

ASP NEWSLETTER

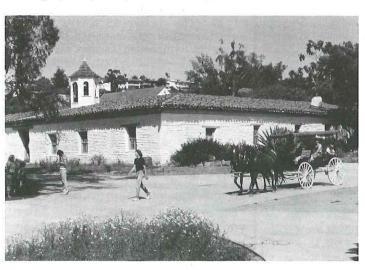
Volume 29, Number 2

Summer, 1993

34TH ANNUAL MEETING, DRUG DISCOVERY SYMPOSIUM SCHEDULED FOR JULY

The 34th Annual Meeting of the American Society of Pharmacognosy will be held July 18-22, 1993 in San Diego, California. The meeting will be based at the Princess Resort on an island in Mission Bay.

The topics for this year's symposia include: Biodiversity, Targeted Drug Discovery, NCI Intramural Drug Discovery, and National Cooperative Drug Discovery. See page two for a listing of the symposia participants and their presentation titles.



"Old Town State Historic Park" San Diego Convention & Visitors Bureau

The **Third Drug Discovery and Development Symposium** is being held together and in tandem with the annual meeting. Symposium dates are July 22-24, 1993. Those registered at the ASP meeting will be admitted to the Drug Discovery meetings with their badges.

Unfortunately the brochure which was sent out in regard to the Third Drug Discovery and Development Symposium caused some confusion to ASP members. In order to clarify this situation, please note that there will be **no change** in the ASP schedule for Thursday. (See meeting brochure for details.) The Third Drug Discovery and Development Symposium will be sharing the spon-Continued on Page 2, Column 2

1993 AWARD WINNERS

To stimulate interest in all phases of natural products research, the American Society of Pharmacognosy Foundation is pleased to announce the winners of this year's awards and grants:

STUDENT AWARDS

1. ASP Student Research Award.

The ASP Student Research Award is designed to recognize outstanding research in the general area of natural products. The competition is open to all graduate and undergraduate students working for a member of the ASP. Students submit a research paper describing his/her own work in the area of natural products. The applications are reviewed by the ASP Awards and Funds Committee in a blinded competition. The award consists of a \$500 cash gift and all expenses paid to present the paper at the annual meeting of the ASP. This year's winner is:

Carl E. Heltzel of Virginia Polytechnic Institute and State University. His paper is entitled "Bioactive Furanonaphthoquinones from *Crescentia cujete*" and his advisor is David G. I. Kingston. He will be presenting his research in San Diego.

2. Undergraduate Research Awards.

The ASP Undergraduate Research Awards consist of a stipend of \$2,000 to the student and \$500 to the advisor to help defray the costs of the research. There are no limitations on the type of research to be conducted other than that it should be in the area of natural products. This year's winners are:

Kai-lun Huen from Kowloon, Hong Kong. His research project is entitled "Chemical Standardization of *Gastrodia elata* by HPLC" and his advisor is Chun-tao Che.

Meiling Shang from San Jose State University. Her research project is entitled "Halogenation of Natural Products by Algal Bromoperoxidases" and her advisor is Roy K. Okuda. Continued on P. 3, C. 1

SYMPOSIUM SPEAKERS

Georg Albers-Schönberg, Merck, Sharp and Dohme Using and Protecting Biodiversity

John H. Cardellina, II, National Cancer Institute
Intramural Natural Products Drug Discovery Program at NCI

Brad K. Carte', SmithKline Beecham Pharmaceuticals

Mechanism-Based Screening of Marine Natural Products

Jon C. Clardy, Cornell University
New Anti-Cancer Drugs from Cultured and Collected Marine
Organisms

Paul A. Cox, Brigham Young University

Ethnobotany and the Discovery of New Anti-HIV Compounds

Edgardo Gomez, University of the Philippines

Biodiversity in the Marine Tropics: Potentials and Concerns

Sidney M. Hecht, University of Virginia

Mechanism-Based Discovery of Novel Anti-Tumor Agents

Susan B. Horwitz, Albert Einstein College of Medicine Taxol: Mechanisms of Action and Resistance

A. Douglas Kinghorn, University of Illinois at Chicago Novel Strategies for Plant-Derived Anti-Cancer Drugs

Thomas E. Lovejoy, Smithsonian Institute

Conservation of Biodiversity: Essential or Excessive?

