

# ASP NEWSLETTER

Volume 27, Number 1

Winter, 1991

## ASP MEETING IN BONN A BIG SUCCESS

The annual ASP meeting was held on July 17-22 in Bonn, Germany in conjunction with the Gesellschaft für Arzneipflanzenforschung, Association Française pour l'Enseignement et la Recherche en Pharmacognosie, and the Phytochemical Society of Europe. Hosting it at the Pädagogische Fakultät was the Institute für Pharmazeutische Biologie of the Rheinische Friedrich-Wilhelms-Universität in Bonn.

Attendance was over 800 with 19 plenary presentations, 17 by invited speakers and 2 by award recipients (ASP and Gesellschaft). There were 32 short podium presentations and a staggering 332 posters displayed in three sessions.

Each of the three and a half days of the sessions (Wednesday through Saturday noon) was devoted to a separate category. These were, in order: Physiology and Chemistry of Natural Products; Molecular Biology; Progress in Phytotherapy, and Alkaloids in Mammals. The only exceptions were the ASP-Award (Monroe E. Wall) and Egon Stahl - Award (Rudolf Bauer) lectures and Eric E. Conn's introductory lecture.

Professor Eric E. Conn (Department of Biochem. & Biophys., University of California, Davis) opened the scientific sessions immediately following the opening ceremonies on Tuesday evening, July 17. In the category *Metabolic Principles Involving Natural Products* he spoke on *The Lessons Learned from Cyanogenic Glycosides*.

Wednesday's theme, *The Physiology and Chemistry of Natural Products* included five plenary lectures: Professor Rod Croteau (Inst. of Biol. Chem., Washington State University) on *The Biochemistry and Physi*

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## PRESIDENT SUFFNESS ADDRESSES MEETING ATTENDEES

The President's Report to the Society is traditionally delivered at the Annual Banquet, but in view of the special circumstances of a joint meeting, it is more appropriate to present this report at the Annual Business Meeting of the Society.

This year has been a highly successful one as the Society continues to grow and initiate new programs. Some of the highlights of this past year are:

1) Legal establishment of the A.S.P. Foundation which will make available new possibilities for tax-exempt contributions in support of Educational and Research Activities.

2) Enhancement of relations with the Lloyd Library and Museum with future prospects for increased collaboration with the A.S.P.

3) Organization of a new membership category and dues structure for retired members to keep them active in the Society.

4) The first steps have been taken towards increasing publication of the Journal of Natural Products to a monthly format.

I take credit for none of the above; the one year term of the President of the A.S.P. is much too short to accomplish significant goals. Things which prior presidents have initiated, I have tried to move along. Things which I have started, Doug Kinghorn and Chris Ireland and their successors will follow up. The A.S.P. is largely successful not because of its presidents but because of the many members who have given so much of their time and effort to various committees. In particular, I want to thank the members of the Executive Committee for all their advice and help and particularly

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## THE LLOYD LIBRARY AND MUSEUM: A PHARMACOGNOSIST'S TREASURE TROVE

For over a century the Lloyd Library & Museum has been serving the public. The articles of incorporation state that its mission is "... to collect and maintain a library of botanical, medical, pharmaceutical and scientific books and periodicals and works of allied sciences, ... and to promote and encourage the scientific study and investigation of botany in its various branches, and to do all things necessary and incident to the carrying out of said purposes." The Lloyd Library remains as committed to this purpose today as when it was first written in 1907. Yet the above mission statement not only defines its *raison d'être* but also its public. Clearly, American pharmacognosists could find no better laboratory in which to hone their craft.

It all started through the efforts of the Lloyd brothers: Nelson Ashley, Curtis Gates, and John Uri. While Nelson provided the business acumen, the botanical interests of Curtis and the pharmaceutical knowledge of John pretty well established the character of the collection. From the 1493 Italian pharmaceutical work, Mesue's *Vulgare*, to the 16th century botanical masterpiece, *De Historia Stirpium*, the Lloyd brothers assembled an extraordinary library in both fields; the apex of which culminated where their bibliographical propensities merged -- in vegetable materia medica.

