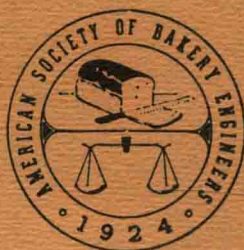


PROCEEDINGS
of
The Sixtieth Annual Meeting
of the
AMERICAN SOCIETY OF BAKERY ENGINEERS
1984



MARCH 4-7, 1984
CHICAGO, ILLINOIS

PROCEEDINGS
of the
Sixtieth Annual Meeting
AMERICAN SOCIETY
OF
BAKERY ENGINEERS

March 4-7, 1984

Chicago Marriott Hotel, Chicago, Illinois

We gratefully acknowledge the cooperation of the business papers in the baking and allied fields for generously contributing space to describe the activities of the Society during the year. Our special appreciation to those which gave careful coverage to our Annual Meeting.

We extend our sincere thanks to the members of the Bakers Courtesy Club of Chicago who served during the Annual Meeting as ushers, microphone monitors and maintained the information desk. On behalf of our members, the Society thanks the "ASK ME" men for serving.

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— 2 North Riverside Plaza, Chicago, IL, U.S.A., 60606

AMERICAN SOCIETY
OF
BAKERY ENGINEERS

March 4-7, 1984

Chicago Marriott Hotel, Chicago, Illinois

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Printed in U.S.A.

The American Society of Bakery Engineers is a non-profit organization that is dedicated to the advancement of the bakery industry. The Society is composed of individuals who are actively engaged in the bakery business and who are interested in the advancement of the industry. The Society is committed to the advancement of the industry through the exchange of information and the promotion of research and development.

The American Society of Bakery Engineers is a non-profit organization that is dedicated to the advancement of the bakery industry. The Society is composed of individuals who are actively engaged in the bakery business and who are interested in the advancement of the industry. The Society is committed to the advancement of the industry through the exchange of information and the promotion of research and development.

Chicago Marriott Hotel, Chicago, IL, U.S.A., 60604

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American Society of Bakery Engineers

ROBERT A. FISCHER, PRESIDENT

Room 1921, Riverside Plaza Bldg.
2 North Riverside Plaza
CHICAGO, IL 60606

60th ANNUAL MEETING

CHICAGO MARRIOTT HOTEL

March 4-7, 1984

Chicago, Illinois

Introduction to the 1984 PROCEEDINGS

This issue of the PROCEEDINGS—as was the case with all previous issues—is intended as more than a transcript of the program of the Annual Meeting; it is a valuable reference source for technical information on bakery production. All members of ASBE receive a single copy as a privilege of membership and most of them consider the PROCEEDINGS as an indispensable addition to their libraries.

As a technical reference book, this volume includes reproductions in complete form of all papers which were presented, transcripts of the discussions following each paper, reproductions of the slides shown during the presentation of the papers, as well as of the handout

material distributed. This volume also contains a Subject Index for the 1984 Program, a list of papers presented from 1965 to 1984, and lists of Technical Bulletins and EIS Reports issued since 1965.

Besides the technical data, there is a registration list for the 1984 Meeting and reports on (1) other ASBE activities at the time of the Annual Meeting, (2) functions held by other groups, and (3) services rendered by members of the Bakers Courtesy Club of Chicago. A handy Table of Contents has been provided for ease in locating specific papers, reports and sections.

Total registration for the 60th Annual Meeting was 1,123—not including ladies who accompanied registrants and who received complimentary badges.

**STRENGTHENING
THE BAKING INDUSTRY
THROUGH SHARING**

**60th
ANNUAL
MEETING**

FOR YOUR INFORMATION

For your convenience in locating the various rooms in the Chicago Marriott assigned for our use, we list the floors:

PROGRAM MEETING ROOMS

Salon II—Seventh Floor
Monday A.M. Session
Monday P.M. Session
Tuesday A.M. Session
Tuesday P.M. Session
Wednesday A.M. Session

OTHER

Ohio State and Northwestern Rooms—Sixth Floor
Advisory Committee Meeting
Purdue and Wisconsin Rooms—Sixth Floor
Luncheon for Advisory Committee
Ohio State and Northwestern Rooms—Sixth Floor
Executive Committee Meeting (Sun.)
Salon II—Seventh Floor
Program Participants' Meeting
A.S.B.E. Office—Seventh Floor
Lincolnshire I—Sixth Floor—Property Room
Foyer—Seventh Floor—Registration
Chicago Ballrooms A, B, C & D—Fifth Floor
Bakery Foods Display
Ohio State and Northwestern Rooms—Sixth Floor
Executive Committee Meeting (Wed.)

