

# Ralph McGregor To Receive The Olney Medal

**R**alph McGregor, professor of textile chemistry at North Carolina State University who is an international authority on the physical chemistry of dyeing, has been named the 1984 recipient of The Olney Medal.

A native of Leeds, England, who became a naturalized American citizen last November, McGregor has distinguished himself as a researcher, teacher, consultant and writer whose work has been described as the major single contribution towards the basis for future developments in the automation and control of dyeing processes.

In addition to the physical chemistry of dyeing, his research has included dye chemistry, sorption and diffusion processes, electrochemistry, nonequilibrium thermodynamics, color science, visual perception, computer color graphics, computer modeling and simulation of dyeing and printing processes, thermomechanical studies related to barré and applications of electron spin resonance spin-probe techniques in textile chemistry.

### Publications

The author of some 71 scientific publications, McGregor has reflected in his writings the broad scope of his research interests,



DISTINGUISHED professor of textile chemistry at North Carolina State University is the forty-first recipient of The Olney Medal established in 1944 to honor the founder and first president of AATCC.

covering such topics as fluid flow in heterogeneous systems, electrokinetics, dimensional analysis, polyelectrolyte theory, fiber and polymer structure, physicochemical hydrodynamics, color physics, modeling of ionic sorption equilibria, dyeing from finite dyebaths, heat transfer printing, statistical design of experiments, heat transfer and others.

In addition to his published papers, McGregor has written a research monograph (*Diffusion and Sorption in Fibres and Films. Vol. 1: An Introduction with Particular Reference to Dyes*; Academic Press, London, 1974) and a handbook entitled *A Chemical Engineering Approach to Dyeing Problems* (Research Monograph M.20, Applied Chemical Corp., Petersburg, Va., 1969).

### Consulting

As a consultant he has worked with chemical companies, fiber producers, textile mills and apparel manufacturers, including such organizations as Allied Chemical, Du Pont, Tennessee Eastman, American Enka, Ethicon Corp., Blue Bell, Lowe's Corp. and others.

### Scholarships/Grants

A graduate of Leeds University (BS, 1953; PhD, 1958), he has been the recipient of a number of scholarships, including grants from the British Rayon Research Association (1950-53), the British Department of Scientific and Industrial Research (1953-56), a Perkin Travel Fellowship for study at the Swedish Textile Research Institute in Göteborg, Sweden (1962), a research grant from the United States-Japan Co-Operative Science Program of the National Science Foundation for a long term visit to Japan (1981) and a fellowship grant from the North Carolina Japan Center for studying the Japanese language and for research at the Tokyo Institute of Technology (1983).

### Awards/Citations

He has received a number of citations and awards for his work. At Leeds in 1953 he was awarded the Le Blanc Medal as the best undergraduate student in the school of engineering. He was named a fellow of The Society of Dyers and Colourists in 1973; was presented a Research Medal in 1976 by the Worshipful Company of Dyers (London); received an Educational Service Award from the Plastics Institute of America in 1978; was awarded a career degree of Doctor of Science by Leeds in 1979; was named a fellow of the North Carolina Japan Center in 1982; and was selected chairman of the 1982 Gordon Research Conference on Fiber Science.

### Teaching Career

McGregor began his professional career in 1956 as a chemistry teacher at Roundhay School in Leeds, England. For the 1958-59 academic year he was a Courtauld research fellow at the University of Manchester, and from 1959 until 1968 he was a lecturer in polymer and fiber science at the University of Manchester Institute of Science and Technology. In 1965-66 he served as visiting senior researcher at Zentrum für Applikations-

cont'd page 67

## Ralph McGregor To Receive Olney Medal

from page 44

technik, Ciba AG, Basel, Switzerland. He left academics in 1968 to come to the U.S. as senior scientist at Allied Chemical Corp.'s fibers division technical center at Petersburg, Va. In 1970 he joined the faculty of the School of Textiles at North Carolina State University as associate professor of textile chemistry. He was promoted to professor in 1974 and in 1978 was selected Distinguished Professor of Textile Chemistry, a chair endowed in 1965 by Cone Mills Corp. in support of textile research at North Carolina State.

### Other Activities

In concert with his professional activities, he is a member of AATCC, the American Chemical Society, The Society of Dyers and Colourists, Sigma Xi, Phi Kappa Phi and Phi Sigma Iota. He is chairman of AATCC's Colour Index Editorial Committee, chairman of the newly established Committee for Computer Technology in Wet Processing, and immediate past chairman of the Committee on Applied Dyeing Theory.

