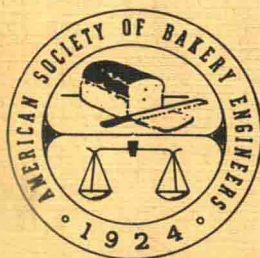


**PROCEEDINGS**  
**of the**  
**Sixty-Eighth Annual Meeting**  
**AMERICAN SOCIETY OF BAKERY ENGINEERS**  
**1992**



March 1-4, 1992  
CHICAGO, ILLINOIS

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

**MARCH 1 - 4, 1992**

**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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# **American Society of Bakery Engineers**

**ROBERT A. FISCHER, PRESIDENT**

**THOMAS J. KUK, SECRETARY**

2 North Riverside Plaza

Chicago, IL 60606

## **68th Annual Meeting**

Chicago Marriott Hotel

March 1- 4, 1992, Chicago, Illinois

## **Introduction to the 1992 PROCEEDINGS**

This issue of the PROCEEDINGS - as was the case with all previous issues - is intended as more than a transcript of the program for 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 all the discussions following each paper as well as any handout material distributed. This volume also contains a Subject Index for the 1992 Program, a

list of papers presented from 1975 to 1992 and a list of Technical Bulletins and EIS Reports issued since 1975.

Besides the technical data, there is a registration list for the Meeting. A handy Table of Contents has also been provided for ease in locating specific papers, reports, and sections.

Total registration for the 68th Annual Meeting was 1,263 paid attendees, not including spouses who accompanied registrants and those who received complimentary badges. Total registrations included those who pre-registered and chose not to attend.

## 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

Chicago Ballrooms D & E—Fifth Floor

Monday A.M. Session

Monday P.M. Session

Tuesday A.M. Session

Tuesday P.M. Session

Wednesday A.M. Session

### OTHER

Michigan and Michigan State Rooms—Sixth Floor  
Pre-Meeting Workshop

Salon II—Seventh Floor

Table Top Display

Northwestern and Ohio State Rooms—Sixth Floor

Advisory Committee Meeting

Wisconsin and Purdue Rooms—Sixth Floor

Luncheon for Advisory Committee

Michigan and Michigan State Rooms—Sixth Floor

Executive Committee Meeting (Sun.)

Chicago Ballroom D—Fifth Floor

Program Participants' Reception and Meeting

Lincolnshire I—Sixth Floor—ASBE Office

Minnesota Room—Sixth Floor—Property Room

Foyer—Fifth Floor—Registration

Chicago Ballrooms D - H—Fifth Floor

Officers' Reception

Salons I & II—Seventh Floor

Bakery Foods Display

Denver and Houston Rooms—Fifth Floor

Executive Committee Meeting (Wed.)

## FOR YOUR CONVENIENCE

Restaurants in Chicago Marriott

Allie's Bakery

La Plaza

Upper Avenue Lounge

JW's Steak House

### 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.

## 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.

## INTRODUCTION

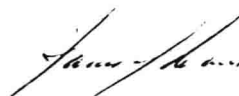
TO YOUR

## 68th ANNUAL MEETING

On behalf of the Officers, Program Committee, Session Chairmen and Speakers, it is my pleasure to welcome you to the 68th Annual Meeting of the American Society of Bakery Engineers.

Our program, based on your suggestions, promises to be both timely and informative. In keeping with Chairman Shannon's theme, "Moving Forward with ASBE," the Society continues in its goal to better serve the membership through the benefits of ongoing educational development and the sharing of vital skills and information. This year's program focuses on issues which you suggested were of interest and importance to you. The suggestions were excellent and we think you will be pleased with the presentations.


We are glad that you have chosen to be with us, and ask that you continue your support by suggesting topics for the 1993 Meeting. We hope you will enjoy the program!



