



NEWSLETTER

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Officers for 1969-70. With the election of Lynn R. Brady, University of Washington as Vice President (President-elect) and Heinz G. Floss, Purdue University, as a member of the Executive Committee, the roster of officers for the next year is complete. Officers to be installed at the 1969 meeting in Corvallis, Oregon will be President: Heber W. Youngken, Jr., University of Rhode Island; Vice President: Lynn R. Brady, University of Washington; Secretary: Rolf S. Westby, Eli Lilly and Company; Treasurer: Leonard R. Worthen, University of Rhode Island; Executive Committee: Norman R. Farnsworth, University of Pittsburgh, Heinz G. Floss, Purdue University, and William J. Kelleher, University of Connecticut.

Society Committees. ASP President Elmore H. Taylor, University of Tennessee, recently announced the membership in the various Society committees for the 1968-69 year. These are as follows: Membership Committee: Heber W. Youngken, Jr., Chairman, University of Rhode Island, Frank L. Mercer, St. Louis College of Pharmacy, Edward S. Mika, University of Illinois; Patron Membership Committee; Varro E. Tyler, Purdue University; Awards and Funds Committee: Leonard R. Worthen, University of Rhode Island, Chairman, Leo E. Sciuchetti, NSF, Melvin R. Gibson, Washington State University; Nominating Committee: Jack L. Beal, Chairman, Ohio State University, David P. Carew, University of Iowa, Jerry L. McLaughlin, University of Washington; Constitution and Bylaws Committee: Harold E. Bailey, Chairman, Wayne State University, Harry S. Fong, University of Pittsburgh, Frank D. O'Connell, West Virginia University; Publicity Committee: Jerry L. McLaughlin, Chairman, University of Washington, George H. Constantine, Jr., Oregon State University, Joseph Schradie, University of Toledo; Auditing Committee: Carman A. Bliss, University of Saskatchewan, Karl J. Goldner, University of Tennessee, Carl H. Johnson, University of Florida; Resolutions Committee: Allan M. Goodeve, University of British Columbia, Frank L. Pokorny, Columbia University, H. Richard Shough, University of Utah; Teller's Committee: Rolf S. Westby, Chairman, Eli Lilly and Company; Winston N. Churchill, Eli Lilly and Company, Paul L. Schiff, Butler University; Honorary Membership Committee: Egil Ramstad, Chairman, Purdue University, Philip A. Babcock, Rutgers-The State University, Robert F. Raffauf; Committee for the Promotion of Lloydia: Norman R. Farnsworth, Chairman, University of Pittsburgh, Jerry L. McLaughlin, University of Washington, Arthur E. Schwarting, University of Connecticut; Honorary Historian for 1969: Anna Koffler Wannamaker; Special Educational Committee: E. John Staba, Chairman, University of Minnesota, David P. Carew, University of Iowa, Heber W. Youngken, Jr., University of Rhode Island; Special AMDOC Project Committee: Jerry L. McLaughlin, Chairman, University of Washington, Rustem S. Medora, University of Montana, Maynard W. Quimby, University of Mississippi.

Society Meetings. The following information is taken from information supplied by ASP President Taylor: 1969 Meeting of ASP will be held at Oregon State University, August 19-22. The Local Program Committee is as follows: George H. Constantine, Jr., Chairman, OSU, Charles O. Wilson, OSU, and Rolf S. Westby, Eli Lilly and Company. The Scientific Program Committee is: Philip Catalfomo, Chairman, OSU, Jerry L. McLaughlin, University of Washington, and Heinz G. Floss, Purdue University. 1970 ASP meeting: The Society has accepted an invitation to meet with the Deutsche Gesellschaft fur Arzneipflanzenforschung (DGA) in Vienna, Austria during the summer of 1970. Arrangements have also been made for the group to attend a symposium at the Institut fur Pharmazeutische Arzneimittellehre der Universitat Munchen prior to the joint ASP-DGA meeting in Vienna. A planning and arrangements committee, known as "The Committee for '70" was appointed last year. The Committee was charged with the following responsibilities: To make arrangements for members of the ASP to attend the annual meeting in Vienna; to arrange a guided tour for ten days prior to the meeting; to act as liaison between the Munich group in matters concerning the pre-meeting symposium in Munich and the Vienna group in matters concerning the ASP meeting in Vienna. The Committee has set up a tentative schedule for the group as follows: July 11, 1970 - leave New York City for Copenhagen by chartered jet, July 12, 1970 - arrive Copenhagen, July 13-22 - guided tour, July 22 - Arrive Munich, July 23-25 - symposium in Munich, July 26 - depart Munich for Vienna, July 26 - arrive in Vienna, July 27-31 - ASP meeting in Vienna, August 1 - depart Vienna for New York City by chartered jet. A symposium entitled "Plant Constituents with Cardiac and Circulatory Activity" is being planned by Professor Jentzsch for the ASP meeting in Vienna. The Committee for '70 is as follows: Norman R. Farnsworth, University of Pittsburgh, and Varro Tyler, Purdue University, Co-chairmen,

