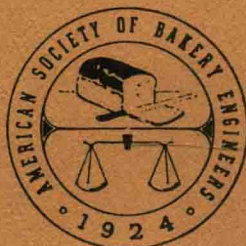


PROCEEDINGS
of
The Fifty-Eighth Annual Meeting
of the
AMERICAN SOCIETY OF BAKERY ENGINEERS
1982



MARCH 1-3, 1982
CHICAGO, ILLINOIS

PROCEEDINGS
of the
Fifty-Eighth Annual Meeting
AMERICAN SOCIETY
OF
BAKERY ENGINEERS

March 1-3, 1982

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 and provided us with the photographs which are included in this PROCEEDINGS.

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.

2 North Riverside Plaza, Chicago, Ill., U.S.A., 60606

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2 North Riverside Plaza, Chicago, Ill., U.S.A., 60606

Annual Meeting
PROCEEDINGS
AMERICAN
BAKERY ENGINEERS

March 4-5, 1982

Chicago Marriott Hotel, Chicago, Illinois

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Printed in U.S.A.

We gratefully acknowledge the cooperation of the business program in the baking and allied fields for generous contributions to the activities of the Society during the year. Our special appreciation to those which have donated money to the annual meeting and provided us with the programs which are included in this publication.

We extend our sincere thanks to the members of the Bakery Engineers Association of Chicago who were at the Annual Meeting as well as to those who have contributed to the information that is contained in this book. We thank the "ASBME" staff for their assistance in the preparation of this book.

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American Society of Bakery Engineers

ROBERT A. FISCHER, SECRETARY

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

58th ANNUAL MEETING

CHICAGO MARRIOTT HOTEL
March 1-3, 1982, Chicago Illinois

Introduction to the 1982 PROCEEDINGS

It is with a great deal of pride that this copy of the PROCEEDINGS of the 58th Annual Meeting of the American Society of Bakery Engineers is sent to you as a privilege of membership.

As is our usual custom, we have reproduced in complete form all papers which were presented, transcripts of the discussions following each paper, and the slides which were shown during the paper presentations.

To ensure accuracy of the text, every participant who could be identified was given the opportunity to edit his comments as recorded by the reporter at the Meeting. In this way, the Society can guarantee that the printed record is correct insofar as it represents the intent of the speakers.

In addition to all aspects of the official program, this book contains reports on (1) other

ASBE activities at the time of the Annual Meeting, (2) functions held by other groups, (3) services of the Bakers Courtesy Club of Chicago, and sections devoted to (a) the Subject Index for the 1982 Program, (b) papers presented from 1965 to 1982, (c) Technical Bulletins issued from 1965 to 1981, (d) EIS Reports issued from 1965 to 1981, and (e) registration for the 1982 Meeting. A handy Table of Contents has been provided for ease in locating specific reports and sections.

Total registration for the 58th Annual Meeting was 1,048—not including ladies who accompanied registrants and who received complimentary badges.

The PROCEEDINGS is an excellent reference source of technical information on bakery production and is a valuable addition to the library of anyone engaged in or involved with bakery production.

**SHAPING
THE FUTURE
FOR A
HALF-CENTURY**

**58th
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 III—Seventh Floor
Monday A.M. Session
Monday P.M. Session
Tuesday A.M. "B" Session
Tuesday P.M. Session
Wednesday A.M. Session

Salon II—Seventh Floor
Tuesday A.M. "A" Session

OTHER

Ohio State and Northwestern Rooms—Sixth Floor
Advisory Committee Meeting
Purdue and Wisconsin Rooms—Sixth Floor
Luncheon for Advisory Committee
Minnesota Room—Sixth Floor
Executive Committee Meeting (Sun.)
Salon III—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 & 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
Turn of the Century
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	\$50.00
Non-Members	\$70.00

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

INTRODUCTION

TO YOUR

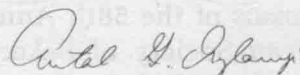
58th ANNUAL MEETING

It is a privilege to welcome you on behalf of the Program Committee to the 58th Annual Meeting of the American Society of Bakery Engineers.

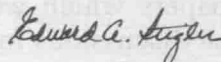
The 20 papers on this year's program represent an 11-month effort on the part of the speakers, session chairmen and the members of the Program Committee. It is with sincere hope that it represents a satisfactory segment of the knowledge and information which you expect to assimilate during the course of the next two and one-half days. With minor exception, every one of the papers were the result of your suggestions as gleaned from the Program Planning Questionnaires and Program Evaluation Cards.