JAMES J. DIVER  
PROGRAM CHAIRMAN



WINN V. HORN  
FIRST ASSISTANT  
PROGRAM CHAIRMAN



GLENN P. CAMPPELL  
SECOND ASSISTANT  
PROGRAM CHAIRMAN

## AMERICAN SOCIETY OF BAKERY ENGINEERS

SUITE 1733, 2 NORTH RIVERSIDE PLAZA  
CHICAGO, ILLINOIS 60606

## REGISTRATION

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

### Registration Hours

Saturday	2:00 P.M. to 5:00 P.M.
Sunday	10:00 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

Fifth Floor Foyer

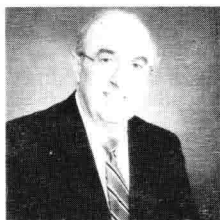
Please cooperate by keeping escalator landings free of crowds, and avoid group conversations in front of registration desks.

### Registration Fees at Meeting

Members	\$125.00
Non-Members	\$145.00

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

## OFFICERS 1991-1992



**THOMAS A. SHANNON**  
Chairman



**THOMAS E. LEWIS**  
First Vice-Chairman



**ROGER W. MASA**  
Second Vice-Chairman



**M. D. "DAVE" WOOD**  
Third Vice-Chairman



**ROBERT A. FISCHER**  
President



**THOMAS J. KUK**  
Secretary-Treasurer

## PROGRAM CHAIRMEN 1991-1992



**JAMES J. DIVER**  
Program Chairman



**WINN V. HORN**  
First Assistant Chairman



**GLENN P. CAMPBELL**  
Second Assistant Chairman

## OFFICERS OF AFFILIATES TO ASBE

### AUSTRALIAN SOCIETY OF BAKING

Chairman ..... Brian O'Callaghan  
First Vice-Chairman ..... Wayne Rapp  
Second Vice-Chairman ..... Ken Bertalli  
Secretary-Treasurer ..... Desmond D. Hennessy

### BRITISH SOCIETY OF BAKING

Chairman ..... I. Melling  
First Vice-Chairman ..... G. Criticos  
Second Vice-Chairman ..... K. Shaw  
Secretary-Treasurer ..... M. Roebuck

## AN EXPLANATION OF BADGES AND RIBBONS

### Badge Inserts

White with burgundy printing  
A colored dot denotes a new member  
(who has joined since 8/1/91)

### 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 Com-  
mittee and Executive Committee members

## BE A BOOSTER MEMBER

To our members—if you have an associate or ac-  
quaintance who would benefit from membership in  
the Society—give him or her an application or contact  
the ASBE office for one.

## PRE-MEETING SCHEDULE OF EVENTS

### SUNDAY, MARCH 1, 1992

- 10:00 A.M.— ADVISORY COMMITTEE  
MEETING**  
Northwestern and Ohio State Rooms  
Sixth Floor  
(Committee members only)
- 11:30 A.M.-1:00 P.M.— GLADYS FISCHER LADIES'  
BRUNCH**  
Great America I & II  
Sixth Floor
- 11:30 A.M.— ADVISORY COMMITTEE  
LUNCHEON**  
Wisconsin and Purdue Rooms  
Sixth Floor  
(Committee members only)
- 12:30 P.M.— EXECUTIVE COMMITTEE  
MEETING**  
Michigan and Michigan State Rooms  
Sixth Floor  
(Committee members only)
- 4:00 P.M.— PROGRAM PARTICIPANTS'  
RECEPTION AND MEETING**  
Chicago Ballroom D  
Fifth Floor  
(Speakers, session chairmen  
and meeting chairmen only)

## POST-MEETING SCHEDULE OF EVENTS

### WEDNESDAY, MARCH 4, 1992

- 2:00 P.M.— EXECUTIVE COMMITTEE  
MEETING**  
Denver and Houston Rooms  
Fifth Floor  
(Committee members only)

THURSDAY, MARCH 5, 1992

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

## SCHEDULE OF LADIES' ACTIVITIES

### SUNDAY, MARCH 1, 1992

- 11:30 A.M.-1:00 P.M.— Gladys Fischer Ladies' Brunch**  
Great America I & II  
Sixth Floor
- 6:00-7:30 P.M.— Officers' Reception**  
Chicago Ballrooms D - H  
Fifth Floor

### TUESDAY, MARCH 3, 1992

- 9:30 A.M.-3:30 P.M. — Spouse Program**  
Oceanarium and Lincoln Park  
Conservatory Tour  
Leave from Rush  
Street Entrance