FOR YOUR CONVENIENCE

Restaurants in Chicago Marriott
Allie's Bakery
La Plaza
Upper Avenue Lounge
J. W.'s

PRIZES ON DISPLAY

See the prizes for the Wednesday morning attendance drawings in the lobby window of the gift shop on the north side of the lobby.

REGISTRATION

Please register promptly on arrival to prevent delays during meeting hours.

Registration Hours

Sunday	12 Noon to 5:00 P.M.
Monday	8:00 A.M. to 5:00 P.M.
Tuesday	8:00 A.M. to 5:00 P.M.
Wednesday	8:00 A.M. to 10:00 A.M.

Registration Desk

Seventh Floor Foyer

Please cooperate by keeping escalator landings free of crowds, and avoid group conversations in front of registration desks.

Registration Fees at Meeting

Members	\$55.00
Non-Members	\$75.00

Registration includes Officers' Reception and Bakery Foods Display. Admittance to these events is limited to registrants—by badge only.

INTRODUCTION

TO YOUR

60th ANNUAL MEETING

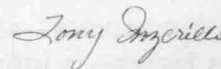
The Program Committee and the Officers welcome you to the 60th Annual Meeting of the American Society of Bakery Engineers.

The Program Committee had requested the input of all ASBE members for subjects and suggested speakers for our 60th Annual Meeting. Your cooperation and response was gratifying, and the Committee takes this opportunity to thank you. Without exception all of the papers being presented at this Meeting have been suggested by members, either on the Program Planning Questionnaires or the Program Reaction Sheets. We feel this program expresses your wishes and comprises the subjects you recommended.

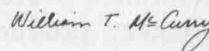
Because of the success of last year's Program in not having concurrent sessions, this year's Meeting will follow that same format. This gives our membership an opportunity to attend all sessions.

The many people involved, Officers, Program Committee, Session Chairmen and speakers, have spent a great deal of time and effort putting this program together. The greatest compliment that we can pay them is to attend and participate in each and every session.

Thank you for your support and we hope you enjoy your Meeting.



ANTHONY N. INZERILLO
PROGRAM CHAIRMAN



WILLIAM T. MCCURRY
FIRST ASSISTANT
PROGRAM CHAIRMAN



JOSEPH W. HICKENBOTTOM
SECOND ASSISTANT
PROGRAM CHAIRMAN

AMERICAN SOCIETY OF BAKERY ENGINEERS

ROOM 1921, RIVERSIDE PLAZA BLDG.
2 NORTH RIVERSIDE PLAZA CHICAGO, ILLINOIS 60606

JOINING THE SOCIETY

A non-member who joins the Society before registering for the 60th Annual Meeting can register as a member.

The Membership Committee maintains a desk in the registration area during the registration hours. Committee members are on hand to explain the benefits of membership and to assist in signing up new members.

AN EXPLANATION OF BADGES AND RIBBONS

Badge Inserts

White for all registrants
A colored dot denotes a new member
(who has joined since 9/1/83)
A receipt for registration fee is
stamped on back of insert

Ribbons

White for overseas visitors
Silver, coral, ruby & gold for members with 25
years or more of continuous membership
Blue for members on the program
Green for Committee Chairmen and Executive
Committee members

OFFICERS 1983-1984



FREDERICK J. BOWER
Chairman



FRANK R. GOLEY
First Vice-Chairman



EDWARD A. STIGLER
Second Vice-Chairman



BENJAMIN A. DeIORIO
Third Vice-Chairman



ROBERT A. FISCHER
President
Acting Secretary-Treasurer

PROGRAM CHAIRMEN 1983-1984



ANTHONY N. INZERILLO
Program Chairman



WILLIAM T. MCCURRY
First Assistant Chairman



JOSEPH W. HICKENBOTTOM
Second Assistant Chairman

OFFICERS OF AFFILIATES TO A.S.B.E.