Although space does not permit a detailed listing of our holdings (it would fill several volumes alone), some of Lloyd Library's more outstanding pharmaceutical possessions would include the following: a 1652 edition of *Valerius Cordus*, one of the earliest pharmacopoeias; several editions of the

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(BONN - Continued from Page 1, Column 1) *ology of Monoterpenes*, Professor Joachim Stockigt (Institute for Pharmaceutical Biology, University of Munich) on *The Biochemistry and Physiology of Monoterpenoid Indole Alkaloids*, Dr. Thomas Hartmann (Institute for Pharmaceutical Biology, Technical University of Braunschweig) on *The Formation, Translocation, and Accumulation of Pyrrolizidine Alkaloids in Plants and Their Role in Plant-Insect Interactions*, Professor Ulrich Matern (Biol. Inst., University of Freiburg) on *Coumarins and Other Phenylpropanoids in the Defense Response of Plant Cell Cultures*, and E. Professor Mamoru Tabata (Department of Pharmacognosy, Kyoto University) on *The Transport and Secretion of Natural Products in Plant Cell Cultures*.

Thursday's topic turned to *Molecular Biology* featuring four speakers. These were, in order: Dr. Dirk Inze (Genetics Lab., Rijksun University, Belgium) on *Enhanced Production of Active Natural Substances*, Dr. Richard J. Robins (Inst. of Food Res., Norwich Lab., GB) on *Alkaloid Production in Transformed Roots of Datura and Nicotiana and its Enhancement by Genetic Manipulation*, Professor C.R. Hutchinson (School of Pharmacy, University of Wisconsin) on *The Genetics and Biochemistry of Secondary Metabolism in Streptomyces and Related Bacteria*, and Professor Teruhiko Beppu (Dept. of Agricultural Chem., University of Tokyo) on *Molecular Mechanisms of the A-Factor Dependent Control of Secondary Metabolism in Streptomyces*.

Friday's subject, *Progress in Phytotherapy*, again featured four speakers: Dr. Volker Fintelmann, M.D. (Hamburg) on *Transformation of Phytotherapy from a Traditional to a Modern Scientific Medicine*, Professor John D. Phillipson (School of Pharmacy, University of London) on *Antiprotozoal Agents from Plant Sources*, Professor Fred J. Evans (Department of Pharmacognosy, University of London) on *Cannabinoids: the Separation of Central from Peripheral Effects on a Structural Basis*, and Dr. Alain Beretz's (Centre Regionale de Transfusion Sanguine, Strasbourg) paper, *Old and New Natural Products as the Source of Modern Antithrombotic Drugs*.

Three speakers were featured in Saturday's final session, *Alkaloids in Mammals*: Professor Gerhard Bringmann (Institute for Organic Chemistry, Wurzburg University) on *Endogenous Alkaloids in Man: Synthesis, Analytics, in-vivo Identification, and Medical Importance*, Professor Hans Rommelspacher, M.D. (Free University of Berlin) on *Beta-Carbolines and Tetrahydroisoquinolines: Detection and Function in Mammals*, and Dr. Arnold Brossi (Natural Products Chemistry, National Institutes of Health, USA) on *Mam-*

*malian Isoquinolines: Conversion of Tetrahydroisoquinoline-1-carboxylic Acids Derived from Dopamine*.

There were three award lectures, the first being the ASP Award Lecture featuring Dr. Munroe E. Wall (Research Triangle Institute, North Carolina, USA) on *Recent Progress in the Chemistry and Biology of Plant Antimutagenic Agents*. Egon Stahl Awardee Dr. Rudolf Bauer (Institute for Pharm. Biology, University of Munich) addressed the subject *Recent Investigations on Constituents and Activity of Echinacea Species*.

The Kilmer Prize paper was given as a short oral presentation by Ghee Teng Tan (Pharmaceutical Sciences, College of Pharmacy, University of Illinois at Chicago) on the subject *Evaluation of Natural Products as Inhibitors of Human Immunodeficiency Virus (HIV) Reverse Transcriptase*.

A variety and extensive social program was offered, including events before and after the official programs. A traditional welcome party was offered at the Padagogische Facultat on the first evening. The symposium banquet, held at the Alexander Konig Museum and Zoological Research Inst., offered the unique experience of dining under the glassy stare of ranks of large stuffed animals. There was no program, but ample time to tour the exhibits was provided.

There was an array of daytime tours, but there also were several tours available at times when there were no presentations for those attendees diligent in pursuing scientific knowledge. On Tuesday, July 17, prior to the opening ceremonies, there was a choice of day trips to J. Madaus or Nattermann Pharmaceutical companies (both in Koln). These visits included plant tours with American participants finding the large role of crude and partly purified natural drug products of particular interest.

Post-symposium events included wine tasting in the cellars of a winery near the Ahr River, an event which included dinner and much excellent wine. This occurred on Saturday evening, July 21. On the following day a choice of two day tours through the Eifel Mountains, one botanically oriented and the other for sightseeing was given. Alternately one could choose an eight day tour of Southern Germany and Austria.