## SCHEDULE OF Non-ASBE-MEETING FUNCTIONS

### MONDAY, MARCH 2, 1992

- KSU-FSU Bakery Science and Management  
Association Breakfast**
- 7:30 A.M.— Denver and Houston Rooms—Fifth Floor**  
Ross Holton, Breakfast Chairman
- AIB Alumni Association Luncheon**
- 11:45 A.M.— Chicago Ballrooms A/B/C—Fifth Floor**  
Michael W. Moore, Luncheon Chairman

### TUESDAY, MARCH 3, 1992

- Allied Trades of the Baking Industry, Inc.  
Early Bird Breakfast**
- 7:45 A.M.— Salon III—Seventh Floor**  
John F. LaSpina, Breakfast Chairman
- Canadian Luncheon**
- 11:45 A.M.— Chicago Ballrooms, B/C-Fifth Floor**  
Terence McCann, Luncheon Chairman
- ATBI Directors  
Luncheon Meeting**
- 12 Noon— Los Angeles & Miami Rooms—Fifth Floor**  
John T. Stout, Jr., President

## **SUNDAY AFTERNOON PROGRAM**

**March 1, 1992**

**SALON II  
(Seventh Floor)**

**2:00 – 5:30 P.M. – Table Top Display**  
**A. G. Oszlanyi**, Charlotte, NC  
**Gregory E. O'Neal**, St. Louis, MO  
*Co-Chairmen*

**2:00 P.M. – Table Top Display Opens**  
Popular feature of the ASBE Annual Meeting Program.  
For Bakers – provides a central location for bakers to meet with allied suppliers to learn about new equipment, ingredients, processes, services, etc.  
For Non-Bakers – provides a central location for allied suppliers to meet with bakers to make available information about new equipment, ingredients, processes, services, etc.

**5:30 P.M. – Table Top Display Closes**  
The Table Top Display will be open again on Monday, March 2, from 4:15 to 6:45 P.M.  
A list of exhibitors in the Table Top Display is available on the tables outside the entrance to the Display and just inside the display room.

## **SUNDAY EVENING PROGRAM**

**March 1, 1992  
BALLROOMS D-H  
(Fifth Floor)**

**6:00 – 7:30 P.M. Officers' Reception**  
**Chris V. Cipriani**, Goldsboro, NC  
*Reception Chairman*  
ASBE Chairman Shannon and the other officers, with their ladies, look forward to meeting fellow members and guests at this annual social event. Chairman Cipriani has planned this event with your enjoyment in mind.

## **MONDAY MORNING PROGRAM**

**March 2, 1992  
CHICAGO BALLROOMS D & E  
(Fifth Floor)**

**9:15 – Meeting Room Opens –  
Greet Old and New Friends**

**9:30 – Call to Assembly and Greetings**  
**John J. Rader**, Portland, OR  
*Meeting Chairman*  
– **Introduction of Officers**  
**John J. Rader**, *Meeting Chairman*  
– **America the Beautiful**  
**Andrew Maier II**, Reading, PA

– **God Bless America**  
Audience led by Andrew Maier II  
– **Invocation**  
**Richard H. Pulver**, Chicago Ridge, IL  
– **The Chairman Comments**  
**Thomas A. Shannon**, Youngstown, OH  
– **The President's Report**  
**Robert A. Fischer**, Chicago, IL  
– **Program Preview**  
**James J. Diver**, Chicago Ridge, IL  
– **Annual Business Meeting**  
*Conducted by* **Thomas A. Shannon**  
– **Knowing Your Industry**  
*Baking Industry*  
*Sanitation Standards Committee*  
**Frank R. Goley**, Dallas, TX  
– **Knowing Your Society**  
*ASBE Group Insurance Committee*  
**David F. Taylor**, Fort Worth, TX  
– **Presentations and Introductions**  
– **Introductions of Keynote Speaker**  
**Roger W. Masa**, Kansas City, MO  
– **Keynote Address**  
**James F. Hennig, PhD.**, Green Bay, WI  
– **Announcements**  
**John J. Rader**, Meeting Chairman  
– **Adjournment**