BRITISH SOCIETY OF BAKING

Chairman	Timothy M. Moss
First Vice-Chairman	P. S. Wood
Second Vice-Chairman	Peter S. Massey
Third Vice-Chairman	Albert Waterfield
Secretary	Terry O'Gorman
Assistant Secretary	Helen Jones
Treasurer	F. G. Kinton

AUSTRALIAN SOCIETY OF BAKING

Chairman	Philip L. R. Dadd
First Vice-Chairman	Frederick D. Jones
Second Vice-Chairman	Ron Avis
Third Vice-Chairman	Diana Williams
Secretary-Treasurer	William R. Clarkson

SUNDAY, MARCH 4, 1984

- 11:00 A.M.—ADVISORY COMMITTEE MEETING**
Ohio State and Northwestern Rooms
Sixth Floor
(Committee members only)
- 1:00 P.M.—ADVISORY COMMITTEE LUNCHEON**
Purdue and Wisconsin Rooms
Sixth Floor
(Committee members only)
- 2:00 P.M.—EXECUTIVE COMMITTEE MEETING**
Ohio State and Northwestern Rooms
Sixth Floor
(Committee members only)
- 2:30-4:30—LADIES' TEA**
Great America I & II
Sixth Floor
- 4:00 P.M.—PROGRAM PARTICIPANTS' MEETING**
Salon II
Seventh Floor
(Speakers, session chairmen
and meeting chairmen only)

POST-MEETING SCHEDULE OF EVENTS

WEDNESDAY, MARCH 7, 1984

- 2:00 P.M.—EXECUTIVE COMMITTEE MEETING**
Ohio State and Northwestern Rooms
Sixth Floor
(Committee members only)

THURSDAY, MARCH 8, 1984

- 8:00 A.M.—PROGRAM COMMITTEE MEETING**
Lincolnshire II
Sixth Floor
(Committee members only)

SCHEDULE OF LADIES' ACTIVITIES

SUNDAY, MARCH 4, 1984

- 2:30-4:30 P.M.—Ladies' Tea**
Great America I & II
Sixth Floor

MONDAY, MARCH 5, 1984

- 5:30-7:00 P.M.—Officers' Reception**
Salon I
Seventh Floor

TUESDAY, MARCH 6, 1984

- 9:30 A.M.-4:00 P.M.—Ladies' Tour
and Luncheon**

March 5, 1984

**SALON II
(Seventh Floor)**

- 9:30—Meeting Room Opens**
- 9:45—Call to Assembly and Greetings**
FRANCIS M. COVEY, Decatur, IL
Meeting Chairman
- Entrance of Officers**
Introductions by FRANCIS M. COVEY
- America The Beautiful**
ANDREW MAIER, II, Reading, PA
- God Bless America**
Audience led by ANDREW MAIER, II
- Invocation**
LOUIS J. RICHTER, San Antonio, TX
- The Chairman Comments**
FREDERICK J. BOWER, Winston-Salem, NC
- The President Reports**
ROBERT A. FISCHER, Chicago, IL
- Program Preview**
ANTHONY N. INZERILLO, Chicago, IL
- Annual Business Meeting**
Conducted by FREDERICK J. BOWER, Chairman
- Knowing Your Society**
Technical Information Service Committee
Chairman SIMON S. JACKEL, Greenwich, CT
A brief presentation relative to the functions of this committee.
- Presentations and Introductions**
- Greetings from the Retail Bakers Of America**
JAMES R. SLOOP, High Point, NC
President
- Greetings from the American Bakers Association**
JOHN PATERAKIS, Baltimore, MD
Chairman
- Introduction of Speaker**
EDWARD A. STIGLER, Pekin, IL
- Opening Address**
LAUREN H. BATTY, Rye, NY
- Announcements**
FRANCIS M. COVEY, Meeting Chairman
- Adjournment**

MONDAY AFTERNOON PROGRAM

March 5, 1984

TECHNICAL PRODUCTION SESSION

SALON II (Seventh Floor)

- 1:15—Meeting Room Opens
- 1:20—Call to Assembly
FRANK R. GOLEY, Dallas, TX
Meeting Chairman
- Introduction to Technical Production Session
NANCY G. STAHEL, Arden Hills, MN
Session Chairman
- High Enrichment Bread
MARVIN E. ADAMS, W. E. Long Co., I.B.C.,
Fort Worth, TX
How to manufacture the new high enrichment bread just approved by the FDA—problems with these higher enrichment levels—processing, flavor, etc.
- Discussion
- New Fermentation Technology
CHARLES C. LYNN, Fermitech, Inc., North
Ridgeville, OH
New fermentation techniques encompass shorter fermentation time than conventional methods without sacrificing quality.
- Discussion
- Oat Products in Variety Breads and Rolls
ROBERT W. McKECHNIE, National Oats Co.,
Cedar Rapids, IA
The benefits of using oats for variety, nutrition and end product improvement.
- Discussion
- Flavors
TERRY O. BARSNESS, Mother Murphy's Lab.,
Inc., Phoenix, AZ
Quality versus cost—the break-even point.
- Discussion
- Shelf Life Improvement of Bakery Products
DAVID J. ASH, Del Monte Corp., Walnut
Creek, CA
Water activity as it affects shelf life.
- Discussion
- Adjournment