McGregor and his wife, the former Maureen McGaul, live in Raleigh with their three children, Alasdair, Ralph and Francine. His hobbies include sailing, mountaineering and backpacking.

### Forty-First Recipient Of The Olney Medal

McGregor is the forty-first recipient of The Olney Medal which was established in 1944 in honor of Dr. Louis Atwell Olney, founder and first president of AATCC. Previous recipients were Dr. Olney, 1944; Milton Harris of Milton Harris Associates, 1945; William A. Cady of U.S. Finishing Co., 1946; Edward A. Schwarz of Massachusetts Institute of Technology, 1947; Harold M. Chase of Dan River Mills, 1948; Charles A. Seibert of The Du Pont Co., 1949; George L. Royer of American Cyanamid Co., 1950; Raymond W. Jacoby of Ciba Co., 1951; Werner von Bergen of Forstmann Woolen Co., 1952; Roland E. Derby Sr. of The Derby Co., 1953; William D. Appel of the National Bureau of Standards, 1954; Miles A. Dahlen of The Du Pont Co., 1955; Walter J. Hamburger of Fabric Research Laboratories, 1956; P. J. Wood of Royce Chemical Co., 1957; Henry E. Millson of American Cyanamid Co., 1958; Emery I. Valko of Lowell Technological Institute, 1959; Arnold M. Sookne of Harris Research Laboratories, 1960; Fred Fortess of Celanese Corporation of America, 1961; Charles F. Goldthwait of North Carolina State University, 1962; Guiliana C. Tesoro of J. P. Stevens & Co., 1963; Richard O. Steele of Rohm and Haas Co., 1964; Herman F. Mark of Polytechnic Institute of Brooklyn, 1965; Wilson A. Reeves of the U.S. Department of Agriculture, 1966; Edwin I. Stearns of American Cyanamid Co., 1967; Harold P. Lundgren of the U.S. Department of Agriculture, 1968; D. Donald Gagliardi of Gagliardi Research Corp., 1969; Paul L. Meunier of The Du Pont Co., 1970; Ernest R. Kaswell of Fabric Research Laboratories, 1971; Victor S. Salvin of the University of North Carolina at Greensboro, 1972; Herman B. Goldstein of Sun Chemical Corp., 1973; Henry A. Rutherford of North Carolina State University, 1974; R. Lee Wayland Jr. of Dan River Inc., 1975; George L. Drake Jr. of the U.S. Department of Agriculture, 1976; James M. Straley of Tennessee Eastman Co., 1977; Dmitry M. Gagarine of Milliken Research Corp., 1978; Joseph W. Gibson Jr. of The Du Pont Co., 1979; Roland E. Derby Jr., The Derby Co., 1980; Mathias J. Schuler of The Du Pont Co., 1981; Stephen B. Sello of J. P. Stevens & Co., 1982; and Theodore F. Cooke, Textile Research Institute, 1983.

### Presentation In Chicago

The award, which consists of a medal, a scroll and an honorarium, will be presented to McGregor at AATCC's International

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## The Olney Medal

Conference & Exhibition next month in Chicago. A feature of the conference program will be the Olney Medal Address for which McGregor has chosen the topic, Coloration of Textiles: Methods, Models and Misperceptions.

### Victor T. Fahringer To Receive Millson Award

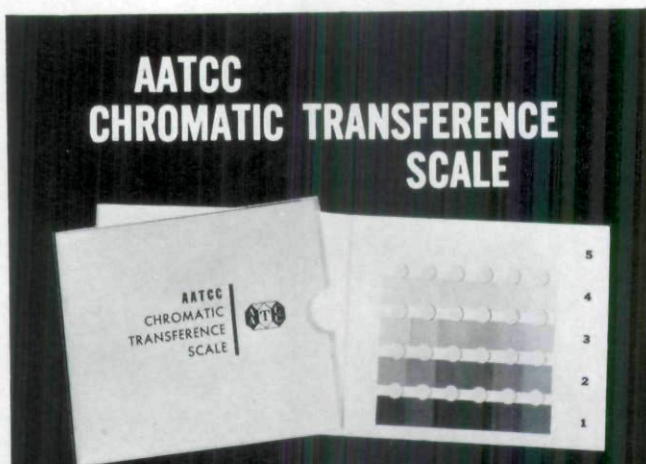
from page 48

until World War II when he was called back to active duty and assigned to the Pentagon in Washington as chief of the engineering and inspection control branch of the ordnance division. He retired from the Army in June 1946 with the rank of colonel.

