



AOCs Annual Meeting Awards/ Business Breakfast

Minneapolis Convention Center
Minneapolis, Minnesota
May 15, 2001



2001



Each year the AOCS and its component groups present awards to recognize accomplishments by individuals in the realm of fats, oils, and related materials. Recipients range from longtime AOCS members who have spent years in their specialties to graduate students who are just beginning their careers. The AOCS congratulates each of the 2000-2001 award recipients.

AOCS 2000-2001 Governing Board

President.....Richard Wilson
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2001 Annual Meeting Awards/Business Breakfast

Call to order (Wilson)
 Welcome and Introduction of Local Committee
 (Norris/Benson)
 Approval of Minutes (Bieber)
 Nomination and Election Committee Report
 (Emken)
 Passing of the Gavel (Wilson)
 Presentation of Past President's Key (Cox)
 Incoming President's Address (Cox)
 2001 AOCS Awards Presentations
Student Awards
 Honored Student Awards
 Frank C. Naughton Award
 Manuchehr (Manny) Eijadi Award
 Health and Nutrition Division Student
 Excellence Award
 Biotechnology Student Excellence Award
 Ralph Potts Memorial Fellowship Award
 AOCS Scholarship Awards



Richard Wilson



Michael Cox



Guillaume Bastiaens

AOCS Thomas H. Smouse Memorial
Fellowship Award

Division Awards

Soap and Detergent Association Distinguished
Paper Award

Archer Daniels Midland Award for Best Paper
in Protein and Co-Products

Lipid Oxidation and Quality Division Best
Paper Award

Phospholipid Division Best Paper Award
Food Structure and Functionality Division
Achievement Award

Biotechnology Division Lifetime Achievement
Award

Herbert J Dutton Award
Samuel Rosen Memorial Award

Scientific Awards

Smalley Check Sample Award
Doughtie Award

AOCS Young Scientist Award
Stephen S. Chang Award

Supelco/Nicholas Pelick-AOCS Research
Award

Society Awards

AOCS Fellows

A. Richard Baldwin Award

Keynote Address—Guillaume Bastiaens, Vice
Chairman, Cargill, Inc.
Adjournment (Cox)



Baldwin Award

This award was first given in 1981 to Dr. A. Richard Baldwin to recognize his lengthy and distinguished service to the AOCS and for his leadership within the Society. The award consists of a plaque, a \$2,000 honorarium, and travel expenses all provided by Cargill, Inc.



The 2001 A. Richard Baldwin Distinguished Service Award winner is **Dr. Ralph Holman**. Dr. Holman is professor emeritus and a former director of the Hormel Institute at the University of Minnesota. Dr. Holman joined AOCS in 1946 and has a lengthy record of service to AOCS including serving on various finance, publications, education, and membership committees and as president of the Society in 1974–75. He also served as associate editor and editor of *Lipids*. Dr. Holman has had a significant impact in the area of lipid research during the latter half of the 20th century.

AOCS Fellows

In 1997, AOCS created the AOCS Fellow category of membership. Veteran AOCS members whose achievements in science entitle them to exceptionally important recognition or who have rendered unusually important service to the Society or to the profession are eligible for this honor. Candidates must have been an AOCS member for

a minimum of 15 years. AOCS Fellows are an elite group whose membership cannot exceed 1% of the AOCS membership.

The Fellow certificates will be presented to recipients at the Awards Breakfast.

Supelco/Nicholas Pelick-AOCS Research Award

The Supelco/Nicholas Pelick-AOCS Research Award was established to recognize outstanding original research, as presented in high-quality technical papers regarding fats, oils, lipid chemistry, or biochemistry. Supelco, Inc., a subsidiary of Sigma Aldrich Corp., and Nicholas Pelick, a long time member and past president of AOCS, are the sponsors of this award.



Dr. Ching-hsein Huang of the University of Virginia in Charlottesville, Virginia is this year's recipient of the Supelco/Nicholas Pelick-AOCS Research Award. The award consists of a plaque, an \$8,000 honorarium, and travel expenses.