Many of you further requested that the papers contain greater detail and go more in-depth. This was probably our greatest objective in asking the speakers to deal with their subjects in this manner. While we feel we accomplished most of this goal, the final judge will be you, the audience. It is therefore requested that you exhibit your response in the form of questions at the end of each presentation.

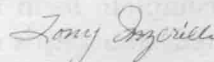
We thank you for your support with your attendance and wish you a successful meeting. If we can be of further service to you during the next few days, please do not hesitate to call upon one of us.



A. G. OSZLANYI
PROGRAM CHAIRMAN



EDWARD A. STIGLER
FIRST ASSISTANT
PROGRAM CHAIRMAN



ANTHONY N. INZERILLO
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 58th 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 9/1/81)

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 1981-1982



ERNEST T. STEVENS
President



FRANCIS M. COVEY
First Vice President



F. ROBT. GRANT
Second Vice President



FREDERICK J. BOWER
Third Vice President



ROBERT A. FISCHER
Secretary-Treasurer

PROGRAM CHAIRMEN 1981-1982



A. G. OSZLANYI
Program Chairman



EDWARD A. STIGLER
First Assistant Chairman



ANTHONY N. INZERILLO
Second Assistant Chairman

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

BRITISH SOCIETY OF BAKING

Chairman David P. Roberts
First Vice-Chairman Richard C. Newstead
Second Vice-Chairman George C. Schindler
Third Vice-Chairman Timothy M. Moss
Secretary Christopher Whitehorn
Assistant Secretary Sheila J. Wedgwood
Treasurer David J. Garratt

AUSTRALIAN SOCIETY OF BAKING

Chairman Ronald Devereaux
First Vice-Chairman David C. Wauchope
Second Vice-Chairman Wayne R. Rapp
Third Vice-Chairman Gary P. Newman
Secretary-Treasurer Michael B. Dennis

PRE-MEETING SCHEDULE OF EVENTS

SUNDAY, FEBRUARY 28, 1982

- 10:00 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
Minnesota Room
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 III
Seventh Floor
(Speakers, session chairmen and meeting chairmen only)

POST-MEETING SCHEDULE OF EVENTS

WEDNESDAY, MARCH 3, 1982

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

THURSDAY, MARCH 4, 1982

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

SCHEDULE OF LADIES' ACTIVITIES

SUNDAY, FEBRUARY 28, 1982

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

MONDAY, MARCH 1, 1982

- 8:00-11:00 A.M.**—Hospitality Room
and 2:00-4:00 P.M. Great America I
Sixth Floor
- 5:30-7:00 P.M.**—President's Reception
Salon I
Seventh Floor

TUESDAY, MARCH 2, 1982

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

WEDNESDAY, MARCH 3, 1982

- 8:00-11:00 A.M.**—Hospitality Room
Great America I
Sixth Floor

MONDAY MORNING PROGRAM

March 1, 1982

SALON III
(Seventh Floor)

- 9:30**—Meeting Room Opens
- 9:45**—Call to Assembly and Greetings
R. RICHARD SCHLIFF, LaCrosse, WI
Meeting Chairman
- Entrance of Officers
Introductions by R. RICHARD SCHLIFF
- America The Beautiful
ANDREW MAIER, II, Reading, PA
- God Bless America
Audience led by ANDREW MAIER, II
- Invocation
JAMES A. BOGE, Park Ridge, IL
- The President Comments
ERNEST T. STEVENS, Birmingham, AL
- The Secretary Reports
ROBERT A. FISCHER, Chicago, IL
- Program Preview
A. G. OSZLANYI, Des Plaines, IL
- Annual Business Meeting
Conducted by ERNEST T. STEVENS, President
- Knowing Your Society
Brief presentations relative to the functioning of specific committees.
- Nominating Committee**
Chairman R. RICHARD SCHLIFF
- Sanitation Committee**
Chairman WILLIAM E. PIEPER
Oak Lawn, IL
- Membership Committee**
Chairman GERALD E. MAYNARD, JR.
Memphis, TN
- Presentations and Introductions
- Greetings from the Retail Bakers of America
RAYMOND N. GUILLEMETTE, Dover, NH
President
- Greetings from the American Bakers Association
B. J. HINKLE, Kansas City, MO
Chairman
- Introduction of Speaker
F. ROBT. GRANT, St. Louis, MO
- Opening Address
DALE C. PUTMAN, Kansas City, MO
- Announcements
R. RICHARD SCHLIFF, Meeting Chairman
- 11:20**—Adjournment

