



ASP NEWSLETTER

Volume 32, Number 3

Fall, 1996

The American Society of Pharmacognosy

A Message from the President

I know everyone returned from the 37th Annual Meeting of the ASP held at the University of California at Santa Cruz greatly excited about the fine scientific program that highlighted the meeting. We are all looking forward to next year's meeting in Iowa.

As I took the gavel at the business meeting on Wednesday, July 31, 1996, as your President, I set forth several goals for the upcoming year.

- (a) Facilitating communication among the membership. I will continue to use the newsletter as a primary method to keep the membership informed of developments. I will be working with Joy Reighard and Barbara Grissani to bring on line our ASP Home page. As soon as it is finished, I will publish its address and will invite your comments. I will also use E-mail as a method of communication. My address is published below and I welcome your input.
- (b) I am appointing a special Ad Hoc Committee to study our needs for more permanent

continued on page 2

Arthur Schwarting

Dr. Arthur Ernest Schwarting, one of the founding members of the American Society of Pharmacognosy, passed away on October 22, 1996 in Longwood, Florida. His death will produce profound sadness for his many former students, scientific colleagues and friends in Pharmacognosy and pharmaceutical education. The first Ph.D. conferred by the College of Pharmacy at Ohio State University was to



continued on page 3

ASP'S 38th ANNUAL MEETING

The 38th Annual Meeting of the ASP will be held in the Iowa Memorial Union on the campus of the University of Iowa from July 26-30, 1997. The University of Iowa is in Iowa City which is located within 300 miles of Chicago, Kansas City, Minneapolis and St. Louis. The city is accessible by several airlines serving the Cedar Rapids, Iowa airport. ASP members should expect to receive detailed information, registration forms, etc. in March, 1997.

continued on page 11

President's Message continued from page 1

staffing of our society. Our society continues to grow with a membership roster around 1,100 as of July 1996. The co-publishing of the *J. Nat. Prod.* with the American Chemical Society has changed the nature of the Treasurer's position. All of these issues will be studied this year.

- (c) I will also be appointing another Ad Hoc Committee to study the Long-Range Impact on Policy (L.I.P.) that the ASP might achieve. I have asked this committee to study the feasibility of having another interim meeting on herbal botanical drugs.
- (d) We need volunteers to host future meeting sites. Please see the list of previous meeting sites (prepared by Dave Carew). The Executive Committee generally tries to have sites on a rotating basis so that every region will host a meeting every 4-5 years. If you are interested in hosting an ASP meeting, please contact me so that I may explain the procedure for putting forth a proposal.

I have also listed here the 1996-1997 Committees and their duties as described in the By-laws of the ASP (pages 4 and 5). The Standing Committee assignments are dictated by the constitution, whereas the Ad Hoc Committees are appointed each year by the incoming President. The duties as listed here will serve as the charges for the Standing Committees. Most Ad Hoc Committees already know their duties. Other Ad Hoc Committees will be receiving their specific charges soon. Remember, all Committee Chairs are required to submit written reports at the Executive Committee and to be prepared to present them at the business meeting as well.

Finally, I am excited and challenged by the upcoming year and promise to provide leadership to the ASP as it grows and changes. This is a great Society and I am proud to serve as your President.

Charles D. Hufford
chufford@sunset.backbone.olemiss.edu

Sites of Annual Meetings of the American Society of Pharmacognosy Since Its Founding in 1959

Year	Site	Year	Site
1959	University of Illinois (Chicago)	1981	Boston, Mass.
1960	University of Colorado (Boulder)	1982	University of Pittsburgh
1961	University of Houston	1983	University of Mississippi (Oxford)
1962	University of West Virginia	1984	University of Texas (Austin)
1963	University of North Carolina	1985	University of North Carolina
1964	University of Pittsburgh	1986	University of Michigan
1965	University of Rhode Island	1987	University of Rhode Island
1966	University of Minnesota	1988	Park City, Utah
1967	University of Michigan	1989	Puerto Rico
1968	University of Iowa	1990	Bonn, Germany
1969	Oregon State University	1991	Chicago, IL (downtown)
1970	Vienna, Austria	1992	Williamsburg, Virginia
1971	Washington, D.C.	1993	San Diego, California
1972	Ohio State University	1994	Halifax, Nova Scotia
1973	Jekyll Island (Georgia)	1995	University of Mississippi (Oxford)
1974	Chicago, IL (downtown)	1996	University of California at Santa Cruz
1975	University of Connecticut	1997	University of Iowa
1976	Telemark Resort (Cable, Wisconsin)	1998	Orlando, Florida
1977	Seattle, Washington	1999	Leiden, The Netherlands
1978	Oklahoma State University (Stillwater)	2000	?
1979	Purdue University	2001	?
1980	Strasburg, France	2002	?

Arthur Schwarting in 1943. His major was pharmacognosy and his major advisor was David Hiner. More details of Arthur Schwarting's significant life accomplishments have been published by former Schwarting student, Tip Tyler in JNP 41:292 (1978) and JNP 55:833 (1992).

Born in Waubay, South Dakota on June 8, 1917, Schwarting received the B. S. in Pharmacy from South Dakota State College in 1940, and the Ph.D. degree from the Ohio State University with a major in Pharmacognosy. In 1943, Art accepted a faculty position at the University of Nebraska where he remained until 1949 when he joined the faculty at the University of Connecticut, School of Pharmacy.

It was first at Nebraska and later to a much greater degree at the University of Connecticut that Schwarting served as major professor to graduate students who enthusiastically experienced his revolutionary teaching of the science of Pharmacognosy. Prior to Schwarting, Pharmacognosy teaching in the United States was organized largely from a botanical point of view including emphasis on taxonomic, morphologic and histologic aspects of natural drugs. Schwarting classified plant drugs on the basis of their active chemical constituents and included chemical, biochemical and biosynthetic considerations in defining modern Pharmacognosy. The adoption of the Schwarting approach world-wide has been one of the most prominent factors underpinning the growth and development of the ASP, and of Pharmacognosy as a science.

