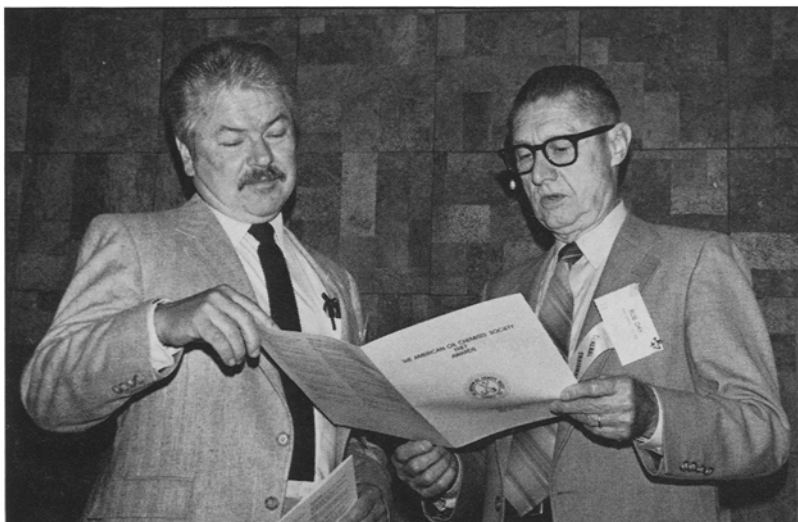


Carl-Erik Høy (right) of The Technical University of Denmark explains a point in his poster paper to John Kinsella of Cornell University.



Technical-Program Chairman Thomas Jacks (left) and General Chairman Robert Ory compare notes at the awards/inaugural breakfast.

New Orleans attracts 1,650

Approximately 1,650 persons attended the 78th meeting of the American Oil Chemists' Society held May 17-21, 1987, in New Orleans.

The meeting, representing the 40th time AOCS has met in New Orleans, featured more than 275 technical presentations, two full days and two half days of exhibits and a variety of social events. Those registering included over 1,300 technical registrants, 209 in the spouses' program and 117 exhibit representatives.

Technical presentations included both oral and poster sessions on many aspects of fats and oils, from processing to nutritional effects to medical research on edible oils, plus a full complement of papers relating to surfactants and detergents as well as to proteins.

Approximately 400 persons attended three short courses—on lipid oxidation, polyunsaturated fatty acids and eicosanoids, and vegetable proteins—held during the week preceding the annual meeting. The first two courses were held in Biloxi,

Mississippi; the third was held at College Station, Texas.

A highlight during free hours was New Orleans' music and local cuisine, including a rousing opening mixer on Sunday, May 17, and banquet on Wednesday, May 20, which featured a mock New Orleans jazz funeral.

On Tuesday morning, 94 meeting registrants took a break from technical sessions to ride down the murky Mississippi, a major waterway for fats and oils imports and exports. Participants left the Canal Street docks aboard the *Voyageur*, then traveled down the "elbow" in the Mississippi that curves around New Orleans past facilities of Delta Commodities, Continental Grain and Witco Chemical Co. and the city's public grain elevators.

Brian Kolowicki, manager of marketing information services for the Port of New Orleans, pointed out that for ships and barges to pass, dredges have to work daily to maintain a 40-foot depth in parts of the river. Other sections of the river are

well over 200 feet deep. Approximately 1.3 million short tons of animal and vegetable fats and oils—about 70% of the nation's exports of these commodities—were exported from New Orleans last year. Vegetable oil exports worth \$342 million rose to 813,000 tons, 10% above the year before. Kolowicki said most of the animal-fat products were shipped to Holland, Egypt and Latin America, while much of the vegetable oil was sent to India and Pakistan.

Also featured at this year's meeting were fund-drive efforts for the new headquarters building under construction in Champaign, Illinois. T-shirts, hats, mugs and a cookbook with favorite recipes of AOCS leaders and staff were on sale at a booth organized by the AOCS Foundation Board. In addition, AOCS held a "Fat Chance" raffle featuring such prizes as two round-trip business-class tickets to Europe on KLM; \$500 worth of free travel in the U.S. on United Airlines; and free weekends at the Marriott Hotel on

Annual Meeting Report



Bob Winters of Henkel (left) is congratulated by Ed Campbell during the opening-reception drawing. In the background, Robert Hastert announces the winners.

Hilton Head Island, the Hyatt Monterey Hotel, the Pointe at Squaw Peak, Phoenix, a participating Hilton Hotel and the Peabody/Orlando. Also participating were the convention and visitors bureaus of Baltimore, Denver, Phoenix and Toronto. Ed Campbell of Archer Daniels Midland coordinated the New Orleans fundraising fun.

During the AOCs business meeting Monday morning, members approved a series of changes in the By-Laws that modify the structure of the Governing Board. The changes (a) expand the number of members-at-large on the Governing Board to six, from three; (b) reduce the number of years that past presidents are required to serve on the Governing

Board, from four to one; and (c) modify the AOCs committee structure as part of efforts to foster more coordination between committees.

At the Monday morning breakfast, Terry Q. Alarcon, executive counsel to the mayor of New Orleans, welcomed meeting participants to New Orleans on behalf of Mayor Sidney Barthelemy. Also, AOCs executive director Jim Lyon gave meeting participants a look at progress on the new AOCs headquarters through a slide presentation.

Robert Hastert, manager of market and product technology for The Harshaw/Filtrol Partnership, was installed as President at the Wednesday morning breakfast. Past presi-

dent Joyce Beare-Rogers gave outgoing president Arnold Gavin a key to the President's Club while Gavin handed the traditional AOCs tomahawk gavel to Hastert.

Also featured at the breakfast were presentations of awards: the Supelco AOCs Research Award, to Andrew Benson; the AOCs Award of Merit, to Robert Ory, who served as general chairman for the New Orleans meeting; Smalley Check Sample Awards, Honored Student Awards, the Ralph Potts Memorial Fellowship, the Soap and Detergent Association Award for best surfactant and detergent paper and the Archer Daniels Midland Award for best protein papers published in *JAOCs*.

On Monday morning, spouses' program registrants boarded the Creole Queen paddle wheel boat for a downriver cruise to Chalmette Battlefield and Monument, commemorating the Battle of New Orleans in 1815. The afternoon was free for exploring Riverwalk, the new shopping area created for the world's fair a few years ago.

On Tuesday, May 19, there was a bus tour to the Blaine Kern's Mardi Gras World, where floats are constructed for the famed New Orleans parade. Participants had free time for exploring Canal Street shops, the French Quarter or the Riverwalk and Jax Brewery boutiques. On Wednesday, spouses' program participants learned more about New Orleans' history and customs in a special presentation by Gaspar J. "Buddy" Stall, public relations director of Cellular One by Radiofone. Coordinating the spouses' program were Noralie Brown, Lorraine Feuge and Becky Skau.