George R. Pettit, Arizona State University

Recent Advances in the Discovery of Naturally Occurring

Anti-Cancer Substances

Matthew Suffness, National Cancer Institute
Introduction to National Cooperative Drug Discovery Group
(NCDDG) and International Cooperative Biodiversity Group
(ICBG) Programs

Michael S. Tempesta, Shaman Pharmaceuticals

Anti-Viral Drug Discovery and Development from Medicinal

Plants-A Case Study of SP-303

Frederick A. Valeriote, Wayne State University
Discovery of New Anti-Cancer Agents from Natural Products

Paul A. Wender, Stanford University

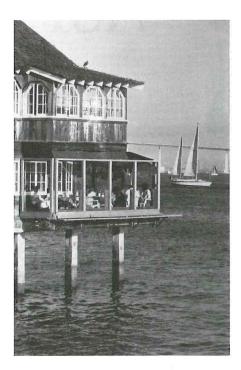
Chemical and Biological Studies on Cancer Chemotherapeutic

Leads: Taxol, Phorbol, and DNA Cleaving Agents

C.E. Credits

Attendance and participation in the symposia and podium sessions will qualify for continuing education credits through the American Council on Pharmaceutical Education. Meeting registrants who are interested are invited to register for this program at the C.E. Registration desk on July 18. A nominal \$25.00 processing fee will be required. This CE is sponsored by the College of Pharmacy, Ferris State University, an accredited ACPE provider. (Program No. 679-028-93-003).

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"Seaport Village Dining" San Diego Convention & Visitors Bureau

sorship of both the morning NCI Intramural Drug Discovery Symposium and the afternoon National Cooperative Drug Discovery Symposium on Thursday. The Third Drug Discovery and Development Symposium will continue through Saturday, July 24, 1993.

For more information on the Third Drug Discovery and Development Symposium, contact Frederick A. Valeriote, Ph.D., Phone: (313)745-8252, Fax: (313)993-0559.

AIRPORT LIMOSINE SERVICE AVAILABLE FOR ARRIVAL AND DEPARTURE IN SAN DIEGO

If you are flying into San Diego and wish airport ground transportation to the Princess Resort, we advise you to call SuperShuttle. After you have claimed your baggage, call SuperShuttle from the airport information board - #66. OR, for immediate service ask the local traffic enforcement officer for "SuperShuttle" or call direct at 278-8877. Be sure to tell SuperShuttle which airline you have used and ask how to find the shuttle. The current rate for the trip between the Princess Resort and the San Diego Airport is \$6.00 per person each way. SuperShuttle will also provide non-stop van service for up to seven passengers at a rate of \$30.00. These rates do not include gratuity.

If you plan on using the shuttle to return to the airport at the end of the conference, you should make reservations in advance.

A NOTE TO POSTER PRESENTERS FOR THE 34th ANNUAL ASP MEETING

If you are exhibiting a poster paper at the 34th Annual ASP Meeting in San Diego, please note that the size of the boards which are available for poster presentation is four feet high by eight feet wide. Please keep this in mind as you prepare your poster.

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3. Lloyd Library and Museum Travel Grants.

This grant program was established in cooperation with the Lloyd Library and Museum. In keeping with the Lloyd Library's interest in promoting student activities, two \$500 travel awards to attend the national ASP meeting are awarded. These awards are made based on excellence in both scholastic and research activities in the field of natural products. This year's winners are:

Toshio Ichiba from the University of Hawaii at Manoa Barry O'Keefe from the University of Illinois at Chicago

4. Travel Grants for Graduate Students.

Graduate students under the supervision of a Society member are eligible for a travel grant of \$300 to \$500 to enable them to attend a Society meeting and present a paper. Application is made by submission of a short (2-3 pages) synopsis of the work to be presented and a letter of justification from the advisor. All awards are contingent on the acceptance of the paper for presentation by the Scientific Program Committee. This year's winners are:

Maged S. Abdel-Kader from Colorado State University Erguang Li from The University of Mississippi Agnes Rimando from the University of Illinois at Chicago

YOUNG INVESTIGATOR AWARDS

Research Starter Grants.

ASP small research grants from \$2000 to \$5000 are available for active members in the first five years of their career. These are onetime awards and are not subject to indirect costs. This year's winners are:

Anthony D. Wright from Zurich, Switzerland. His research project is entitled "Isolation, Structure Elucidation and Evaluation of the Antimalarial Activity of Sponge Secondary Metabolites, with Special Emphasis on Com-Nitrile, Isonitrile, pounds Containing Thiocyanate or Isothiocyanate Functions".