## **MONDAY AFTERNOON PROGRAM**

**March 2, 1992  
CHICAGO BALLROOMS D & E  
(Fifth Floor)**

**1:00 – Meeting Room Opens**  
**1:05 – Call to Assembly**  
**Thomas E. Lewis**, Maple Grove, MN  
*Meeting Chairman*  
– **Introduction to**  
**Technical Production Session**  
**Ronald C. Dunkelberger, Sr.**, Reading, PA  
*Session Chairman*  
– **Labeling - 1992**  
**Anne G. Giesecke**, American Bakers Association, Washington, DC  
*Topic: Recent developments and legislation affecting labeling requirements of bakery foods*  
– **Discussion**  
– **Controlling Bakery Oven Emissions**  
**Keith P. Lescure**, CSM Environmental Systems, Inc., Moraga, CA  
*Topic: Regulations, control systems, equipment and latest technology*  
– **Discussion**  
– **Training Workforce 2000**  
**Darrell D. Breensing**, American Institute of Baking, Manhattan, KS  
*Topic: Preparing your workforce for the future*  
– **Discussion**  
– **Management 2000-Authoritative**  
**Daniel J. Pannozzo**, Schwebel Baking Co., Youngstown, OH  
*Topic: Can traditional management survive*  
– **Discussion**

- **Management 2000-Participatory**  
**Gary I. Bergel**, Restructuring Associates,  
Inc., Washington, DC  
*Topic: Can the concept of sharing  
management responsibility with labor  
be successful*

– **Discussion**

– **Sexual Harassment**

**Gwen V. Carroll**, Coffield Ungaretti  
& Harris, Chicago, IL

*Topic: Legal implications and liabilities*

– **Discussion**

– **Adjournment**

**4:15 – Table Top Display Opens**

**6:45 – Table Top Display Closes**

**ATBI Early Bird Breakfast**

**7:45 – Doors Open**

**John F. LaSpina**, Breakfast Chairman

**Arthur J. "Artie" Donovan, Jr.**

Professional Football Defensive Tackle,  
TV and Radio Personality

**TUESDAY MORNING PROGRAM**

**March 3, 1992**

**CHICAGO BALLROOMS D & E**

**(Fifth Floor)**

**9:45 – Meeting Room Opens**

**9:50 – Call to Assembly**

**Roger W. Masa**, Kansas City, MO  
Meeting Chairman

– **Introduction to Technical  
Production Session**

**Gary R. Goodsell**, Dallas, TX  
Session Chairman

– **Developing a Suitable Quality  
Assurance Program**

**Marvin R. Willyard**, Ph. Orth Co.,  
Oak Creek, WI

*Topic: A program for your operation,  
using today's tools*

– **Discussion**

– **Alternative Sweeteners**

**Kathleen J. Nelson**, Asta Foods Research,  
Newport Beach, CA

*Topic: The latest entry in sweeteners*

– **Discussion**

– **Flour**

**Robert F. Pudden**, Kansas State University,  
Manhattan, KS

*Topic: Wheat quality – production  
adjustments and new strains.*

– **Discussion**

– **Bromate – One Year Later**

**James H. Barnard**, J. R. Short Milling Co.,  
Harrisburg, PA

*Topic: Ingredients and/or equipment  
solutions*

– **Discussion**

– **Adjournment**

**TUESDAY AFTERNOON PROGRAM**

**March 3, 1992**

**CHICAGO BALLROOMS D & E**

**(Fifth Floor)**

**1:45 – Meeting Room Opens**

**1:50 – Call to Assembly**

**M. D. "Dave" Wood**, Dallas, TX  
Meeting Chairman

– **Introduction to**

**Technical Production Session**

**John C. Phillips**, Cuyahoga Falls, OH  
Session Chairman

– **Refrigeration Systems**

**William V. Richards**, William V. Richards,  
Inc., Lincolnshire, IL

*Topic: Equipment, refrigerants –  
what does the future hold*

– **Discussion**

– **Compressed Air**

**William Scales**, Scales Air  
Compressor Corp., Carle Place, NY

*Topic: More compressed air for less*

– **Discussion**

– **In-Store Bakeries**

**Reinhard W. Beel**, Greenville, PA

*Topic: Total concept of an in-store bakery*

– **Discussion**

– **Cake Muffin Production**

**Jerome J. Gorchow**, Gemini Bakery  
Equipment, Palatine, IL

*Topic: Formulation and equipment*

– **Discussion**

– **Automatic Storage and Retrieval Systems**

**Mark F. Livesay**, Emtrol, Inc.,  
Lancaster, PA

*Topic: New technology applied to pan  
storage systems, fermentation systems  
and dock automation*