MONDAY AFTERNOON PROGRAM

March 1, 1982

TECHNICAL PRODUCTION SESSION

SALON III
(Seventh Floor)

- 1:15—Meeting Room Opens
- 1:20—Call to Assembly
R. RICHARD SCHLIFF, LaCrosse, WI
Meeting Chairman
- Introduction to Technical Production Session
LAWRENCE E. WERNER, Cleveland, OH
Session Chairman
- 1:25—English Muffins
ARTHUR A. JUERS, Rye, NY
Troubleshooting English muffin production problems.
- Discussion
- 1:50—Sesame Seeds
J. BOWMAN WILLIAMS, JR., Dallas, TX
Origin, purpose, methods of application, and cost versus benefits.
- Discussion
- 2:15—Malts Used in Baking
RICHARD J. GILL, Peoria Heights, IL
Definition, analyses and specific uses in bakery foods.
- Discussion
- 2:45—Milk Replacers
NANCY G. STAHEL, Arden Hills, MN
Contribution of substitutes to the quality and processing of bakery foods.
- Discussion
- 3:10—Total Cost of Flour in Bread and Buns
DONALD W. SHIELDS, Winona, MN
Factors other than flour cost that affect the total cost of flour in bread and buns.
- Discussion
- 3:35—Adjournment

MONDAY EVENING PROGRAM

March 1, 1982

SALON I
(Seventh Floor)

- 5:30-7:00—President's Reception
GEORGE E. LAURANCE, Minneapolis, MN
Chairman
President Stevens 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 2, 1982

TECHNICAL PRODUCTION SESSION "A"

SALON II
(Seventh Floor)

- 9:45—Meeting Room Opens
- 9:50—Call to Assembly
F. ROBT. GRANT, St. Louis, MO
Meeting Chairman
- Introduction to Technical Production Session
EDWARD J. CAMPBELL, Decatur, IL
Session Chairman
- 9:55—Manufacture of Yeast
DR. GERALD REED, Milwaukee, WI
Types of bakers' yeast and their manufacture.
- Discussion
- 10:35—Distribution of Yeast
ARMAND P. CICCIO, St. Louis, MO
Handling, storage and delivery of different types of bakers' yeast.
- Discussion
- 11:10—Trends and the Future of Yeast
HERMAN SAUSSELE, JR., St. Louis, MO
Raw materials and their specific impact on cost, and the quality of bakers' yeast.
- Discussion
- 11:40—Adjournment

TECHNICAL PRODUCTION SESSION "B"

SALON III
(Seventh Floor)

- 9:45—Meeting Room Opens
- 9:50—Call to Assembly
FRANCIS M. COVEY, Decatur, IL
Meeting Chairman
- Introduction to Technical Production Session
PATRICIA ANTONI, Wheeling, IL
Session Chairman
- 9:55—Vanilla, Vanillin, and Vanilla Derivatives
DONALD R. GOODENOUGH, Dallas, TX
Sources, manufacture and various uses of vanilla products.
- Discussion
- 10:25—Powdered Cake Emulsifiers
J. L. SUGGS, Greenville, TN
Use of powdered emulsifiers in conjunction with plastic shortening or liquid oils in the manufacture of cakes.
- Discussion
- 10:50—100 Percent Corn Sweeteners in Small Cake Items
DR. KENNETH E. BEERY, Decatur, IL
Total sucrose replacement with corn sweeteners in small cake and creme filling formulations.
- Discussion
- 11:20—Adjournment

TUESDAY AFTERNOON PROGRAM

March 2, 1982

SALON III
(Seventh Floor)

1:45—Meeting Room Opens

1:50—Call to Assembly

FREDERICK J. BOWER, Winston-Salem, NC
Meeting Chairman

—Introduction to Technical Production Session

DR. DARRELL D. BRENSING, Manhattan, KS
Session Chairman

1:55—High Speed Dough Development

ANTHONY R. FISH, Garland, TX
Reducing mixing times for yeast-leavened doughs with new technology and equipment.

—Discussion

2:25—Plant Expansion

MICHAEL W. McCOWN, Birmingham, AL
Actual case history of bakery modernization—planning, design, problems and resultant benefits from conception to completion.

—Discussion

2:55—Conveyors

JAMES J. DIVER, Chicago Ridge, IL
Matching the proper conveyor to meet OSHA, sanitation and product integrity requirements in a bread or roll plant.

