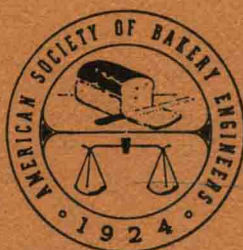


**PROCEEDINGS**  
of  
**The Sixty-Second Annual Meeting**  
of the  
**AMERICAN SOCIETY OF BAKERY ENGINEERS**  
**1986**



**MARCH 2-5, 1986**  
**CHICAGO, ILLINOIS**

**PROCEEDINGS**  
**of the**  
**Sixty-Second Annual Meeting**  
**AMERICAN SOCIETY**  
**OF**  
**BAKERY ENGINEERS**

**March 2-5, 1986**

**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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Annual Meeting  
of the  
Sixty-Second Annual Meeting  
AMERICAN SOCIETY  
OF  
BAKERY ENGINEERS

March 2-5, 1988

Chicago Marriott Hotel, Chicago, Illinois

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The American Society of Bakery Engineers is pleased to announce the 62nd Annual Meeting of the Society. The meeting will be held at the Chicago Marriott Hotel, Chicago, Illinois, from March 2-5, 1988. The program is designed to provide a comprehensive overview of the bakery industry and to provide an opportunity for members to meet and hear from leading experts in the field. The program includes technical sessions, a business meeting, and a social program. The meeting is open to all members of the Society and to non-members who wish to attend. For more information, please contact the Society at (312) 462-1000.

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# American Society of Bakery Engineers

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ROBERT A. FISCHER, PRESIDENT

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

## 62nd ANNUAL MEETING

CHICAGO MARRIOTT HOTEL  
March 2-5, 1986  
Chicago, Illinois

### Introduction to the 1986 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 presenta-

tion of the papers, as well as of the handout material distributed. This volume also contains a Subject Index for the 1986 Program, a list of papers presented from 1975 to 1985, and lists of Technical Bulletins and EIS Reports issued since 1975.

Besides the technical data, there is a registration list for the 1986 Meeting.

A handy Table of Contents has been provided for ease in locating specific papers, reports and sections.

Total registration for the 62nd Annual Meeting was 1,020—not including ladies who accompanied registrants and who received complimentary badges.

**DIRECTION  
THROUGH  
INVOLVEMENT  
AND COMMITMENT**

**62nd  
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  
ASBE 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  
JW'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	11:30 A.M. 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	\$ 80.00
Non-Members	\$100.00

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

## INTRODUCTION

TO YOUR

## 62nd ANNUAL MEETING

Your Officers and Program Committee extend you their joint welcome to the 62nd Annual Meeting of the American Society of Bakery Engineers.

In keeping with Chairman Deforio's theme, "Direction through Involvement and Commitment," you, the member, did get involved and provided a record number of suggestions for papers. Each topic was evaluated and those deemed of most interest and value to all members were included in this year's program.

Your attendance and participation at the sessions will contribute greatly to the success of this year's Annual Meeting. Also, your continued involvement is requested to critique the papers and other functions of this year's program, as well as to provide input for next year's program.

The Officers, Program Committee, Session Chairmen and Speakers thank you for your support and hope you enjoy this Annual Meeting.

*J. W. Hickenbottom*

JOSEPH W. HICKENBOTTOM  
PROGRAM CHAIRMAN

*Nancy G. Stahel*

NANCY G. STAHEL  
FIRST ASSISTANT  
PROGRAM CHAIRMAN

*J. Fred Burris*

JACK F. B. BURRIS, III  
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 62nd 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

Green for all registrants  
A colored dot denotes a new member (who has joined since 9/1/85)

A receipt for registration fee is stamped on back of insert

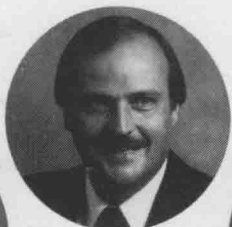
### Ribbons

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, Advisory Committee and Executive Committee members