It was Arthur Schwarting who played the major role in the formation of the American Society of Pharmacognosy in 1959. In 1960, he became editor of

Lloydia, a quarterly journal of pharmacognosy and allied biological sciences, which became officially affiliated with the ASP in 1961. The journal name was changed in 1970 to, *The Journal of Natural Products* as we know it today. Art Schwarting served as editor for JNP for seventeen years from 1960-1976. In 1970, professor Schwarting was appointed Dean of the School of Pharmacy at the University of Connecticut, a post he held until 1980 when he retired. In 1971-1972, Dean Schwarting served as president of the American Association of Colleges of Pharmacy. He was the recipient of numerous honors and awards including the American Pharmaceutical Association Foundation Research Achievement Award in 1964; the University of Connecticut Alumni Association Award for Faculty Excellence in 1965; and the Centennial Achievement Award from The Ohio State University in 1970. For his long and outstanding service to the ASP, Schwarting was named an Honorary Member of the Society in 1981.

Dr. Arthur E. Schwarting was an outstanding teacher at both the undergraduate and graduate levels. His intellect, patience and sense of humor were powerful assets to a dedicated teacher-scientist-scholar who motivated and superbly served as major professor for graduate students over a period of three decades.

Arthur Schwarting is survived by his wife Roberta (Bobbie) and two sons Michael and Gary and several grandchildren. His son Stephen, a graduate of the Naval Academy at Annapolis was killed in a plane crash in 1973.

Provided by: Dave Carew and Jack Rosazza, University of Iowa, two of Art's former students.



In Memoriam

Jan Grzybek, Krakow, Poland
Julia F. Morton, Coral Gables, Fla.

Duties of Committees (Section 1, - By Laws)

- a. The Executive Committee shall carry out the duties assigned to it in the Constitution and shall have the power to consider or act upon other matters in the intervals between annual or other meetings of the Society.
- b. The Membership Committee shall promote the increase in Society membership.
- c. The Honorary Membership Review Committee shall carry out its duties as prescribed under the guidelines approved by the Executive Committee. These duties shall include the receipt of nominations for honorary membership in the Society from the membership and the presentation of the committee recommendations to the Executive Committee.
- d. The Scientific Program Committee shall consider selection of the topics for the program at the Annual Meeting of the Society, arrange for suitable speakers, issue the call for research papers, make necessary arrangements for conducting the scientific program at the Annual Meeting, and be responsible for securing funds for the support of the program under the guidelines approved by the Executive Committee.
- e. The Local Program Committee shall arrange for a meeting place and accommodations at the local level and make other arrangements necessary for conducting the annual meeting of the Society under the guidelines approved by the Executive Committee. The Local Program Committee shall also be responsible for publicizing the Annual Meeting and promoting participation in it. At its discretion, the Local Program Committee may request assistance from the Publicity Committee for publicizing and promoting the Annual Meeting.
- f. The Committee on Awards and Funds shall obtain and productively maintain funds presented to the Society and determine policy for the disbursement of such bequests and funds.
- g. The Nominating Committee shall generate a slate of candidates for each elective office. Candidates shall be selected from the active membership of the Society. The Nominating Committee must present the names of at least two candidates for each elective office to the membership at the Annual Meeting.
- h. The Publications Committee shall maintain and facilitate the orderly publication of the Journal of the Society.
- i. The Constitution and By-Laws Committee shall be responsible for maintaining the currency and integrity of the Constitution and By-Laws of the Society. As required by the Constitution, this committee shall draft amendments to the Constitution and/or By-Laws to address the ever-changing needs of the Society, and submit these changes to the Executive Committee at least two months in advance of the Annual Meeting.
- j. 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. 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.
- k. The Research Achievement Award Committee shall be charged with the responsibility for the selection of the recipient of the ASP Research Achievement Award from the membership of the Society. No more than one (1) award winner may be selected in each year. Selection shall be based primarily on the research achievements of each candidate in the area of natural products, but the Committee may also consider the relatedness of the research to the Society's objectives and other criteria, at its discretion. Former recipients of the award shall not be eligible for consideration.
- l. The Tellers Committee counts and verifies all returned ballots for the election of officers.

Committee Assignments 1996-1997

ASP EXECUTIVE COMMITTEE

Charles D. Hufford	President
Kenneth L. Rinehart	Immediate Past President
Robert P. Borris	Vice-President
William J. Keller	Secretary
David J. Slatkin	Treasurer
Robert J. Krueger	Assistant Treasurer
A. Douglas Kinghorn	Editor, <i>J. Nat. Prod.</i>
John Cardellina, II	Member (1994-1997)
S. William Pelletier	Member (1995-1998)
Marilyn K. Speedie	Member (1996-1999)

OTHER STANDING COMMITTEES

Membership Committee

Robert P. Borris, Chair
John A. Beutler (year 2 of 2)
Marc Slattery (year 1 of 2)

Honorary Membership Review Committee

Arnold Brossi, Chair (year 3 of 3)
David P. Carew (year 2 of 3)
James E. Robbers (year 1 of 3)

Publicity Committee

Samir A. Kouzi, Chair (year 1 of 3)
Georgia Persinos (year 2 of 3)
Chris Beecher (year 1 of 3)
David J. Slatkin (*ex officio*)
John P. Rosazza (*ex officio*)
Joy B. Reighard (*ex officio*)

Publications Committee

A. Douglas Kinghorn, Chair (year 6 of 6)
Richard G. Powell (year 6 of 6)
David G. I. Kingston (year 3 of 5)
Harry Fong (year 3 of 5)
James E. Robbers
David J. Slatkin
ASP Members of the Editorial Advisory Board

Tellers Committee

William J. Keller, Chair
Tea Sam Roe
Robert M. Riggs

Constitution of By-laws Committee

Tawnya McKee, Chair (year 3 of 3)
Audrey S. Bingel (year 2 of 3)
Ikhlas Khan (year 1 of 3)

Awards and Funds Committee

John Cardellina, II, Chair (year 5 of 5)
Susan Tafur (year 5 of 5)
James B. Gloer (year 4 of 5)
Alex Jurgens (year 3 of 5)
Larry A. Walker (year 1 of 5)
Robert J. Krueger (*ex officio*)

Nominating Committee

Kenneth L. Reinhart, Chair
Gordon M. Cragg
James McAlpine

Research Achievement Awards Committee

James E. Robbers, Chair (year 3 of 3)
A. Ian Scott (year 2 of 3)
Robert Petit (year 1 of 3)