The opening and closing ceremonies were impressive including the student chamber music groups that provided excellent music in the tradition of Germany. Singing "Auld Lang Syne" in various languages and the release of balloons provided an impressive ending for the closing ceremonies.

(Thanks to Donald E. (Ted) Nettleton, Jr. for this report)

I would like to express my thanks to those who have contributed to the *ASP Newsletter*. It is your contributions which make the *Newsletter* a success. I welcome any information which may be of interest to our members, including letters to the editor, publications of interest, grant information, position openings, promotions, meeting information, and so on. For inclusion in the Spring issue of the *ASP Newsletter* please forward this information to me by March 15, 1991 at the following address: Joy B. Reighard, Ph.D., Editor, *ASP Newsletter*, Temple University School of Pharmacy, 3307 N. Broad St., Philadelphia, PA 19140 U.S.A. Phone: (215)221-4946 FAX: (215)221-3678

(SUFFNESS, Cont. From Page 1, Col. 2) the immediate past president, David Kingston, for sharing his experiences with me. Most special thanks goes to David Slatkin and to Bill Keller for their extensive service and to Jim Robbers, Jerry McLaughlin and David Kingston for exemplary management of the Journal.

The discipline of Pharmacognosy continues to change and we have done a good job of changing with the field. Membership of colleagues from industry continues to increase as does participation of scientists from the areas of marine research and agricultural research. The Journal is publishing many more studies reporting bioactive compounds and the quality of papers continues to increase. I hope that in the future we can attract more members from areas such as chemical ecology, medicinal chemistry, ethnobotany and ethnomedicine, and biotechnology. While these areas are not closely related to each other in a formal sense, they are all brought together by the common thread of natural products research.

The diverse areas represented by the membership of the Society is a tremendous strength; we all have much to learn from each other and we all can find profitable scientific collaborations among the membership. The increasingly interdisciplinary nature of modern science is well served in the A.S.P. and I am confident of the Society's future.

It has been both a pleasure and an honor to serve as President of the American Society of Pharmacognosy, and I thank all of you for the support which you have given me, the Society and your profession.

Respectfully submitted, Matt Suffness, President

(Presented at the annual meeting in Bonn, July, 1990.)



The 33rd Annual Meeting of the American Society of Pharmacognosy will feature a major International Symposium on the Contemporary Status of Natural Products Research in the areas of drug discovery, synthesis, biosynthesis and biological evaluation. The meeting will be held from July 21 to 26, 1991, and is hosted by the Program for Collaborative Research in the Pharmaceutical Sciences and the College of Pharmacy at the University of Illinois at Chicago. The meeting will be held at the newly renovated Congress Hotel on Michigan Avenue in the heart of downtown Chicago. The hotel overlooks the magnificent lake-front and Grant Park, and is close to the Loop and Michigan Avenue shopping, restaurant and business districts. Cultural attractions such as the Art Institute of Chicago, Orchestra Hall, the Adler Planetarium and others are also nearby.

The Scientific Program Committee is pleased to propose a very diverse symposium program covering the breadth and depth of contemporary pharmacognosy.

#### KEYNOTE ADDRESS

B.S. Blumberg, Philadelphia *An Exercise in Systematic Plant-derived Medication Discovery*  
Nobel Laureate, 1976

#### PLENARY LECTURES

- |                             |   |
|-----------------------------|---|
| D.D. Soejarto, Chicago      | <i>Plant Drug Discovery from the Tropical Rain Forest: Are Our Efforts Adequate?</i>                                      |
| N.R. Farnsworth, Chicago    | <i>The Value of Ethnomedical Information for Drug Discovery</i>   |
| O. Sticher, Zurich          | <i>Some Recent Aspects of the Isolation and Structure Elucidation of Natural Products</i>                                 |
| H. Wagner, Munich           | <i>Potent Plant-derived Immunostimulators</i>   |
| W.K. Milhous, Washington    | <i>Development of Drugs for Multiple Drug Resistant Malaria</i>   |
| T.J.R. Harris, London       | <i>Molecular Biological Approaches in Screening for Natural Product Leads</i>   |
| I. Kitagawa, Osaka          | <i>Recent Chemical Investigations on Licorice Roots</i>   |
| O.S. Weislow, Frederick     | <i>Bioassay Support for Natural Product Antiviral Drug Discovery: Role in Extract Fractionation and Drug Purification</i> |
| D.E. Cane, Providence       | <i>Enzymatic Formation of Cyclic Terpenoids</i>   |
| J.C. Vederas, Edmonton      | <i>Stable Isotope Labelling in Biosynthetic and Structural Studies</i>  |
| A.I. Scott, College Station | <i>How Nature Synthesizes Vitamin B<sub>12</sub>. A Survey of the Last Four Billion Years</i>                             |
| M.H. Zenk, Munich           | <i>Isoquinoline Alkaloids: Pathways - Enzymes and Metabolism</i>  |
| J.P.N. Rosazza, Iowa City   | <i>Metabolism of the Vinca Alkaloids: From <i>Streptomyces griseus</i> to Monoamine Oxidase</i>                           |
| I. Ninomiya, Kobe           | <i>Recent Progress in the Synthesis of Indole Alkaloids</i>   |
| S.F. Martin, Austin         | <i>Strategies for the Synthesis of Indole Alkaloids</i>   |