Meanwhile, 52 persons used the services of the 15th AOCs Placement Center, conducted during the annual meeting, to bring together employers and job applicants in subject areas served by AOCs.

The exposition held in conjunction with the annual meeting featured 73 booths representing 58 companies that displayed the latest in equipment, supplies and services available to the fats and oils industry (see the separate article featuring the highlights of the exhibit).

Ava Hastert, wife of incoming President Robert Hastert, upstaged everyone, including her husband, at the Wednesday morning awards and inaugural breakfast. Taking the microphone, the First-Lady-to-be hawked the AOCs cookbook as "the best gift" to take home from the meeting. In her sales pitch, she noted the book included "recipes by [past president] Joyce Beare-Rogers, [AOCs executive director] Jim Lyon, [past president] Ed Perkins and a lot of famous people in this room."

Gavin: State of the Society

The following address was given by outgoing AOCS President Arnold Gavin during the annual meeting in New Orleans.

During my inaugural address at the annual meeting in Honolulu last year, I said my election to President of the American Oil Chemists' Society was the highlight of my career in the fats and oils industry. I still stand by that statement. I do wonder where the year has gone.

At this time, I have a pretty good understanding of the requirements of this job. The AOCS President receives many letters to be read and answered. Routine Society business runs smoothly under the direction of the executive director, reducing the number of day-to-day decisions required of the President.

But there are many major decisions that require direct attention of the President and Governing Board.

Last July 15th, executive director Jim Lyon advised the Governing Board that the University of Illinois Board of Trustees had voted to buy out the AOCS lease on the headquarters building in Champaign. Closing of the sale was scheduled for Aug. 1, 1986. The offer from the University included a provision that

would reduce the purchase price by approximately \$3,000 for each month AOCS remained in the building after Aug. 1. We had anticipated the possible sale, and Jim Lyon had looked around Champaign for temporary rental quarters which the Society could occupy until it could construct a new permanent home. Jim assured me the staff could move out by Aug. 1. So a decision was made to sell our lease on the old building and to move to a new location in an older building, still under remodeling, but not yet complete.

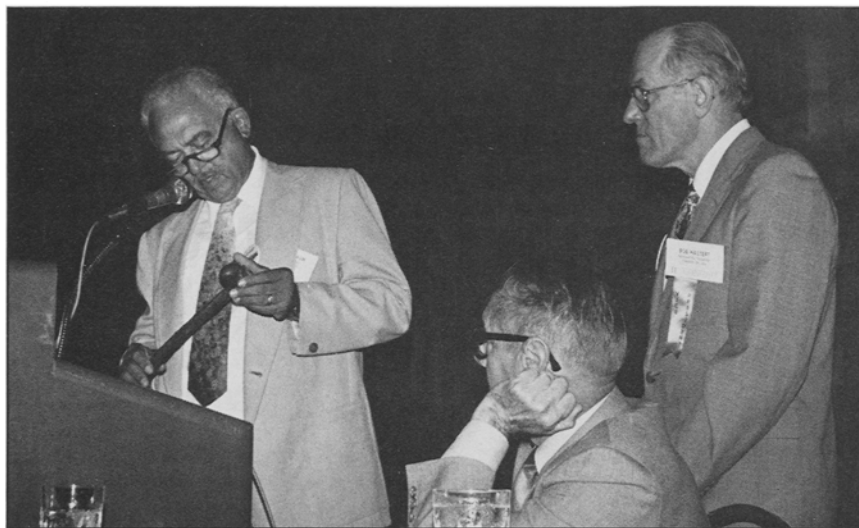
Quite frankly, I was not sure Jim was right that the new quarters could be remodeled in time or that the staff could complete preparations for a move within two weeks. Of course, if we ran into a problem, we could stay in our old building for an additional month by paying a \$3,000 penalty. Well, somehow Jim was able to accomplish the nearly impossible and the staff moved on time. I am told the University of Illinois began remodeling our old building the day after we moved out.

The Governing Board met in the temporary rental quarters during early September. The staff was happy and working efficiently in a rather crowded space. The first move had been completed. Now our next step was to begin a new building. I decided the best procedure would be to obtain the services of AOCS members who had experience in building new facilities. An ad hoc committee was formed under the chairmanship of Edward Perkins, who had headed the site committee that had located a place to build a new headquarters. We needed financial input so we included AOCS Treasurer Tim Mounts. Next was Hank Sandvig, who has been in charge of a large number of construction projects for the Cargill company. Other members were Norm Witte, who has directed construction projects for Central Soya, and Dave Tandy, president of EMI, who has designed and constructed projects worldwide.

My charge to this committee was to work with the architect to design a structure suitable to the needs of the Society. Because of my 30 years' experience as a contractor, I told the committee to work with the architect to draw plans in detail, have them reviewed by all concerned staff members, and to make any necessary changes within reasonable guidelines. The committee was instructed to make sure there would be no change orders during construction. The resulting plans were submitted to pre-approved contractors for firm price bids. A suitable contractor was found, and ground was broken in early November. The new headquarters building is now scheduled for completion on July 31.

I would like to express my profound thanks to the members of the site and building committee for their dedication and excellent work.

Of course, during the same time that we were moving ahead with plans to construct a new headquarters, we also had to find a way to pay for it. Several years ago, forward-looking members of the



Arnold Gavin (left) prepares to hand over the official tomahawk gavel to Robert Hastert.

Annual Meeting Report

Governing Board member-at-large Deb Meiners of CPC International headed for the hotel swimming pool soon after 5:30 a.m. for her daily exercise regime during the meeting—and noted she had the pool to herself.

Governing Board decided to establish a building fund for future expansion. The existence of this fund permitted us to proceed with a building at this time. But we did need to supplement this fund, and this chore was assigned to the AOCS Foundation. Foundation President Bob Hastert has spoken to you about that already.

But not all this year's decisions dealt with a new building. During this year's business meeting, you will be asked to vote on proposed changes to the Articles of Incorporation and the By-Laws that will modify the structure of the Governing Board. This vote is the result of several studies undertaken by the Governing Board. When I served on the Governing Board in 1981 and 1983, it was apparent to many board members that the increasing number of committees reporting to the board

was creating an unmanageable situation. We had duplication of effort. Some committees were doing an excellent job; others were not, often due to a lack of direction. Continuity of board decisions was threatened.

Therefore, we have proposed to revise the Governing Board by increasing the number of at-large members to six, from the present three, and to increase their terms to two years, rather than one. Each year, three at-large members will be elected for two-year terms, thus providing more continuity in board membership. The AOCS committee structure would be changed to include six permanent, activities-coordinating panels. Specific members of the board would automatically head specific coordinating committees. For example, the Society Treasurer would be chairperson for

the Financial Activity Coordinating Committee. The Treasurer would report to the Governing Board on the activities of those committees concerned with Society finances. The President will serve as chairperson of the Administrative Activities Coordinating Committee; the Secretary will serve as chairperson for the Membership Coordinating Committee. The members-at-large will be assigned to head coordinating committees in accordance with their expertise.