Rhonda Dillman from Eastern Montana College. Her research project is entitled "Isolation, Characterization and Syntheses of Polybrominated Dibenzo-P-dioxins from the Sponge Tedania ignis".

2. Travel Grants for Active Members.

Travel grants are available to enable active members who are in the first five years of their career to travel to an American Society of Pharmacognosy meeting and present the results of their research. These awards of \$300 to \$500 are made on a competitive basis. This year's winners are:

Matthew W. Bernart from the National Can-

cer Institute

Maureen S. Bonness from the University of Texas at Austin

REPORT OF THE TELLERS COMMITTEE

The Tellers Committee, appointed by President Lester A. Mitscher, now wishes to report the following results of the 1992 election:

Vice President (1993-1994)

Alice M. Clark

Executive Committee Member (1993-1996)

Ching-jer Chang

Amendments to the Constitution and By-Laws

Package A involves only a By-Laws change and addresses the rather vague charge of the Publicity Committee that is stated in Section 2, Subsection J (Duties of the Publicity Committee). The following proposed amendment would be a much more accurate description of the current duties and activities of the Publicity Committee.

By-Laws: Section 2, Subsection J

Current Wording: "The Publicity Committee shall publicize the existence and activities of the Society and the significant achievements of its members. Such publicity shall include, but not be limited to, announcements and advertisements in scientific journals, as well as releases to the lay press. Additionally, the Publicity Committee shall assist the Local Program Committee in publicizing the Annual Meeting, where such assistance is requested."

Proposed Wording: (To replace the underlined section above). Specifically, the Committee shall publicize the various research and travel awards for students and members of the Society, and the ASP research award; further publicity for the annual meeting (in concert with the Local Program Committee), and for the various types of membership in the Society shall be incumbent upon the Committee.

Package A--Passed

Package B involves only a Constitution change and addresses the rather flexible statement concerning honorary membership that appears in Article III, Section 2. The following proposed amendment would state that no more than 2% of the Society membership can be honorary members which would give the Honorary Membership Committee some needed guidelines.

Constitution: Article III, Section 2

Current Wording: "Honorary members shall be selected by the Executive Committee on the basis of meritorious service to pharmacognosy and shall be exempt from the payment of dues. Honorary members will be eligible to vote but will not be eligible to hold elective offices."

Proposed Wording: "Honorary members shall constitute no more than 2% of the total membership of the Society." shall be added to the above current wording.

Package B--Passed

JOURNALS, BOOKS AND DATA BASES FOR NATURAL PRODUCTS

Keeping current with the developments in our field is almost a full-time job in itself. Writers, publishers and data collectors are working overtime to make sure you have plenty to read.

Several new journals have emerged recently. *Natural Toxins*, published by Wiley-Liss, is an international research journal designed to provide a forum for original research papers covering naturally occurring toxicants. Volume One contains six issues and is available from D. Paone, Wiley-Liss, 605 Third Avenue, New York, New York, 10158-0012. The institutional rate is \$195.00 U.S.; \$270.00 outside the U.S. The personal rate is \$98.00 U.S.; \$128.00 outside the U.S. Payment must accompany all orders for journal subscriptions.

Harwood Academic Publishers is offering all members a specially reduced subscription price to Natural Product Letters. This journal covers all aspects of research in the chemistry, biochemistry and pharmacology of naturally occurring compounds and their analogues, with communications on work concerning the natural substances of terrestrial and marine sources including plants, microbes and animals. The rate for ASP members is \$50.00 U.S. per volume. Subscription orders should be sent to Harwood Academic Publishers, c/o STBS, Order Department, P.O. Box 90, Reading, Berkshire RG1 8JL, United Kingdom.

The Quarterly Journal of Crude Drug Research is now being published under the title International Journal of Pharmacognosy by Swets & Zeitlinger bv. This journal publishes papers concerning contemporary pharmacognosy. Individual subscriptions should be sent to Swets & Zeitlinger, P. O. Box 825, 2160 SZ Lisse, the Netherlands. The subscription price is U.S. \$290.