MONDAY EVENING PROGRAM

March 5, 1984

SALON I (Seventh Floor)

- 5:30-7:00—Officers' Reception
GEORGE E. LAURANCE, Minneapolis, MN,
Reception Chairman
ASBE Chairman Bower and the other officers, with their ladies, look forward to meeting fellow members and guests at this annual social event. Chairman Laurance has planned this event with your enjoyment in mind.

TUESDAY MORNING PROGRAM

March 6, 1984

TECHNICAL PRODUCTION SESSION

SALON II (Seventh Floor)

- 9:45—Meeting Room Opens
- 9:50—Call to Assembly
EDWARD A. STIGLER, Pekin, IL
Meeting Chairman
- Introduction to Technical Production Session
JAMES J. DIVER, Chicago Ridge, IL
Session Chairman
- Automated Packaged Product Systems
JOHN J. RADER, Chas. Freihofer Baking Co.,
Albany, NY
In-plant from packaging machines to trucks—including available concepts, container standardization, implementation costs and maintenance costs.
- Discussion
- Distribution of Cakes and Sweet Goods
RICHARD T. RICHTER, Colonial Cake Co., San
Antonio, TX
Shipping and unloading of product by order.
- Discussion
- Minor Ingredient Systems
J. WILLIAM LONG, Fedco Systems, Inc.,
Odessa, FL
Automated batching and weighing of minor ingredients.
- Discussion
- Computers for the Baking Industry
MERLE R. COOPER, Castle Computer Group,
Inc., Chicago, IL
Total bakery program, shop ordering, inventory control and cost analysis.
- Discussion
- Adjournment

TUESDAY AFTERNOON PROGRAM

March 6, 1984

SALON II (Seventh Floor)

- 1:45—Meeting Room Opens
- 1:50—Call to Assembly
BENJAMIN A. DELORIO, Utica, NY
Meeting Chairman
- Introduction to Technical Production Session
DONALD R. GOODENOUGH, Dallas, TX
Session Chairman
- Quality Control Today and Tomorrow
WILLIAM E. DIBBLE, Quality Bakers of
America, Greenwich, CT
The basic procedure for establishing and maintaining quality bakery foods.
- Discussion

- Troubleshooting in the Bakery**
NORMAN F. HIRT, West Baking Co.,
Indianapolis, IN
How to zero in on problems and where to
go for help.
- Discussion**
- Cake Doughnut Production**
GARY R. GOODSELL, Ph. Orth Co., Plano, TX
In-plant process controls for cake dough-
nut production.
- Discussion**
- Setting Up and Maintaining an Effective
Sanitation Program**
THOMAS J. ROLFES, ITT Continental Baking
Co., Rye, NY
The responsibilities involved in and the
need for a sanitation program.
- Discussion**
- Croissant Production**
CEES RIJKAART, C. RIJKAART B.V., Asperen,
Netherlands
Make-up procedures and formulations for
croissant production.
- Discussion**
- Adjournment**

TUESDAY EVENING PROGRAM

March 6, 1984

**CHICAGO BALLROOMS A, B, C AND D
(Fifth Floor)**

4:45-7:00 P.M. Bakery Foods Display

HAROLD D. FORTNER, Franklin Park, IL
Chairman
ALAN R. DEE, Franklin Park, IL
Assistant Chairman
FRANK SBERNA, Pickerington, OH
Regional Chairman—East
GEORGE H. COIN, Rock Island, IL
Regional Chairman—Mid-Central
ROLAN E. FLETCHER, Norcross, GA
Regional Chairman—South
JAMES D. KNOX, Hayward, CA
Regional Chairman—West
TOM MACDONALD, Franklin Park, IL
Regional Chairman—Northwest
GERARD A. DEGNAN, Whitefish Bay, WI
Regional Chairman—Central

JIM B. CHINGAS, Kankakee, IL
WILLIAM J. CROWTHER, Westmont, IL
WILLIAM A. HOFFMAN, Chicago, IL
FRANK C. JONES, Milford Square, PA
GEORGE J. KIEFER, Huron, SD
RICHARD L. KOENIG, Franklin Park, IL
MELVIN W. MUELLER, Mt. Prospect, IL
VERNON T. E. PEARSON, Northbrook, IL
ROBERT C. RADUENZ, Manitowoc, WI
ROBERT E. SINNARD, JR., Burr Ridge, IL
ROGER W. STRAND, Minneapolis, MN

The Bakery Foods Display covers the widest possible variety of bakery foods from all corners of our country and from all over the world. It has practical significance in acquainting us with progress in our specialized field of production. It also instills in us the pride in the achievement of our industry and its contribution to human nutrition.