– **Discussion**

– **Adjournment**

**TUESDAY EVENING PROGRAM**

**March 3, 1992**

**SALONS I & II**

**(Seventh Floor)**

**5:00 – 6:45 P.M. – Bakery Foods Display**

**Tom MacDonald**, Franklin Park, IL  
Chairman

**Harold D. Fortner**, Cicero, IL  
Assistant Chairman

– **Frank Sberna**, Pickerington, OH  
Regional Chairman – East

– **Daryl W. Block**, Coal Valley, IL  
Regional Chairman – Mid-Central

– **Roy M. Rodgers**, Memphis, TN  
Regional Chairman – South

– **Chris Garoutte**, Oakland, CA  
Regional Chairman – West

– **Richard L. Koenig**, Franklin Park, IL  
Regional Chairman – Northwest

– **Roger W. Strand**, Minneapolis, MN  
Regional Chairman – Central

- **James H. Barnard**, Harrisburg, PA
- **Bruce E. Criss**, Olathe, KS
- **David F. Busken**, Bradley, IL
- **William J. Crowther**, Westmont, IL
- **Michael L. Fisher**, Kannapolis, NC
- **William A. Hoffman**, Chicago, IL
- **John R. Jansen**, Chattanooga, TN
- **George J. Kiefer**, Huron, SD
- **Jack H. Locke, Jr.**, Dallas, TX
- **Melvin W. Mueller**, Mt. Prospect, IL
- **Ronald Reid**, Pittsburgh, PA
- **Fred A. Turner**, Cockeysville, MD

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 5:00 P.M. Tuesday, March 3 1992 **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 6:45 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.

#### **COFFEE SERVICE**

- 7:30-10:00 – Coffee, Tea, Sweet Rolls**  
 – **Fifth Floor Foyer**  
 (outside of Salons D & E)  
 Compliments of ASBE.

### **WEDNESDAY MORNING PROGRAM** **March 4, 1992** **CHICAGO BALLROOMS D & E** **(Fifth Floor)**

- 8:00 – Meeting Room Opens**  
**8:05 – Call to Assembly**  
**Thomas A. Shannon**, Youngstown, OH  
*Meeting Chairman*  
 – **Introduction to Technical**  
**Production Session**  
**James R. Loveless**, Plano, TX  
*Session Chairman*

