



ASP NEWSLETTER

Volume 29, Number 1

Spring, 1993

SCOTT, WAGNER TO BE HONORED AT ANNUAL MEETING

This year's Research Achievement Award winner, Dr. A.I. Scott, is Davidson

Award whilet, Dr. A. Professor of Science and Distinguished Professor of Chemistry and Biochemistry at Texas A & M University, where he also serves as Director of the Center for Biological NMR. Prior to his 1981 move to Texas A & M, Dr. Scott had earlier held appointements at Glasgow University, the University of British Columbia, the University of Sussex, Yale



Ian Scott

University and the University of Edinburgh.

For the past 30 years, Dr. Scott has been at the forefront of natural products bioorganic chemistry. His work has been characterized by the recognition of important problems and the use and development of techniques to solve them. His 1960's book on ultraviolet spectroscopy remains a classic and in recent years he has made striking innovations in applying NMR to the study of biosynthetic reactions.

Biosynthesis has been Dr. Scott's primary area of research for the last 25 years, with the biosynthesis of vitamin B12 providing an especially satisfying story. His B12 work has been particularly impressive in the past two or three years, in which enzyme combinations have been employed and enzyme production has been cloned by genetic engineering.

Dr. Scott has in the past been a Corday-

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34TH ANNUAL MEETING TO BE HELD IN SAN DIEGO

The 34th Annual Meeting of the American Society of Pharmacognosy will be held July 18-22, 1993 in San Diego, California.

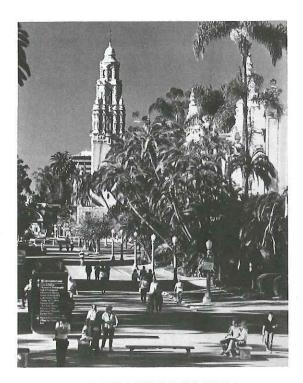
The topics for this year's symposia include: Biodiversity, Targeted Drug Discovery, NCI Intramural Drug Discovery, and National Cooperative Drug Discovery. See page two for a listing of the symposia participants and their presentation titles.

The meeting will be based at the Princess Resort on an island in Mission Bay, which will provide a stimulating educational and recreational experience for participants and their guests. In addition to the overwhelming variety of outdoor activities available due to miles of public beaches, bays, golf courses, parks and a climate that is balmy year round, San Diego is home to the nationally acclaimed San Diego Zoo, the Wild Animal Park, Sea World, and the San Diego Padres. A variety of cultural opportunities are available, including the Old Globe Theater and the San Diego Opera, as well as a large concentration of museums and galleries. The newly revitalized downtown offers a shopper's paradise, and it's also just a short ride to Tijuana to sample Mexican culture. If you wish to visit Mexico, and are not a U.S. citizen, you will need to bring your passport to cross the border.

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AERIAL OF MISSION BAY James Blank/San Diego Convention & Visitors Bureau



EL PRADO IN BALBOA PARK San Diego Convention & Visitors Bureau

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Morgan Medalist of the Chemical Society and a Guenther Awardee and Cope Scholar of the American Chemical Society.

Dr. Scott will be addressing attendees at the ASP annual meeting in San Diego in July.

Dr. Hildebert (Bert) Wagner, Professor and Director of the Institute of Pharmaceutical Biology of the University of Munich in Germany will be honored at the 34th Annual Meeting in San Diego as a new ASP Honorary Member.

Professor Wagner is one of the leading pharmacognosists in the world. Since receiving his Ph.D. in 1956 from the University of Munchen, he has published more than 500 original research papers and has contributed more than fifteen chapters to books in the field of phytochemistry. Further, he has authored seven books, and coedited *Economic and Medicinal Plant Research* (Academic Press).

Professor Wagner was one of the early authorities on the isolation, structure elucidation and synthesis of flavonoids. He also initiated work on phosphatides; the analytical methodology that he developed is frequently found even today in the literature concerning phosphatide chemistry.

During the past 20-25 years, Professor Wagner has focused his interests in the areas of cardiac glycosides, alkaloids, lignans, sesquiterpene lactones, and lignans, among others. He is particularly interested in compounds that have immune stimulation, cardiotonic, antihepatotoxic and antiviral activity.