The Display opens at 4:45 P.M. Tuesday, March 6, 1984, ADMISSION BY BADGE ONLY. Samples in the general display area are to be VIEWED ONLY and may not be opened. Samples in the "tear-apart room" are open and can be examined closely. At 7:00 P.M. when the display closes, all samples will be turned over to the Salvation Army for local consumption.

We acknowledge with grateful appreciation the cooperation of our friends in the allied trades, who collected most of the bakery products for this Display. We also thank the donors of this merchandise. Their help makes this Display possible. Our thanks to our members who sent in the samples of their products.

WEDNESDAY MORNING PROGRAM

March 7, 1984

**SALON II
(Seventh Floor)**

- 9:00—Meeting Room Opens**
- 9:05—Call to Assembly**
FREDERICK J. BOWER, Winston-Salem, NC
Meeting Chairman
- Introduction to Technical Production
Session**
ARMAND P. CICCIO, St. Louis, MO
Session Chairman
- The Supermarket In-Store Bakery**
JOSEPH C. GREGORY, Putman Publishing Co.,
Chicago, IL
Where is this market going? Its future and
what kind of in-store bakery will we have
in the future—scratch, mix, frozen bake-
off, etc.
- Discussion**
- Attendance Prize Drawing**
- Product Release Agents**
ELIZABETH ANN SCOTT, Mallet & Co., Inc.,
Sewickley, PA
The traditional and new technology of re-
lease agents.
- Discussion**
- Attendance Prize Drawing**
- Changes in Government Regulations
Affecting the Baking Industry**
M. RELLA DWYER, W. E. Long Co., I.B.C.,
Chicago, IL
Most recent changes affecting labeling,
packaging, etc.
- Discussion**
- Attendance Prize Drawing**
- A Profitable Bakery Operation**
C. H. CHRISTODOULOU, Drake Bakeries Div. of
Borden, Inc., Wayne, NJ
How to bring your bakery to a profitable
operation.
- Discussion**
- Attendance Prize Drawing**
- Installation of Officers**
- Chairman's Comments and Appointments**
- Attendance Prize Drawing**
- The Lord's Prayer**
ANDREW MAIER, II, Reading, PA
- Final Adjournment**

SCHEDULE OF NON-A.S.B.E-MEETING FUNCTIONS

MONDAY, MARCH 5, 1984

American Institute of Baking Alumni Association Breakfast

7:30 A.M.—Indiana and Iowa Rooms—Sixth Floor
Evert Kindstrand, Chairman

KSU-FSU Bakery Science and Management Alumni Association Breakfast

7:30 A.M.—Denver and Houston Rooms—Fifth Floor
Ross Holton, Chairman

TUESDAY, MARCH 6, 1984

Allied Trades of the Baking Industry, Inc. Early Bird Breakfast

8:00 A.M.—Salon III—Seventh Floor
Dwight D. Jarvis, Chairman

Canadian Members Luncheon

11:45 A.M.—Denver and Houston Rooms—Fifth Floor
Ed Warbeck and Sidney R. Rowell
Chairmen

Clayton Emerick Memorial Luncheon Luncheon

(Will not be held)

A.S.B.E. POLICIES AND GENERAL INFORMATION

COMMERCIALISM POLICY

If you have a question to ask or a statement to make during the sessions, request a microphone, rise, state, your name, city, and state, and then proceed. It is the FIRM POLICY of the Society that everyone appears as an individual and not as the representative of any commercial organization; hence, there shall be no commercial exploitation of any product, machine, equipment, brand name, firm name, patent, publication or service from either the speakers' platform or the floor.

ALLIED ACTIVITIES

All hospitality rooms are to be closed during all business sessions. It is also expected that commercial promotion of company or brand names will not be indulged in through such media as signs, room displays, motion pictures, general distribution of printed literature, samples, or advertising novelties. The usual cooperation of all allied firms in this policy which has been such an important factor in the success of our Meetings in past years is anticipated again this year.