Local Program Committee

1997 John P. Rosazza, Chair
Katherine B. Gloer
James B. Gloer
William J. Keller (*ex officio*)
Roy K. Okuda (*ex officio*)
1998 Bill Baker
Howard Miles
Amy Wright
Susan Bennett
Sarath Gunasekera
Nanda Gulavita
Russell Kerr
Frank Mari

Scientific Program Committee

1997 James B. Gloer, Chair
Katherine B. Gloer
David P. Carew
James McAlpine
Carl E. Snipes
Roy K. Okuda (*ex officio*)
William J. Keller (*ex officio*)
1998 Bill Baker
Howard Miles
Amy Wright
Susan Bennett
Sarath Gunasekera
Nanda Gulavita
Russell Kerr
Frank Mari

ASP Foundation Board of Directors

Kenneth L. Rinehart, Chair
Charles D. Hufford, Vice-Chair
William J. Keller, Secretary
Robert J. Krueger, Treasurer
John H. Cardellina, II (at large)
S. William Pelletier (at large)
Susan S. Tafur (at large)
Otto Sticher (at large)
John M. Cassady (at large)
Alice M. Clark (at large)

AD HOC COMMITTEES

Auditing Committee

David P. Carew, Chair
Norman Farnsworth
Guy T. Carter

ASP Job Service Committee

Joseph Betz, Chair
Dan A. Benigni
Louis R. Barrows

Regional Sections Study Committee

Roy Okuda, Chair
Michael S. Tempesta
Tadeusz F. Molinski
Tannis Jurgens
Manfred G. Reinecke

Resolutions Committee

Robert L. Chapman, Chair
Mikhail D. Antoun
Cedric Pearce

Newsletter Committee

Joy B. Reighard, Editor
Barbara H. Grissani, Editorial Asst.

Coalition of Pharmaceutical Sciences Association

John M. Cassady, ASP Representative

Continuing Education Committee

Robert J. Krueger, Chair
Jerry L. McLaughlin
Georgia Persinos

Journal Distribution Committee

Samir Kouzi, Chair
Chris W. Beecher
Norman Farnsworth

Long Range Planning Committee

Robert P. Borris, Chair
Gordon Cragg
Mike Tempesta
Alice M. Clark
Kenneth L. Rinehart

Personnel Transition Committee

David J. Slatkin, Chair
Chris M. Ireland
Alice M. Clark
William J. Keller

L.I.P. Committee

Alice M. Clark, Chair
Varro E. Tyler
A. Douglas Kinghorn

REPORTS ON ...

37th ANNUAL MEETING

The 37th Annual Meeting of the American Society of Pharmacognosy was held July 27-31, 1996 in Santa Cruz, California. The setting was the beautiful campus of the University of California at Santa Cruz, built within a redwood forest and creeping with banana slugs, the campus's mascot. This was the first time an ASP meeting was scheduled to begin on a Sunday, a change which was made to save on air fare for attendees and one which was apparently well received. There were over 500 registrants for the meeting. The scientific program consisted of an overall theme of *Biotechnology and Natural Products* with six symposia being scheduled.

In addition, a symposium in tribute to Matt Suffness was presented on Monday, July 29th which was organized by John M. Cassady, Ph.D. from the Ohio State University and Gordon M. Cragg, Ph.D., from the National Cancer Institute. The symposium focused on Taxol and discovery of antitumor agents. Attendees presented a total of 240 posters and 50 oral presentations on the various aspects of their research. The poster sessions were accompanied by a "strolling buffet dinner" to allow attendees to view the posters without being rushed.

Other social events included the opening reception and barbecue and the annual banquet which took place on the Santa Cruz Boardwalk. The meeting was certainly successful both scientifically and socially.

Thanks to the organizing committee for all of their efforts: Roy K. Okuda (San José State University) General and Local Program Chair; Phil Crews (University of California, Santa Cruz) Scientific Program Chair; Michael S. Tempesta (Larex, Inc.) Budget and Finances; Tadeusz Molinski (University of California, Davis).

SYMPOSIUM REPORT... "SEARCH FOR MEDICINES IN PLANTS"

A symposium under the title of "Búsqueda de Medicamentos en Plantas" ("Search for Medicines in Plants") was held on June 3-4, 1996, at the campus of the ESPOCH (Esuela Superior Politécnica de Chimborazo), Riobamba, Ecuador. Invited speakers were Drs. Cindy Angerhofer, Chris W. Beecher, Geoffrey A. Cordell, Djaya D. Soejarto (all from the Program for Collaborative Research in the Pharmaceutical Sciences, PCRPS, Department of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, University of Illinois at Chicago), Prof. Victor H. Villacres (Instituto de Ciencias Naturales, Universidad Central, Quito), Profs. Cumanda Jativa, Rosa E. Pinos and Francisco Portero (all from the Faculty of Sciences, ESPOCH). June 3 was registration, inauguration and reception of the symposium, while June 4 was dedicated to presentations. The following papers (in that order) were presented: "The Use of the Computer Data Bases NAPRALERT and MEDFLOR in the Search for New Medicinal Agents from Plants" (Beecher), "Goals of Exploration in the Development of Medicines from Tropical Rain Forest Plants" (Soejarto), "Biodiversity in the Search for New Drugs in the 21st Century" (Cordell), "Discovery and Characterization of Compounds with Antimalarial Potential from Natural Products" (Angerhofer), "Bioactivity of Amazonian plants" (Villacres), and "Pastaza Experimental Station of ESPOCH: A Resource in the Search for New Medicines in Plants of the Tropical Rain Forests" (Pinos, Jativa, Portero). Two hundred forty registered participants, the greater part of which consisted of members of the Ecuadorian academic community and professionals, attended the symposium.