Current Governing Board members are convinced these changes will increase the efficiency of the board and allow the members to concentrate their time on the most important matters brought to their attention.

Those examples—building and financing a new building, planning for a more efficient society—will give you an idea of the types of problems a President wrestles with during his brief term of office.

Our meeting in Hawaii last year was a great success. We have learned the Society can put on a meeting without having a general chairman resident in the host city. Credit, in addition to being given to Stan Loft and his committees, should go to the AOCS staff and Meetings Coordinator Joan Dixon. One of my objectives this past year has been to turn over as much as possible of the job of putting on a national meeting to our professional staff. In the future, I think we should see more input from technical director David Berner into the technical program, as he is in the best position to observe the needs of various divisions of the Society.

Before closing, I would like to remind you of two AOCS world conferences before our next annual meeting. In September of 1987 is the world conference on biotechnology and the fats and oils industry in Hamburg. In January 1988 is the world conference on processing and uses of jojoba in Phoenix—my adopted home city. January is a good time to visit Phoenix. Then be sure to come back later in the year for our 79th annual meeting, to be held May 8-12, 1988. Our society has grown to the point where we're too large for most hotels; the



Registrants check in at the meeting. Approximately 1,650 persons attended, including technical registrants, exhibit personnel and those in the Spouses' Program.

Annual Meeting Report

The three female members of the Governing Board—past president Joyce Beare-Rogers, reelected member-at-large Deb Meiners and newly elected Pam White—turned out Saturday afternoon to help AOCs staffers stuff envelopes with informational materials for the registrants. One couldn't resist asking, "Where are the male members of the Governing Board?"

Phoenix meeting will be our first annual meeting in a convention center, and our committee is working to make it a memorable event.

We hope you will enjoy this New Orleans meeting that Bob Ory and his local committee have organized and that you will take home many good ideas that will aid your companies and your careers.

Once again, I wish to thank the membership for permitting me to serve as your President this past year, to thank Jim Lyon and his staff for their support, to thank the present Governing Board members for their service, and, most importantly, to express thanks to my wife, Jo, for her assistance and understanding.

To close, I'd like to paraphrase Douglas MacArthur's comment: Old oil chemists never die, they just fade away.

Thank you, and goodbye.

Financial report

The following financial report was presented by Timothy Mounts, AOCs 1986-87 treasurer, at the AOCs annual meeting Monday morning, May 18, in New Orleans.

Compared to 1985, the Society during 1986 experienced an overall increase in the costs of operation of 25%, while operating income increased by 11%. The bulk in this increase in cost was in the major revenue-producing activities of the Society: that is, publications—*JAOCs* and *Lipids*—and meetings—annual meetings, world conferences and short courses.

Sources of AOCs income are indicated in Table 1 in thousands of

dollars. Income from meetings, at 37%, continues to increase as a portion of the total. World conferences and short courses are major financial activities of the Society, as well as significant professional events. AOCs expenses are categorized in Table 2. As mentioned earlier, cost of meetings increased during 1986. Whereas meetings in 1985 constituted only 20% of total AOCs operating costs, they were 30% in 1986.

Departmental financial results are presented in Table 3. Dues and general operating expenses have

been allocated to the departments. The most significant change in departmental performance was in the meetings department, which in 1985 showed a net gain of \$171,000 compared to this year's net operational loss of \$13,000. Overall operational costs exceeded operational income by 6.2%, or \$112,000. This compares with a net gain in operations of \$69,600 in 1984 and \$91,200 in 1985.

Nonoperating income generated by interest on the Society's invested reserve, amounting to a net gain of \$70,234, and by the sale of the depreciated lease on the previous headquarters building, amounting to a net gain of \$297,000, gave the Society an overall increase in its reserves of \$255,000.

Thus the Society continued its increase in net worth. At the end of 1986, this totaled \$1,115,000 (Fig. 1). This is a 30% increase in net worth compared to 1985; compared to the

TABLE 1

1986 AOCs Income

Department	Income	% of Total
Publications	484	28
Advertising	271	16
Meetings	641	37
Materials	144	8
Programs	69	4
General	109	7

TABLE 2

1986 AOCs Expenses

Department	Expense	% of Total
Publications	620	34
Advertising	174	10
Meetings	548	30
Materials	45	2
Programs	45	2
General	398	22

TABLE 3

1986 AOCs Departmental Financial Results

Department	Income (\$000)	Expense (\$000)	Net (\$000)
Publications	529	783	(254)
Advertising	283	222	61
Meetings	680	693	(13)
Materials	155	59	96
Programs	169	171	(2)
Totals	1,816	1,928	(112)

Annual Meeting Report

recession year of 1982, net worth has increased by 86%. The lower curve shows the net worth in constant dollars, that is, actual dollars corrected for inflation since 1967. On this basis, the Society's net worth is \$348,500.

The Society has embarked on a new era of financial commitment with the construction of the new headquarters building. The building fund-drive being conducted will assist in meeting this commitment. The Finance Committee and Governing Board are identifying opportunities for operational efficiency and economy and are increasing operational revenue to assure the long-term financial health of the Society and the enhancement of the professional activities of the Society.

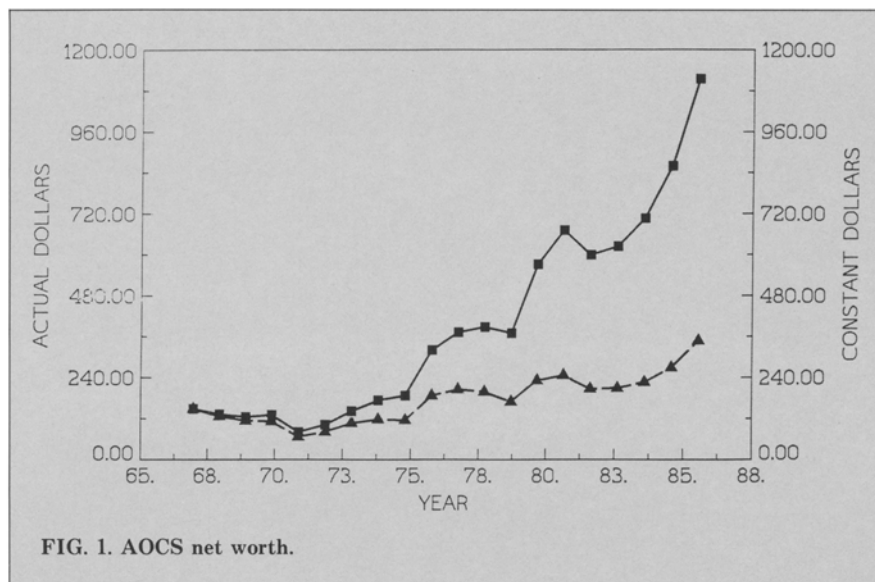


FIG. 1. AOCS net worth.