BAKERY FOODS DISPLAY

Under no circumstances is anyone permitted to remove any bakery products from the display area either while the Display is open or after it closes.

JOINING THE SOCIETY

This is an excellent time to join the Society. Application blanks are available at the Membership Desk and signed applications will be accepted. A temporary receipt will be provided. Your official dues card, membership certificate and printed material will be mailed after the Meeting.

Also page 30 of this Program is a membership application form for your convenience.

PAYMENT OF DUES

Those desiring to pay dues during the Annual Meeting may do so at the Special A.S.B.E. Office located conveniently on the Seventh Floor. A.S.B.E. personnel will be on duty, and will give you a temporary receipt. Your dues card and membership certificate will be mailed to you after the Meeting.

WEAR YOUR BADGE!

You will be admitted to the Meeting ONLY if you are wearing your badge. Wear it proudly on your right lapel; it is your identification that you have registered for the 60th Annual Meeting.

BAKERS COURTESY CLUB

The members of this very fine group of Chicago Allied Men volunteer their services for our Meeting each year. They contribute greatly to the conduct and success of the Annual Meeting and we are pleased to publicly acknowledge their outstanding help again this year.

These men are identified by the familiar "ASK ME" badges. Please cooperate with them.

In addition to ushering during all regularly scheduled functions, they render valuable assistance in many other ways, namely:

- ... See that everyone is promptly seated.
- ... Prevent congestion at the door at all times.
- ... Man the microphones in the meeting room when you have a question to ask or a statement to make.
- ... Assist where possible in providing information about the Meeting.
- ... Maintain an Information Desk in the foyer. A courteous attendant is on duty at all times between and during sessions ready to be of service.
- ... Have a supply of Meeting registration lists available for those in attendance.
- ... Receive telephone calls and personal messages which reach the hotel for those attending our Meeting. Interruptions to page are not permitted except in extreme emergencies.
- ... Post notices of calls or messages on Message Board. By checking this board occasionally you can help them in their service to you.
- ... Distribute session material such as handout materials, etc.

This outstanding organization has long been of real service to us and to the industry of which we are all a part. May they continue to grow and prosper.

COMMITTEES 1983-1984 EXECUTIVE COMMITTEE

Frederick J. Bower, Winston-Salem, NC
Frank R. Goley, Dallas, TX
Edward A. Stigler, Pekin, IL
Benjamin A. Delorio, Utica, NY
Robert A. Fischer, Chicago, IL
Francis M. Covey, Decatur, IL
A. G. Oszlanyi, Charlotte, NC
Norman F. Hirt, Indianapolis, IN
Gary K. McArthur, Pensacola, FL
Robert C. Anderson, Port Washington, NY
William J. Champion, Colts Neck, NJ
Frank Bernard Evers, III, Nashville, TN
Thomas J. Mato, Auburn, ME
Patricia Antoni, Wheeling, IL
Christopher V. Cipriani, Raleigh, NC
John P. Del Campo, Wilmington, DE
Loyal J. Jensen, Rye, NY
Louis D. Fontana, Brooklyn, NY
Jerry J. Janson, New City, NY

STANDING COMMITTEES

Financial—John C. MacAlpine, III, Philadelphia, PA
Publications—Herman Saussele, Jr., St. Louis, MO
Technical Information Service—Simon S. Jackel,
Greenwich, CT
Manual—Paul W. Kamman, Park Ridge, IL
Sanitation—William E. Pieper, Oak Lawn, IL
Nominating—Francis M. Covey, Decatur, IL
Membership—Richard C. Freihofer, St. Louis, MO
Planning and Steering—Byron R. Baird,
Fort Worth, TX
Insurance—James A. Boge, Park Ridge, IL
Hotel Housing—Ross Holton, Chicago, IL
Educational—William A. Hoffman, Chicago, IL
Public Relations—John C. Morris, Wilmette, IL
Safety Z-50—Robert C. Anderson,
Port Washington, NY
Standardization of Terms and Index—Richard E.
Pyler, Fargo, ND
Exposition Booth—William H. Fife, Jr., Barrington, IL
Group Trip—Lon D. Zimmerman, St. Louis, MO

COMMITTEES—1984 PROGRAM

PROGRAM COMMITTEE

Anthony N. Inzerillo, Chicago, IL
Chairman
William T. McCurry, Shawnee Mission, KS
First Assistant Chairman
Joseph W. Hickenbottom, Maywood, NJ
Second Assistant Chairman
Frederick J. Bower, Winston-Salem, NC
Frank R. Goley, Dallas, TX
Edward A. Stigler, Pekin, IL
Robert A. Fischer, Chicago, IL