#### ASP RESEARCH ACHIEVEMENT AWARD LECTURE

S.W. Pelletier, Athens *Studies in the Chemistry of Natural Products*

The social program committee is planning a broad social program both for the scientific participants and for their guests. Information about local cultural exhibits and events will be available at the hospitality desk throughout the conference.

For all participants, there will be a welcoming reception on Sunday, July 21. Wine and cheese will be available at the poster sessions on Monday and Tuesday evenings, and on Wednesday afternoon there will be an afternoon trip to the Chicago Botanical Garden followed by a barbecue. Visits to the evening concert at Ravinia, which is close to the Botanical Garden, may also be arranged. The Annual Banquet will be held on Thursday evening.

We look forward to an stimulating and enjoyable annual meeting in Chicago.

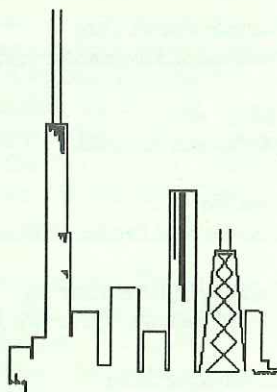
#### A NEW BABY BOY

Congratulations to Jim and Kathy Gloer on the birth of a baby boy, John Benton Gloer on October 3, 1990, 9:21 a.m. John weighed in at 7 pounds, 13 ounces. Jim is an active member of the ASP and hales from the University of Iowa.

#### NAPRALERT NOW AVAILABLE ON-LINE

NAPRALERT, a database of the natural products literature which contains the information in articles (or books) that refer to any medical use (*sensu latu*) of a living organism (generally plants), any chemical isolated from an organism, any biological testing done on either organism extracts or purified non-synthetic chemicals. The database increases at a rate of approximately 600 articles per month, which is generally sufficient to cover the natural product literature in more than 700 journals. NAPRALERT currently contains the extracted information from more than 75,000 articles or books. These articles contained information on more than 87,000 pure chemical species, more than 38,000 plant or animal species and more than 426,000 records which associate these previous record types with biological activity.

This service is now available on-line through phone modem or BITNET access. Subscriptions are available for individual academic users through government agencies or major commercial users. For further information or an application please contact: Norman R. Farnsworth, Ph.D., Research Professor of Pharmacognosy and Senior University Scholar, 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. Phone: (312)996-2246. FAX: (312)996-7107. Telex: 206243.





## NEW MEMBERS

The ASP is pleased to welcome the following new members:

### New Full Members:

Mohammad Bashir  
Analytical Biochemistry Laboratories  
Missouri

Bishambar Dayal  
Veterans Administration Medical Center  
New Jersey

Rhonda Dillman  
Eastern Montana College

Richard Erganian  
Fresno, California

Robert E. Erickson  
Universal Flavor Corp., Indiana

Vinod R. Hegde  
Schering Corporation, New Jersey

David K. Ho  
The Ohio State University

Konstantin Keller  
Western Germany

Gabriele M. Konig  
Zurich, Switzerland

Paul A. Lachance  
Rutgers University, New Jersey

May D. Lee  
Lederle Laboratories, New York

Yuh-Meei Lin  
MediChem Research, Inc., Illinois

Robert C. Lindsay  
University of Wisconsin - Madison

Denise C. Manker  
Entotech, Inc., California

Mark S. Meier  
University of Kentucky

Kensuke Nabeta  
Obihiro University of Agriculture and  
Veterinary Medicine, Japan

