

Bethlehem K. Andrews to Receive The Olney Medal

Bethlehem K. Andrews of the U.S. Department of Agriculture's Southern Regional Research Center at New Orleans has been named to receive The Olney Medal for achievement in textile chemistry.

A lead scientist in the textile finishing chemistry group at SRRC, Andrews is best known for her expertise in the methodology of formaldehyde release and in the basic chemistry and development of low formaldehyde release finishing systems. She also is an authority on durable press finishing of cotton, and is recognized internationally for her contributions to the basic science of cellulose modification.

A native of New Orleans, Andrews received a BS with honors in chemistry from the Newcomb College of Tulane University where she was elected to Phi Beta Kappa and Sigma Xi. As an undergraduate her research drew the support of a grant from the American Heart Foundation. After receiving her degree in 1956 she joined SRRC as a student trainee. She has been there ever since except for the years 1963-68 when she remained at home to care for her preschool children.

Her current research is in the broad area of finish decomposition to establish the mechanism of formaldehyde release in cottons finished for durable press, to identify the factors that can reduce the sources of formaldehyde release during finishing, and to produce new technology for minimization of formaldehyde release.

She has developed finishes for knitted cottons for improved dimensional stability, for introduction of pressed-in creases and for resistance to damage from abrasion, including techniques to eliminate agent migration during drying of tubular knits. She contributed to the development of nonformaldehyde DP cottons through esterification crosslinking of cellulose and to the characterization of esterification finishes.

Other Activities

Andrews is the author or co-author of some 120 papers, 8 chapters in books and 15 patents. She has coedited an American Chemical Society monograph on formaldehyde release and has presented more than 50 invited papers before scientific organizations.

She has served as program chairman of the Gulf Coast Textile Chemistry Conference, organized and chaired symposia at scientific meetings, and has presented lectures at universities and at industrial

and governmental laboratories in the U.S. and Western Europe.

She has been active in the work of the International Organization for Standardization (ISO), serving as a U.S. delegate and working group chairman to its 1984, 1987 and 1989 meetings on textiles. This year she was the leader of the U.S. delegation at meetings held in Paris in April.

A charter member (1961) of the Gulf Coast Section, she has served it as secretary, vice-chairman and chairman. Now in her third term as vice-president of AATCC's Southern Region, she served five years (1987-91) as chairman of the Intersectional Technical Paper Competition. She also has served on the Executive Committee on Research and on the Publications Committee. She is a past chairman of research committees on appearance retention and odor determination, and chaired The Henry E. Millson Award for Invention Committee in 1989. She is currently a member of the Editorial Board, a subcommittee of the Publications Committee.

Honors/Awards

Among honors and awards she has received are Woman of the Year in 1979 from the New Orleans Federal Executive Board and a Distinguished Service Award from the same group in 1983. She was selected in 1978 for inclusion in the Visiting Women Scientists Program, a role

model program of the prestigious Research Triangle Institute. She is listed in American Men and Women in Science, and in 1990 was the third woman in the world to receive the Iota Sigma Pi Award for Professional Excellence.

Earlier this year she shared with a colleague the Cotton Foundation's Miles Research Recognition Award for development of glycol blended methylolamide crosslinking agents for low formaldehyde durable press fabrics, estimated to be in use on 80% of that market.

In June she shared an Agricultural Research Service technology transfer award with a colleague for the development of nonformaldehyde polycarboxylic acid finishing systems for durable press cottons.

In addition to AATCC, Andrews participates in the professional activities of the American Chemical Society, Sigma Xi and The Fiber Society.

She and her late husband, William E. Andrews Jr., have two children, Sharon Andrews Sinha, an assistant district attorney in Orleans Parish, and Keith Andrews, a certified public accountant. Both children live in New Orleans.

As hobbies, Andrews enjoys sailing, tennis and gardening. She is a mentor in Tulane's Assist Program, a member of the volunteer committee of the Louisiana Philharmonic Orchestra and a member of PEO, a group dedicated to fostering higher education for women.

The Olney Medal

Established in 1944 in honor of Dr. Louis Atwell Olney, the founder and first president of AATCC, The Olney Medal recognizes outstanding achievement in textile or polymer chemistry or other fields of chemistry of major importance to textile science. The award consists of a gold medal, a scroll and an honorarium.