This symposium was one of several events that had been held as part of a UIC-ESPOCH Scientific Cooperation, whose goal is collaborative research in the search for biologically active molecules from botanical inventory of 500-hectares tropical rain forests in the Amazonian highlands of Ecuador, which form part of ESPOCH's Pastaza Experimental Station near Puyo, about 3 hours by road from Riobamba. The symposium was organized by the ESPOCH and UIC Coordinators of the Scientific Cooperation, Prof. Pinos and Prof. Soejarto, respectively, with funding support from ESPOCH, UIC, FUNDACYT and Shaman Pharmaceuticals. Other events that had been held as part of this Cooperation were a Medicinal Plants Course

continued on page 7

...SCIENTIFIC MEETINGS

THE MONROE WALL SYMPOSIUM

On June 2-5, 1996, a symposium entitled "The Monroe Wall Symposium: Harnessing Biodiversity for Therapeutic Drugs and Foods" was held in New Brunswick, New Jersey under the auspices of Rutgers University. Dr. Wall is an alumnus of this University and in 1994 received two awards, The Rutgers Distinguished Alumni Award and the Cook College George H. Cook Award. Dr. Wall gave the keynote address, "Camptothecin and Taxol: Discovery to Clinic." He is an honorary member of the ASP and received the ASP Research Achievement Award in 1990. Many members were invited speakers, including Drs. Eloy Rodriguez, M.C. Wani, K.L. Rinehart, Jr., Robert Borris, Minehard Zenic, Gordon Cragg, Rnuka Misra, S. M. Hecht, K.H. Lee, J.D. McChesney, Lester Mischer, A.DerMarderosian, and A.D. Kinghorn. Dr. Gordon Cragg gave a talk on "Natural Product Drug Discovery and Development: The NCI Experience." At the conclusion of his address, he presented an Award of Recognition from NCI to Drs. M.E. Wall and M.C. Wani which read "In Appreciation of your contributions to cancer chemotherapy through the discovery and development of taxol and camptothecin."

NEWS FROM THE NORTHERN CALIFORNIA SECTION OF THE ASP

William Fenical of the Scripps Institution of Oceanography, University of California, San Diego, presented the Second Clinimetrics Lecture in Natural Products Drug Discovery on November 1, 1996 at San Jose State University. His lecture "*Novel Biomedicines from the World's Oceans*" attracted an audience of over 125, including representatives of 18 companies and research organizations, as well as a class of 15 high school students. The talk was followed by a reception and 44 joined in a congenial dinner at local microbrewery-restaurant. The lecture was co-hosted by the Northern California Section of the ASP (NCS-ASP) and the SJSU Department of Chemistry, and was funded by Clinimatics Research

Associates, Inc. of San Jose.

The NCS-ASP will be hosting several events throughout the year. All members and associate members of the ASP in the Northern California region will receive notices about upcoming local meetings. If you would like additional information about the NCS-ASP, contact:

Roy K. Okuda, Ph.D.
Department of Chemistry
San Jose State University
San Jose, CA 95192
408-924-2525 (voice)
408-924-4945 (fax)
okuda@sjsuvm1.sjsu.edu

continued from page 6
at ESPOCH by a UIC faculty (Dr. D. D. Soejarto) and two joint plant collecting expeditions. The UIC-ESPOCH Cooperation covers a period of August 1, 1995 - July 31, 1997, renewable through mutual agreement.

D. D. Soejarto
PCRPS, College of Pharmacy
Univ. of Illinois at Chicago
Chicago, IL
USA

Rosa E. Pinos
Escuela Doctorado de
Quimica
Fac. de Ciencias,
ESPOCH
Riobamba, Ecuador



The Society extends a warm welcome to the following new Active and Associate members.

ACTIVE MEMBERS

Pedro Abreu
Fac. Ciencias e Tecnologia
Quinta Da Torre da Caparica, Portugal

Ambrose Amarquaye
Grants Pass, Oregon

Masahiro Aoki
Nippon Roche Research Center
Japan

Edgar J. Asebey
Andes Pharmaceuticals, Inc.
Washington, DC

Miguel Yus Astiz
Universidad de Alicante

Ellen Barrabee
Schering Plough Research Institute
Kenilworth, New Jersey

Neil A. Belson
Pharmacogenetics, Inc.
Bethesda, Maryland

Heidi Bokesch
Saic-Frederick
Frederick, Maryland

Timothy Bugni
University of Montana
Butte, Montana

Charles L. Burandt, Jr.
University of Mississippi

Basil A. Burke
Plant Research Technologies, Inc.
Sunnyvale, California

Tracy Burzycki
Pfizer Central Research
Groton, Connecticut

Fredyc Diaz Castillo
Universidad de Cartagena
Cartagena de Indias, Colombia

Jody Chan
Shaman Pharmaceuticals
South San Francisco, California

Zbigniew Cichacz
Cancer Research Institute
Arizona State University

Priscila De Almeida Leone
Griffith University
Queensland, Australia

Janice Delmar
NPS Pharmaceuticals, Inc.
Salt Lake City, Utah

Claude Dufresne
Merck Research Labs
Rahway, New Jersey

Jose Luis Eiroa
Univ.d de Las Palmas de Gran Canaria
Islas Canarias, Spain

Martin Garraffo
National Institutes of Health
Bethesda, Maryland

Mahanandeeswar Gattu
Augusta, Georgia

Constance E. Grauds
Assoc. of Natural Medicine Pharmacists
Forestville, California

Patricia L. Grilione
San Jose State University
San Jose, California

Gregory Haley
American Cyanamid
Princeton, New Jersey

Gerald B. Hammond
University of Massachusetts
North Dartmouth, Massachusetts

Haiyin He
America Home Products Co.
New York

Ryuichi Higuchi
Kyushu University
Fukuoka, Japan

Lee Seung Ho
Yeungnam University
Kyongsan, Korea

Shi-Lin Hu
Academy of Traditional Chinese
Medicine
Beijing, China

Jasmin Jakupovic
Technical University of Berlin
Berlin, Germany

Hiranthi Jayasuriya
Merck & Company
Rahway, New Jersey

Randy Julian
Eli Lilly and Company
Indianapolis, Indiana

Soo-Un Kim
Seoul National University
Suwon, Korea

You-Sun Kim
Duksung Women's University
Seoul, Korea

Robin B. Kinnel
Hamilton College
Clinton, New York

Silvia Konetschny-Rapp
Boehringer Mannheim
Mannheim, Germany

Fangming Kong
Wyeth Ayerst Research
Pearl River, New York

Cecil D. Kwong
Southern Research Institute
Birmingham, Alabama

Yao-Haur Kuo
Taipei, Taiwan

Thomas Ostfeld Larsen
Technical University of Denmark
Lyngby, Denmark

Choonghwan Lee
Korea Research Inst. of
Bioscience & Biotechnology

Suzana Guimarães Leitão
Federal University of Rio de Janeiro
Rio de Janeiro, Brazil