The plaque will be presented at the Awards Breakfast. Dr. Huang's presentation titled "Mixed-chain Phospholipids: Structures and Chain Melting Behavior" will be given on Tuesday, May 15, at 1:30 p.m.

2001 AOCS Fellows



Robert Allen



Harold Dupuy



Herbert Dutton



David Kritchevsky



David Min

Stephen S. Chang Award

The Stephen S. Chang Award was established to recognize a scientist, technologist or engineer who has made distinguished accomplishments in basic research that have been used by industry for the improvement or development of products related to lipids. This award is sponsored by the late Stephen S. Chang and his wife, Lucy D. Chang.



Dr. Michael Blumenthal of Libra Technologies, Inc. in Metuchen, New Jersey, has been awarded the Stephen S. Chang Award for 2001. The award consists of a jade horse and an honorarium of \$6,000.

The jade figurine will be presented at the Awards Recognition Breakfast. Dr. Blumenthal's technical presentation, titled "Quantitative Frying" was presented on Monday, May 14, 2001.

Young Scientist Award

The AOCS Young Scientist award recognizes a young scientist who has made a significant and substantial research contribution in one of the areas represented by the Divisions of AOCS. The award consists of a plaque, a \$1,000 honorarium, and financial support to attend the AOCS Annual Meeting and Expo. The sponsor for the 2001 award is Dr. Vijai K. S. Shukla and the International Food Science Centre A/S in Denmark.



Dr. F. Xavier Malcata, Director of the College of Biotechnology of the Portuguese Catholic University in Porto, Portugal, is this year's recipient. The award will be presented at 1:30 p.m. on Wednesday, May 16. The title of his presentation is "General

Overview of R&D Efforts Pertaining to Natural Fats: From Lipase-Catalyzed Hydrolysis and Interesterification of Butterfat to Oxidation of Sardine Oil and Production of PUFA by Microalgae."

Samuel Rosen Memorial Award

This award recognizes a significant advancement or application of the principles of surfactant chemistry by a chemist working in industry within the United States. The contribution recognized may be in the form of a scientific publication, a patent, or the development of a new product.

The award consists of a \$2,000 honorarium and a plaque. The award is sponsored by Milton Rosen to recognize his father, Samuel Rosen, who worked as an industrial chemist on the formulation of printing inks for more than forty years. The award is administered by the Surfactants and Detergents Division of the AOCS.



This year's winner of the Rosen Award is **Dr. Paul Berger** of Oil Chem Technologies, Inc. in Sugar Land, Texas. His presentation, "Industrial Applications of New Alkylaryl Surfactants Based on Olefin Sulfonic Acids," is scheduled for the Industrial

Applications of Surfactants session on Tuesday, May 15 at 2:00 p.m. The winner will receive his award at the Surfactants and Detergents Division luncheon on Tuesday, May 15 at 12:00 noon.

Herbert J. Dutton Award

The Herbert J Dutton Award is sponsored by the Analytical Division and is given to a scientist who has made significant contributions to the analysis of fats and oils or for work that has resulted in major advances in the understanding of processes utilized in the fats and oils industry.



This year's recipient is **Dr. Arnis Kuksis** of the University of Toronto in Toronto, Ontario. The award, which consists of a plaque and a \$1,000 honorarium, will be presented at the Analytical Division luncheon at 12:00 noon, Wednesday, May 16. His presentation is titled "Structure and Physiological Function of Unusual Fatty Acids Formed During Fats and Oils Processing."

Biotechnology Division Lifetime Achievement Award

This award was developed in 1998 to honor the lifetime outstanding performance and meritorious contributions to an area of interest to the AOCS Biotechnology Division. The award consists of a \$3,500 honorarium and a plaque. The award is sponsored by Martek Biosciences Corp.



The winner of this award is **Dr. Sakayu Shimizu** of Kyoto University in Kyoto, Japan. The award will be presented during the Biocatalysis II symposium on Tuesday, May 15, 2001, after his presentation, "Production of Functional Lipids by Microbial Processes."

Food Structure and Functionality Division Achievement Award

The Food Structure and Functionality Division Achievement Award is a new award established in 2001. This award, which consists of a \$1,500 honorarium and a plaque, honors the recipient's outstanding performance and meritorious contributions to an area of interest to the Food Structure and Functionality Forum, a Division of AOCS.