Robert Hastert: Inaugural address

The following address was given by incoming AOCS President Robert Hastert during the awards/inaugural breakfast at the 1987 annual meeting in New Orleans, Louisiana.

While being interviewed for my profile, which was printed in the May *JAACS*, I made the following statement—"Other than the pride I feel for the splendid adults my children have turned out to be, and the relief I feel at having retained my best friend, my wife, for 40 years, my greatest satisfactions have come from the American Oil Chemists' Society. To be professionally associated in so many projects with such great people would be more than enough by itself. To be elected to serve them as President is much more than this boy from Shelby, Nebraska, ever expected to achieve." Thank you.

This will be a year of both physical and organizational transition for AOCS. The physical part will be the move to our new headquarters building. The dedication ceremony and open house are scheduled for Saturday, Nov. 7. The North Central Section is organizing a symposium for the previous afternoon entitled "Fats and Oils—2000." Participants will be outstanding world leaders in their various fields of endeavor. As we say in New Orleans, "Y'all come!"

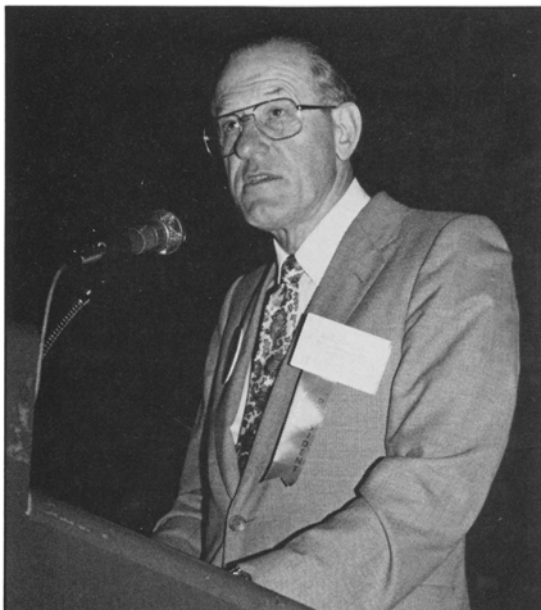
The second big transition this year will be to ready us for the changes that will take place next year when our revised constitution and by-laws

take effect. I am firmly convinced that the changes will result in a more representative and effective organization. It will be one of my major priorities to work closely with Tim Mounts, the other members of the Governing Board, and Jim Lyon and all his capable staff to make the transition as smooth as possible.

Our day-to-day financial situation also deserves close scrutiny. As in our families, our companies or the federal government, increasing income or reducing expenses are the only two options to achieve a balanced budget. We must study both very closely. That, of course, is why we are having the drive to raise funds for our new "Little Oil House on the Prairie." Borrowed money must eventually be paid back, and meanwhile, it collects interest.

Every year, the incoming President reminds us that the AOCS is truly a volunteer organization, and I am not going to be an exception. But what could you do with your time and energy that would have a better pay-off? You learn a lot. You enhance your professional career. And most importantly, you develop personal relationships with your associates, customers, suppliers,

Carol Campbell, whose husband Ed of Archer Daniels Midland Co. coordinated the building fund-raising activities at the New Orleans meeting, donned an AOCS "Best Little Oilhouse on the Prairie" t-shirt as she worked at the Foundation booth in the exhibit hall. Others staffing the booth could be found sporting a chef's hat and apron—to promote the AOCS cookbook—or the baseball hats available at the booth.



Robert Hastert, incoming President

competitors and just plain technical colleagues. Believe me, both great satisfaction and a lot of fun are to be had.

We have every reason to feel proud of being members of the American Oil Chemists' Society. To be part of an industry that provides ever-more nutritious and economical food to the world is not a small matter. While eating is essential to human existence, it is also one of the real pleasures of life. The Thanksgiving dinner, the backyard barbecue, the Happy Hour snacks, the McDonalds' stop, the AOCS banquet—all conjure up happy times with good friends. We don't have an AOCS slogan. Let me suggest an appropriate one—"bon appetit."

Awards

Andrew A. Benson of the Scripps Institute of Oceanography, La Jolla, California, received the 1987 Supelco AOCS Research Award at the New Orleans meeting.

The award was a plaque and a \$4,000 honorarium plus expenses. Benson gave his acceptance speech Monday morning, May 18, following the opening breakfast and was awarded his plaque and check during the awards/inaugural breakfast Wednesday, May 20. The award is funded by Supelco Inc. of Bellefonte, Pennsylvania.


In his talk, Benson spoke on his work in radio-chromatographic exploration. Encouraging anyone with a brilliant idea to pursue it, Benson added, however, "You need to have the fortitude to survive the disillusionment when it doesn't work." He also told listeners that "there remain plenty of worlds to explore." The text

of his talk will be published in the September issue of *JAACS*.

Other award winners also were recognized at Wednesday's breakfast. Robert L. Ory, general chairman for the 1987 annual meeting, received the AOCS Merit Award for 1987 for his invaluable service to AOCS throughout the years. Ory, a retired collaborator at the U.S. Department of Agriculture's Southern Regional Research Center in New Orleans, Louisiana, is AOCS' official representative in Louisiana, where the Society is chartered.

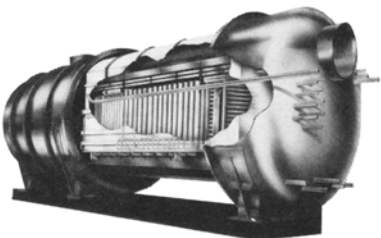
Edward T. Asirvatham, a doctoral graduate student at The Johns Hopkins University, Baltimore, Maryland, received the 1987 Ralph G. Potts Memorial Fellowship. He presented a paper on "A Short, Convergent, and Flexible Route to Polyfunctionalized Unsaturated Fatty Acids," which he coauthored with Gary H. Posner of Johns Hopkins. A native of India, Asirvatham earned a B.S. in chemistry from A.J. College, Sivakasi, India, and an M.S. in chemistry from The American College, Madurai, India.

The award is named for the late Ralph Potts, a pioneer researcher on fatty acids and nitrogen derivatives. The award fund was established by Akzo Chemie America, the successor firm to Potts' original employer, the Armour organization.

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Annual Meeting Report



George Liepa (left) of the Protein & Co-Products Section congratulates winners of the Archer Daniels Midland (ADM) Award for the best paper published in proteins and co-products engineering and technology. Shown with Liepa are (from left) Larry Johnson, Nagwa Sadek, John Farnsworth and Ed Lusas.