Cong Jun Li
University of Oklahoma
Norman, Oklahoma

Xiaohua Li
Merck Company
Rahway, New Jersey

Yun-Lian Lin
Taipei, Taiwan

Dorte Lindhurst
Zyno Genetics
Seattle, Washington

David Q. Liu
Wyeth-Ayerst Research
Pearl River, New York

Hui-Erh Liu
National Science Council
Taipei, Taiwan

Greg Loewen
University of Montana
Butte, Montana

Mariana López
Univ. de Las Palmas de Gran Canaria
Islas Canarias, Spain

Viorica Lopez-Avila
Midwest Research Institute
Mountain View, California

Xianjian Ma
Pfizer, Inc.
Groton, Connecticut

Galal Maatoog
University of Arizona

Mary MacDougall
Pfizer, Inc.
Groton, Connecticut

William M. Maiese
Wyeth-Ayerst Research
Pearl River, New York

Shunyo Matsunaga
Osaka University of Pharm. Sci.
Osaka, Japan

Dominick Mendola
CalBioMarine Technologies, Inc.
Carlsbad, California

Youssef W. Mirhom
Bio-Botanica Inc.
Haupauge, New York

Richard E. Moore
University of Hawaii
Honolulu, Hawaii

Murray H.G. Munro
NCI/FCRF/LDDR
Frederick, Maryland

Fumihito Nagashima
Tokushima Bunri University
Tokushima, Japan

Abesinghe A. Padmapriya
Univera Phytoceuticals, Inc.
Broomfield, Colorado

Giovanni Palmisano
Dipart. Scienza Tecn. Farmaco
Torino, Italy

Guido F. Pauli
Westfälische Wilhelms Universität
Münster

Christopher Pazoles
Phytera, Inc.
Worcester, Massachusetts

Francisco Perez
Univ. de Las Palmas de Gran Canaria
Islas Canarias, Spain

Jay Ram
Hakalau, Hawaii

Amala Raman
King's College London
London

Kamalesh Rao
Shaman Pharmaceuticals, Inc.
San Francisco, California

Robert C. Reynolds
Southern Research Institute
Birmingham, Alabama

Jim Rogers
Clinimetrics Research Inc.
San Jose, California

Ethon B. Russo
University of Montana

Shigeru Sato
University of Rhode Island
Kingston, Rhode Island

Annehieke Scheffer
Specs and Biospecs
Rijswijk, Netherlands

Marvin Schulman
Merck & Co. Inc.
Rahway, New Jersey

Daniel Sefton
Pfizer Central Research
Groton, Connecticut

David Sesin
Shaman Pharmaceuticals
South San Francisco, California

Ben Shen
University of California
Davis, California

Ya-Ching Shen
National Sun Yat-Sen University
Kaohsiung, Taiwan

Yue-Zhong Shu
Bristol-Myers Squibb Company
Wallingford, Connecticut

Scott Siegel
Phytera, Inc.
Worcester, Massachusetts

Chris Silua
Chroma Xome Corp.
San Diego, California

Tim Smitka
Eli Lilly & Co.
Indianapolis, Indiana

Robert M. Snapka
The Ohio State University
Columbus, Ohio

Nan jun Sun
Ohio State University
Columbus, Ohio

Chung Ki Sung
Chonnam National University
Kwangju, Korea

Takao Tanahashi
Kobe Pharmaceutical University
Kobe, Japan

Douglas Trainor
Transborder Dataflow Systems
Westwood, California

Jorge Triana
Universidad de Las Palmas de Gran
Canaria

Islas Canarias, Spain
Mervyn J. Turner
Merck & Company, Inc.
Rahway, New Jersey

Bradford C. Van Wagenen
NPS Pharmaceuticals, Inc.
Salt Lake City, Utah

Luisella Verotta
Milan, Italy

Ronald F. Vesonder
USDA/ARS/NCAUR
Peoria, Illinois

Paul C. Watts
Pfizer, Inc.
Groton, Connecticut

Hans E. Westenburg
Department of Med. Chem. and
Pharmacognosy
Chicago, Illinois

Kiyoshi Yoshinari
Nippon Roche Research Center
Kanagawa, Japan

Brad Zaro
Clinimetrics Research Inc.
San Jose, California

J. Gregory Zeiluis
MBI International
Lansing, Michigan

Ning Zhao
Wyeth-Ayerst Research
Pearl River, New York

ABC FORMS NEW ADVISORY BOARD; TYLER NAMED AS TRUSTEE

The American Botanical Council has announced the formation of its new Advisory Board. This new board consists of thirty-eight distinguished academics, medical doctors, researchers, herbalists, naturopathic physicians, journalists and leaders in the fields of herbs and medicinal plants. The composition of this board reflects the explosive growth in interest in the world of herbal medicine and the dedication and talented professionals in this movement.

In addition to its size, the strength of this board is in the diversity and depth of experience of its members. The board includes fifteen professors, top researchers of leading companies, herbalists, FDA scientists and leading authors in the field of herbs and medicinal plants. The Advisory Board will play a crucial role in the non-profit research and educational work of the American Botanical Council.

"We are very excited about the prospects of this dynamic, talented and diverse new board. We welcome them and look forward to their participation in and expansion of the work of the American Botanical Council," said the ABC Board of Trustees.

The ABC Board of Trustees also recently announced the election of Varro E. Tyler, Ph.D. as a trustee. Dr. Tyler, the Lilly

Distinguished professor of Pharmacognosy at Purdue University, is widely respected for his extensive knowledge of herbs and phytomedicines and author of several leading books, and is co-author of two textbooks on medicinal plants.

ABC was incorporated in 1988 with a mission to provide accurate scientific information on the responsible uses of herbs and medicinal plants. This process will be aided by the participation, experience and knowledge of the expanded Board of Trustees and the formation of the new Advisory Board.