Charles Nickolaus  
U.S. Tobacco Mfg. Co., Inc., Tennessee

Herbert N. Nigg  
University of Florida

John M. Ostrander  
Shreveport, Louisiana

S. Jamal Shah Qadry  
Hamdard College of Pharmacy, India

Robert Rucker  
University of California - Davis

Marilyn J. Schneider  
Wellesley College, Massachusetts

Margareta Sequin  
San Francisco State University

Afaf Hassan Shehata  
Cairo University, Egypt

Georgia Sotiropoulou  
University of Patras, Greece

Mai Van Tri  
National Centre for Scientific Research of  
Vietnam

Pao-Shui Wang  
Hershey Foods Corporation, Pennsylvania

Anthony David Wright  
Zurich, Switzerland

### New Associate Members:

T. Biniiaz  
Shahid Beheshti University, Iran

Norman Patrick Coco  
Northeast Louisiana University

R.J. Davey  
Melbourne, Australia

Tina Hui  
University of Pacific, California

Zohreh Habibi Karahroudi  
Shahid Beheshti University, Iran

Mohmanzar Saberi  
Tehran, Iran

(LLOYD - Continued from page 1, Col. 3)  
famous Augsburg pharmacopoeia from 1581, 1690, 1694 and 1734; the *Pharmacopoea Augustana*, 1684; the *materia medicas* of Dioscorides from 1526, 1529, 1552, and 1598; Johann Schroder's *Vollstandige und Nutzreiche Apotheke*, 1693; numerous editions of the *Pharmacopoeia Londinensis* dating from 1653; an extensive collection of the London and Edinburgh 18th century dispensatories; *The Pharmacopoeia of the Massachusetts Medical Society* published in 1808, preceding the first *Pharmacopoeia* of the United States by 12 years; and, of course, a complete set of the U.S. pharmacopoeias as well as numerous editions of John King's influential *American Dispensatory*. In addition to these historically significant works are nearly 200 more current monographs devoted specifically to pharmacognosy.

These and many more sources are available at the Lloyd Library. They bear out the fact that this collection is a well equipped "workshop" for the practicing pharmacognosist. In order to fully appreciate these treasures those interested are encouraged to come in for a visit. The entire library staff is eager to serve your research needs.

Lloyd Library & Museum hours are as follows: 8:30 a.m. until 4:00 p.m. Monday through Friday, and 9:00 a.m. until 4:00 p.m. every first and third Saturday of the month.

Michael Flanery, Assistant Librarian  
(Editorial comment: The Lloyd Library and Museum is located at 917 Plum Street, Cincinnati, Ohio 45202. Phone (513)721-3707.

## MORE SOCIETY NEWS

### Professor Edward Leete Receives Award

Edward Leete, a member of the ASP since 1979, is the 1990 recipient of the Pergamon Phytochemistry Medal and Prize, as announced in *Phytochemistry* 29, 3065. The award is given in recognition of his sustained and outstanding contributions to phytochemical knowledge and to the biosynthesis of secondary metabolites. The hallmarks of Dr. Leete's work is the biosynthesis of natural products, especially the alkaloids. Congratulations Dr. Leete!



## FUTURE MEETINGS

### Future ASP Meetings

1991 - July 21-26 - University of Illinois at Chicago (see page 3)

1992 - July 26-31 - Williamsburg, Virginia

1993 - San Diego, California

1994 - Late July - Halifax, Nova Scotia

### American Association of Pharmaceutical Scientists Future Meetings

1991 - Sixth Annual Meeting - November 17-21 - Washington Hilton, Washington, D.C.

### American Association of Colleges of Pharmacy Future Meetings

1991 - July 7-10 - Boston, Massachusetts

### Phytochemical Society of North America Future Meetings

1991 - June 22-26 - Annual Symposium - Fort Collins, Colorado. For details contact: Helen M. Habermann, Department of Biological Science, Goucher College, Baltimore, MD 21204. Phone: (301)337-6303. FAX: (301)337-6123.

### Gesellschaft für Arzneipflanzenforschung Future Meetings

The 39th Annual Congress of the Gesellschaft für Arzneipflanzenforschung, University of Saarbrücken, Germany, September 3-7, 1991. For further details contact: Dr. Hans Becker, FR 12.3 Pharmakognosie und Analytische Phytochemie, Universität des Saarlandes, 66 Saarbrücken, F.R.G. Telephone: 0681-302-2420 (FAX 0681-302-4386).

### Phytochemical Society of Europe Future Meetings

Advances in Labiate Science - (a joint meeting with the Royal Botanic Gardens Kew and the Linnean Society) to be held at the Royal Botanic Gardens Kew, U.K., April 2-5, 1991.

Biochemical Mechanisms Involved in Growth Regulation (a joint meeting with the Italian Society of Phytochemistry and the Italian Society of Plant Physiology) to be held in Milan, Italy, September 11-14, 1991.