Dr. Brian Brooker of Lipidex in Reading, UK is the first recipient of the award for his contributions to the field of food structure and functionality and to

the promotion, organization, and worldwide expansion of the Forum. The award will be presented at the Food Structure and Functionality Forum luncheon at 12:00 noon on Tuesday, May 15, where Dr. Brooker will give his presentation titled "Fat Crystals-The Importance of Being Small".

Phospholipid Division Best Paper Award

The Phospholipid Division Award for Best Paper is presented annually to the author of the best paper relating to phospholipids published during the last year. This award is sponsored and administered by the Phospholipid Division of the AOCS and the ILPS.



This year's recipient is **Dr. Armin Wendel** for his article published in *inform11*: 885-892 and 992-997, titled "Lecithin, the first 150 years". The award was presented at the Phospholipid Division luncheon, on Monday, May 14, 2001.

Lipid Oxidation and Quality Division Best Paper Award

The Lipid Oxidation and Quality Division Best Paper Award is presented annually to the authors of the best paper relating to lipid oxidation or quality published during the past year in AOCS Press publications. This award is sponsored and administered by the Lipid Oxidation and Quality Division of the AOCS.



Joon Shick Rhee
Hee Nam Yoon (not pictured)



Suk Ju Kim



This year's recipients are **Suk Ji Kim, Hee Nam Yoon,** and **Bon Shik Rhee,** for "The Effects of Roasting Temperature on the Formation of Headspace Volatile Compounds in Perilla Seed Oil" (JAOCs 77: 451-456).

The award was presented at the Lipid Oxidation and Quality Division luncheon on Monday, May 14, 2001.

Archer Daniels Midland Award

The Archer Daniels Midland Award is presented annually to the authors of the best paper relating to proteins and co-products published during the past year in AOCS Press publications. The award is sponsored by Archer Daniels Midland and administered by the Protein and Co-Products Division of the AOCS.

This year's recipients in the engineering/technology category are **E. Ibanez, J Palacios, F.J Senorans, G. Santa-Maria, J Tabera,** and **G. Reglero** for "Isolation and Separation of Tocopherols from Olive By-products with Supercritical Fluid" (JAOCs 77 187-190).

This year's recipients in the chemistry/nutrition category are **Jian Bautista, Raquel Corpas, Olga Cremades, Immaculada Hernandez-Pinzon, Rosa Ramos, Alvaro Villanueva, Raul Sanchez-Vioque, Alfonso Clemente, Jisto Pedroche, Javier Vioque, Jian Parrardo,** and **Francisco Millan** for "Sunflower Protein Hydrolysates for Dietary Treatment of Liver Failure" (JAOCs 77 121-125).

The awards will be presented at the Protein and Co-Products Division dinner on Tuesday, May 15, 2001.

The SDA Award

The Soap and Detergent Association (of the United States) Award is presented annually to the authors of the best technical paper appearing during the preceding year in the *Journal of Surfactants and Detergents* (JD), a publication of



Calum J. Drummond



Irene J.A. Baker

Barry Matthews, Hector Suarez, Irena Krodkiewska, D. Neil Furlong, and Franz Grieser (not pictured)

AOCS Press. The Soap and Detergent Association, along with the Surfactants and Detergents Division of the AOCS, sponsors this award. The award consists of a plaque and a \$1000 honorarium paid by the Surfactants and Detergents Association.

This year's recipients are **Calum J Drummond, Irene J A. Baker, Barry Matthews, Hector Suarez, Irena Krodkiewska, D. Neil Furlong,** and **Franz Grieser** for "Sugar Fatty Acid Ester Surfactants: Structure and Ultimate Aerobic Biodegradability" (JD 3: 1-11). Their awards will be presented during the Surfactants and Detergents Division luncheon on Tuesday, May 15, 2001.