Merit Award winner Robert Ory (right), shown with R. G. Krishnamurthy.



This year's Honored Students, shown with Sharon Melton, who oversaw the program, are (from left) Todd Lorenz, Pearly Yan, Elizabeth Kay, Melton, Vivek Vadke, Nancy Robblee and José A. Rojo.



Edward T. Asirvatham (center) is the recipient of this year's Ralph H. Potts Memorial Fellowship Award sponsored by Akzo Chemie America. Shown with him are Richard Reck (left) and Lincoln Metcalfe (right), representatives of Akzo Chemie.



Nicholas Pelick of Supelco Inc. congratulates Andrew Benson of the Scripps Institute of Oceanography, Supelco AOCs Research Award winner.

Annual Meeting Report

In addition, six students, three from Canada and three from the U.S., were recognized as AOCS Honored Students. The awardees were Elizabeth M. Kay of the Department of Crop Science and Plant Ecology, University of Saskatchewan; Robert T. Lorenz of the Department of Microbiology, North Carolina State University; Nancy M. Robblee of the Department of Nutritional Sciences, University of Toronto; José A. Rojo of the Department of Food Science, University of Illinois at Urbana-Champaign; Vivekanand S. Vadke of the Food Science Department, University of Saskatchewan; and Pearly S. Yan of the Food and Nutrition Department, Iowa State University.

The Honored Students presented technical papers during the meeting.

Protein awards

An article entitled "Pilot Plant Studies on Extracting Cottonseed with Methylene Chloride" was selected as best paper in proteins and co-products engineering and technology published in *JAOCS* during 1986.

The six authors—L. A. Johnson, J. T. Farnsworth, N. Z. Sadek, N. Chamkasem, E.W. Lusas and B. L. Reid—were recognized during the awards/inaugural breakfast Wednesday, May 20, in New Orleans at the annual meeting. The paper was published in the May 1986 issue of *JAOCS*, pp. 647-652.

Also, A.-M. Hermansson of the Swedish Food Institute in Gothenburg, Sweden, was the recipient of the award for best paper in chemistry and nutrition for her paper "Soy Protein Gelation," also published in the May 1986 issue of *JAOCS*, pp. 658-666.

The selections were made by the AOCS Publications Committee and officers of the Proteins and Co-Products Section of AOCS.

Both awards are sponsored by the Archer Daniels Midland (ADM) Co.

SDA award

An article prepared by K. Lee Matheson, Ted P. Matson and the late Kang Yang was recognized at the 1987 annual meeting as the best surfactant and detergent paper published in *JAOCS* during 1986.

"Peaked Distribution Ethoxylates—Their Preparation, Characterization and Performance Evaluation" was presented at the AOCS 1984 meeting in Dallas and was published in *JAOCS* in March 1986. Matheson and Matson are from Vista Chemical Co., Ponca City, Oklahoma. Yang, who worked for Conoco Inc., Ponca City, is deceased.

Both Matheson and Matson were on hand to receive the award. A photograph of the winners appears in the Surfactant and Detergent Section of this issue. The paper appeared on pages 365-370 of the March 1986 issue of *JAOCS* (Vol. 63).

The Soap and Detergent Association is sponsor of this award.



Ted Matson (left) and Lee Matheson (center) receive the Soap and Detergent (SDA) Award for best surfactant and detergent paper published in *JAOCS* during 1986 from Keith Booman of SDA.

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"I'd rather be a lipid leader than a fat chemist."

Dave Erickson, commenting informally about the name of the society

Box lunches

Informal box-lunch discussions were introduced at the 1987 annual meeting. Featured topics were nutrition, chromatography, flavor nomenclature, hydrogenated oil and catalyst, and AOCS activities in Latin America.

The five discussions and their moderators were

- Nutrition—P. V. Johnston, professor of food science at the University of Illinois

- Chromatography—John Callahan, head of the analytical chemistry section at Colgate-Palmolive in Piscataway, New Jersey

- Flavor Nomenclature—J. A. Roberts, senior chemist at Best Foods Division of CPC International in Union, New Jersey

- Hydrogenated Oil and Catalyst—Robert Becker, senior researcher with Calsicat Division of Mallinckrodt

- AOCS Activities in Latin America—Frank Khym, consultant, San Antonio, Texas

As a result of the Latin America meeting, participants agreed to explore formation of a Latin American section of AOCS to serve Mexico, Central America, the Caribbean and South America. Persons from those areas who wish more information or who support the idea are asked to contact Aldo J. Pontecorvo, Regional Director, American Soybean Association, Rio Sena 26, Colonia Cuauhtemoc, 06500 Mexico City, Mexico.

Section events

Eight AOCS sections held cocktail receptions Monday evening, May 18. These included the geographical sections—Northeast, North Central, NorCal, Southwest, Desert Southwest, South Central and Canadian—

and a specialty section, Surfactants and Detergents, which was given Governing Board approval to form.

Meanwhile, the Protein and Co-Products Section's address and luncheon were held during Monday. David H. Swanson, president and chief operating officer of Central Soya Co., was the featured speaker. In his talk, Swanson noted that the outlook is brighter for increasing exports of value-added agricultural products than for export of raw foods and grains. His talk is published as a "Viewpoint" in this issue of *JAOCS*.

Fun run: Hunter #1 again

Successfully defending his title once again, Ed Hunter of Procter & Gamble cut 15 seconds off his 1986 time to win the 1987 Fat People's Fun Run and Walk.

The third annual event was held in Audubon Park, New Orleans, in conjunction with the AOCS annual meeting. One hundred and forty persons signed up for the run and walk; 90 actually crossed the finish line.

Despite the high humidity, Hunter ran the shaded five-kilometer course in 17 minutes, 48 seconds. On his heels was John Dobil of Lonza Inc., who came in at 17 minutes, 59 seconds.

Third place finisher was Neil Frank, with a time of 18 minutes, 9 seconds. Third and fourth placers were Michael Crossin of Gist Brocades USA Inc., at 18 minutes, 12 seconds; and Ed Lulai of the U.S. Department of Agriculture/Agricultural Research Service, at 19 minutes, 17 seconds.

First finisher for the women, Tonya Twillmann of Iowa State University, had a time of 20 minutes, 30 seconds, to place 13th overall. Alice Hudson of Surface



Frank Khym (left) of the International Relations Committee and Aldo Pontecorvo of the American Soybean Association's Mexico City office discuss plans to form a Latin American section of AOCS.

Chemists of Florida Inc., captured second place for the women, crossing at 21 minutes, 40 seconds. Nancy Morlino of Lonza Inc. was third, with a time of 21 minutes, 59 seconds. Women finishing fourth and fifth were Cuperus Roekk, at 24 minutes, 18 seconds, and Kristi Webb, finishing in 24 minutes, 21 seconds.