OFFICERS' RECEPTION

George E. Laurance, Minneapolis, MN—Chairman

PROPERTY COMMITTEE

Thomas E. Keffer, Crete, IL
Property Manager
Robert P. Bernoski, Mansfield, TX
Donald F. Bianchi, Mt. Prospect, IL
Richard A. Danko, Teaneck, NJ
William F. Geist, Rockford, IL
Donald R. Goodenough, Dallas, TX
Larry J. Hobbs, Dayton, OH
Donald E. Kindstrand, Hoffman Estates, IL
Edward J. Whatley, Sicklerville, NJ
Assistant Property Managers

BAKERY FOODS DISPLAY

Harold D. Fortner, Franklin Park, IL
Chairman
Alan R. Dee, Franklin Park, IL
Assistant Chairman
George H. Coin, Rock Island, IL
Gerard A. Degnan, Whitefish Bay, WI
Rolan E. Fletcher, Norcross, GA
James D. Knox, Hayward, CA
Tom MacDonald, Franklin Park, IL
Frank Sberna, Pickerington, OH
Regional Chairmen
Jim B. Chingas, Kankakee, IL
William J. Crowther, Westmont, IL
William A. Hoffman, Chicago, IL
Frank C. Jones, Milford Square, PA
George J. Kiefer, Huron, SD
Richard L. Koenig, Franklin Park, IL
Melvin W. Mueller, Mt. Prospect, IL
Vernon T. E. Pearson, Northbrook, IL
Robert C. Raduenz, Manitowoc, WI
Robert E. Sinnard, Jr., Burr Ridge, IL
Roger W. Strand, Minneapolis, MN
Committeemen

DECEASED MEMBERS

Edward M. Voorhees, De Land, FL
Cecil K. McInness, Ottawa, Ont., Canada
Howard L. Kramp, Bloomington, MN
John Smith, Kerrville, TX
Mark L. Mesler, Englewood, FL
John L. McKenzie, Boca Raton, FL
William I. Garling, Shippensburg, PA
Samuel Shumofsky, Bridgeport, CT
Robert F. Dethick, Summerhill, NSW, Australia
Charles A. B. Smith, Dallas, TX
Ed V. Mead, Albuquerque, NM
J. R. Perrozzi, Minneapolis, MN
Past President J. M. Albright, Park Ridge, IL
A. R. Fleischmann, Pompano Beach, FL
J. R. McLaughlin, Glenview, IL
Edwin G. White, Oldsmar, FL
Harry R. Vernon, Dallas, TX
James M. Doty, Kansas City, MO
Walter J. Malberg, San Francisco, CA
Melvin L. Parker, Cincinnati, OH
E. F. Sperling, Laguna Hills, CA

Since our Annual Meeting last year we learned of the passing of the members listed above. Each contributed in some measure to the success of our Society and we shall miss their presence at our Annual Meetings and their support.

PAST PRESIDENTS

(Year of election shown)