Professor Wagner is a distinguished scientist who has presented invited lectures in numerous international symposia. He holds honorary doctoral degrees from the Universities of Budapest and Debrechen, and is on the Editorial Advisory Board of several journals, including the *Journal of Natural Products*, *Phytochemistry*, and *Planta Medica*.

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The average temperature in July is 78°F during the day and 65°F in the evening. In addition to the many social activities offered by the San Diego locale, the local organizing committee has also planned two sponsored events for meeting participants and guests. The first is the Sunday evening mixer, which will be held from 6:30 p.m. - 9:00 p.m. at the Stephen Birch Aquarium. The Aquarium offers a spectacular view of the Pacific Ocean. Hors d'oeuvres and drinks will be served. The second event is the banquet, which will be held on Thursday, July 22, 1993 at 7:00 p.m. in the Sunset Ballroom at the Princess Resort.

A children's program is also provided with a "kid's camp" from 1:00 p.m. to 4:00 p.m. every afternoon and movies in the evening. Special arrangements will be made for children during the banquet as well.

SYMPOSIUM SPEAKERS

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

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

Brad K. Carte', SmithKline Beecham Pharmaceuticals

Mechanism-Based Screening of Marine Natural Products

Jon C. Clardy, Cornell University

New Anti-Cancer Drugs from Cultured and Collected Marine

Organisms

Paul A. Cox, Brigham Young University

Ethnobotany and the Discovery of New Anti-HIV Compounds

Edgardo Gomez, University of the Philippines

Biodiversity in the Marine Tropics: Potentials and Concerns

Sidney M. Hecht, University of Virginia

Mechanism-Based Discovery of Novel Anti-Tumor Agents

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

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

Thomas E. Lovejoy, Smithsonian Institute

Conservation of Biodiversity: Essential or Excessive?

George R. Pettit, Arizona State University
Recent Advances in the Discovery of Naturally Occurring
Anti-Cancer Substances

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

Michael S. Tempesta, Shaman Pharmaceuticals

Anti-Viral Drug Discovery and Development from Medicinal

Plants-A Case Study of SP-303

Frederick A. Valeriote, Wayne State University

Discovery of New Anti-Cancer Agents from Natural Products

Paul A. Wender, Stanford University

Chemical and Biological Studies on Cancer Chemotherapeutic

Leads: Taxol, Phorbol, and DNA Cleaving Agents

ASP MEMBERS HONORED

Two ASP members have recently been recognized for their research by other organizations. John P.N. Rosazza has been honored for his outstanding achievements in contemporary teaching and research in biotechnology and its related science. These achievements have resulted in John's receipt of the Paul Dawson Biotechnology Award from the American Association of Colleges of Pharmacy (AACP). The award is sponsored by Amgen, in honor of its former Vice President of Marketing and Sales, and consists of a cash prize and an art glass double helix sculpture.

Dr. Rosazza, Professor and Head, Medicinal and Natural Products Chemistry at the University of Iowa's College of Pharmacy is recognized as one of the world's outstanding biotechnology scientists/educators. He has published extensively in the field and has educated numerous graduate students who have now taken their place as leaders in the science of biotechnology.

Dr. Rosazza is currently engaged in several research projects which include efforts with antibiotics of the aureolic acid family, Vinca alkaloids, selected pesticides, terpenes, and byproducts of biotechnology research. His career research has attracted in excess of \$17 million. Congratulations Jack!!

The American Pharmaceutical Association (APhA) has recognized Jerry L. McLaughlin, Ph.D. for his significant efforts to encourage his graduate students to pursue careers in the research of natural products. Jerry has received APhA's 1993 Stimulation of Research Award.

Dr. McLaughlin, Professor of Pharmacognosy at Purdue University School of Pharmacy and Pharmacal Sciences, has always had an intense and aggressive interest in research. He has been awarded more than 60 research grants and has published nearly 200 papers.