Georgia J. Persinos, Research Pathology Associates, and Ana Rother, University of Connecticut. The local representative in Vienna is Professor Kurt Jentzsch, Pharmakognostisches Institut der Universität Wien, Währinger Strasse 25, A-1090 Vienna, Austria. The local representatives in Munich are Professor Hildebert Wagner and Dr. Hans-Peter Horhammer Institut für Pharmazeutische Arzneimittellehre der Universität München, Karlstrasse 29, 8 München 2, Germany. The 1971 ASP meeting will be held at Ohio State University, July 18-22. The local representative is Jack L. Beal, and the Scientific Program Committee is: Lester A. Mitscher, Chairman, Donald J. Abraham, University of Pittsburgh, Jack L. Beal, OSU, and Norman R. Farnsworth, University of Pittsburgh. The 1972 meeting will be held at the University of Georgia, July 11-14. The local representatives are Coy A. Gibson and Lee C. Schramm.

Lloydia Announcement. The following announcement is presented at the request of Arthur E. Schwarting, Editor, *Lloydia*: Beginning with the March, 1969 number; *Lloydia* will begin the publication of Notes. Notes are concise accounts of studies of small scope. They should reflect the quality of research and regularity of thought that characterizes full papers. Notes should be prepared for publication according to the standards established for full papers, but ordinarily the manuscript should be divided into a brief section describing the problem and the results and a section providing experimental data.

Chinese Book Still Available. In the last *Newsletter* it was announced that Dr. Wen-Yah Koo, National Taiwan University, had made available copies of her book *A Study of Chinese Drugs* as a gift to colleges of pharmacy in this country. The response from colleges of pharmacy was not sufficiently great to exhaust the supply, so the book is now available to individuals on a first-come, first-served basis. These may be obtained by writing to the Editor of the *Newsletter* enclosing a dollar for each request to cover postage and handling. The book is written in Chinese and generously illustrated with photographs and drawings. It is paper bound and has 419 pages.

SEB Meeting. Ara Der Marderosian, PCP, wishes to remind the membership of the Tenth Annual Meeting of the Society for Economic Botany will be held April 14-16, 1969 at Longwood Gardens, Kennett Square, Pennsylvania. A symposium will be featured on one day of the meetings entitled "Ornamental Plants." The chairman of this symposium will be G. Lawrence, Director of the Hunt Botanical Library, Carnegie-Mellon University, Pittsburgh, Pennsylvania. Invitations are extended to ASP members to give research papers on any subject related to economic botany. Papers will be considered for publication in the journal, *Economic Botany*. Preliminary announcements for this meeting will be sent to all SEB members. Any ASP members who are not members of SEB and wish a copy of the program or forms for contributed papers should write to the scientific program chairman Ara Der Marderosian, Philadelphia College of Pharmacy and Science, 43rd and Kingsessing Avenue, Philadelphia, Pennsylvania 19104.

Army Recognition Cards. The U.S. Army Participation Group, Naval Training Device Center, Orlando, Florida has issued for use by military personnel in Vietnam a new set of *Survival Cards for Southeast Asia* (GTA) 21-7-1). These are a "poker deck" of 57 cards for recognition of edible and harmful plants and animals which are imprinted with instructional text by Julia F. Morton, University of Miami. The cards are illustrated with 56 of her color photographs, 10 plant paintings by M. J. Dijkman, 4 fish paintings by Richard E. Younger, and 2 sea snake paintings by Virginia Bimel.

