. Bruneton, U.E.R. des Sciences Medicales et Pharmaceutiques, Universite D'Angers, Section Pharmacie, 16, Boulevard Daviers, 49000 Angers, W. France. Tel. 48.14.22

International Conference of Group Polyphenols, Brock University, St. Catharines, Ontario, August 15-19, 1988. (Vicinity of Niagra Falls) For information contact: Dr. T. Fuleki, HRIO, Vineland Station, Ontario, Canada, LOR 2E0.