1924—Richard Wahl, Palm Bay, FL
1925—C. J. Patterson (deceased)
1926 & 1927—E. B. Price (deceased)
1928—George W. Tassie (deceased)
1929—Gordon H. Darnell (deceased)
1930—Louis E. Caster (deceased)
1931—Ross E. Anderson (deceased)
1932—Robert L. Gerdes (deceased)
1933—Carl S. Pickering, San Diego, CA
1934—Edward M. Joy, Clearwater, FL
1935—F. B. Evers, Sr., Nashville, TN
1936—W. J. Ocken (deceased)
1937—John Roberts, Beaumont, TX
1938—Roger Brandenburg (deceased)
1939—William Hauck (deceased)
1940—Walter T. Molloy (deceased)
1941—Cecil C. Cadwell (deceased)
1942—Wm. F. Gossadge, Lee's Summit, MO
1943—Willard H. Geller (deceased)
1944-1945—Albert J. Faulhaber, Longboat Key, FL
1946—Guy T. Shiverdecker, Kettering, OH
1947—Jake M. Albright (deceased)
1948—Otto Richter, San Antonio, TX
1949—Harold T. Moody, Westminster, CA
1950—Don F. Copell (deceased)
1951—Earl B. Cox (deceased)
1952—Fred Weberpals, Queens Village, NY
1953—M. J. Swortfiguer (deceased)
1954—Wallace K. Swanson, Atlanta, GA
1955—Martin Eisenstaedt, Havertown, PA
1956—Arthur G. Hackett, Venice, FL
1957—Harold M. Freund, Beverly Hills, CA
1958—Andreas F. Reising, New Orleans, LA
1959—H. Alvin Meyer, Jackson, MS
1960—Clayton C. Daley, Berwick, PA
1961—Robert Nicolait, Santa Barbara, CA
1962—Robert G. Dibble, Sun City Center, FL
1963—John A. Wagner, Sarasota, FL
1964—Walter T. Gase (deceased)
1965—Irwin O. Rohrbach, Reading, PA
1966—George H. Gugler, Sun Valley, CA
1967—Lawrence E. Pile (deceased)
1968—William C. Kollman, Wilton, CT
1969—William H. Ziemke, San Jose, CA
1970—Carl C. Hauswald, Jr., Baltimore, MD
1971—Robert C. Brink, Villa Hills, KY
1972—Louis J. Richter, San Antonio, TX
1973—Paul W. Kamman, Park Ridge, IL
1974—Charles B. Clark, Fort Smith, AR
1975—Eugene D. Swenson, Winter Haven, FL
1976—Donald S. Noot, Hazelwood, MO
1977—John L. DeKeizer, Deerfield, IL
1978—Byron R. Baird, Fort Worth, TX
1979—Frank H. Otway, Springfield, OH
1980—R. Richard Schlipf, LaCrosse, WI
1981—Ernest T. Stevens, Birmingham, AL

PAST CHAIRMAN

1982—Francis M. Covey, Decatur, IL

PAST PROGRAM COMMITTEE CHAIRMEN

(Year of program shown)

1929—E. B. Nicolait (deceased)
1930—G. Cullen Thomas (deceased)
1931—Peter G. Pirrie (deceased)
1932—W. E. Doty (deceased)
1933—C. A. McDuffee (deceased)
1934—Ross E. Anderson (deceased)
1935—Charles P. Oliver (deceased)
1936—R. W. Brooks (deceased)
1937—W. E. Doty (deceased)
1938—Harold Hall, Port Angeles, WA
1939—O. S. Otting, New Smyrna Beach, FL
1940—George T. Carlin, Furman, AL
1941—G. Richard Ludlow (deceased)
1942—F. J. Coughlin, Cincinnati, OH
1943—Arthur E. Grawert (deceased)
1944—Henry P. Montminy (deceased)
1945-1946—Carl W. Steinhauer (deceased)
1947—J. H. Debs, Chicago, IL
1948—Tyler R. Stevens, Essex Junction, VT
1949—Glenn E. Hargrave (deceased)
1950—Charles E. Riley (deceased)
1951—Jack S. Devanny, Lincoln, IL
1952—Len P. Kenney (deceased)
1953—Elmer F. Glabe, Chicago, IL
1954—Jones E. Mapes (deceased)
1955—T. E. Lauder (deceased)
1956—Len Franzen (deceased)
1957—Ray Thelen, San Diego, CA
1958—Clifton R. Scarborough, Shawmut, AL
1959—Lewis P. MacAdams (deceased)
1960—Irwin O. Rohrbach, Reading, PA
1961—James M. Doty (deceased)
1962—Harry D. Gardner, Albion, MI
1963—Ralph E. Manewal (deceased)
1964—Lloyd L. Fisher, Sun City Center, FL
1965—Zenas Block, Jessup, MD
1966—William F. Schroeder (deceased)
1967—Frank R. Schwain (deceased)
1968—Philip W. Orth, Jr., Oak Creek, WI
1969—G. N. Bollenback, Washington, DC
1970—Gerald Reed, Milwaukee, WI
1971—Donald K. Dubois, Manhattan, KS
1972—Herman Saussele, Jr., St. Louis, MO
1973—Richard M. Beaverson, Dallas, TX
1974—Ernest O. Cain, Dallas, TX
1975—Frank E. Johnson, Oak Creek, WI
1976—Lyle C. Woods, Olathe, KS
1977—Armand P. Cicciu, St. Louis, MO
1978—Frank J. Fischer, Carrollton, TX
1979—J. W. Doty, North Kansas City, MO
1980—A. Charles Roland, III, St. Louis, MO
1981—F. Robt. Grant, St. Louis, MO
1982—A. G. Oszlanyi, Charlotte, NC
1983—Edward A. Stigler, Pekin, IL