Phloem and Xylem Transport (a joint meeting with the Society for Experimental Biology - Plant Transport Group) to be held in St. Albans, U.K., December 16-18, 1991.

Phytochemistry and Agriculture to be held in Wageningen, The Netherlands, April 22-24, 1992.

To receive further information about the above meetings please contact: Dr. B.V. Charlwood, Plant Cell & Molecular Biology Group, Division of Biosphere Sciences, King's College London, Campden Hill Road, London W8 7AH, U.K.

Biologically Active Compounds From Non-Flowering Plants and Marine Organisms, University of Saarbrücken, F.R.G. September 3-7, 1991. For details contact: Professor Hans Becker, FR 12.3 Pharmakognosie und Analytische Phytochemie, Universität des Saarlandes, 66 Saarbrücken, F.R.G. Telephone: 0681-302-2420 (FAX 0681-302-4386).

Sixth Plant Cell Wall Meeting, Nijmegen, Netherlands, August 25-28, 1992. For more information contact: Professor M.M.A. Sassen, Department of Experimental Botany, Catholic University, Toernooiveld, 1, 6525 E D Nijmegen, The Netherlands (FAX 080-553-450).

### Other Meetings of Interest

XVIII International Symposium on Natural Products Chemistry, Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) Campus, Monterrey, Mexico, April 25-27, 1991. For details please contact: Prof. Dr. Xorge A. Dominguez, Depto. Química, I.T.E.S.M., Sucursal de Correos "J", Monterrey, N.L. 64849 Mexico. Telephone (83)582000 Ext. 4510 and 4511. Telex: 0382975 ITESME. Telefax: (83)588931.

Second Sino-U.S. Conference on Cancer Research, Shanghai, China, June 2-4, 1991. For further information please contact: Dr. R.T. Chen or Dr. L.F. Dai, Shanghai Anticancer Drug Consulting Centre, 319 Yue-Yang Road, Shanghai 200031, China. Telephone: 4311833, Ext. 5 or 7. Telex: 33275 CAAS CN. Telefax: (21)4333324. Cable: 3434.

The Second North American Tannin Conference, Michigan Technological University, Houghton, Michigan, U.S.A., June 17-21, 1991. For information please contact: Peter E. Laks, Conference Organizer, Institute of Wood Research, Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931-1295 U.S.A. Tele-

phone: (906)487-2364. FAX: (906)487-2915.

International Symposium on Essential Oils, St. Vincent, Italy, September 11-13, 1991. For further information please contact: Prof. Dr. Carlo Bicchi, Dipartimento di Scienza e Tecnologia del Farmaco, Turin University, Corso Raffaello 31, 10125, Torino, Italy.

FIP and 1991 Pharmacy World Congress - Washington, D.C., September 2-5, 1991. For further information contact Dr. Roland Hardman, President, Medicinal and Aromatic Plants Section, FIP, 'Holly Leigh', Hold Road, Bradford-On-Avon, Wiltshire, U.K. BA15 1TR.

International Symposium on New Drug Research and Development, Beijing, China, October 22-25, 1991. Address correspondence to: Prof. Cai Yu, Secretary General of ISON-DRAD, Chinese Pharmaceutical Association, A-38, Bei Lishi Lu, Beijing, 100810, China. Telex: 222523 SPAC CN. FAX: (01)831-5648.

## BOOKS OF INTEREST

*Alkaloids: Chemical and Biological Perspectives*, Volume 7, S. William Pelletier, Editor, Springer-Verlag New York, Inc., P.O. Box 2485, Secaucus, New Jersey 07096-9812. Phone: 1-800-777-4643 or (201)348-4033 (in New Jersey), 1991, 591 pp., 42 illus./Hardcover \$98.00.

*With Bitter Herbs They Shall Eat It*, Timothy Johns, The University of Arizona Press, 1230 N. Park Ave., Suite 102, Tucson, Arizona 85719, 1990, 356 pp., \$40.00.

## OBITUARY

C.S. Rukmani Iyer of the Department of Chemistry, Indian Institute of Technology in Bombay, India passed away September 19, 1990.



## AWARDS AND GRANTS

### American Society of Pharmacognosy Research Achievement Award for 1992

The American Society of Pharmacognosy Research Achievement Award is awarded annually, given candidates of sufficient merit. Candidates must be members of the American Society of Pharmacognosy and must have made distinguished contributions to natural products research. The award consists of a special honorarium of \$2,500 and travel expenses to present the award lecture at an annual meeting of the Society.