ABC is the publisher of the highly acclaimed quarterly journal, *HerbalGram*. The magazine is peer reviewed by members of the Advisory Board in order to insure scientific accuracy and validity, creating one of the most reliable overviews of the contemporary herb and medicinal plant world. ABC contributes to the education of the public by providing the largest mail order selection of books on herbs and herb research available, by conducting ethnobotanical tours of the tropical rainforests of Costa Rica, Belize, and the Peruvian Amazon, by offering continuing education programs for pharmacists, by publishing the translation of the German Commission E monographs, and through numerous other programs and activities.

NEW BOOKS AND JOURNALS

From Alaken, Inc.

305 W. Magnolia St.,
Suite 196,
Fort Collins, CO 80521,
U.S.A.
Fax: 970-226-8655
Tel., 970-223-5348

Biochemical Aspects of Marine Pharmacology

edited by Philip Lazarovici,
Micha E. Spira, Eliahu
Zlotkin

232 pages, Hard Cover,
ISBN 1-880293-07-02,
1996, \$84.00

The Toxic Action of Marine and Terrestrial Alkaloids

edited by Murray S. Blum

327 pages, Hard Cover,
ISBN 1-880293-04-8, 1995
\$89.95

and

Chemistry and Toxicology of Diverse Classes of Alkaloids, edited by Murray S. Blum

386 pages, Hard Cover,
ISBN 1-880293-06-4, 1995
\$99.50r

These books emphasize the toxic action of alkaloids from diverse sources such as marine, plant and animal tissue. As a set, these last two books are \$159.45.

continued next page

Molecular Approaches to Food Safety: Issues Involving Toxic Microorganisms edited by Mel Eklund, John L. Richard, and Katsutoshi Mise

532 pages, Hard Cover, ISBN 1-880293-05-6, 1995 \$110.00

This reference book describes the molecular structure and function of microbial toxins and discusses issues involving toxic microorganisms.

From Programa Iberoamericano de Ciencia y Tecnología (CYTED)

Subprograma X. Química Farmacéutica

Apartado 10767

Estafeta universitaria

Panama, Rep. de Panama

Fax: (507) 264-0789

Tel: (507) 269-7654

270 Plantas Medicinales

Iberoamericanas, edited by Mahabir P. Gupta.

1995, 617 pages, ISBN 958-9206-50-6, \$45.00 U.S. plus \$15 shipping.

This book is in Spanish and has 270 monographs on Iberoamerican plants used in traditional medicine in 21 countries. Each monograph has an illustration or color photograph, scientific name, family, common names, botanical description, history, ethnomedical uses, chemistry, pharmacology and biological activity and references.

...Our New Associate Members

ASSOCIATE MEMBERS

Yohannes Alen
Okayama University
Okayama, Japan

Tawfeq Alhowiriny
Pittsburgh, Pennsylvania

M. Bahadori
Jamaica, New York

Dale P. Clark
Santa Cruz, California

Anissa Elayadi
La Jolla, California

Andrew Erickson
Michigan State University

Ho-Jae Lee
Korea Research Institute
of Bioscience & Biotechnology
Taejon, Korea

Ibrahim Nadeeri
Jamaica, New York

Jeffery A. Pfeifferkorn
Cleveland, Ohio

Lesbeth C. Rodriguez
Boca Raton, Florida

Courtney M. Starks
La Jolla, California

Timothy Volm
Iowa City, Iowa

ASP's 38th Annual Meeting

continued from page 1

The meeting will present an exciting scientific program with ample opportunity for interaction of meeting participants. Two symposia are planned. The titles and speakers follow.

Diversity in Natural Products Chemistry:

Sources and Applications

Gerald Bills (Merck)
John Cardellina (NCI LDDR)
Cliff Gerwick (Dow Elanco)
Chris Ireland (U. of Utah)
Chris Pazoles (Phytera)
Lourival D. Possani (UNAM)
Hans Reichenbach (GBF-Braunschweig)

Biocatalysis and Biosynthesis of Natural Products:

Neil C. Bruce (Cambridge U., UK)
Tomas Hudlicky (U. of Florida)
Craig Townsend (Johns Hopkins)

Recommendations for speakers for a Young Investigators Symposium are welcome. Please send your suggestions to either Jack Rosazza or Jim Gloer.

For further information on the 1997 ASP Meeting, contact John Rosazza, Biocatalysis & Bioprocessing Center, 2501 Crosspark Road, C-100 Oakdale Research Park, University of Iowa, Iowa City, IA 52242-5000 (Email: John-Rosazza@uiowa.edu) or James Gloer, 381 Chemistry Building, University of Iowa, Iowa City, IA 52242 (Email: James-Gloer@uiowa.edu).

CALLS FOR APPLICATIONS FOR AWARDS...

Research Achievement Award

The American Society of Pharmacognosy selects a recipient for the ASP Research Award annually. Candidates must be members of the Society who have made outstanding contributions to research on natural products. The award consists of an honorarium of \$2,500 and travel expenses to present the award lecture at an annual meeting of the Society.

Previous winners of the ASP Research Award are:

- 1985 - Koji Nakanishi
- 1988 - Heinz G. Floss
- 1989 - Kenneth L. Rinehart
- 1990 - Monroe E. Wall
- 1991 - S. William Pelletier
- 1992 - Henry Rapoport
- 1993 - A. Ian Scott
- 1994 - Paul J. Scheuer
- 1995 - George Robert Pettit
- 1996 - Meinhart H. Zenk
- 1997 - John W. Daly

Nominations for the 1998 award are due by April 1, 1997 to the Chairman of the Research Achievement Award Committee and should consist of a nominating letter, a curriculum vitae of the candidate, and letters from three individuals who are familiar with the candidate's scientific accomplishments. Nomination documents should be submitted in triplicate to: James E. Robbers, Ph.D., School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, IN 47907. Phone: (317)494-1456. FAX: (317)494-1414.

Awards and Grants for Students

To stimulate interest in all phases of natural products research, the American Society of

Pharmacognosy is offering the following awards and grants:

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 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. Please include a self-addressed stamped postcard (no smaller than 3.25 by 5.5 inches) with the title of the proposal and name of the applicant. This postcard will serve as notification of receipt of the application. 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 **March 1, 1997**.