Mississippi Lectures. Recent lecturers in the pharmacognosy department at the University of Mississippi have included Julia Morton, University of Miami; Arnold Krochmal, U.S. Department of Agriculture, Berea, Kentucky; E. Woodward, S. B. Penick and Co.; and Jack Beal, Ohio State University.

Purdue Seminar Speakers. James Robbers, Purdue University, reports the following seminar presentations at that institution: Masao Maruyama, University of Wisconsin, "Some Aspects of the Chemistry of the Gingkolides;" Marvin Gorman, Eli Lilly and Company, "Biosynthesis of Pyrrolnitrin;" Martin Schwochau, Washington State University, "Mechanisms of Gene Activation by Actinomycin D and Other Compounds;" Richard A. Finnegan, SUNY at Buffalo, "Chemistry of the Endecaphyllins - Naturally Occurring Nitropropionate Esters of Glucose."

Purdue Department Name Change. The Department of Medicinal Chemistry at Purdue University has included the area of pharmacognosy. The name has now been changed to the Department of Medicinal Chemistry and Pharmacognosy.

Schultes of Harvard Reports. R. E. Schultes, Harvard University, reports three items of interest: 1. A recent number of the *Botanical Museum Leaflets, Harvard University* has reported (Schultes, Holmstedt and Lindgren) the chemical analysis of stem material taken 115 years ago in the Amazon by Richard Spruce from the type plant of *Banisteriopsis Caapi*, one of the hallucinogens of the Malpighiaceae. The presence of harmine was demonstrated in this material which suffered severe vicissitudes when it was lost for a year in transit in the Amazon in 1853 and was stored at Kew for more than a century. The material was made available by Sir George Taylor, Director of the Royal Botanical Gardens. 2. R. E. Schultes is interested in learning about any observations on the possible toxicity of the tropical *Sphenoclea zeylanica*. 3. During the XI International Botanical Congress in August, 1969 in Seattle, Washington, the Section on Ethnobotany will feature a symposium on the topic "Significance of Ethnobotany to Modern Medicine" with five principal speakers. Stig Agurell of the Royal Pharmaceutical Institute, Stockholm, Sweden is the organizer of the symposium.

M.S. Program at Toledo. Joseph Schradie, University of Toledo, reports that the University of Toledo has instituted a graduate program at the master's level. The University is offering a Master of Science in the Pharmaceutical Sciences with specialization in pharmacology, medicinal chemistry, pharmacognosy, hospital pharmacy, and physical pharmacy.

Screening Material Wanted. G. P. Khare, Idaho State University assistant professor of microbiology, is interested in obtaining crude or purified plant extracts for screening to determine anti-mitotic or anti-viral activity. More information about this program may be obtained by writing to F. R. Cole or G. P. Khare, Idaho State University, Pocatello, Idaho 83201.

Symposium on Drug Plant Cultivation. C. K. Atal, Assistant Director of the Regional Research Laboratory, Jammu Tawi (J & K), India has announced a symposium on drug plant cultivation for March 12 to 15, 1969. A list of speakers and topics may be obtained by writing to the Editor of the Newsletter.

The New Look. Starting with the last issue of the Newsletter a new IBM composing machine is being used to prepare this publication. This machine allows a choice of type resembling type-set material and evens right-hand margins. The duplicating process is the same as used before. This new process allows above five pages of material (old type) to be put on four pages. Also, it looks better!

Grants. The University of Rhode Island departments of pharmacognosy and pharmacology have recently been awarded a total of \$36,460 for the investigation of organic extractables from the ocean under the NSF-sponsored sea-grant program. Herbert Jonas, Department of Botany, University of Minnesota, has been granted \$4,500 by the Graduate School for the continuation of a study of the effects of steroids, steroid alkaloids, and cardenolides on leaf movements of *Mimosa* spp.