The first five finishers in both men's and women's categories received prizes: a \$50 gift certificate for first place; buffet luncheon for two at the Fairmont Hotel for second place; a \$25 gift certificate for third place; and ceramic replicas of the Rex Mardi Gras float for fourth- and fifth-place winners.

The oldest runner, for the second year, was Jim Baird of Artisan Industries Inc., Waltham, Massachusetts. Baird, now 69, placed 82nd with a time of 31 minutes, 32 seconds, the same time he ran in Hawaii in 1986.

William Porter, age 68, of the U.S. Army Natick R&D Center in Natick,



Despite the heat and humidity, over 90 runners and walkers begin the Fat People's Fun Run & Walk.

Massachusetts, placed 77th, at 29 minutes, 54 seconds.

Harold Dupuy of the local committee organized the run. However, when Dupuy was unable to attend the meeting due to his mother's poor health, Joe Fioriti of General Foods Corp., organizer of the event for the first two years, took over again. Fioriti himself ran this year and placed eighth, with a time of 20 minutes, 3 seconds.

The run was officiated by the New Orleans Track Club Inc.

One of those taking advantage of the walking aspect of the event, John Heilman of Continental Grain Co., walked half of the course to get his daily exercise; Heilman speculated he was probably the only

one taking part who had had a heart attack in the past year.

Sponsors for the 5-K run were the Fairmont Hotel, Central Soya Inc., Hoffmann-LaRoche, Supelco Inc., General Foods, Nu-Chek-Prep Inc. and Milton Roy.

Contributors

Many firms provided financial support or donations for other portions of the AOCS annual meeting, including the technical and spouses' programs, held during May in New Orleans.

Donors who helped make the Honored Student awards possible

for the New Orleans meeting were the following:

Akzo Chemie America, Chicago, Illinois

Anderson Clayton Foods, Dallas, Texas

Best Foods Division, CPC International, Union, New Jersey
Canada Packers Inc., Toronto, Ontario, Canada

Colgate-Palmolive Co., Piscataway, New Jersey

Fabrica de Jabon la Corona S.A., Mexico City, Mexico

French Oil Mill Machinery Co., Piqua, Ohio

Gerber Products Co., Fremont, Michigan

Kraft Inc., Glenview, Illinois

Lehn & Fink Products Group, Sterling Drug Inc., Montvale, New Jersey

Nu-Chek-Prep Inc., Elysian, Minnesota

Shell Chemical Co., Houston, Texas

Travenol Laboratories Inc., Deerfield, Illinois

Union Camp Corp., Savannah, Georgia

Donors for the Spouses' Program:

Kraft Inc., Glenview, Illinois
L.A. Solomon/Süd Chemie

Louisiana Department of Agriculture

Fun Run figure Joe Fioriti, explaining that he and his daughter currently both work for General Foods at the same location, noted that this allows them to carpool and to run: in the morning, one drives while the other runs the six miles to work; in the evening, they switch roles. However, he wonders whether he has taught her too well: When they ran in the New York marathon last year, she beat him by six minutes. He didn't say who usually gets home first from work—the driver or the runner.

Exhibit highlights

Visitors to the exhibit hall at the New Orleans meeting found a number of new items, some improvements to existing technology and a wide variety of products and services for the fats and oils industry.

Some "firsts"

The Foxboro Co. featured its new microprocessor-based distributive control system, the Intelligent Automation Series, which took five years to develop. The control, information and measurement system package includes an array of modular hardware that can be designed in custom-designed configurations, software, applications, intelligent transmitters and support services. Foxboro exhibited a videotape about the system, which has yet to be physically shown at an exhibit.

Amafilter b.v., The Netherlands, introduced to the U.S. its technology

of vertical filters for use in fully automatic operations and pressure leaf filters.

Franz Kirckfeld GmbH KG and S.A. Fractionnement Tirtiaux—It was Kirckfeld's first time to exhibit in the U.S. and the first time the two companies have exhibited together. Their display featured complete physical refining systems and equipment.

Florida Industrial Filters Inc.—A new company established in January 1987, Florida Industrial Filters has been licensed by L.F.C. Lochem B.V., The Netherlands, to market its filters in the U.S. market. It emphasized new developments of filtration of bleaching earth and catalysts, including the limitations of filter aids.

Prater Industries Inc. featured its new hammermill and larger flaking stand, designed to handle 400 tons of oilseed per day.

Diamond Crystal Salt Co.—A first-time exhibitor, Diamond featured its

DiCromat salt analyzer, an electronic unit to measure total chlorides by percent by weight. The company said the unit could be applied for surfactants in oils to measure total chlorides. A quality control unit, the instrument also can be a manufacturing tool, being built as a monitoring system in a processing system.

Manville Corp., Filtration and Mineral Division—A first-time exhibitor, Manville featured its diatomite filter aids and Silasorb adsorbent filter aids for frying operations. Company representatives noted much of its work is with adsorbents to remove free fatty acids to extend the life of cooking oils.

Anderson International Corp. featured its expander/extruder/cooker for the vegetable oil industry to enhance solvent extraction.

Herzog-Hart Corp., Process Technology Division offered plants not only for fats and oils but also for oleochemicals. It emphasized improvements in technology to produce higher quality nitriles and amines.

Technicon Instruments Corp. displayed IBM software (IDASPC software) for use with all of Technicon's near-infrared analyzers.

Whatman Inc. displayed graded density filtration discs, a new product, as well as expansions to its HPLC cartridge system, including zero dead volume guard cartridges. The cartridges include normal phase, reverse phase, strong anion and cation exchange and weak anion and cation exchange.

French Oil Mill Machinery Co., USA featured its countercurrent desolventizer-toaster systems. The company said two new installations of these systems were made in the U.S. in late 1986 and during 1987, in a Bunge Corp. facility in Marks, Mississippi, and for Perdue Corp. in Salisbury, Maryland.

Novo Laboratories Inc. emphasized Celluzyme, an enzyme designed for fabric softening, color brightening and soil removal. The company ex-



Peter Wan of Anderson Clayton Foods (left) and Mukana W. Muanda. Mukana W. Muanda, dean of the Faculty of Science at the University of Kinshasa, Zaire, was in New Orleans to attend his first AOCS meeting. Muanda, on a Fulbright Grant, was in the U.S. until July to conduct research at the W. L. Clayton Research Center, Anderson Clayton Foods, Richardson, Texas. He earned his doctorate from the Catholic University of Leuven, Belgium. His work at Anderson Clayton centered on hydrogenation of oils and on detergents.

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hibited this at the world conference in Montreux last October; this is the first time it has exhibited the product in the U.S.

