

President's Club and Honor Roll

The members listed here have qualified for either the AOCs President's Club or President's Honor Roll. All current members who successfully recruit at least one new member qualify for Club membership. Successful recruitment of at least three new members is the qualification for the more prestigious Honor Roll. All Club and Honor Roll members will receive further recognition and the opportunity to participate in other special programs and activities. Special forms for use in recruiting new members are available from AOCs headquarters.

Fifteen

Stephen S. Chang

Thirteen

Ignacio F. Palencia

Eight

Ralph T. Holman
Randall Wood

Six

Michael G. Fader

Five

Syamal K. Bhattacharya
H.P. Gormley

Four

Robert C. Hastert
Franklin P. Khym

Three

Arno Cahn
Arnold Gavin
Angelo V. Graci
Robert W. Johnson
Fernando Luna
Frank Naughton
Ragnar Ohlson
Emory T. Payne

Two

Robert R. Allen
Manuchehr Eijadi
David R. Erickson
Roger L. Garrett
Joyce C. Kern
Richard V. Madrigal
Gerhard Maerker
Alan J. Sheppard

Barat Sreenivasan
Benjamin F. Ward, Jr.
Francis White
Richard F. Wilson
James B. Yeates

One

Phillip Abend
Toshimi Akiya
Aldo Albertini
Verlin Allbritton
Gregory E. Anekwe
Phillip D. Ashkettle
George E. Barker
Fred O. Barrett
Fred Bauer
Irvin C. Bentz
Fred Bieri
Anthony P. Bimbo
Evan F. Binkerd
Douglas M. Bisset
Gary J. Blomquist
John E. Blum
Francis F. Borba
Sherman A. Boring
Dean K. Bredeson
Elmer C. Brinkley
Walter M. Budde
Travis L. Budlong
Rudolf Bunkfeldt
Robert Cain
Paritosh M. Chakrabarti
Rashid A. Choudry
Ronald L. Christenson
Jaime Cifuentes
James C. Clouse
William T. Coleman
Joe Crafton
W. Gale Cutler
James M. Day
Rabindra N. Day
Robert L. Edwards
Richard R. Egan
Joseph G. Endres
Z.J. Farkas
Giles S. Farmer
David Firestone
Marvin W. Formo
Wilfred J. Frech
Earle Fritz
Frederick H. Fryer
Homero M. Garcia
William H. Garner
Roger L. Garrett
Lawrence Gildenberg

Dennis T. Gordon
Frank D. Gunstone
Alfen J. Gustavsen
Frank C. Haas
Edward Hahn
John M. Hasman
Charles W. Hoerr
Y. Hoffmann
Kenneth Holt
Francis E. Horan
Ray Hough
S.L. Hsia
Robert Husch
Richard C. Johnson
Edgar O. Johnston
Eric Jungermann
Jon J. Kabara
Peter Kalustian
Karl P. Kammann
Akio Kato
Frank R. Kincs
William R. Kittredge
Karl W. Klein
William H. Koester
David J. Kriege
R.G. Krishnamurthy
Fred A. Kummerow
John R. Ledin
Gabriel P. Lensack
Dorris A. Lillard
Robert C. Lindsay
William E. Link
John W. Lohr
Francisco I. Lopez
Francis E. Luddy
Walter O. Lundberg
Donald E. MacFadyen
Theodore K. Mag
William V. Magee
James E. Malone
William W. Marion
N. Matsuo
Dave McClung
Arthur C. McConnell
Raymond J. McGowan
Stephen E. McGuire
William F. McKusick
James F. Mead
John E. Middendorf
Salvatore N. Milazzo
John Monick
Nina H. Morley
Guy D. Moulton
Timothy L. Mounts
Ahmad M. Moustafa
Satoshi Natasato
W.W. Nawar
John D. Neighbors
George M. Neumunz
William M. Neuner
Olav Notevarp
Harold S. Olcott
Samuel E. Pack
Frank H. Passalacqua
George Payne
Nicholas Pelick
Andrew Peng
Gary E. Petrowski
Robert E. Pitas
John Plaut
Joseph Pominski
Ronald D. Priegnitz