One of Dr. McLaughlin's major personal research contributions has been the development of simple bioassays that can be used in the isolation of bioactive plant constituents. The brine shrimp and potato disc methods are the best known and most valuable of his bench-top bioassays. These methods are inexpensive and fairly reliable approaches to detecting bioactivity during plant extract fractionation. Many of Jerry's students have actively participated in these bioassays. Congratulations Jerry!!

C.E. Credits

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

FUTURE MEETINGS

Future ASP Meetings

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

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

1995 - Univ. of Mississippi.

1996 - Santa Cruz, California.

1993 AACP Meeting

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

1993 AAPS Meeting

November 14-18, AAPS Eighth Annual Meeting, Walt Disney World Dolphin, Orlando, Florida. Details: AAPS, 703-548-3000, FAX 703-684-7349.

Other Meetings of Interest--1993

June 8-11, The International Conference on the Use of Traditional Medicine and Other Natural Products in Health Care, Ferringhi Beach Hotel, Penang, Malaysia, Contact: The Secretariat, School of Pharmaceutical Sciences, University of Science Malaysia, Minden, 11800 Penang, Malaysia. Tel: 04-877888 ext: 2211, or 2229. Fax: 604-870017. Tlx: MA 40254.

August 1-4, AFPC 50th Anniversary Converence, Vancouver, B.C. Contact: Biotechnology Converence Planning Secretariat, Faculty of Pharmaceutical Sciences, University of British Columbia, 2146 East Mall, Vancouver, B.C., Canada V6T 1Z3 (604) 822-4709. FAX (604) 822-3035.

August 23-27, 3rd International Congress on Amino Acids and Analogues, Crete, Greece. Contact: G. Lubec, Univ. Vienna, Dpt. of Paediatrics, Wahringer Gurtel 18, A 1090 Vienna, Austria. FAX: x43.1.404003238.

September 13-17, Symposium on Natural Phenols in Plant Resistance, Freising-Weihenstephan, Germany. Contact Dr. M. Geibel or Dr. d. Treutter, Institut für Obstbau, Technische Universidät Munchen, D-8050 Freising-Weihenstephan, Germany, Telephone (+49) 8161/713753; FAX (+49) 8161/714499.

1994

January 16-20, **19th IUPAC Symposium on the Chemistry of Natural Products**, Karachi Pakistan. Contact: Prof. AttaUr-Rahman, Director, H.E. J. Research Institute of Chemistry, University of Karachi, Karachi-75270, Pakistan. Phone 92-21-470007, Telefax: 92-21-467887.

September 5-7, 25th International Symposium on Essential Oils, Grasse, France. Contact: Association des Inge'nieurs et Techniques de la Parfumerie (A.I.T.P.), 48, avenue Riou-Blanquet, 06130 GRASSE, France, Fax: (33)93-36-54-26.

NEW MEMBERS

THE AMERICAN SOCIETY OF PHARMACOGNOSY WELCOMES THE FOLLOWING NEW ACTIVE MEMBERS AND ASSOCIATES.

ACTIVE MEMBERS

Nahla Sayed Abdel-Azim National Research Center Cairo, Egypt

Belinda Alvarado-Lindner Program Resources Inc./Dyncorp Frederick, MD

Giovanni Appendino Dept. Scienze e Tecnologia del Farmaco Torino, Italy

Michael J. Balick The New York Botanical Garden

Manuel F. Balandrin NPS Pharmaceuticals, Inc. Salt Lake City, UT

Mark A. Barnby ISK-Mountain View Research Center Sunnyvale, CA

John M. Berger Hoboken, NJ

Matthew W. Bernart

NCI

Frederick, MD

Ezio Bombardelli Co. Indena SpA Milano, Italy

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Florecita S. de Guzman University of Iowa

Yali Hallock NCI-FCRDC Frederick, MD

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Young Choong Lim Seoul National University Seoul, Korea

Dien Ariani Limyati Perpustakaan Unika Widya Mandala Surabaya, Indonesia

John G. MacConnell Merck Research Labs. Rahway, NJ

Tawnya McKee NCI Frederick, MD

Tomofumi Miyamoto Kyushu University Fukouka, Japan

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Aimbire M. Santos Universidade Federal Do Parana´ Brazil