Mettler Instrument Corp. featured new top-loading and analytical balances, with applications for moisture determination and general weighing. Mettler also exhibited an updated memo titrator used for peroxide values and acidities.

Süd Chemie A.G. featured two new catalyst products and one new bleaching clay. Representatives from Quimica Sumex S.A. of Mexico, United Catalysts Inc. and L.A. Salomon & Inc. were on hand.

International Diagnostic Systems Inc., a first-time exhibitor, offered a new technology immunoassay, antibody-based for the detection of aflatoxin and other microtoxins.

Zimpro/Passavant promoted its new business relationship with Idrex Inc. of Frankfort, Illinois, producer of horizontal and vertical pressure leaf filters. Zimpro/Passavant, of Rothchild, Wisconsin, a company active in water and waste treatment equipment and systems, has acquired Idrex and will manufacture Idrex products in Rothchild.

Foss Food Technology Corp.—A first-time exhibitor, Foss Food emphasized its rapid fat- and protein-analyzing equipment. According to company representatives, this equipment has traditionally been used in dairy-related applications, but now is being applied to the fats and oils industry.

FIATron Systems—Another first-time exhibitor, FIATron promoted its automation technology for iodine value, free fatty acids and other

techniques in edible fats and oils. Company representatives noted that this is a new application of its flow injection analysis instruments, which have been used in general research, biotechnology and pharmaceutical applications.

Linde Division, Union Carbide Corp.—A first-time exhibitor, Linde emphasized its blanketing evaluation service technology (BEST) nitrogen stripping systems. Representatives noted Linde sells industrial gases and related technology to the fats and oils industry.

PSI Process Systems Inc. announced it is building a new edible oil refinery in Oklahoma City for Wilson Foods Corp. that is designed to handle 25,000 pounds per hour. The facility, which also will include packaging and production of shortenings and salad oils, is

RAPID, FULLY AUTOMATED PROTEIN/NITROGEN DETERMINATION



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An overview of the exhibit hall, which featured 73 booths representing 58 companies.

targeted for completion in mid-1988. PSI said it is providing engineering, design and construction.

Extraktionstechnik GmbH—Featuring wastewater-free extraction, Extraktionstechnik announced it had sold its first SLF column (spherical liquid film deodorizer) unit for continuous physical refining and deodorization for a plant in Thailand to handle palm and soybean oils. A spokesman said the new unit will be in operation by mid-1988 at a facility that has only produced crude oil.

Amano International Enzyme Co.—A first-time exhibitor, it emphasized lipases for ester synthesis, transesterification, detergent areas and hydrolysis of fats and oils.

Nash Kinema, division of Nash Engineering Co. publicized that it is a new name to the industry, formed with the purchase in December of Kinema by Nash Engineering. It promoted new shell and tube condensers for use in vacuum systems in vegetable oil deodorization.

Crown Iron Works Co. said it is working in new geographic areas because of the appointment of Guy

Posschelle as a new agent; the company has added coverage of Central America and the Caribbean Basin.

De Smet U.S.A. Corp.—Noting that its physical refining units have been put into operation in Malaysia for palm oil, De Smet said it was seeking to apply the same technology of physical refining for liquid oils in the U.S. A spokesman noted that its first unit for liquid oils would go into operation this summer in Europe and that three continuous deodorizers would be started up in various locations in the U.S. during 1987.

Cambrian Engineering featured its Campro unit for processing fish oils, which it claims reduces PCB and DDT residues to acceptable levels without damaging the omega-3 acids and without forming polymers or artifacts. It noted that a leading cod liver oil producer in Europe will take delivery in August of its first system, with a 500 kg/hour capacity.

Cambridge Products-Vicam, a first-time exhibitor, featured its rapid method of testing grains, peanuts and peanut butter for aflatoxin. Company representatives, noting the method was introduced late in

1986, claimed it took under 10 minutes, with an accuracy of 1 part per billion.

Gist-Brocades USA Inc. promoted its high alkaline protease used in soaps and detergents, a product it exhibited at Montreux last October; this represented the first time it had exhibited the product at an AOCS meeting in the U.S.

Alfa-Laval and **Johnson-Loft** publicized their new relationship and Alfa-Laval's expansion of its engineering department, originally solely in Sweden, to include facilities in Singapore and Brazil. Johnson-Loft provides engineering in North America.

Zone Devices Inc. promoted its relatively new product, the stainless steel liquid Zone sampler, for two-inch openings and drum sampling.

Harshaw/Filtrol Partnership introduced three new Harshaw catalysts (Nysosel 325, Nysosel 222 and Nysosel 101) and promoted its highest activity Filtrol clay, Filtrol Grade 160.

Waters Chromatography Division, Millipore—This new exhibitor emphasized refinements to its instrumentation for HPLC technique analysis of carbohydrates, vitamins, proteins and lipids.

Oil promotion

Canola Council of Canada promoted the use of canola oil and its nutritional characteristics.

Callanish—Also a first-time exhibitor, this new company from Scotland, formed in 1986, promoted supplying fish oil, evening primrose oil, and a combination of the two in bulk, in essence or capsule form, for manufacturers and retailers. Representatives said the company was seeking joint ventures with U.S. companies.

Oregon Meadowfoam Growers Association disseminated information about meadowfoam oil and gave out samples of the oil.



In presenting the past-president's key to Arnold Gavin, Joyce Beare-Rogers told Gavin, "You have been a president for a year; you'll be a past president for the rest of your life."

Palm Oil Research Institute of Malaysia focused on the differences between palm oil, palm kernel oil and coconut oil.

SVO Enterprises featured high oleic sunflower oil and introduced a high erucic acid oil for industrial use; SVO said it will be able to supply approximately two to three million pounds of this oil in the fall from a crop being grown in Washington and Idaho. It also said it had added a number of oleic derivatives to its line of offerings.

Other features

Other booths at the exhibit featured the following for AOCS meeting participants:

Alfie Packers Inc. emphasized its software program for the food industry for wet chemistry. Originally designed for use with the Apple computer, it has been adapted for IBM, Mettler and Sartorius. The program covers moisture, ash, fiber, protein and oils determination.

Brinkmann Instruments Co. featured its 617 Rancimat for determining the oxidative stability of fats and oils. An AOCS collaborative

study is being contemplated to compare the performance of this instrument and the Active Oxygen Method (AOCS Method Cd12-57). A company spokesman said there is renewed interest in this instrument due to an article in the June 1986 *JAACS* that showed this instrument gave faster analysis at a lower cost. Also featured were an automated fat extraction system and titration equipment.

Eastman Chemical Products featured monoglycerides used in baking and confectionery industry, its natural-source vitamin E and food-grade antioxidants.

Eirich Machines Inc. featured the Saponiflex technology developed with Dial Corp. and introduced at the 1986 AOCS meeting in Hawaii. Company representatives said the technology has been improved, with a reduction in batch processing time due to vacuum mixers.