#### **– Bakery Equipment Purchasing and Installation – Part I**

**Ralph J. McDonough**, Schwebel Baking Co., Youngstown, OH  
*Topic: The baker's needs – production and engineering*

#### **– Discussion**

#### **– Attendance Prize Drawing**

#### **– Bakery Equipment Purchasing and Installation – Part II**

**Bill E. Davis**, Stewart Systems, Inc., Plano, TX  
*Topic: The supplier's needs*

#### **– Discussion**

#### **– Attendance Prize Drawing**

#### **– Equipment Layout and Production Simulation**

**Juan Carlos Lacal**, Bakery Corp., Miami, FL  
*Topic: Utilizing computer technology*

#### **– Discussion**

#### **– Attendance Prize Drawing**

#### **– A State-of-the-Art Bakery**

**Ronald B. Atkinson**, Weston Bakeries Ltd., Toronto, Ontario, Canada  
*Topic: A look inside*

#### **– Discussion**

#### **– Attendance Prize Drawing**

#### **– Installation of Officers**

#### **– Chairman's Comments and Appointments**

#### **– Attendance Prize Drawing**

#### **– The Lord's Prayer**

**Andrew Maier II**, Reading, PA

#### **11:00 – Final Adjournment**

### **COMMITTEES 1991-1992** **EXECUTIVE COMMITTEE**

Thomas A. Shannon, Poland, OH  
 Thomas E. Lewis, Maple Grove, MN  
 Roger W. Masa, Kansas City, MO  
 M. D. "Dave" Wood, Dallas, TX  
 Robert A. Fischer, Chicago, IL  
 Thomas J. Kuk, Chicago, IL  
 John J. Rader, Portland, OR  
 Charles S. Rowe, Williamsburg, VA  
 Stanley C. Walulek, New Milford, NJ  
 Earl W. Heiner, III, Huntington, WV  
 Gary R. Goodsell, Dallas, TX  
 George E. Laurance, Eagan, MN  
 Ronald C. Dunkelberger, Sr., Reading, PA  
 Alfred E. Smith, Cincinnati, OH  
 William K. Hube, Jr., Raleigh, NC  
 J. William Long, Byron, CA  
 Neil A. Bailey, Mechanicsburg, PA  
 Dennis E. Swartz, Martinsburg, WV  
 David S. Murphy, Midlothian, TX  
 John E. Runk, Jessup, MD



## STANDING COMMITTEES

Financial—John C. MacAlpine, III, Philadelphia, PA  
Publications—Richard T. Richter, San Antonio, TX  
Technical Information Service—Simon S. Jackel,  
Palm Harbor, FL  
Educational—William A. Hoffman, Chicago, IL  
Manual—Paul W. Kamman, Park Ridge, IL  
Sanitation—Frank R. Goley, Dallas, TX  
Nominating—John J. Rader, Portland, OR  
Membership—Sallie J. Rudd, Kansas City, MO  
Planning and Steering—Byron R. Baird,  
Fort Worth, TX  
Insurance—David F. Taylor, Fort Worth, TX  
Hotel Housing—George E. Laurance, Eagan, MN  
Public Relations—William A. Hoffman, Chicago, IL  
Safety Z-50—Charles F. Hess Jr., Wyckoff, NJ  
Standardization of Terms and Index—M. Rella  
Dwyer, Park Ridge, IL  
Exposition Booth—William H. Fife Jr.  
Madison, WI  
Group Trip—Lon D. Zimmerman, St. Louis, MO

## COMMITTEES — 1992 PROGRAM PROGRAM COMMITTEE

James J. Diver, Chicago Ridge, IL  
Chairman  
Winn V. Horn, St. Charles, MO  
First Assistant Chairman  
Glenn P. Campbell, Roswell, GA  
Second Assistant Chairman  
Thomas A. Shannon, Poland, OH  
Thomas E. Lewis, Maple Grove, MN  
Roger W. Masa, Kansas City, MO  
M. D. "Dave" Wood, Dallas, TX  
Robert A. Fischer, Chicago, IL  
Thomas J. Kuk, Chicago, IL

## PROPERTY COMMITTEE

William F. Geist, Rockford, IL  
Property Manager  
Albert L. Bachman III, Kankakee, IL  
James P. Funk, Dyer, IN  
Jeffrey H. Heiney, Oak Creek, WI  
Daniel T. Koch, Carrboro, NC  
Thomas V. LiPuma, New City, NY  
Wilhelm L. Michol, Munster, IN  
Edward J. Whatley, Mt. Royal, NJ  
Assistant Property Managers

## BAKERY FOODS DISPLAY

Tom MacDonald, Franklin Park, IL  
Chairman  
Harold D. Fortner, Cicero, IL  
Assistant Chairman  
Daryl W. Block, Coal Valley, IL  
Chris Garoutte, Oakland, CA  
Richard L. Koenig, Franklin Park, IL  
Roy M. Rodgers, Memphis, TN  
Frank Sberna, Pickerington, OH  
Roger W. Strand, Minneapolis, MN  
Regional Chairmen  
James H. Barnard, Harrisburg, PA  
David F. Busken, Bradley, IL  
Bruce E. Criss, Olathe, KS  
William J. Crowther, Westmont, IL  
Michael L. Fisher, Kannapolis, NC  
William A. Hoffman, Chicago, IL  
John R. Jansen, Chattanooga, TN  
George J. Kiefer, Huron, SD  
Jack H. Locke, Jr., Dallas, TX  
Melvin W. Mueller, Mt. Prospect, IL  
Ronald Reid, Pittsburgh, PA  
Fred A. Turner, Cockeysville, MD  
Committeemen