## OFFICERS 1985-1986



**BENJAMIN A. DeIORIO**  
Chairman



**NORMAN F. HIRT**  
First Vice-Chairman



**WILLIAM T. McCURRY**  
Second Vice-Chairman



**FRANK J. MARTIN**  
Third Vice-Chairman



**ROBERT A. FISCHER**  
President  
Acting Secretary-Treasurer

## PROGRAM CHAIRMEN 1985-1986



**J. W. HICKENBOTTOM**  
Program Chairman



**NANCY G. STAHEL**  
First Assistant Chairman



**JACK F. B. BURRIS, III**  
Second Assistant Chairman

## OFFICERS OF AFFILIATES TO ASBE

### BRITISH SOCIETY OF BAKING

Chairman ..... Peter S. Massey  
First Vice-Chairman ..... Albert Waterfield  
Second Vice-Chairman ..... Anthony A. Hodges  
Third Vice-Chairman ..... J. Brown  
Acting Secretary ..... Martin Roebuck  
Assistant Secretary ..... Helen Jones  
Treasurer ..... F. G. Kinton

### AUSTRALIAN SOCIETY OF BAKING

Chairman ..... Diana J. Williams  
First Vice-Chairman ..... Michael B. Dennis  
Second Vice-Chairman ..... Ian D. Middleton  
Third Vice-Chairman ..... Ralph L. O. Plarre  
Secretary-Treasurer ..... Desmond D. Hennessy

## PRE-MEETING SCHEDULE OF EVENTS

### SUNDAY, MARCH 2, 1986

- 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 5, 1986

- 7:30 A.M.—NEW MEMBER BREAKFAST  
Salon A  
Fifth Floor  
(By invitation only)
- 2:00 P.M.—EXECUTIVE COMMITTEE MEETING  
Ohio State and Northwestern Rooms  
Sixth Floor  
(Committee members only)

### THURSDAY, MARCH 6, 1986

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

### SCHEDULE OF LADIES' ACTIVITIES

#### SUNDAY, MARCH 2, 1986

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

#### MONDAY, MARCH 3, 1986

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

#### TUESDAY, MARCH 4, 1986

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

## MONDAY MORNING PROGRAM

March 3, 1986

**SALON II**  
(Seventh Floor)

- 9:30—Meeting Room Opens—Greet Old and New Friends
- 9:45—Call to Assembly and Greetings  
FRANK R. GOLEY, DALLAS, TX  
Meeting Chairman
- Introduction of Officers  
FRANK R. GOLEY, Meeting Chairman
- America The Beautiful  
ANDREW MAIER, II, READING, PA
- God Bless America  
Audience led by ANDREW MAIER, II
- Invocation  
DONALD S. NOOT, HAZELWOOD, MO
- The Chairman Comments  
BENJAMIN A. DEIORIO, UTICA, NY
- The President Reports  
ROBERT A. FISCHER, CHICAGO, IL
- Program Preview  
JOSEPH W. HICKENBOTTOM, MAYWOOD, NJ
- Annual Business Meeting  
Conducted by BENJAMIN A. DEIORIO  
Chairman
- Knowing Your Society  
Program/Officers' Reception/Bakery  
Foods Display Committees  
NANCY G. STAHEL, MINNEAPOLIS, MN
- Presentations and Introductions
- Greetings from the Retail Bakers of America  
RICHARD P. BAKER, MCKEES ROCK, PA  
RBA President
- Greetings from the American Bakers Association  
R. JACK LEWIS, JR., EVANSVILLE, IN  
ABA Chairman
- Introduction of Keynote Speaker  
WILLIAM T. MCCURRY, SHAWNEE MISSION, KS
- Opening Address  
ROBERT W. HATCH, KANSAS CITY, MO
- Announcements  
FRANK R. GOLEY, Meeting Chairman
- Adjournment

## MONDAY AFTERNOON PROGRAM

March 3, 1986

**SALON II**  
(Seventh Floor)

### 1:15—Meeting Room Opens

### 1:20—Call to Assembly

NORMAN F. HIRT, INDIANAPOLIS, IN  
Meeting Chairman

### —Introduction to Technical Production Session

ROBERT W. McKECHNIE, CEDAR RAPIDS, IA  
Session Chairman

### —In-Store Bakeries

JAMES L. BORCK, COUNTRY HOME BAKERY, INC.,  
ATLANTA, GA  
Layouts, planning, trends and profitability.

### —Discussion

### —Multi-Grain Bakery Foods

CHARLES A. BECKER, ROLAND INDUSTRIES, INC.,  
ST. LOUIS, MO  
Emphasis of multi-grain, high-fiber and  
no-preservative bakery foods.