Food Products Press, an imprint of The Haworth Press, Inc. has recently brought out two new journals. The first, Journal of Sustainable Forestry, edited by Dr. Lyle E. Craker, encompasses topics from biotechnology, physiology, silviculture, wood science, economics and forest management. Subscription are: Individuals—\$28, stitutions—\$36, Libraries—\$48. second, Journal of Herbs, Spices and Medicinal Plants, edited by Dr. Graeme Pierce Berlyn, concerns itself with the botany, chemistry, horticulture and pharmacology of these plants. Subscription rates are: Individuals—\$28, Institutions—\$32, Libraries—\$42. Orders may be sent to The Haworth Press, Inc., 10 Alice Street, Binghamton, New York 13904-1580.

New books of interest include In-

terleukin-2 edited by Jonathan Waxman and Frances Balkwill. This book is part of the Frontiers in Pharmacology and Therapeutics Series published by Blackwell Scientific Publications, Inc., 238 Main Street, Cambridge, MA 02142. The price is \$129.95.

A new reference book, *Phytochemical Dictionary*, edited by Jeffrey B. Harborne and Herbert Baxter was published by Taylor & Francis. The book lists for \$350.00 and can ordered from the publisher at 1900 Frost Road, Suite 101, Bristol, PA 19007-1598. They have also published a *Dictionary of Plants Containing Secondary Metabolites*, by John S. Glasby. This book lists for \$215.00

Biotechnology and Pharmacy, edited by John M. Pezzuto, Michael E. Johnson and Henri R. Manasse, Jr., has been published by Chapman & Hall, Inc. Orders may be sent to Ariel Haméon, Marketing Department, Chapman & Hall, Inc., 29 West 35 Street, New York, New York, 10001-2299. The price for cloth is \$79.95, and for paper, \$39.95 plus shipping and handling.

CRC Press has three new books available. They are: *The Pharmacology of Chinese Herbs* by Kee Chang Huang, M.D., Ph.D., \$125 U.S.; *African Medicinal Plants*, Maurice M. Iwu, Ph.D., \$99.95 U.S.; *Bioactive Natural Products* (available in September 1993) edited by Steven M. Colegate and Russell J. Molyneux; \$125 U.S. All of these books may be obtained from CRC Press, 2000 Corporate Blvd., N.W., Boca Raton, Florida 33431.

To help you keep track of the information in these publications there are electronic data bases. NAPRALERT, a database of natural products literature is available on-line through phone modem or BIT-NET access. You can obtain information about NAPRALERT from Norman R. Farnsworth, Ph.D., Program for Collaborative Research in the Pharmaceutical Sciences (M/C 877), College of Pharmacy, University of Illinois at Chicago, 833 South Wood Street, Chicago, Illinois 60612.

"HERB" is an electronic "Medicinal and Aromatic Plants discussion list." It can be accessed through INTERNET OR BITNET. Send a "SUB HERB subscribers name surname" message to "LIST-SERV@TREARN.BITNET" e-mail address. For information about "HERB" contact Mahmut Miski, Ph.D., Sterling Winthrop Pharmaceuticals R&D, 25 Great Valley Parkway, Malvern, PA 19355.

The DEREP Database is designed primarily for chemists involved with the isolation of natural products. These chemists well understand that the rediscovery of a known, biologically active compound frequently occurs when working with natural products encountered in many kinds of screening programs. The DEREP Data base aids in the recognition of previously reported compounds during the early stages of the isolation process and assures that maximum attention is given to truly novel bioactive agents. The elimination (dereplication) of these knowns as rapidly as possible

is important because of the time, expense and effort that is saved. For information contact James French, 3150 Rumsey Drive, Ann Arbor, MI, 48105-1466.

Chapman & Hall have recently announced a CHCD Dictionary of Organic Compounds and a CHCD Dictionary of Inorganic Compounds, both on CD-ROM. Because current literature is continually reviewed, both databases are kept up to date and available on annual subscription with cumulative updates being released every six months. Both CD-ROMs are available on free trial for 30 days. Contact Alexa Wheeler, Scientific Data Division, Chapman & Hall, 2-6 Boundary Row, London, SE1 8HN, UK.

The DEREP Database lists data that are especially useful to chemists engaged in the isolation of new bioactive natural products from prokaryotes, fungi, higher plants, and marine organisms. We are seeking persons who are willing to participate in the maintenance of this database. Because you may set your own work schedules, this is an ideal undertaking for a retired natural products chemist, or as a joint effort of a university natural products research group.