Charles H. Schaefer University of California, Berkeley

Richard Stadler Nestec. Ltd. Research Centre Lausanne, Switzerland

Stuart G. Stearns Life Science Strategies, Inc. Chatham, MA

Bogdan Szelepin TORF CORPORATION Wroclaw, Poland

Nobuhiko Tamura Sumitomo Pharmaceuticals Co., Ltd. New York, NY

Mark R. Tefaske USDA Peoria, IL

Mark Tischler American Cyanamid Company--Lederle Labs. Pearl River, NY

Jordan Zjawiony University of Mississippi

ASSOCIATE MEMBERS

Lily Chew Florida Atlantic University

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Xin-ping Fang Purdue University West Lafayette, IN

DeAnna Hatch University of Mississippi

Kathleen A. Kelly Florida Atlantic Univ.

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Rowena K. Richter University of California, Davis

John M. Rimoldi Virginia Polytechnic and State Institution

JoAnne Zabinski Temple University, Philadelphia, PA

Michael L. Zimmermann Virginia Commonwealth University

BOOKS AVAILABLE

A collection of books on marine natural products is available for purchase. This is an extensive collection which contains many popular volumes. This is part of the estate of a senior scientist. For further information contact: Gene Mazzola, 9903 Lindel Lane, Vienna, VA 22181. Home: (703) 938-1964 or Work: (202) 205-4409

EMPLOYMENT SERVICE AVAILABLE

The American Society of Pharmacognosy is offering a placement service to aid our members find employpositions 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 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.

ASP RESEARCH ACHIEVEMENT AWARD

The American Society of Research Pharmacognosy Achievement Award is given annually, to candidates who are members of the American Society of Pharmacognosy and have made distinguished contributions to natural products research. The award consists of a special honorarium of \$2500 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 1994. 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 June 1, 1993, and be directed to:

Kenneth L. Rinehart, Research Award Committee, 454 Roger Adams Laboratory, University of Illinois, 1209 W. California, Urbana, Illinois 61801, Phone: (217) 333-0627, FAX: (217) 244-3571.

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. I. (Ian) Scott



NEW EDITORS NAMED FOR JNP

A. Douglas Kinghorn, Ph.D. has accepted the position of Editor for the *Journal of Natural Products* to begin with the volume 57 of the Journal. The Journal's current Editor, James Robbers, and Associate Editor, Jerry McLaughlin, both from Purdue University will be retiring from their respective positions after ten years of service to our Society.

Dr. Kinghorn, Professor of Pharmacognosy and Associate Director, Program for Collaborative Research in the Pharmaceutical Sciences, College of Pharmacy, University of Illinois at Chicago, was educated in the United Kingdom. He received his Bachelors in Pharmacy from the University of Bradford in 1969, his Masters Degree from the University of Strathclyde in 1970, and his Doctor of Philosophy and Doctorate of Science from the University of London in 1975 and 1990 respectively. Before to receiving his Ph.D., Doug worked as an Analytical Chemist at Burroughs Wellcome Co. Ltd., Dartford, Kent, and as a Teaching Fellow at the School of Pharmacy, University of London.

After a year of postdoctoral study at the University of Mississippi, he was appointed as a Research Associate at his present institution in 1976, and rose through the academic ranks until promotion to Professor in 1986. He is a Fellow of both the Royal Pharmaceutical Society of Great Britain and the Linnean Society of London.

Doug has served as President of the American Society of Pharmacognosy (1990-1991) and of the Society for Economic Botany (1991-1992). Currently, Doug is Vice-Chairman of the Subdivision of Agricultural and Natural Products Chemistry, Agricultural and Food Chemistry Division of the American Chemical Society. He has had previous journal experience as North American Editor of *Phytochemical Analysis* (volumes one through four), and is on the editorial boards of *Phytotherapy Research* and the *Journal of Natural Toxins*, and is co-editor of the forthcoming symposium series volume, *Human Medicinal Agents from Plants*, to be published this summer by American Chemical Society Books. He has been a frequent reviewer for the *Journal of Natural Products*, and has contributed about 50 research articles and book reviews to the Journal.