EMI Corp. emphasized its design and supply of customized physical refining facilities.

Equipment Engineering—Calling the company the "classic car people of our business," company represen-

tatives said it repairs, refurbishes and resells centrifuge equipment for the vegetable oil refining industry.

Industrial Filter & Pump Manufacturing Co. featured pressure leaf filters for automatic operations in the vegetable oil industry.

Industrial Scientific Inc. featured the Tintometer. The company is a Gulf Coast distributor of analytical instrumentation.

Laporte Group (Laporte Inorganics, Fulmont) featured filtration characteristics of bleaching earths (a company representative presented a talk on this topic during the technical sessions).

Marcel Dekker Inc. had a display of its publications, including a number of new volumes in its Surfactant Science Series as well as its book *Seafood and Fish Oils in Human Health and Disease*.

N. Hunt Moore & Associates Inc. featured Escher Wyss systems for drying, dehulling and conditioning of soybeans.

Pacific Scientific Co. featured near-infrared analytical equipment for measuring fats and oils and related products.

POS Pilot Plant Corp. fielded project-related questions concerning processing as well as its analytical services and educational programs.

Tekmar Co. displayed its dynamic headspace concentrators for volatiles analysis to determine product quality and off-flavor components.

Tintometer Co. featured its instrumentation determining the color of oil. Tintometer is seeking AOCS methods approval, through collaborative studies, for its Lovibond automatic model. The company also featured capabilities for providing test kits for boiler-water maintenance.

Tramco Inc. featured an enclosed chain conveyor for moving oilseed material to and through processing.

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UOP Inc., Biological and Food Products emphasized its Sustane food-grade antioxidants and its service of customized blending, as well as its Sustane C-A, citric acid dissolved in propylene glycol.

Votator Division, Cherry-Burrell Corp. featured its deodorizers and shortening and margarine equipment.

Wurster & Sanger Inc. highlighted processes and proprietary equipment for oil refining.

AOCS book exhibit displayed a variety of publications from 11 publishers.

Short courses

More than 400 persons attended the three AOCS-organized short courses held immediately preceding the 1987 annual meeting in New Orleans.

Approximately 270 persons participated in the AOCS short course on Polyunsaturated Fatty Acids (PUFA) and Eicosanoids, organized by William Lands, head of biological chemistry at the University of Illinois medical complex in Chicago, and held in Biloxi, Mississippi, May 14-17.

More than 60 speakers from a dozen nations on four continents were organized into seven plenary and four poster sessions on what has been learned thus far about omega-3 fatty acids. Although the schedule

provided four hours of free time each day, the registrants decided to use much of that time for informal discussions, attended by as many as 175 persons.

The explosion of interest in omega-3 fatty acids has been matched by increasing numbers of research projects. The Biloxi event permitted researchers to meet and share experiences. Some registrants felt many research reports lacked data on control subjects; others felt it was beneficial to bring as many viewpoints as possible together in one forum. Presentations at the meeting will be published in an AOCS book, expected to be available in September. All registrants for the course will receive a complimentary copy; details on ordering will be published in *JAACS* later this year.



Ann Marie Berner (left), representing AOCS, aids Ed Lusas and his wife at the vegetable protein short course organized by Lusas.



Spouse's Program participants enjoy the hospitality suite that was provided during the meeting. Shown (from left) are Joan Gavin, Virginia Heilman and Maurine Burton.



W.E.M. Lands talks with a registrant at the AOCS Short Course on Polyunsaturated Fatty Acids and Eicosanoids that Lands organized.



Participants in the Protein & Co-Products luncheon also hear about section business and plans.

Robotics, a popular theme at meetings these days, appeared to a small degree at AOCS' annual meeting. Two talks on robotics were presented: "A Robotic Approach for the Evaluation of Laundry Detergents," by E. J. Denton of Shell Development Co., and "Robotics—The Next Step in Laboratory Automation," presented by K. Dobson and coauthored by J. N. Little, both of Zymark Corp. In his presentation, Denton included a short movie starring "Guido the Robot." Showing what Guido could do, the movie noted, "Guido is always on the job, and Guido doesn't take coffee breaks."

"Olive oil adulteration will never, never, never disappear as long as there are olives. What it will take is surveillance, surveillance, surveillance," Dave Firestone of the U.S. Food and Drug Administration told approximately 100 listeners on the last day of sessions at the annual meeting. Asked by one participant what should be done if adulteration problems are suspected, Firestone said, "Look me up in the AOCS membership directory and call me. I'll take care of you." Firestone brought laughter from listeners when he told them, "If you know of any adulterers, we'll take them to court."

Speaker Timothy Mounts, also an AOCS officer, drew a full room when he talked on quality evaluation of soybeans received in Europe. Mounts noted samples were evaluated from shipments received in Europe with the cooperation of soybean processors there. The sampling was done at Rotterdam, Ghent, Hamburg, Amsterdam and Lisbon, with points of origin including the U.S., Brazil and Argentina. Mounts noted the studies will continue for another year.

Approximately 80 registrants participated in the Lipid Oxidation short course, also held at Biloxi. One major discussion at the course was how to measure progress of oxidation in fats and oils. Chairman Gerhard Maerker of USDA's Eastern Regional Research Center said there was considerable discussion on the validity of the thiobarbituric acid test, with defenders noting it was the best available method, but everyone agreeing something better is needed. Edwin Frankel of USDA's Northern Regional Research Center and David Min of Ohio State University also helped organize the Lipid Oxidation short course.

Many of the PUFA/Eicosanoid registrants, expressing interest in learning more about lipid oxidation, bought all available copies of the preprint materials distributed to registrants at the lipid oxidation course. Copies of the 222-page, loose-leaf material may be ordered at \$50 a set (includes surface postage) from Lipid Oxidation Short Course, AOCS, PO Box 5037, Station A, Champaign, IL 61820 USA.

The PUFA/Eicosanoid registrants had an added bonus for their meeting, with social events being hosted by corporations. R. P. Scherer, producers of MaxEPA capsules, provided a reception, and the Red Lobster Corp. hosted a lobster/trout dinner.

Meanwhile, a third short course, Vegetable Food Proteins: Preparation, Modification and Utilization, was held at the Food Protein Research and Development (R&D) Center at Texas A&M University in College Station, Texas. Short course chairmen were E. W. Lusas, K. C. Rhee and S. S. Koseoglu, all faculty members at the Food Protein R&D Center at Texas A&M University.

The course included a tour of the Food Protein R&D Center's research oil mill, the only complete oilseed extraction facility at an American university, and the site of an edible oils refining and processing pilot plant, currently under construction. Participants also visited the Food Protein R&D Center and saw demonstrations of vegetable protein extraction and extrusion texturization of soy flour.