If this project interests you, for more details please contact:

James C. French 3150 Rumsey Drive Ann Arbor, MI 48105 (313) 665-7171

SERVICE AVAILABLE

The American Society of Pharmacognosy is offering a placement service to aid our members find employprospective positions or employees. This service is available only to ASP members and is free to both the applicant and the prospective employer. Once an application is submitted, it will remain on file for one (1) year, at which time it will be destroyed. The applicant should also realize that the application will be submitted to the prospective employer exactly as submitted. (The submitted form will be xeroxed, then sent to the prospective employer.)

Further information can be obtained by contacting: Robert J. Krueger, Ph.D., College of Pharmacy, Ferris State University, 901 S. State St., Big Rapids, MI 49307 USA. Phone: (616)592-2236.

FUTURE MEETINGS

Future ASP Meetings

1993 - July 18-22, San Diego, California.

1994 - July 31- August 5, Halifax, Nova Scotia - International Research Congress on Natural Products: A joint meeting with the Gesellschaft fur Arzneipflanzenforschung, the Association Française pour l'Enseignement et la Recherche en Pharmacognosie, and the Phytochemical Society of Europe.

1995 - Univ. of Mississippi.

1996 - Santa Cruz, California.

1993 AACP Meeting

July 11-14, AACP 94th Annual Meeting, San Diego, California

1993 AAPS Meeting

November 14-18, AAPS Eighth Annual Meeting, Walt Disney World Dolphin, Orlando, Florida. Details: AAPS, 703-548-3000, FAX 703-684-

Other Meetings of Interest--1993

- August 1-4, AFPC 50th Anniversary Converence, Vancouver, B.C. Contact: Biotechnology Converence Planning Secretariat, Faculty of Pharmaceutical Sciences, University of British Columbia, 2146 East Mall, Vancouver, B.C., Canada V6T 1Z3 (604) 822-4709. FAX (604) 822-3035.
- August 23-27, 3rd International Congress on Amino Acids and Analogues, Crete, Greece. Contact: G. Lubec, Univ. Vienna, Dpt. of Paediatrics, Wahringer Gurtel 18, A lo9o Vienna, Austria. FAX: x43.1.4o4oo3238.
- September 2-4, 12th International Essential Oils Workshop, Digne les Bains, France. Contact: Association for the promotion of perfumery, aromatic and medicinal plants, 66, Boulevard Gassendi, BP 117, 04004-Digne les Bains Cedex, France.
- September 5-11, International Symposium on Traditional Medicine: Old and New, Tokyo, Japan. Contact: D.J.A. Crommelin, Secretary, World Congress of Pharmacy and Pharmaceutical Sciences, Alexanderstraat 11, 2514JL The Hague, The Netherlands. FAX 31703659047.
- September 13-17, Symposium on Natural Phenols in Plant Resistance, Freising-Weihenstephan, Germany. Contact: Dr. M. Geibel or Dr. d. Treutter, Institut für Obstbau, Technische Universidät Munchen, D-8050 Freising-Weihenstephan, Germany, Telephone (+49) 8161/713753; FAX (+49) 8161/714499.
- September 22-26, 5th NAPRECA Symposium on Natural Products, Antananarivo, Madagascar. Contact: Dr. Philippe Rasoanaivo, Chairman NAPRECA-Md, Institute Malgache de Recherches Appliques, BP 3833, 101 Antananarivo, Madagascar. FAX 261 2 35974.
- September 27-October 1, 4th International Symposium on Poisonous Plants, Fremantle, Western Australia. Contact: Dr. Peter R. Dorling, School of Veterinary Studies, Murdoch University, Murdoch, Western Australia 6150. Tel.: 09-360-2489 FAX 09-310-4144.
- September 29-October 1, International Symposium on the Phytochemistry of Plants used in Traditional Medicine, Lausanne, Switzerland. Contact: Professor K. Hostettmann, President, Phytochemical Society of Europe, Institute de Pharmacognosie et Phytochimie, Universite de Lausanne, BEP, Ch-1015 Lausanne-Dorigny, Switzerland. FAX 0210 692 28 80.