Richard Purdy
Forrest W. Quackenbush
James B. Rattray
Robert A. Reiners
Herbert L. Rice
Ulo Riiner
Howard F. Robinson
George H. Rowland
Eugene Sallee
Henry G. Salomon
Joseph Sampugna
C. Oscar Schmidt, Jr.
Eugene A. Setzkorn
Sidney H. Shapiro
E. Richard Sherwin
Ronald Sleeter
Thomas H. Smouse
Alex Soltysyk
Norman O.V. Sonntag
Ronald C. Stillman
Charles M. Stine
Dale V. Stingley
Frank E. Sullivan
Bernard F. Szuhaj
Alan W. Taylor
Barton F. Teasdale
Richard Thanasse
G. Edward Thomas
Yoshiyuki Toyama
Woodrow W. Turner
Brian L. Walker
Rosco O. Walker
William H. Walker
Noel G. Weichman
Joseph F. Weiss
Eduardo Weymann
James W. White
Lars H. Wiedermann
Gerald G. Wilson
Norman H. Witte
Lloyd A. Witting
Arthur N. Wrigley
Kosaku Yasuda
Karl T. Zilch
Theodore J. Zwolanek

The individuals listed below have applied for membership in AOCS between June 1 and July 1, 1974.

Raul A. Alayola, gerente prod., Hidrogenadora Yucateca, S.A., Km. 4, Carretera Chichen Itza, Merida, Yucatan, Mexico.

Rivero J.C. Alvarez, techn. mgr., Centro de Control Total de Calidades, S.A., 282, 1^o Piso, Puebla, Mexico, Mexico D.F. 7.

Bruce E. Barlow, techn. mgr., Marrickville Holding Ltd., 74 Edinburgh Rd., Marrickville, 2204, Sydney, New South Wales 2204.

Mario J. Casassus, prod. mgr., Industrias Coia, S.A., Casilla 6-D, Vina Del Mar, Chile.

Michael J. Eby, grad. stu., Chemistry Department, Box 173, University of Maryland, College Park, Md. 20742.

Elizabeth J. Fisher, grad. stu., Chemistry Department, Box 168, University of Maryland, College Park, Md. 20742.

Edgardo J. Garcia, gerente prod., Grasas Y Aceites, S.A., Apartado No. 14, Chinandega, Nicaragua, C.A.

Larry K. Hall, res. dev. chem., Glyco Chemicals, Inc., P.O. Box 330, Williamsport, Pa. 17701.

Yoshioka Hiroyuki, res. lab., The Nisshin Oil Mills, Ltd., 1-3, Chiwaka-cho, Kanagawa-ku, Yokohama, Japan 221.

George R. Jamieson, sen. lect. org. chem., The Paisley

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Stumpf wins Award in Lipid Chemistry

P.K. Stumpf, professor of biochemistry and biophysics, University of California, Davis, has been named recipient of the 11th annual Award in Lipid Chemistry of the American Oil Chemists' Society. The Award will be presented at the Society's 48th Annual Fall Meeting to be held September 29-October 2, 1974, in Philadelphia, Pennsylvania.

The Award is presented to an outstanding scientist in the field of lipid chemistry. Established in 1964, the Award in Lipid Chemistry recognizes the accomplishment of outstanding original research in lipid chemistry, the results of which have been presented through publication of technical papers of high quality. Preference is given to those actively associated with research in lipid chemistry who have made fundamental discoveries that affect large segments of the lipid field.

Previous Awards were presented to: Erich Baer, Ernest Klenk, H.E. Carter, Sune Bergstrom, Daniel Swern, H.J. Dutton, E.P. Kennedy, E.S. Lutton, A.T. James, and F.D. Gunstone.

Obituaries

M.M. Wooden, of Houston Laboratories, Houston, Texas, died on March 31, 1974.

Walter Lengsfelder, a well known perfumer, cofounder and former president of Fluoroma, a predecessor of UOP Fragrances, died at the age of 69 on June 25, 1974.

He was associated with the fragrance industry for more than 40 years and was recognized as one of its top creative perfumers. He maintained his association with the industry until the time of his death, serving as a special consultant on perfumery to UOP Fragrances. ■

• President's Club. . .

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College of Technology, High St., Paisley, Scotland PA1 2BE.

Dolores T. Kenney, dir., Ken-Quest, 425 S. Chester, Park Ridge, Ill. 60068.

Peter J. Klein, grad. stu. res. asst., Nutritional Sciences, University of Connecticut, Box U-17, Storrs, Conn. 06268.

Harry A. Monroe, Jr., chem., U.S.D.A., ERRC, 600 E. Mermaid Ln., Philadelphia, Pa., 19118.

Chataboot Nilnond, sci. off., Agricultural Chemistry Div., Department of Agriculture, Bangkok, Bangkok, 9, Thailand.