AOCS Thomas H. Smouse Memorial Fellowship Award

The Archer Daniels Midland Foundation, the AOCS, the AOCS Foundation, and the family and friends of Dr. Smouse have established and assisted in funding a fellowship program designed to encourage and support outstanding graduate research in a field of study consistent with the areas of interest to the AOCS. The Smouse Fellowship reached its fundraising goal in 2000. The winner for the 2001-2002 academic year is **Jason Kwiatkowski** of the University of Illinois, who will receive a \$10,000 fellowship and a \$5,000 research fund.





AOCS Scholarship Awards

The AOCS Foundation has established a scholarship program designed to encourage and support outstanding research in all aspects of fats and oils. Current scholarships offered under this program include the following:

COGNIS Corporation sponsored a \$1,000 scholarship to support a graduate student studying general fats and oils chemistry. The winner for the 2001–2002 academic year is Hannah Osborn of the University of Georgia.

Lever Brothers Company sponsored a \$1,000 scholarship to support a graduate student studying in the surfactant and detergent field. The winner for the 2001–2002 academic year is Jooyoun Kim of Cornell University.

The Procter & Gamble Company sponsored a \$1,000 scholarship to support a graduate student studying general fats and oils chemistry. The winner for the 2001–2002 academic year is Daniel Bütz of the University of Wisconsin.

Synetix, ICI Americas sponsored a \$2,000 scholarship to support a graduate student studying general fats and oils chemistry, with an emphasis in industrial applications. The winner for the 2001–2002 academic year is Yunling Zheng of North Dakota State University.

Ralph H. Potts Memorial Fellowship Award

The Ralph H. Potts Memorial Fellowship Award is presented annually to a graduate student working in the field of chemistry of fats and oils and their derivatives. The type of research that qualifies for the award involves fatty acids and their derivatives, such as long-chain alcohols, amines, and other nitrogen compounds. The award consists of a \$1,000 honorarium and a plaque. It is sponsored by Akzo Nobel, Inc. to recognize the

late Ralph H. Potts, a pioneer in industrial research and technology of fatty acids.



Prima Sehanputri of the University of Wisconsin in Madison, Wisconsin, is this year's recipient of this award. Her presentation, "Immobilized Enzyme Technology for the Production of Nutraceuticals Enriched in Conjugated Linoleic Acid" is scheduled for the General Biotechnology session on Wednesday, May 16. At that time she will receive her honorarium and plaque.

Biotechnology Student Excellence Award

The Biotechnology Paper Award is sponsored by the Biotechnology Division of the AOCS and is intended to recognize an outstanding paper in the field of biotechnology presented by a student at the AOCS Annual Meeting & Expo. Award recipients will receive an honorarium and a certificate at the Biotechnology Division Dinner. The winners of the Biotechnology Student Paper Award are:

First Place—*"Enzymatic Production of Sugar Fatty Acid Esters."* **Y. Yan, U. Bornscheuer, and R. Schmid**, University of Stuttgart, Institute of Technical Biochemistry, Germany.

Second Place—*"Enzymatically Modified Beef Tallow as a Cocoa Butter Substitute in Dark Chocolate."* **Hannah T. Osborn and Casimir C. Akoh**, University of Georgia, Department of Food Science and Technology, Athens, Georgia, USA.

Third Place—*"Immobilized Enzyme Technology for the Production of Nutraceuticals Enriched in Conjugated Linoleic Acid."* **Prima S. Sehanputri and Charles G. Hill, Jr.**, Department of Chemical Engineering, University of Wisconsin, Madison, Wisconsin, USA.



Health and Nutrition Division Student Excellence Award

This award recognizes the outstanding merit and performance of an Honored Student in the health and nutrition field, who will present a paper at the annual meeting of the Society. This award is sponsored by the Health and Nutrition Division of the AOCS and includes a certificate and \$500 to be used for continued education in the fats and oils field.

The recipient of this award is **Mr. Hung Pham** of the University of California, in Davis, California. Mr. Pham's presentation, "Transformation of Testosterone to Dihydrotestosterone in Non-carcinogenic and Carcinogenic Prostatic Cells: Modulation of 5alpha-reductase by Gamma-linolenic Acid" was given on Monday, May 14, 2001.