1994

- January 16-20, 19th IUPAC Symposium on the Chemistry of Natural Products, Karachi Pakistan. Contact: Prof. Atta-Ur-Rahman, Director, H.E. J. Research Institute of Chemistry, University of Karachi, Karachi-75270, Pakistan. Phone 92-21-470007, Telefax: 92-21-467887.
- June/July, Third Congress of the International Society for Eth**nopharmacology**, Beijing, China. Contact: Professor XIAO Pei-Gen, Director of IMPLAD, Haidan District, Dong Beiwant, Beijing 100094, China. FAX 0086 (1) 2581330.
- September 5-7, 25th International Symposium on Essential Oils, Grasse, France. Contact: Association des Inge nieurs et Techniques de la Parfumerie (A.I.T.P.), 48, avenue Riou-Blanquet, 06130 GRASSE, France, Fax: (33)93-36-54-26.

NEW MEMBERS

We are pleased to welcome the following new members.

ACTIVE MEMBERS

Raymond J. Anderson University of British Columbia

Roy S. Chaleff American Cyanamid

Princeton, New Jersey

Craig D. Dodson

University of Nebraska at Kearney

Roberto R. Gil

College of Pharmacy, UIC

Chicago, Illinois

C. I. Jolly

Bombay University

Shigeki Matsunaga

Laboratory of Marine Biochemistry

Tokyo, Japan

Woan-Ru Melissa Shieh

The University of Rhode Island

Robert W. Myllymaki

Bristol-Myers Squibb Company

Wallingford, Connecticut

Mukund P. Sibi

North Dakota State University

K. H. Timotius

Satya Wacana Christian University

Salatiga, Indonesia

Tomas Vanek

Institute of Organic Chemistry and Biochemistry

Czechoslovakia

Molly A. Weber

Eastman Chemical Company

Batesville, Arkansas

R. Wijnsma

The Netherlands

Zbigniew J. Witczak

The University of Connecticut

Herman J. Woerdenbag

University Centre for Pharmacy

The Netherlands

ASSOCIATE MEMBERS

Mark Böhlke

University of Illinois at Chicago

Toshiyuki Hamada

Laboratory of Marine Biochemistry

Tokyo, Japan

Edward J. Kennelly

St. Louis, Missouri

Zakaria H. Mbwambo

Chicago, Illinois

Leland W. Miles

Cartagena, Columbia

Youichi Nakao

Laboratory of Marine Biochemistry

Tokyo, Japan

Onoomar Poobrasert

PCRPS

Chicago, Illinois

Noriko Sata

Laboratory of Marine Biochemistry

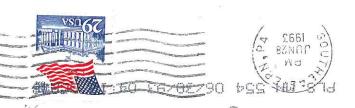
Tokyo, Japan

Kyung-Jae Yoo

Philadelphia College of Pharmacy and Science

Philadelphia, Pennsylvania

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



David J. Slatkin, Ph.D., Treasurer The American Society of Pharmacognosy P.O. Box 9558 Downers Grove, Illinois 60515

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 \$75.00 per year. If overseas airmail is requested, the dues are \$150.00. These members receive the *Journal of Natural Products* and the *ASP Newsletter*.

Associate Membership

Associate membership is open to students of pharmacognosy and allied fields. These members are not accorded voting privileges, and dues are \$50.00 per year. These members receive the ASP Newsletter.

Emeritus Membership

Emeritus membership is open to retired members of the Society who maintained membership in the Society for at least five years. Dues are \$5.00 per year. These members receive the *ASP Newsletter*.

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. Arnold Brossi, National Institute of Health, MD

Dr. David P. Carew, University of Iowa

Dr. Norman R. Farnsworth, University of Illinois

Dr. R. Hegnauer, Leiden, Netherlands

Dr. Albert Hofmann, Switzerland

Dr. Richard E. Schultes, Harvard Botanical Museum

Dr. Arthur E. Schwarting, Florida

Dr. Gordon H. Svoboda, Indianapolis, Indiana

Dr. Varro E. Tyler, Purdue University

Dr. Hildebert Wagner, University of Munich

Dr. Monroe E. Wall, Research Triangle Institute, NC

Dr. Heber W. Youngken, Jr., University of Rhode Island

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

Chicago College of Pharmacy

555 31st Street

Downers Grove, IL 60515

ASP Newsletter

Joy B. Reighard, Ph.D., Editor

Barbara H. Grissani, Editorial Assistant

Deadlines for submission of information are as follows:

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Winter Issue - December 1st

Send information to:

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