### —Discussion

### —Oxidizing Agents, Reducing Agents and Yeast Nutrients

GARY L. CAIN, CAIN FOOD INDUSTRIES, INC., DAL-  
LAS, TX  
Review of existing technology for bakery  
operations.

### —Discussion

### —Flour Forum

Papers covering important aspects of the  
baker's primary ingredient. Two questions  
after each paper—panel discussion after  
last paper.

### —Flour Quality Comparison—1983 to Present

DONALD W. PITTS, THE PILLSBURY CO., MINNE-  
APOLIS, MN

### —Protein

GEORGE K. MINOR, THORNTON, CO

### —Cake, Pastry and Cookie Flour

KHALIL H. MANSOUR, THE MENNEL MILLING CO.,  
FOSTORIA, OH

### —Bread Flour

ARTHUR A. JUERS, CONTINENTAL BAKING CO., ST.  
LOUIS, MO

### —Testing Methods

CHARLES L. HAWKS, QUALITY BAKERS OF AMERICA  
COOPERATIVE, INC., GREENWICH, CT

### —Panel Discussion

### —Adjournment

## MONDAY EVENING PROGRAM

March 3, 1986

**SALON I**  
(Seventh Floor)

### 5:30-7:00—Officers' Reception

GEORGE E. LAURANCE, MINNEAPOLIS, MN  
Reception Chairman

ASBE Chairman Delorio and the other offi-  
cers, with their ladies, look forward to meet-  
ing fellow members and guests at this annu-  
al social event. Chairman Laurance has  
planned this event with your enjoyment in  
mind.

## TUESDAY MORNING PROGRAM

March 4, 1986

**SALON II**  
(Seventh Floor)

### 9:45—Meeting Room Opens

### 9:50—Call to Assembly

WILLIAM T. MCCURRY, SHAWNEE MISSION, KS  
Meeting Chairman

### —Introduction to Technical Production Session

RICHARD T. RICHTER, SAN ANTONIO, TX  
Session Chairman

### —Container Designs to Reduce Distribution Costs

JOHN J. STRITCH, EKCO/GLACO, INC., CHICAGO, IL  
Economies of using various types of con-  
tainers for cube utilization and automation.

### —Discussion

### —Where's the Tray?

RALPH K. F. STOCKMAYER, CHAS. FREIHOFFER BAK-  
ING CO., TROY, NY  
ABA "Combat" task force progress report  
on missing baskets and trays.

### —Discussion

### —Energy Developments

IRA H. DORFMAN, AMERICAN BAKERS ASSOCI-  
ATION, WASHINGTON, DC  
New technology for oven burners, infra-  
red, doughnut gas burners.

### —Discussion

### —Effective Bakery Sanitation

WILLIAM E. PURSLEY, AMERICAN INSTITUTE OF BAK-  
ING, MANHATTAN, KS  
Developing a comprehensive sanitation  
program.

### —Discussion

### —Adjournment



## TUESDAY AFTERNOON PROGRAM

March 4, 1986

### SALON II (Seventh Floor)

1:45—Meeting Room Opens

1:50—Call to Assembly

FRANK J. MARTIN, THOMASVILLE, GA  
Meeting Chairman

#### —Introduction to Technical Production

##### Session

CHARLES S. ROWE, PARAMUS, NJ  
Session Chairman

#### —Sweet Goods Symposium

New developments in formulation and processing—panel discussion after third paper.

#### —Danish

JOHN E. VEY, PH. ORTH CO., OAK CREEK, WI

#### —Doughnuts

JOHN H. MOYER, DCA FOOD INDUSTRIES, INC.,  
NEW YORK, NY

#### —Cakes

A. BERNARD RUCKH, INTERSTATE BRANDS CORP.,  
KANSAS CITY, MO

#### —Panel Discussion

#### —Controlled Atmosphere Packaging

ANDREW P. BENSON, ROSE FORGROVE, INC., ELM-  
HURST, IL

What is it and how is it used?

#### —Discussion

#### —Bagels

ROBERT PETROFSKY, PETROFSKY'S ENTERPRISES,  
MARYLAND HEIGHTS, MO  
Formulation and processing.

#### —Discussion

#### —Pita/Pocket Bread

IRWIN COOPER, S. B. THOMAS, INC., TOTOWA, NJ  
Formulation and processing.