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. Persons interested in submitting an application for consideration should send the following before **March 1, 1997**:

- a. An outline of the research to be conducted, written by the student submitting the application. 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 transcript of all college work attempted.
- c. A curriculum vitae.
- d. 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.
- e. A self-addressed stamped postcard (no smaller than 3.25 by 5.5 inches) with the title of the proposal and name of the applicant. This postcard will serve as notification of receipt of the application.

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.

3. Lloyd Library and Museum Travel Grants.

This grant program was estab-

lished 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. Application can be made by submission of a short (1-3 pages) synopsis of the work to be presented, a curriculum vitae, a current transcript and a letter of recommendation from the advisor. Applications are due March 1, 1997.

4. Travel Grants for Graduate Students.

Graduate students under the 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 (1-3 pages) synopsis of the work to be presented, a curriculum vitae and a letter of justification/recommendation from the advisor. All awards are contingent on the acceptance of the paper for presentation by the Scientific Program Committee. Applications are due March 1, 1997.

5. Kilmer Prize

Beginning with the 1994-1995 awards cycle, selection and presentation responsibility of this prize was transferred from the APhA Academy of Pharmaceutical Research and Science Awards Committee to the American Society of Pharmacognosy Awards Committee.

Criteria: Both undergraduate and graduate students in schools or colleges of pharmacy are eligible for

this award. The student does not have to be a member of the American Pharmaceutical Association or the APhA Academy of Students of Pharmacy or the American Society of Pharmacognosy to qualify. Student applicants should submit a full research paper (introduction, experimental, results, discussion and references, with figures and tables as appropriate) and a letter certifying status from the university registrar or graduate dean. The deadline for submission of applications is March 1, 1997.

Nature of Award: The Kilmer Prize consists of a gold key, suitably inscribed, bearing the likeness of Dr. Kilmer. The APhA makes available a complimentary registration and up to \$300 to enable the winner to attend the meeting at which the award will be given. The American Society of Pharmacognosy also provides an honorarium of \$300 for the named recipient.

Awards and Grants for Active Members

1. Research Starter Grants.

ASP small research grants from \$2000 to \$5000 are available for active members in the first eight years after earning their Ph.D. and in the first five years of their first independent career position. 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 must be included with the proposal and budget. The deadline for submission of application for these grants is March 1, 1997. Please

include a self-addressed stamped postcard (no smaller than 3.25 by 5.5 inches) with the title of the proposal and the name of the applicant. This postcard will serve as notification of receipt of the application.

2. Travel Grants for Active Members.

Travel grants are available to enable active members who are in the first five years after earning their Ph.D. 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 applications is March 1, 1997. Please include a self-addressed stamped postcard (no smaller than 3.25 by 5.5 inches) with the title of the proposal and name of the applicant. This postcard will serve as notification of receipt of the application.

Applications for the student and member grants and awards can be sent to:

John Cardellina, II, Ph.D.
Chairman
Awards and Funds Committee
American Society of Pharmacognosy
NCI, Frederick Cancer Research
and Development Center
Building 1052, Room 121
Frederick, MD 21702-1201
U.S.A.
Phone: (301)846-5431
FAX: (301)846-6177

Future ASP Meetings

- 1997 - July 26-30 - University of Iowa
 1998 - July 19-23 - Orlando, Florida
 1999 - July 26-31 - International meeting with the Phytochemical Society of Europe, the Gesellschaft für Arzneipflanzenforschung, and the Association Française pour l'Enseignement et la Recherche en Pharmacognosie - Amsterdam, The Netherlands

Future AACP Meetings

- 1997 - November 2-6 - Boston, MA.

Other Meetings of Interest—1997

January 25, The 33rd Symposium of the Phytochemical Society of Japan, Sugiyama Jogakuen University, Nagoya, Japan. No contact name given.

February 23-26, Chemistry, Biological and Pharmacological Properties of Medicinal Plants from the Americas, Panama City, Panama. Contact: Prof. Kurt Hostettmann, Chrm., IOCD Working Group on Plant Chemistry, Institute of Pharmacognosy and Phytochemistry, University of Lausanne, B.E.P., CH-1015 Lausanne-Dorigny, Switzerland. Tel.: 4121-692 45 61; Fax.: 4121-692 45 05; e-mail: Kurt.Hostettmann@ipp.unil.ch

April 20-23, Communication of Plants with the Environment, Noordwijkerhout, The Netherlands. Joint meeting of the Phytochemical Society of North America and the Phytochemical Society of Europe. Contact: Prof. dr. Rob Verpoorte, Division of Pharmacognosy, Leiden/Amsterdam Center for Drug Research, P.O. Box 9502, 2300 RA Leiden, The Netherlands. Tel: (31)(71)5274510/5274528, Fax: (31)(71)5274277, E-mail FCOGSYMP@LACDR.LeidenUniv.NL - PLEASE NOTE THE DATES OF THIS MEETING. A MEETING ANNOUNCEMENT WENT OUT WITH INCORRECT DATES!

June 11-14, The Chiral Conference of the Americas, Cancun, Mexico. For information contact: Ms. Mary Jo Richards, or Dr. Daniel W. Armstrong, Department of Chemistry, University of Missouri-Rolla, Rolla, Missouri, USA. Phone: (573) 341-4429; FAX: (573) 341-6033. email: mrichard@umr.edu Internet access: http://www.umr.edu/~chiral.

June 24-27, 5th International Symposium on Pharmaceutical Sciences, Ankara, Turkey. Contact: Maksut Coskun, Ankara University, Faculty of Pharmacy. 06100 Tandooan, Ankara-Turkey. Tel: 90.312.222 04 71, Fax: 90.312.213 10 81, E-mail:

coskun@pharmacy.ankara.edu.tr, URL: http://www.pharmacy.ankara.edu.tr

September 7-12, 45th Annual GA-Congress in Regensburg, "Natural Compounds as-Antivirals-Immunomodulators-Anticoagulants." Contact: Prof. Dr. G. Franz, Institute of Pharmacy, University of Regensburg, Universitätsstraße 31, D-93040 Regensburg, Germany. Tel: #49/ (0)941-943-4760, Fax: #49/ (0)941-943-4762

E-mail: Gerhard.Franz@chemie.-uni-regensburg.de.