—Discussion

3:25—In-Plant Analyzers

C. PETER SMITH, Baltimore, MD
Utilizing this type of equipment for quality control procedures.

—Discussion

3:50—Baking in China

DONALD K. DUBOIS, Manhattan, KS
Overview of the new and developing baking industry in China.

—Discussion

4:30—Adjournment

TUESDAY EVENING PROGRAM

March 2, 1982

CHICAGO BALLROOMS A, B & D
(Fifth Floor)

4:45-7:00—Bakery Foods Display

HAROLD D. FORTNER, Franklin Park, IL
Chairman
ALAN R. DEE, Franklin Park, IL
Assistant Chairman
GEOFFREY B. BURGESS, Chillicothe, OH
Regional Chairman—Southeast

GEORGE H. COIN, Rock Island, IL
Regional Chairman—Central
THOMAS J. DEGNAN, JR., Milwaukee, WI
Regional Chairman—East
RICHARD L. KOENIG, Franklin Park, IL
Regional Chairman—Midwest
ROLAN E. FLETCHER, Norcross, GA
Regional Chairman—South
JAMES D. KNOX, Hayward CA
Regional Chairman—West
TOM MACDONALD, Franklin Park, IL
Regional Chairman—Midwest

WILLIAM A. HOFFMAN, Chicago, IL
GEORGE J. KIEFER, St. Paul, MN
LOUIS I. KIEFER, Arlington Heights, IL
GUNNAR LYNUM, Kankakee, IL
MELVIN W. MUELLER, Mt. Prospect, IL
RONALD D. PATTI, Burr Ridge, IL
VERNON T. E. PEARSON, Chicago, IL
FRANK SBERNA, Pickerington, OH
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 2, 1982, 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 3, 1982

SALON III
(Seventh Floor)

9:00—Meeting Room Opens

9:05—Call to Assembly

ERNEST T. STEVENS, Birmingham, AL
Meeting Chairman

—Introduction to Technical Production Session

THOMAS A. SHANNON, Speedway, IN
Session Chairman

9:10—Plant Security

DONALD H. KLEIN, Chicago, IL
Overview of the security measures for food processing protection—premises, personnel, products and public safety.

—Discussion

—Attendance Prize Drawing

9:40—Employing the Handicapped—Part I

RAYMOND O. BURGER, Indianapolis, IN
Utilizing special personnel from a rehabilitation viewpoint.

—Discussion

—Attendance Prize Drawing

10:20—Employing the Handicapped—Part II

NORMAN F. HIRT, Indianapolis, IN
Case study of utilizing special personnel from an industrial viewpoint.

—Discussion

—Attendance Prize Drawing

10:50—Computerized Production Procedures

PAUL R. NASLUND, Deerfield, IL
Specific computer program to control production in the bakery.

—Discussion

—Attendance Prize Drawing

—Installation of Officers

—President's Comments and Appointments

—Attendance Prize Drawing

—The Lord's Prayer

ANDREW MAIER, II, Reading, PA

11:55—Final Adjournment

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.

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.

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.

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 58th 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 1981-1982

EXECUTIVE COMMITTEE

Ernest T. Stevens, Birmingham, AL
Francis M. Covey, Decatur, IL
F. Robt. Grant, St. Louis, MO
Frederick J. Bower, Winston-Salem, NC
Robert A. Fischer, Chicago, IL
R. Richard Schlipf, LaCrosse, WI
A. Charles Roland, III, St. Louis, MO
David J. Ash, Deerfield, IL
Richard Z. Graham, Defiance, OH
Richard C. Freihofer, St. Louis, MO
Joseph W. Hickenbottom, Greenwich, CT
William H. Metz, Sioux City, IA
J. Robert Newlon, Springfield, OH
William O. Devilbiss, Towson, MD
Richard D. O'Brien, Richardson, TX
Benjamin A. Delorio, Utica, NY
Gary K. McArthur, Pensacola, FL
Robert C. Anderson, Port. Washington, NY
William J. Campion, Edison, NJ

STANDING COMMITTEES

Financial—John C. MacAlpine, Swarthmore, PA
Publications—Frank E. Johnson, Oak Creek, WI
Technical Information Service—Simon S. Jackel, Greenwich, CT
Manual—Paul W. Kamman, Park Ridge, IL
Sanitation—William E. Pieper, Oak Lawn, IL
Nominating—R. Richard Schlipf, LaCrosse, WI
Membership—Gerald E. Maynard, Jr., Memphis, TN
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. Pyle, Fargo, ND
Exposition Booth—William H. Fife, Jr., Des Plaines, IL