Mary C. Ritter, res. assoc., University of Chicago, Franklin McLean Memorial Research Institute, Box 420, 950 E. 59th St., Chicago, Ill. 60637.

Stephen H. Safe, assoc. prof., Department of Chemistry, University of Guelph, Guelph, Ont., Canada.

Abdus Sattar, grad. stu., Department of Food Science, University of Guelph, Guelph, Ont., Canada.

Carlos E. Soza Barrundia, plt. eng., Proagro, S.A., Km. 56, Escuintla, Escuintla, Guatemala, C.A.

Walid A.R. Tannir, Anal. chem., M.O. Gandour & Sons, P.O. Box 494, Beirut, Lebanon.

A. Tietz-Devir, prof., Department of Biochemistry, Tel-Aviv University, Tel-Aviv, Israel.

Derek N. Zinkhon, chief chem., Hartsville Oil Mill, 100 S. 5th St., P.O. Box 490, Hartsville, S.C. ■

Stumpf's major discoveries and advances in knowledge in the areas of fatty acid biosynthesis and desaturation and of α -oxidation and β -oxidation in a whole range of plant systems have affected a large part of the lipid field.

More specifically, his biosynthetic studies have a growing importance and relevance in these days of food raw materials' shortages and increasing dependence upon plant products as a source of these raw materials, particularly of fats and oils. Also, his original studies on lipid oxidation pathways already have led to the recognition of the biochemical deficiency responsible for the disease known as Refsum's syndrome.

In 1951, Stumpf discovered an unusual type of oxidation of fatty acids in plants, namely the α -oxidation sequence, which allows a C_1 cleavage to CO_2 from the carboxyl end of the free fatty acid. Further understanding of the mechanism of this system recently has been elucidated in Stumpf's laboratory where he has developed a unified mechanism involving an α -hydroxyperoxyl fatty acid as the common intermediate in the formation of α -hydroxy acids and/or fatty acids containing one less carbon atom.

In the area of β -oxidation, Stumpf demonstrated for the first time, the in vitro β -oxidation of fatty acids in plant tissues. In 1958, he elucidated the so-called modified β -oxidation pathway of propionic acid which completely explains propionate degradation to CO_2 and malonyl CoA by a nonvitamin B_{12} pathway (important since the B_{12} cobalamines are nonfunctioning in plants). He also demonstrated that propionate, formed by a single α -oxidation and multiple β -oxidation of even chain fatty acids, is a direct precursor of β -alanine, an essential component of coenzyme A and acyl carrier protein.

The in vitro biosynthesis of fatty acid from acetate was first demonstrated in 1957 in Stumpf's laboratory. In 1961, he engaged in a series of experiments to define the complete pathway of fatty acid synthesis and desaturation in the chloroplast, the organelle essential for photosynthesis. Stumpf was able to conclude that (A) with the exception of biotin carboxy carrier protein which is grana bound, all the de novo-soluble biosynthetic enzymes are in the stroma phase of the chloroplasts, including acyl carrier protein and the stearyl ACP desaturase; (B) the synthetase systems are procaroytic in nature; (C) a unique series of reactions are involved in synthesizing oleic, linoleic, and α -linolenic acids in chloroplasts. Thus, oleic and linoleic acids are formed from stearyl ACP by a sequential desaturation, but α -linolenic is formed by the desaturation of dodecanoic acid to a dodecatrienoic acid which is then elongated in the chloroplasts to α -linolenic acid. Thus, linolenic acid is not derived directly from linoleic acid. With this knowledge, control mechanisms required to prevent excessive synthesis of fatty acids in chloroplast now are being examined. Thus, this work now can explain the fatty acid biosynthetic pathways in the chloroplast and, thereby, assist in the further understanding of the biosynthetic potential of chloroplasts.

Stumpf graduated magna cum laude from Harvard University. He received his Ph.D. from Columbia University in 1945.

The author of approximately 150 articles in the lipid chemistry and biochemistry field, he is currently editor of *Journal of Phytochemistry and Analytical Biochemistry*.

Stumpf, who received a Guggenheim Fellowship twice, has served as a consultant to NIH and was a member of the Subcommittee on Nomenclature of Biochemistry of the National Research Council, serving as its chairman in 1961-63. He was elected to the Nominating Committee, American Society of Biological Chemists.

He is a member of the American Chemical Society, American Society of Biological Chemistry, American Society of Plant Physiologists, American Oil Chemists' Society, Biochemical Society of London, and Sigma Xi. ■