Nominations of candidates for this award are now being received for 1992. A nomination may be made by any member of the Society and must include a curriculum vitae of the nominee, a list of publications, and a statement emphasizing the nominee's accomplishments and their significance. Attachment of representative reprints may be helpful.

Nominations and inquiries should be received no later than March 1, 1991, and be directed to: John P.N. Rosazza, Research Award Committee, College of Pharmacy, University of Iowa, Iowa City, Iowa 52242. Phone: (319)335-8842.

### American Society of Pharmacognosy 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 ASP. Students should submit a research paper describing his/her own work in the area of natural products. The applications will be reviewed by the ASP Awards and Funds Committee in a blinded competition. The research paper should conform in general to the format of the *Journal of Natural Products*, except that there should be no identification of the student, faculty, or school from which the paper originated. The name and address of the contestant and his/her paper title should be provided in a separate letter accompanying the paper. The award will consist of a \$500 cash gift and all expenses paid to present the paper at the annual meeting of the ASP (restricted to meetings held in the continental U.S.).

The deadline for submission of the research paper is May 1, 1991. Applications should be sent to: Dr. Alice M. Clark, Chair, ASP Awards and Funds Committee, Department of Pharmacognosy, School of Pharmacy, The University of Mississippi, University, MS 38677. Phone: (601)232-7026. FAX: (601)232-5188.

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:

ASP small research grants from \$2000 to \$5000 are available for active members in the first five years of their career. These are one-time awards and are not subject to indirect costs. Application can be made by submission of a research proposal of no more than four double-spaced, typed pages. A budget should accompany the proposal and the investigator should also provide a statement of his current funding. A curriculum vitae of the investigator should be included with the proposal and budget. The deadline for submission of the application for these grants is March 1, 1991.

#### 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. Application can be made by submission of a short (2-3 pages) synopsis of the work to be presented, a curriculum vitae and a letter of justification for the request. All awards are contingent on the acceptance of the paper for presentation by the Scientific Program Committee. The deadline for submission of the applications is May 1, 1991.

#### 3) Travel Grants for Graduate Students:

Graduate students under supervision of a Society member are also eligible for a travel grant of \$300 to \$500 to enable them to attend a Society meeting and present a paper. Application can be 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. The deadline for submission of the applications is May 1, 1991.

#### 4) Undergraduate Research Awards:

The ASP Undergraduate Research Awards consist of a stipend of \$2000 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. Persons interested in submitting an application for consideration should send the following before March 1, 1991:

a. An outline of the research to be conducted. This should include a statement of the problem and the goal(s) of the research, and a brief discussion of the methodology. This outline, with pertinent references, should not be longer than four double-spaced, typed pages.

b. A letter of agreement by the faculty advisor (a member of the American Society of Pharmacognosy) for the project, indicating a willingness to supervise the project, and provide the facilities and equipment for the conduct of the project. The letter should also include a statement about the student's academic performance and suitability to perform the work proposed.

#### 5) Lloyd Library Museum Fellowships

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 will be awarded. These awards will be made based on excellence in both scholastic and research activities in the field of natural products. Applications are due May 1, 1991.

Although not an absolute condition of the awards, students selected are highly encouraged to submit results of their research for presentation at an annual meeting of the ASP.

Address inquiries and requests for application information to:

Dr. Alice M. Clark  
Department of Pharmacognosy  
School of Pharmacy  
University of Mississippi  
University, MS 38677  
Phone: (601)232-7026  
FAX: (601)232-5118



## SOCIETY BUSINESS

### Changes in Journal of Natural Products and Dues Structure Proposed for 1992

The Executive Committee of the Society voted in Bonn to change the frequency of publication of the *Journal of Natural Products* from six issues to twelve issues per year beginning in 1992. This is in response to the increasing number of pages and articles per issue and the desire to provide more rapid publication of important papers. The Executive Committee and the Editors felt that this action was necessary to further improve the stature of the Journal and improve its competitive position relative to other journals publishing papers in natural products.

The increased costs of production of 12 issues per year of the Journal plus the fact that the Society lost money in 1989-1990 will necessitate a substantial dues increase. The Executive Committee recommended a dues increase from the present \$45 per year for regular members to \$75 per year to be initiated in 1992. The rate for Associate members would increase from the present \$35 per year to \$50 per year. It should be noted that there has been no increase in dues since 1986. The membership present at the Bonn meeting voted to approve this increase in principle, but also voted to withhold final ratification of a dues increase un-

til the 1991 meeting in view of the relatively small number of members present in Bonn.