#### —Discussion

#### —Encrusted Products

RAY THELEN, MOTHER MURPHY'S LAB., INC., SAN  
DIEGO, CA

New developments in mechanization of  
bread roll encrusting make-up process.

#### —Discussion

#### —Pizza Crust

THOMAS A. LEHMANN, AMERICAN INSTITUTE OF  
BAKING, MANHATTAN, KS  
Formulation and processing.

#### —Discussion

#### —Adjournment

## TUESDAY EVENING PROGRAM

March 4, 1986

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

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

HAROLD D. FORTNER, Elmwood 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, Oakland, CA  
Regional Chairman—West  
TOM MACDONALD, Franklin Park, IL  
Regional Chairman—Northwest  
GERARD A. DEGMA, Decatur, IL  
Regional Chairman—Central

WILLIAM J. CROWTHER, Westmont, IL  
KATHY M. DIERICKX, Franklin Park, IL  
WILLIAM A. HOFFMAN, Chicago, IL  
JOHN R. JANSEN, Kankakee, IL  
FRANK C. JONES, Milford Square, PA  
GEORGE J. KIEFER, Huron, SD  
RICHARD L. KOENIG, Franklin Park, IL  
MELVIN W. MUELLER, Mt. Prospect, IL  
ROBERT C. RADUENZ, Manitowoc, WI  
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 4, 1986. 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 5, 1986

### SALON II (Seventh Floor)

9:00—Meeting Room Opens

9:05—Call to Assembly

BENJAMIN A. DELORIO, UTICA, NY  
Meeting Chairman

#### —Introduction to Technical Production

##### Session

GEORGE Y. JONES, CEDAR RAPIDS, IA  
Session Chairman

#### —Quality Circles

THOMAS S. BOYD, SOUTHERN BAKERIES, INC.,  
LAKELAND, FL

Definition, development and implementation.

#### —Discussion

#### —Attendance Prize Drawing



### —Advances in Bakery Design

LEONARD F. BEDNARSKI, LOCKWOOD GREENE ENGINEERS, INC., UNION, NJ

Feasibility study, capital equipment decisions for new plant design, construction and/or expansion.

### —Discussion

### —Attendance Prize Drawing

### —Automation of Route Distribution

ROBERT P. CORNELLA, GOOD STUFF FOOD CO., INC., LOS ANGELES, CA

Pace of change and advent of distributed computing at all phases of bakery operation.

### —Discussion

### —Attendance Prize Drawing

### —The "One-Man" Bakery Objective

JOSEPH L. MCCAFFERY, MCCAFFREY BAKING CO., DENVER, CO

A new bakery system with emphasis on full computer controls.

### —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-ASBE-MEETING FUNCTIONS

### MONDAY, MARCH 3, 1986

#### American Institute of Baking Alumni Association Breakfast

7:30 A.M.—Indiana and Iowa Rooms—Sixth Floor  
Michael W. Moore, Chairman

#### KSU-FSU Bakery Science and Management Alumni Association Breakfast

7:30 A.M.—Denver and Houston Rooms—Fifth Floor  
Dennis L. Wilson, Chairman

### TUESDAY, MARCH 4, 1986

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

8:00 A.M.—Salon III—Seventh Floor  
Joseph J. Harlin, Chairman

#### Canadian Members Luncheon

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

## ASBE 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 ASBE Office located conveniently on the Seventh Floor. ASBE 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 the upper portion of your right lapel; it is your identification that you have registered for the 62nd Annual Meeting.

## COMMITTEES 1985-1986 EXECUTIVE COMMITTEE

Benjamin A. Delorio, Utica, NY  
 Norman F. Hirt, Indianapolis, IN  
 William T. McCurry, Shawnee Mission, KS  
 Frank J. Martin, Thomasville, GA  
 Robert A. Fischer, Chicago, IL  
 Frank R. Goley, Dallas, TX  
 Anthony N. Inzerillo, Chicago, IL  
 John P. Del Campo, Wilmington, DE  
 Loyal J. Jensen, Fairfield, CT  
 Louis D. Fontana, Brooklyn, NY  
 Jerry J. Janson, Olathe, KS  
 Thomas F. Cable, Denver, CO  
 Richard T. Richter, San Antonio, TX  
 Bernard M. Russ, Minneapolis, MN  
 J. Bowman Williams, Jr., Dallas, TX  
 Edgar R. Lowe, South Williamsport, PA  
 John J. Rader, Portland, OR  
 Stanley R. Frisch, Highland Mills, NY  
 Thomas E. Lewis, Maple Grove, MN