Personal. ASP Vice President Heber W. Youngken, Jr., University of Rhode Island, recently has been appointed Provost for Health Science Affairs. He will continue to function as Dean of the College of Pharmacy in addition to his new duties. Cesar Lau-Cam, a Ph.D. candidate at the University of Rhode Island, has joined the faculty of St. Johns University as an assistant professor of pharmacognosy. R. E. Schultes, Harvard University, will take part in a conference in Leticia, Colombia on problems in the biology of the Amazon. During this conference he will give two papers: "Ethnotoxicological Observations on 75 Species of the Colombian Amazon" calling attention to plants known to be poisonous or used for toxic properties by natives but, for the most part, never subjected to phytochemical examination; "Intraspecific Variations in *Hevea brasiliensis*." Both papers are based on studies which Schultes carried out in the northwest Amazon during his stay there from 1941 through 1954. R. E. Schultes will also take part in the conference on "Cannabis and its Derivatives" to be held in London, April 9-10 sponsored by the Ciba Foundation at the Institute for Drug Dependence Studies. This conference, limited to twenty specialists in botany, chemistry, and pharmacology, will stress what is not known about Cannabis, and Schultes will review the aspects of the botany of this plant that are unknown, uncertain, or need further study. He will spend ten days at the Royal Botanic Gardens at Kew prior to the meeting engaged in a study of poisonous plants of the New World tropics. Timothy Plowman, graduate student at the Harvard Botanical Museum with R. E. Schultes, has spent four months in South America gathering materials for his Ph.D. thesis research on the toxic and narcotic genus *Brunfelsia*. Thomas Lockwood, another graduate student at the Harvard Botanical Museum, has spent three months in the highlands of Colombia and Ecuador in field studies and collecting species of the tree *Daturas* which will be the basis for research for his Ph.D. Graduate and postdoctoral students majoring in pharmacognosy at the University of Mississippi have taken six field trips within the state since September 1. Two of these trips were three-day excursions. Norman J. Doorenbos, University of Mississippi recently has lectured on natural products at North Dakota State University, Ferris Institute, Mallinckrodt Chemical Works, Columbia University, Alabama College, Mississippi State University, and Samford University. George P. Hager, University of North Carolina, was appointed by President L. B. Johnson to membership on the National Health Resources Advisory Committee and the National Advisory Committee on the Selection of Physicians, Dentists and Allied Specialists. Georgia J. Persinos has been named Executive Director of Research Pathology Associates, Rockville, Maryland. The University of Miami Chapter of Phi Kappa Phi elected Julia Morton to faculty membership in December. M. B. E. Fayez, Head Research Unit of Natural Products, National Research Center, Cairo, UAR, joined the Department of Pharmacognosy and Natural Products, Howard University. He will work as a National Science Foundation Senior Foreign Scientist, collaborating with Govind J. Kapadia. M. L. Sethi, formerly Lecturer in Pharmacognosy at the Government Medical College, Patiala, India, will be a postdoctoral Research Associate and part-time lecturer at Howard University. Y. S. Vaishav (M.S. in organic chemistry from Howard University) has joined the Department of Pharmacognosy and Natural Products of Howard University as a part-time instructor and research assistant. Govind J. Kapadia, Howard University gave a talk entitled "Krebs Cycle Conjugates of Mescaline, and a Study of Peyote Alkaloids" to the National Institutes of Health Organic Chemistry discussion group in October. Norman J. Doorenbos, University of Mississippi, has been invited to speak at the Institute for the Study of Drug Dependence Conference in London in April on "The Botany and Chemistry of Cannabis and Its Derivatives."