Manuchehr Eijadi Award

The Manuchehr (Manny) Eijadi Award recognizes the outstanding merit and performance of an Honored Student, who will present a paper at the annual meeting of the Society. This award is derived from the funds contributed by Manny Eijadi, a longtime active member of the AOCS. The award consists of a plaque and \$1,000 to be used for continued education in the fats and oils field.

Wim Bossaert is the 2001 recipient of the Eijadi Award. Mr. Bossaert's paper presentation is scheduled for the Oleochemicals and Related Products session on Wednesday, May 16. His presentation is titled "Functionalized Mesoporous Molecular Sieves as Promising Catalysts for Oleochemistry."

Frank C. Naughton Award

The Frank C. Naughton Award recognizes the outstanding merit and performance of an Honored Student, who will present a paper at the annual meeting of the Society. This award is derived from the funds contributed in memory and honor of Frank C. Naughton, a distinguished and active

member of the AOCS, and conveyed to the Society by his widow, Marian Naughton. The award consists of a certificate and \$1,000 to be used for continued education in the fats and oils field.

Jeffrey Boff of The Ohio State University is the recipient of the award. Mr. Boff's paper will be presented on Wednesday, May 16, during the General Analytical II session. His presentation is titled "Solid Phase Microextraction Analyses of Vegetable Oils and Reversion Flavor of Soybean Oil."

Honored Student Award

The Honored Student Award recognizes graduate students at any institution of higher learning, in any area of science dealing with fats and lipids, who are doing research toward an advanced degree and who are interested in the areas of science and technology. Ten students have been selected to receive special recognition for their academic studies and research. These students have received financial support to attend the meeting and each will be presenting a technical paper as part of the technical program. The 2001 recipients are:

Mr. Jeffrey Boff, The Ohio State University

Mr. Wim Bossaert, Catholic University Leuven, Belgium

Ms. Clare Curtis, Cardiff University, United Kingdom

Mrs. Elin Kulas, DalTech Dalhousie University, Canada

Mr. Mohamed E. S. Mirghani, Universiti Putra Malaysia, Malaysia

Mr. Hung Pham, University of California, Davis

Ms. Ni Luh Puspitasri-Nienaber, The Ohio State University

Ms. Christine Seppanen, University of Minnesota

Mr. Youchun Yan, University of Stuttgart Allmandring, Germany

Mr. Qiong Zhou, Brooklyn College of City University of New York



Jeffrey Boff



Wim Bossaert



Clare Curtis



Elin Kulas

Mohamed E. S.
Mirghani

Hung Pham

Ni Luh Puspitasari-
Nienaber

Christine Seppanen



Youchun Yan



Qiong Zhou

The following have contributed to the 2001 Honored Student Program. The AOCS gratefully acknowledges their support to further education in the fats and oils industry.

Anderson International Corporation
CanAmera Foods
Central Soya Company, Inc.
The French Oil Mill Machinery Company
Goldschmidt Chemical Corporation
In Memory of Edward Perkins
Monsanto
Nu-Chek Prep, Inc.
Paratherm Corp.
Somes-Nick & Company
Süd-Chemie Adsorbents, Inc.

We would also like to thank the many AOCS members who contributed to the 2001 Honored Student fund by including a donation with their membership dues.

Laboratory Proficiency Program

The AOCS Laboratory Proficiency Program involves over 500 chemists in 39 series who check their proficiency in analytical techniques used in the fats and oils industry worldwide. Those who meet the committee's standards may apply for "Approved Chemist" status in the series in which they participate. Several trade associations list AOCS Approved Chemists as official referees who are qualified to settle disputes between buyers and sellers of particular commodities. Series are run from August to February annually. Further details may be obtained from the AOCS Technical Department. A list of Smalley awardees appears in this program beginning on page 14.

Two special awards are given each year. One is in honor of the originator of the AOCS Check Sample Program, Frank Smalley. The other honors Richard Doughtie, who for many years administered the program and managed the scores of volunteers who provided and mailed samples to participants.

This year's winner of the Smalley Award for Oilseed Meal Analysis is **Frank Fuentes**, from Southern Cotton Oil Co., Lubbock, TX.



The Doughtie Award for Cottonseed Analysis is presented to **Frank Hahn**, of Hahn Laboratories Inc., Columbia, SC.