#### Electrical Engineer

Shortly after World War I, Fahringer finished his high school education at Temple University in Philadelphia and then attended the Carnegie Institute of Technology in Pittsburgh, earning a bachelor of science in electrical engineering in 1922.

Following graduation and marriage to Elizabeth Hoffman in Sunbury, Pa., Fahringer began a career in engineering that was to include jobs as chief engineer for the Sunbury Area Converting Works; chief engineer for the A. G. Spaulding sporting goods firm in Chicopee, Mass.; and chief engineer for Robbins Mills in Clarkesville, Va. When Robbins was acquired by Burlington, Fahringer continued as chief engineer at Clarkesville until he was named area engineer for the eight plants in Burlington's Pacific Mills Division, a post he held until he retired in 1965.



The 1983 version of the AATCC Chromatic Transference Scale contains 30 color chips. The neutral white chip representing the horizontal row 5 and the neutral gray chips in the vertical row on the left correspond to the chips of the whole steps on the Gray Scale for Staining.

The size of the color chips has been increased and the circular holes between the rows of chips have been arranged so that it is easier to evaluate samples. The price of the Scale is \$45. (order no. 8348).

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## The Millson Award

The Millson Award for Invention was established by AATCC in 1979 to recognize outstanding contributions to textile wet processing technology. The award is named for Henry E. Millson, retired head of dyes research for American Cyanamid Co. who is himself a renowned inventor as well as scientist, teacher and chemist.

The first Millson Award was presented in 1980 to Samuel Smith of Minnesota Mining & Manufacturing Co. in recognition of his development of the first commercially successful oil and water repellent fluorochemical textile finishes. The 1981 award was presented to L. Russell Maguire of Pioneer Finishing Co., inventor of the Althouse Flowtrue Logroll that eliminated dye streaks running in the warp direction of a roll of fabric. In 1982 the award was presented jointly to George M. Bryant and Andrew T. Walter of Union Carbide Corp. for their development of the FFT (Foam Finishing Technology) low energy process for finishing fabrics. Last year's award was presented to Valentin Appenzeller, inventor of the swimming roll concept for overcoming deflections of opposing rolls in paddlers.

#### Son To Accept Award

This year's award, which will be a feature of AATCC's International Conference & Exhibition in Chicago, will be presented to Victor T. Fahringer Jr. who will accept it on behalf of his father and the Fahringer family. The younger Fahringer, who lives in Alexandria, Va., is a wholesaler of air conditioning and humidifying equipment. His mother, who lives in Silver Spring, Md., has another son, Donald, and two daughters, Margaret Shea and Ruth Potterfield.

### George S. Wham To Receive Chapin Award

from page 46

Atwell Olney, the founder and first president of AATCC who also was a professor of chemistry at Lowell Textile School, Dr. Chapin will celebrate his 101st birthday on September 20. Still enjoying remarkably good health, Dr. Chapin was a special guest of honor at AATCC's 1980 conference in Boston.

#### Twenty-Sixth Recipient

Wham is the twenty-sixth recipient of The Chapin Award. Previous recipients include Dr. Chapin who was presented the first award; Leonard S. Little, textile consultant, 1960; Arthur R. Thompson of Ciba Co., 1961; Thomas R. Smith of Wiscasset Mills, 1962; J. Robert Bonnar of General Aniline & Film Corp., 1963; Joseph H. Jones of Phoenix Dye Works, 1964; Charles A. Sylvester of The Du Pont Co., 1965; A. Henry Gaede of Laurel Products Corp., 1966; Percival Theel of Philadelphia College of Textiles and Science, 1967; Joe D. Mosheim of Crystal Springs Bleachery, 1968; P. J. Fynn of J. C. Penney Co., 1969; H. Gillespie Smith of American Cyanamid Co., 1970; Harold B. Sturtevant of Rhode Island School of Design, 1971; Albert H. Rant of Laurel Products Corp., 1972; Ernest J. Chorney of Bradford Dyeing Association (USA) Inc., 1973; Patrick J. Kennedy of The Du Pont Co., 1974; Frank J. Rizzo of the U.S. Army Research and Development Laboratories, 1975; Carl R. Teichgraber of Dominion Textile Ltd. 1976; John J. Hanlon of Mohasco Corp., 1977; Fred V. Traut of Globe Dye Works, 1978; Charles L. Zimmerman of American Cyanamid Co., 1979; Richard M. Jones of American Industrial Chemical Corp., 1980; Virgil D. Lyon of Atlas Electric Devices Co., 1981; and John J. O'Neil Jr. of Soluol Chemical Co., 1982.

This year's award will be presented at the conference awards luncheon on Thursday, October 4.

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