Books and Articles. Rustem S. Medora, University of Montana, recommends the listing of the following books: **The Alkaloids, Vol. XI** by R.H.F. Manske (Academic Press, 1968, \$26), **Metabolic Pathways, Vols. I-IV** (3rd Ed.) by D. M. Greenberg (Academic Press), **Principles of Plant Biochemistry** (4th Ed.) by V. L. Kretoovich (Translated from the Russian by T. Z. Nowakowski and A. J. Clarke) (Pergamon Press, 1966, \$15), **Plant Tissue Culture and Plant Morphogenesis** by R. G. Butenko (Translated from the

Russian by M. Artmann (U.S. Dept. of Commerce, Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151, 1968, \$3), **Methods of Studying Plant Hormones and Growth Regulating Substances** by J. W. Mitchell and G. A. Livingston (Agriculture Handbook No. 336 (1968), A.R.S., U.S.D.A., Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, \$0.55). . . Ara Der Marderosian, PCP, recommends listing **Nature's Medicines** by Richard Lucas (Award Books, 1966, \$0.95) which is popularized light reading, mixed folklore, religious, and some quasi-medical uses of plant drugs; **Plants, Man and Life** by Edgar Anderson (University of California Press, 1967, cloth and paperback). . . George M. Hocking, Auburn University, submits the following comments about the books listed: **Handbuch der Drogenkunde: Erkennung, Wertbestimmung und Anwendung**, 7 volumes by Franz Berger (William Maudrich Verlag, Vienna)—The seventh volume was recently published which is the general index. This work comes closest to Tschirch in value. Volume 1 was published in 1949. **Organische Chemie**, 2 volumes by Fedor (VEB Deutscher Verlag der Wissenschaften, Berlin) — A good organic chemistry text. **Food Chemicals Codex I** (1966) (National Academy of Science, Washington, D.C.) — This book has many crude drugs, spices, etc. which have been dropped from the USP and NF. **Roempp Chemie Lexikon** in 4 volumes by Franckh (approx. price \$109). Although primarily chemical in content, this reference has much information useful in pharmacognosy. Every reference collection in pharmacognosy should have it. . . Joseph Schradie, University of Toledo, calls attention to the article "Nature's Deadliness Beware" in **National Wildlife**, Volume 6(4), pp. 23-27, 1968. . . Julia F. Morton, University of Miami, is author of the article "Plants Associated with Esophageal Cancer Cases in Curacao" in **Cancer Research**, Volume 28, November, 1969, pp. 2268-2271.