## OFFICERS' RECEPTION

Chris V. Cipriani, Goldsboro, NC—Chairman

## TABLE TOP DISPLAY COMMITTEE

A. G. Oszlanyi, Charlotte, NC  
Co-Chairman  
Gregory E. O'Neal, St. Louis, MO  
Co-Chairman  
Patricia Antoni, Northbrook, IL  
Mark A. Davidson, Oak Creek, WI  
Joseph A. Golding, Hudson, KY  
Joseph W. Hickenbottom, Maywood, NJ  
Jerry King, Birmingham, AL  
Paul L. Lattan, Kansas City, MO  
Jay A. Lunstrum, San Ramon, CA  
William M. McNamee, Clifton, NJ  
Dennis E. Swartz, Martinsburg, WV  
T. Robert Wolfe, Massillon, OH

## PRIZE COMMITTEE

Dan E. Miller, Northbrook, IL  
George A. Miller, Arlington Heights, IL

## LADIES' ACTIVITIES

Marie T. Kolodziejczak, Toledo, OH  
Chairman  
Patricia Antoni, Northbrook, IL

## PAST PRESIDENTS

*(Year of election shown)*

1924—Richard Wahl, Palm Bay, FL  
1933—Carl S. Pickering, San Diego, CA  
1934—Edward M. Joy, Clearwater, FL  
1937—John Roberts, Beaumont, TX  
1944-1945—Albert J. Faulhaber, Longboat Key, FL  
1956—Arthur G. Hackett, Venice, FL  
1957—Harold M. Freund, Beverly Hills, CA  
1959—H. Alvin Meyer, Jackson, MS  
1960—Clayton C. Daley, Berwick, PA  
1961—Robert Nicolait, Santa Barbara, CA  
1963—John A. Wagner, Sarasota, FL  
1965—Irwin O. Rohrbach, Reading, PA  
1966—George H. Gugler, Yucca Valley, CA  
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, St. Louis, MO  
1978—Byron R. Baird, Fort Worth, TX  
1979—Frank H. Otway, Springfield, OH  
1980—R. Richard Schlipf, Waukesha, WI  
1981—Ernest T. Stevens, Birmingham, AL

## PAST CHAIRMEN

1982—Francis M. Covey, Hot Springs Village, AR  
1983—Frederick J. Bower, Bryan, TX  
1984—Frank R. Goley, Dallas, TX  
1985—Benjamin A. Delorio, Utica, NY  
1986—Norman F. Hirt, Maumee, OH  
1987—Frank J. Martin, Thomasville, GA  
1988—John P. Del Campo, Wilmington, DE  
1989—Richard T. Richter, San Antonio, TX  
1990—John J. Rader, Portland, OR



## DECEASED PAST PRESIDENTS

1925—C. J. Patterson  
1926 & 1927—E. B. Price  
1928—George W. Tassie  
1929—Gordon H. Darnell  
1930—Louis E. Caster  
1931—Ross E. Anderson  
1932—Robert L. Gerdes  
1935—F. B. Evers, Sr.  
1936—W. J. Ocken  
1938—Roger Brandenburg  
1939—William Hauck  
1940—Walter T. Molloy  
1941—Cecil C. Cadwell  
1942—Wm. F. Gossadge  
1943—Williard H. Geller  
1946—Guy T. Shiverdecker  
1947—Jake M. Albright  
1948—Otto Richter  
1949—Harold T. Moody  
1950—Don F. Copell  
1951—Earl B. Cox  
1952—Fred Weberpals  
1953—M. J. Swortfiguer  
1954—Wallace K. Swanson  
1955—Martin Eisenstaedt  
1958—Andreas F. Reising  
1962—Robert G. Dibble  
1964—Walter T. Gase  
1967—Lawrence E. Pile  
1977—John L. DeKeizer