SPECIAL COMMITTEES

Munich Group Trip—Lon D. Zimmerman, St. Louis, MO

COMMITTEES—1982 PROGRAM

PROGRAM COMMITTEE

A. G. Oszlanyi, Des Plaines, IL
Chairman
Edward A. Stigler, Dallas, TX
First Assistant Chairman
Anthony N. Inzerillo, Chicago, IL
Second Assistant Chairman
Ernest T. Stevens, Birmingham, AL
Francis M. Covey, Decatur, IL
F. Robt. Grant, St. Louis, MO
Frederick J. Bower, Winston-Salem, NC
Robert A. Fischer, Chicago, IL

PRESIDENT'S GET-AQUAINTED RECEPTION

George E. Laurance, Minneapolis, MN—Chairman

MUSIC COMMITTEE

Andrew Maier, II, Reading, PA—Chairman
Walter N. Clissold, Evanston, IL—Co-Chairman

PROPERTY COMMITTEE

Thomas E. Keffer, Crete, IL
Property Manager
Robert P. Bernoski, Mansfield, TX
Donald F. Bianchi, Arlington Heights, IL
William F. Geist, Rockford, IL
Larry J. Hobbs, Dayton, OH
Donald E. Kindstrand, Arlington Heights, IL
Michael P. O'Brien, Wilmette, IL
Edward J. Whatley, Sicklerville, NJ
Lon D. Zimmerman, St. Louis, MO
Assistant Property Managers

BAKERY FOODS DISPLAY

Harold D. Fortner, Franklin Park, IL
Chairman
Alan R. Dee, Franklin Park, IL
Assistant Chairman
Geoffrey B. Burgess, Chillicothe, OH
George H. Coin, Rock Island, IL
Thomas J. Degnan, Jr., Milwaukee, WI
Rolan E. Fletcher, Norcross, GA
James D. Knox, Hayward, CA
Richard L. Koenig, Franklin Park, IL
Tom MacDonald, Franklin Park, IL
Regional Chairmen
William A. Hoffman, Chicago, IL
George J. Kiefer, St. Paul, MN
Louis I. Kiefer, Arlington Heights, IL
Gunnar Lynum, Kankakee, IL
Melvin W. Mueller, Mt. Prospect, IL
Ronald D. Patti, Burr Ridge, IL
Vernon T.E. Pearson, Chicago, IL
Frank Sberna, Pickerington, OH
Roger W. Strand, Minneapolis, MN
Committeemen

DECEASED MEMBERS

Paul W. Zickgraff, St. Louis, MO
Thelbert Frieds, Coral Gables, FL
Jack A. Cohon, Chicago, IL
Richard B. Brewer, Vernon, CA
Robert Ragenovich, San Mateo, CA
Dr. Donald K. Tressler, Westport, CT
Leon E. Elmore, Jacksonville, FL
Douglas R. Wood, Lawrenceville, GA
Lewis A. Kay, Bend, OR
B. S. Budny, South Kent, CT
Charles A. Groh, Fremont, CA
Sidney M. Roberts, Salt Lake City, UT
H. C. Rhodes, Portland, OR
Esbon G. Greason, Denver, CO
Albert E. Beck, Sarasota, FL
Marion Zaleski, Jacksonville, FL
William M. Grant, Clearwater, FL
Stephen Vesecky, Dallas, TX
Malcolm Quin, St. Leonards, Australia
Myron D. Baustian, Leavenworth, KS
Morris Cohen, Prairie Village, KS
Gordon L. Smith, Seattle, WA
Charles J. Haney, Rapid City, SD
Charles J. Regan, Jr., Chicago, IL
Ralph E. Gaylord, St. Petersburg Beach, FL
Dr. Reginald C. Sherwood, Boca Raton, FL
Emery L. Haluska, Gulfport, MS
Douglas J. Kirk, Chicago, IL
V. Elwood Fisher, Alton, IL

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
 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, Park Ridge, IL
 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, NJ
 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, Cleveland, OH
 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

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, Milwaukee, WI
 1953—Elmer F. Glabe, Chicago, IL
 1954—Jones E. Mapes, Wyckoff, NJ
 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, Kansas City, MO
 1962—Harry D. Gardner, Albion, MI
 1963—Ralph E. Manewal (deceased)
 1964—Lloyd L. Fisher, Sun City Center, FL
 1965—Zenas Block, New York, NY
 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, Kansas City, MO
 1979—J. W. Doty, North Kansas City, MO
 1980—A. Charles Roland, III, St. Louis, MO
 1981—F. Robt. Grant, St. Louis, MO