October 28-30, International Symposium on Natural Medicines, Kyoto, Japan. Organized by the Japanese Society of Pharmacognosy. Contact: Prof. Gisho Honda, General Secretary, International symposium on Natural Medicines, Faculty of Pharmaceutical Sciences, Kyoto University, 46-29, Yoshida-Shimoadachi, Sakyo, Koyto, 606-01 Japan. Fax: 81-75-753-4591

November 10-15, II World Congress on Medicinal and Aromatic Plants for Humal Welfare Wocmap II, Mendoza, Republica Argentina. Contact: Dr. Arnaldod Bandoni, SAIPA, Av. de Mayo 1324 - 1° piso, oficina 36 (1085) Buenos Aires, Argentina Te/Fax (54-1) 383-2360 (54-1) 961-7637 E-mail: postmaster@saipa.org.ar

1997-98 Programme of meetings of The Phytochemical Society of Europe. Contact: Dr. R. H. Robins, Honorary Meetings Secretary, Laboratoire de RMN-RC, Faculté des Sciences, 2 rue de la Houssinière, F-44072 nantes Cedex 03, France. Fax: +44-116-257-7287

January, 1997--Regulation of the Primary Metabolic Pathways in Plants, Oxford, U.K. (Dr. N. J. Kruger)

April 20-24, 1997--See above.

September, 1997--Bioassay and Screening Methods in Phytochemistry, Uppsala, Sweden (Prof. L. Bohlin)

April 1998--Isoquinoline and Indole Alkaloids, Istanbul, Turkey (Prof. G. Sariyar)

September, 1998--Biologically Active Peptides, Oslo, Norway (Prof B. S. Paulsen)

Other Meetings of Interest—1998

May 26-29, VIIIth International Symposium on Luminescence Spectrometry in Biomedical and Environmental Analysis-Detection Techniques and Applications in Chromatography and Capillary Electrophoresis, Canary Islands, Spain. For information contact: Dr. José Juan Santana Rodríguez, Symposium Chairman, University of Las Palmas de Gran Canaria, Department of Chemistry - Faculty of Marine Sciences, 35017 Las Palmas de Gran Canaria, Spain. Phone: + 34(9)28 45.29.15 / 45.29.00 FAX: + 34(9) 28 45.29.22 email: josejuan.santana@quimica.ulpgc.es.

PharmaMar ENTERS INTO ANTICANCER RESEARCH COLLABORATION WITH Bristol-Myers Squibb

Compounds from Marine Organisms to be Evaluated

(Madrid, Spain, October 8th, 1996) - The Spanish biopharmaceutical company PharmaMar (meaning "Sea Pharmaceuticals") a leader in the research and development of new drugs derived from marine organisms, announced today that it had signed a research and optional agreement with the Bristol-Myers Squibb Company (NYSE-BMY) for the evaluation and development of up to 12 new anti-cancer compounds from PharmaMar's marine products portfolio.

Under this agreement, Bristol-Myers Squibb will evaluate the 12 compounds and has the exclusive worldwide option to license and to continue develop-

ment of each of these novel anti-tumor compounds. PharmaMar believes that several of these compounds have new, unique mechanisms of action.

According to Dr. José M^a. Fernandez Sousa, Chairman of PharmaMar: "This relationship with the world leader in oncology, Bristol-Myers Squibb, allows PharmaMar the opportunity to accelerate development of its large and unique marine anti-tumor portfolio, and gives us access to one of the best companies in the world for drugs development, particularly in oncology."

PharmaMar, through its own efforts, intends to develop selected compounds from its portfolio, and earlier this year began Phase I trials on its lead anti-cancer compound Ecteinascidin (ET) -743, in US, UK, France and The Netherlands. The Company is also completing preclinical development of at least two other anti-tumor compounds, in preparation for initiating clinical trials in 1997. These compounds are not involved within the scope of the new agreement with Bristol-Myers Squibb.

PharmaMar's focus on marine sources has yielded a highly productive research and development effort in the area of new drugs for cancer, with novel structures and mechanisms of action.

Announcement

Dr. Dawn Schwenke is leading the organization of a Plant Phenolics Research interest Group (RIG) to foster interaction between individuals interested in the isolation, characterization, analysis, and biological activity of phenolic compounds from plants. The scope of the discussion group is research related to the potential human health benefits and risks of plant phenolics and polyphenolics. Interested persons may contract Dr. Schwenke directly. She may be reached by phone at (910) 716-6048, Fax at (910) 716-6279, or e-mail at schwenke@bgsm.edu

EMPLOYMENT SERVICE

The American Society of Pharmacognosy offers a placement service to aid our members in seeking 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 realize that this is not a resume service and that the application will be submitted to the prospective employer exactly as submitted (i.e. the submitted form will be photocopied, then sent to the prospective employer).

All information submitted will be held in the strictest confidentiality. Forms and further information may be obtained from:

Joseph M. Betz, Ph.D.,
Division of Natural Products
Food and Drug Administration (HFS-347)
200 'C' Street, S.W.
Washington, DC 20204-0002 U.S.A
Fax: (202)205-4422
Phone: (202)205-4060
Bitnet: JMB@FDACFSAN.

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 \$25.00 per year. In order to receive the *Journal of Natural Products* the subscription rates are as follows: United States: \$50.00; Canada and Mexico: \$60.00; Europe: \$70.00; All other countries: \$74.00.

Associate Membership

Associate membership is open to students of pharmacognosy and allied fields. These members are not accorded voting privileges, and dues are \$15.00 per year. In order to receive the *Journal of Natural Products* the subscription rates are as follows: United States: \$35.00; Canada and Mexico: \$45.00; Europe: \$55.00; All other countries: \$59.00.

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*. Emeritus members may subscribe to the *Journal of Natural Products* at the Full Member rates.

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. S. William Pelletiere, University of Georgia
- Dr. James E. Robbers, Purdue University
- Dr. Richard E. Schultes, Harvard Botanical Museum
- 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:

- Spring Issue - March 1st
- Summer Issue - June 1st
- Fall Issue - September 1st
- Winter Issue - December 1st

Send information to

Joy B. Reighard, Ph.D., Editor
ASP Newsletter
Temple University School of
Pharmacy
3307 N. Broad Street
Philadelphia, Pennsylvania 19140

Phone: (215) 707-4946

Fax: (215) 707-3678

E-mail:

reighard@astro.ocis.temple.edu