## STANDING COMMITTEES

Financial—John C. MacAlpine, III, Philadelphia, PA  
 Publications—Herman Saussele, Jr., St. Louis, MO  
 Technical Information Service—Simon S. Jackel, Westport, CT  
 Manual—Paul W. Kamman, Park Ridge, IL  
 Sanitation—William E. Pieper, Oak Lawn, IL  
 Nominating—Frank R. Goley, Dallas, TX  
 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—M. Rella Dwyer, Park Ridge, IL  
 Exposition Booth—William H. Fife, Jr., Rolling Meadows, IL  
 Group Trip—Lon D. Zimmerman, St. Louis, MO

## COMMITTEES—1986 PROGRAM

### PROGRAM COMMITTEE

Joseph W. Hickenbottom, Maywood, NJ  
 Chairman  
 Nancy G. Stahel, Minneapolis, MN  
 First Assistant Chairman  
 Jack F. B. Burris, III, High Point, NC  
 Second Assistant Chairman  
 Benjamin A. Delorio, Utica, NY  
 Norman F. Hirt, Indianapolis, IN  
 William T. McCurry, Shawnee Mission, KS  
 Frank J. Martin, Thomasville, GA  
 Robert A. Fischer, Chicago, IL

### PROPERTY COMMITTEE

Thomas E. Keffer, Crete, IL  
 Property Manager  
 Albert L. Bachman, III, Kankakee, IL  
 Mary Louise Benell, Indianapolis, IN  
 Donald F. Bianchi, Mt. Prospect, IL  
 Christopher V. Cipriani, Raleigh, NC  
 Richard A. Danko, Teaneck, NJ  
 James P. Funk, Dyer, IN  
 William F. Geist, Rockford, IL  
 Donald R. Goodenough, Plano, TX  
 Edward J. Whatley, Sicklerville, NJ  
 Assistant Property Managers

## OFFICERS' RECEPTION

George E. Laurance, Minneapolis, MN—Chairman

## 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, Decatur, IL  
 Rolan E. Fletcher, Norcross, GA  
 James D. Knox, Oakland, CA  
 Tom MacDonald, Franklin Park, IL  
 Frank Sberna, Pickerington, OH  
 Regional Chairmen  
 William J. Crowther, Westmont, IL  
 Kathy M. Dierickx, Franklin Park, IL  
 William A. Hoffman, Chicago, IL  
 John R. Jansen, Kankakee, IL  
 Frank C. Jones, Milford Square, PA  
 George J. Kiefer, Huron, SD  
 Richard L. Koenig, Franklin Park, IL  
 Melvin W. Mueller, Mt. Prospect, IL  
 Robert C. Raduencz, Manitowoc, WI  
 Roger W. Strand, Minneapolis, MN  
 Committeemen

## BAKERS COURTESY CLUB

The members of this very fine group of Chicago Allied Men and Women 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 individuals 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.

## 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 (deceased)  
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 (deceased)  
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 (deceased)  
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, Milford, OH  
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 CHAIRMEN

1982—Francis M. Covey, Hot Springs Village, AR  
1983—Frederick J. Bower, Winston-Salem, NC  
1984—Frank R. Goley, Dallas, TX

## 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, Northbrook, 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, Brookfield, WI  
1976—Lyle C. Woods, Olathe, KS  
1977—Armand P. Cicciu, Schenectady, NY  
1978—Frank J. Fischer, Coppell, 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, LaPorte, IN  
1984—Anthony N. Inzerillo, Chicago, IL  
1985—William T. McCurry, Shawnee Mission, KS

## BE A BOOSTER MEMBER

To our members—if you have an associate or acquaintance who would benefit from membership in the Society—pass the application form in this book along to him.

## GROW WITH US

If you attended our Meeting as a Non-Member and feel you will benefit by membership in the Society, just fill in the form and mail to our office with \$70.00 (\$5.00 is for initiation fee and \$65.00 dues for the fiscal year). This entitles you to all the publications issued during this period INCLUDING the complete transcript of the Annual Meeting PROCEEDINGS which alone is worth your initial investment.

The following page is a membership application form.