At present, Doug is serving as Principal Investigator of an NCI-funded National Collaborative Drug Discovery grant (with colleagues at the University of Illinois at Chicago, Research Triangle Institute, and Glaxo Group Research, Ltd., U.K. making up the consortial group), and has other current NIH funding on natural sweetening agents and plant-derived cancer chemopreventive agents. Doug has nearly 200 scientific publications to his credit.

Joining him in a new editorial partnership will be Harry H.S. Fong, Ph.D., also of the College of Pharmacy, University of Illinois at Chicago. Dr. Fong will become the new Associate Editor of the *Journal of Natural Products*. Harry joined the academic staff at Illinois in 1970, having been Professor of Pharmacognosy since 1972, and is now Director of the University of Illinois Pharmacognosy Field Station (1981-present), and Assistant Head, Department of Medicinal Chemistry and Pharmacognosy (1991-present). During 1965-1970 he was a member of the academic staff of the University of Pittsburgh, where he reached the rank of Associate Professor of Pharmacognosy. Harry received his Bachelor of Science (1959) and Master of Science (1961) degrees from the School of Pharmacy at the University of Pittsburgh, before becoming one of Professor Jack Beal's graduate students at Ohio State University, where he received the Ph.D. Degree in 1965.

Harry is a charter member of the American Society of Pharmacognosy, and was President of the Society from 1978 to 1979. Over the years, he has taken on numerous committee assignments on behalf of the Society, including his most recent as Chairman of the Local Organizing Committee for the 32nd Annual Meeting held in Chicago in July 1991. Harry has also been President (1981-1982), Member of Council (1982-1983) and Treasurer (1975-1977) of the Society for Economic Botany. He has served as a Co-Editor of *Pharmacognosy Titles* (1970-1974), and Editor of the *International Traditional Medicine Newsletter* (1989-1991). Harry has been a frequent Consultant for the World Health Organization, and acted as Principal Investigator of a large WHO-funded project on the isolation of antifertility agents from plants during the period 1977-1988. He is also active in the area of plant-derived cancer chemopreventive agents. Harry has published over 100 research articles and co-edited eight volumes on natural products.

During the summer of 1993, Doug Kinghorn and Harry Fong will officially take over as Editor and Associate Editor of the *Journal of Natural Products* from Jim Robbers and Jerry McLaughlin, respectively, of Purdue University. New manuscripts should be directed to Doug's attention, however, Jim Robbers will be responsible for completing all the current year's issues of volume 56 of the Journal.

The new appointees wish to enhance and solidify the scientific status of the *Journal of Natural Products*, but are very conscious of the excellent job that has been done under Jim's stewardship during the past ten years, especially all of the planning and effort that went into starting the monthly publication of the Journal in 1992. All of us who read, publish in, and take pride in the *Journal of Natural Products* owe Jim, Jerry, and the other two Associate Editors, David Kingston and Richard Powell, a great deal of thanks for their many efforts on our behalf. David and Richard will be continuing in their positions after the change of editorship of the Journal.

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





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

MEMBERSHIP

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

Full Membership

Full membership is open to any scientist interested in the study of natural products. Dues are \$75.00 per year. If overseas airmail is requested, the dues are \$150.00. These members receive the *Journal of Natural Products* and the *ASP Newsletter*.

Associate Membership

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

Emeritus Membership

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

Honorary Membership

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

Present Honorary Members are:

Dr. Jack L. Beal, Columbus, Ohio

Dr. Arnold Brossi, National Institute of Health, MD

Dr. David P. Carew, University of Iowa

Dr. Norman R. Farnsworth, University of Illinois

Dr. R. Hegnauer, Leiden, Netherlands

Dr. Albert Hofmann, Switzerland

Dr. Richard E. Schultes, Harvard Botanical Museum

Dr. Arthur E. Schwarting, Florida

Dr. Gordon H. Svoboda, Indianapolis, Indiana

Dr. Varro E. Tyler, Purdue University

Dr. 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

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Downers Grove, IL 60515

ASP Newsletter

Joy B. Reighard, Ph.D., Editor

Barbara H. Grissani, Editorial Assistant

Deadlines for submission of information are as follows:

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Summer Issue - June 1st

Fall Issue - September 1st

Winter Issue - December 1st

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