Presentation of the medal each year is a highlight of AATCC conferences. This year's presentation will be made at the conference Awards Luncheon on Monday, October 5. Immediately following the luncheon, Andrews will deliver the traditional Olney Medal Address. Her topic will be Safe, Comfortable, Durable Press Cottons: A Natural Progression for a Natural Fiber.

Previous Recipients

Andrews is the forty-ninth recipient of The Olney Medal. The first medal was continued page 73



BETHLEHEM ANDREWS has devoted her career to the advancement of textile chemistry.

The Olney Medal

from page 49

presented to Dr. Olney in 1944. Since then it has been awarded to:

1945: Milton Harris of Milton Harris Associates

1946: William A. Cady of U.S. Finishing Co.

1947: Edward A. Schwartz of Massachusetts Institute of Technology

1948: Harold M. Chase of Dan River Mills

1949: Charles A. Seibert of The Du Pont Co.

1950: George L. Royer of American Cyanamid Co.

1951: Raymond W. Jacoby of Ciba Co.

1952: Werner von Bergen of Forstmann Woolen Co.

1953: Roland E. Derby Sr. of The Derby Co.

1954: William D. Appel of the National Bureau of Standards

1955: Miles A. Dahlen of The Du Pont Co.

1956: Walter J. Hamburger of Fabric Research Laboratories

1957: P. J. Wood of Royce Chemical Co.

1958: Henry E. Millson of American Cyanamid Co.

1959: Emery I. Valko of Lowell Technological Institute

1960: Arnold M. Sookne of Harris Research Laboratories

1961: Fred Fortess of Celanese Corporation of America

1962: Charles F. Goldthwait of North Carolina State University

1963: Guiliania C. Tesoro of J. P. Stevens & Co.

1964: Richard O. Steele of Rohm and Haas Co.

1965: Herman F. Mark of the Polytechnic Institute of Brooklyn

1966: Wilson E. Reeves of the U.S. Department of Agriculture

1967: Edwin I. Stearns of American Cyanamid Co.

1968: Harold P. Lundgren of the U.S. Department of Agriculture

1969: D. Donald Gagliardi of Gagliardi Research Corp.

1970: Paul L. Meunier of The Du Pont Co.

1971: Ernest R. Kaswell of Fabric Research Laboratories

1972: Victor S. Salvin of the University of North Carolina at Greensboro

1973: Herman B. Goldstein of Sun Chemical Corp.

1974: Henry A. Rutherford of North Carolina State University

1975: R. Lee Wayland Jr. of Dan River Inc.

1976: George L. Drake Jr. of the U.S. Department of Agriculture

1977: James M. Straley of Tennessee

Eastman Co.

1978: Dmitry M. Gagarine of Milliken Research Corp.

1979: Joseph W. Gibson Jr. of The Du Pont Co.

1980: Roland E. Derby Jr. of The Derby Co.

1981: Mathias J. Schuler of The Du Pont Co.

1982: Stephen B. Sello of J. P. Stevens & Co.

1983: Theodore F. Cooke of Textile Research Institute

1984: Ralph McGregor of North Caro-

lina State University

1985: Stanley P. Rowland of the U.S. Department of Agriculture

1986: Melvin D. Hurwitz of the University of North Carolina at Greensboro

1987: Ludwig Rebenfeld of Textile Research Institute

1988: Martin K. Lindemann, Consultant

1989: J. Lee Rush of Allied-Signal Inc.

1990: Hans-Dietrich Weigmann of Textile Research Institute

1991: Robert J. Harper Jr. of the U.S. Department of Agriculture

Visit us at
Booths 46 and 47

PRESERVE AND PROTECT YOUR PRODUCTS EFFECTIVELY WITHOUT FORMALDEHYDE

Giv-Gard DXN[®], one of the textile industry's leading non-formaldehyde biocides, features *broad spectrum antibacterial and antifungal activity* without formaldehyde concerns. Giv-Gard DXN[®] is a water soluble liquid product. Let us tell you about all the features of Giv-Gard DXN[®]. Call us today at 201-365-8277 for literature, samples and assistance on your preservative problems.

GIV-GARD DXN[®]

the better solution from Givaudan-Roure

GIVAUDAN-ROURE

GIVAUDAN-ROURE CORPORATION 100 DELAWANNA AVENUE CLIFTON, NJ 07015

Copyright of *Textile Chemist & Colorist* is the property of American Association of Textile Chemists & Colorists (AATCC) and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for individual use.