There was considerable discussion from some of our European members, who felt that this increased dues rate might cause them to drop out of the Society, since they have access to the *Journal of Natural Products* through their Institutional libraries, and thus derive only minimal benefit from their personal subscription to the *Journal*. Several people suggested that the Society should change its membership structure and not have the *Journal of Natural Products* be an integral part of the membership dues. In such a case the basic membership rate would be lowered, and only those who wanted to purchase personal copies of the Journal would do so. The Journal would then be offered at a special member rate which would remain considerably below the commercial subscription rate. Before such a proposal can be seriously considered, the cost impact on the Journal has to be worked out. Clearly if a large proportion of the members decided not to order the Journal, the size of the copy run would go down significantly and the cost per copy would have to rise, effecting commercial subscriptions and possibly also member subscriptions. It was therefore decided to survey the membership of the Society via the *Newsletter* to determine what proportion of the members would choose to continue to subscribe to the Journal if there was an option for membership with or without it. We also wish to

know how many members would be likely to discontinue their membership in 1992 if the projected increase in membership dues from \$45 to \$75 takes place.

We are asking all members to respond to this survey by clipping out the form below and sending the completed form and any other comments you have to Joy Reighard by April 15, 1991. Results will be published in a future *Newsletter*.

### ASP Begins Placement Service for Members

The American Society of Pharmacognosy is now offering a placement service to aid our members find employment positions or prospective 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 about this service 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.

## SURVEY ON A.S.P. MEMBERSHIP AND DUES STRUCTURE

1. Do you favor a dues structure in which a subscription to the *Journal of Natural Products* is not automatically included with membership in the A.S.P.?

yes \_\_\_\_\_ no \_\_\_\_\_ no opinion \_\_\_\_\_

2. If the *Journal of Natural Products* was optional and cost an additional \$50 per year over the basic membership rate of about \$25 per year, would you continue to take the Journal?

yes \_\_\_\_\_ no \_\_\_\_\_ no opinion \_\_\_\_\_

3. If membership cost \$25 per year and gave only the *Newsletter* and a reduced member rate for registration at the Annual Meeting, would you continue to be a member?

yes \_\_\_\_\_ no \_\_\_\_\_ no opinion \_\_\_\_\_

4. Please include any other comments you wish to make on a separate sheet of paper.

RETURN THIS SURVEY TO: DR. JOY B. REIGHARD, TEMPLE UNIVERSITY SCHOOL OF PHARMACY, 3307 N. BROAD ST., PHILADELPHIA, PA 19140 U.S.A. no later than April 15, 1991.



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



RAIN FORESTS  
THE  
SAVE

American Society of Pharmacognosy  
David J. Slatkin, Ph.D., Treasurer  
P.O. Box 13145  
Pittsburgh, PA 15243

## 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 air-mail is requested, the dues are \$85.00.

### 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 membership may be obtained by writing to the Treasurer of the Society:

David J. Slatkin, Ph.D., Treasurer

The American Society of  
Pharmacognosy

School of Pharmacy

University of Pittsburgh

Pittsburgh, PA 15261 U.S.A.

## BOOKS OF INTEREST

The following books of interest to researchers in natural products are available from: CRC Press, Inc., 2000 Corporate Blvd., N.W., Boca Raton, Florida 33431. Phone 1-800-272-7737 (Continental U.S. only) or (407)994-0563 (in Florida).

*Atlas of Microscopy of Medicinal Plants, Culinary Herbs, and Spices*, Betty P. Jackson and Derek W. Snowdon, 1990, 200 pp., 400 illus., \$59.95.

*CRC Handbook of Nuts*, James A. Duke, Ed., 1988, 384 pp., U.S. \$185.00/Outside U.S. \$215.00.

*The Medicinal Plant Industry*, R.O.B. Wijesekera, due Spring, 1991, 350 pp., U.S. \$195.00/Outside U.S. \$230.00.

*Phytopharmaceutical Technology*, P.H. List and P.C. Schmidt, 1989, 376 pp., \$89.95.

*Leafy Spices*, V. Prakash, 1990, 144 pp., U.S. \$97.50/Outside U.S. \$115.00.

*Poisonous Plant Contamination of Edible Plants*, Abdel-Fattah M. Rizk, 1990, 192 pp., 25 tables, 46 illus., U.S. \$99.50/Outside U.S. \$118.00.

*Naturally Occurring Pyrrolizidine Alkaloids*, Abdel-Fattah M. Rizk, 1990, 224 pp., 11 tables, 35 illus., U.S. \$120.00/Outside U.S. \$142.00.