The Editor lists the following publications which may be of interest to readers: **Molecular Associations in Biology**, Edited by Bernard Pullman (Academic Press, 1968, \$24.50); **Metabolic Roles of Citrate** Edited by T. W. Goodwin (Academic Press, 1968, \$6); **Actinomycin: Nature, Formation and Activities**, Edited by S. A. Waksman (Wiley, 1968, \$9); **Doctor Among the Addicts** by Nat Hentoff (Rand McNally, 1968, \$4.50); **Digitalis Therapy** by Allan F. Lyon and Arthur C. DeGraff (Mosby, 1967, \$2); **Cell Walls and Membranes** by H. J. Rogers and H. R. Perkins (Barnes and Noble, 1968, \$12); **Plant Communities: A Textbook of Plant Synecology** by R. Daubenmire (Harper and Row, 1968, \$9.75); **The Drug Scene** by D. B. Louria (McGraw-Hill, 1968, \$5.95); **The Molecular Biology of Viruses**, Edited by L. V. Crawford and M. G. Stoker (Cambridge University Press, 1968, \$13.50); **Pesticides and Pollution** by K. Mellanby (Collins Publishers, 1967, 30s); **Essays on Form in Plants** by C. W. Wardlaw (Manchester University Press in England, and Barnes and Noble, New York, 1968, \$8.75); **Recent Advances in Phytochemistry, Vol. 1** (Proceedings of the 6th Annual Symposium of the Phytochemical Society of North American, Austin, Texas, 1966), Edited by T. J. Jabry, R. E. Alston, and V. C. Funeckles (Appleton-Century-Crofts, 1968, \$16.50); **Progress in Phytochemistry, Vol. 1**, Edited by L. Reinhold and Y. Liwshitz (Interscience, 1968, \$23.75); **Discovering Plants (A Nature and Science Book of Experiments)** by Richard M. Klein and Deana T. Klein (Natural History Press, Garden City, New York, 1968, \$4.50); **Growth and Organization in Plants (Structure, Development, Metabolism, Physiology)** (Addison-Wesley Series in Life Sciences) by F. C. Steward (Addison-Wesley, Reading, Mass., 1968, \$15); **Leonhard Rauwolf, Sixteenth-Century Physician, Botanist and Traveler** by Karl H. Dannenfeldt (Harvard University Press, 1968, \$7.95); **An Introduction to the Structure of Biological Molecules** by J. M. Barry and E. M. Barry (Prentice-Hall 1969, \$4.95); **Marine Biology Digest**, Edited by Cynthia Riggs Stoertz (Girard Associates, Inc., Box 404, Mount Arlington, New Jersey, 07856, subscription rate: \$30/year); **Chemistry of Natural Compounds (A translation of the Russian Khimiya Prirodnikh Soedinenii)** (The Faraday Press, subscription rate (6 issues): \$110); **The Biochemistry of Alkaloids, Vol. 3, Molecular Biology, Biochemistry and Biophysics** by Robinson (Springer Verlag, 1968); **Monographs in Virology, Vol. 1 Rhinoviruses** by Dorothy Hamre (S. Karger, 1968, \$4.90); **Livestock-Poisoning Plants of Arizona** by Ervis M. Schmutz et al. (University of Arizona Press, 1968, \$6); **A Bibliography on Drug Dependence** by Helen F. Sells (Texas Christian University Press, 1967, \$2.25); **On Integration in Plants** by R. Dostal (translated by J. M. Kiely and edited by K. V. Thimann) (Harvard University Press, 1967, \$5.95); **Introduction to Plant Breeding** by F. N. Briggs and P. F. Knowles (Reinhold, 1967, \$12.50); **Comprehensive Biochemistry, Vol. 22**, Edited by M. Florin and E. H. Stotz (Elsevier, 1967, \$12.75); **The Structure and Function of Enzymes** by S. Bernhard (W. A. Benjamin Co., 1968, \$10 cloth, \$4.75 paper); **Carbon-14** by V. F. Raaen, et al. (McGraw-Hill, 1968, \$8.95); **Insects and Physiology**, Edited by J. W. L. Beament and J. E. Treherne (Elsevier, \$25); **Soviet Plant Physiology (Fizologiya rastenii)**, Edited by A. L. Kursanov (translated from the Russian) (Plenum Publishing Corp., subscription price (6 issues) \$150/yr.); **Chemical Induction of Cancer, Structural Bases and Biological Mechanisms, Vol. 1** by Joseph C. Arcos, Mary F. Argus, and George Wolf (Academic Press, 1968, \$24); **Blood Clotting Enzymology** by Walter H. Seegers (Academic Press, 1967, \$27.50); **Starch, Chemistry and Technology**, Edited by Roy L. Whistler and Eugene F. Paschall (Academic Press, Vol. 1, 1965, \$22; Vol. 2, 1967, \$30); **Identification Methods for Microbiologists, Part B**, Edited by B. M. Gibbs and D. A. Shapton (Academic Press, 1968, \$7.50); **Morphogenesis in Plants**, Second Edition, by C. W. Wardlaw (Methuen, London and Barnes and Noble, New York 1968, \$14.50); **Addiction and Opiates** by Alfred R. Kindschmitt (Aldine 1968, \$7.50); **Dictionary of Economic Plants**, Second Edition, by J. C. Th. Uphof (Stechert-Hafner, 1968, \$17.50); **Molecular Control of Plant Growth** by J. Eugene Fox (Dickenson, Belmont California, 1968, \$2.50 paper); **Plant Toxicity and Dermatitis: A Manual for Physicians** by Kenneth F. Lampe and Rune Fagerstrom (Williams and Wilkins, 1968, \$9.25); **Edible Native Plants of the Rocky Mountains** by H. D. Harrington and Y. Matsumura (University of New Mexico Press, 1967, \$8.95); **Textbook of Theoretical Botany Vol. 3** by R. C. McLean and W. R. Ivimey-Cook (Wiley, 1967, \$19.25); **The Fungi. An Advanced Treatise, Vol. 3, The Fungal Population** (Academic Press, 1968, \$27.20); **Flora of Alaska and Neighboring Territories** by Eric Hulten (Stanford University Press, 1968, \$35); **Microbial Transformations of Steroids. A Handbook** by William Charney and Hershel L. Herzog (Academic Press, 1967, \$21).