## PAST PROGRAM COMMITTEE CHAIRMEN

*(Year of program shown)*

1938—Harold Hall, Port Angeles, WA  
1939—O. S. Otting, New Smyrna Beach, FL  
1940—George T. Carlin, Furman, AL  
1942—F. J. Coughlin, Cincinnati, OH  
1947—J. H. Debs, Chicago, IL  
1953—Elmer F. Glabe, Northbrook, IL  
1957—Ray Thelen, San Diego, CA  
1958—Clifton R. Scarborough, Shawmut, AL  
1960—Irwin O. Rohrbach, Reading, PA  
1962—Harry D. Gardner, Albion, MI  
1964—Lloyd L. Fisher, Sun City Center, FL  
1965—Zenas Block, Jessup, MD  
1968—Philip W. Orth, Jr., Oak Creek, WI  
1969—G. N. Bollenback, Washington, DC  
1970—Gerald Reed, Durham, NC  
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, Wayne, NJ  
1976—Lyle C. Woods, Olathe, KS  
1977—Armand P. Cicciu, Schenectady, NY  
1978—Frank J. Fischer, Coppell, TX  
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, Port Charlotte, FL  
1985—William T. McCurry, Fairway, KS  
1986—Joseph W. Hickenbottom, Maywood, NJ  
1987—Nancy G. Stahel, Minneapolis, MN  
1988—Jack F. B. Burris III, High Point, NC  
1989—Candida C. Taylor, Norcross, GA  
1990—Charles S. Rowe, Williamsburg, VA  
1991—Roger W. Masa, Kansas City, MO

## DECEASED PAST PROGRAM COMMITTEE CHAIRMEN

1929—E. B. Nicolait  
1930—G. Cullen Thomas  
1931—Peter G. Pirrie  
1932—W. E. Doty  
1933—C. A. McDuffee  
1934—Ross E. Anderson  
1935—Charles P. Oliver  
1936—R. W. Brooks  
1937—W. E. Doty  
1941—G. Richard Ludlow  
1943—Arthur E. Grawert  
1944—Henry P. Montminy  
1945-46—Carl W. Steinhauer  
1948—Tyler R. Stevens  
1949—Glenn E. Hargrave  
1950—Charles E. Riley  
1951—Jack S. Devanny  
1952—Len P. Kenney  
1954—Jones E. Mapes  
1955—T. E. Lauder  
1956—Len Franzen  
1959—Lewis P. MacAdams  
1961—James M. Doty  
1963—Ralph E. Manewal  
1966—William F. Schroeder  
1967—Frank R. Schwain  
1979—J. W. Doty

## FIFTY-YEAR MEMBERS

*(Joined in 1942)*

*(Gold Ribbon)*

Arthur L. Bunnell, Marble Falls, TX  
Lloyd L. Fisher, Sun City Center, FL  
D. B. Pratt, Jr., Bella Vista, AR  
Roy S. Sievers, Orlando, FL

## FORTY-FIVE-YEAR MEMBERS

*(Joined in 1947)*

*(Ruby Ribbon)*

Walter N. Clissold, Evanston, IL  
Earl P. Drake, Appleton, WI  
Joe A. Enzmann, Downey, CA  
B. C. Ketzenberger, Lima, OH  
E. J. Pyler, Raleigh, NC  
D. R. Rice, Stamford, CT  
Ray Thelen, San Diego, CA

## FORTY-YEAR MEMBERS

*(Joined in 1952)*

*(Ruby Ribbon)*

Edward A. Alesch, Richardson, TX  
Gerald T. Boeldt, Sun City West, AZ  
Andrew R. Buccini, Richmond, VA  
A. E. Cackler, Des Moines, IA  
Clayton C. Daley, Green Valley, AZ  
*Past President*  
Herbert Fingerhut, Sr., Cicero, IL  
Felice Fornaca, Coronado, CA  
James B. Garrett, Saginaw, MI  
L. F. Herrig, Roswell, GA  
William A. King, Coppersburg, PA  
Charles W. H. Matthaei, Tacoma, WA  
Irwin O. Rohrbach, Reading, PA  
*Past President*  
Herman Saussele, Jr., St. Louis, MO  
Ray Whelan, Huntington, NY  
Sam M. Wylde, Seattle, WA