# Inter-Society Color Council News

# ANNUAL MEETING

The annual meeting in Charlotte, North Carolina opened on April 19th to a standing room only audience. The keynote of the first day, "Welcome to Textile Country," was struck by a series of speakers involved with the textile industry. The award luncheon culminated with the presentation of the Macbeth Award to Henry W. Levison. Later in the day, a trip to Cannon Mills provided a look into the workings of a large textile mill. With true Southern hospitality, the Cannon Mills guides and employees made the tour informative and fascinating. The next day was devoted to a very busy and intensive schedule of project committee meetings. Lots of plans for the future, as well as work completed, were reported.

The Annual Report issue of the ISCC News will contain more details on the officers' reports and on project committees. Due to the time required to collect all of the material, the May-June issue, which would normally go to press on June 30th may run a little late.

The Symposium on Colorimetry of Self-Luminous Displays, sponsored jointly by the Society for Information Display and the ISCC on April 21st, was a rousing success. A very impressive array of luminaries presented a thought-provoking program. Copies of the papers will be available from the organizer of the Symposium. Contact Mr. Justin J. Rennilson, GAMMA Scientific Company 3777 Ruffin Road, San Diego, CA 92123, (714) 279-8034.

#### HONORARY MEMBERS

The Board of Directors is pleased to announce the Award of Honorary Membership to Professor W. D. Wright and Mr. Richard Hunter.

W. David Wright's lifetime contributions to color comprise an imposing list which is familiar to all who have any interest in the subject. He was educated at the Imperial College, London, where his doctoral research on the color-matching coefficients of ten observers provided a major contribution to the establishment of the CIE Standard Observer in 1931. The prolific outpouring of highly respected research since that time has made his name virtually synonymous with color science. His encouragement of the application of color science to practical problems has been unfailing throughout his long career of teaching at Imperial College and since his retirement. He was the founder of The Colour Group (Great Britain), and the first President of the International Colour Association. He has published five books on color — one in several editions; and his many honors include the Newton Medal of The Colour Group, the Deane B. Judd Award of the International Colour Association, and the Macbeth Award of the Inter-Society Color Council.

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Richard Hunter was one of a distinguished group of pioneer scientists in a small but growing field during the 1930's and 1940's. What set him apart was his compulsion to find practical solutions to appearance measurement problems - specifically, to design an instrument which would make possible the practice of colorimetry (the measurement of color) by industry to help solve their everyday problems. He did just that. The tool of colorimetry, created in 1931 by the adoption of the CIE Standard Observer, was made available for practical use through his photoelectric tristimulus colorimeter. This simple instrument, and others of similar design that followed, gave industry a means of controlling the color of their products. He authored The Measurement of Appearance, as well as numerous articles, and has maintained a life-long interest in education. His honors include Honorary Membership in The American Society of Testing and Materials and the Macbeth Award of the Inter-Society Color Council.

# ISCC EARLY HISTORY

A reprint that should interest each member of the ISCC

is enclosed with this copy of the NewsLetter. It covers the early history of the ISCC as reported by Dorothy Nickerson on the program of the 50th anniversary meeting, April 1981. Reprints of the paper, published in the Spring 1982 issue of COLOR RESEARCH & APPLICATION, (7,1), are provided in order that all members of the ISCC, whether CR&A subscribers or not, may have access to the background information covered by this paper.

# COLOR RESEARCH AND APPLICATION

This outstanding publication is the only English-language journal that covers the entire spectrum of color. It fills the void created by diverse publications which offer only minimal coverage of this broad subject. Each issue presents reports on the state-of-the-art, original full-length articles, news notes, meeting announcements and book reviews.

Dr. Fred Billmeyer, Jr., edits the journal which is going into its seventh year of publication with about 2,000 subscribers. "We try to cover all aspects of color — the science, but also art, design, history, architecture and others," the professor notes. "Color crops up in so many places and in so many ways that we really get a broad readership."

The Inter-Society Color Council endorses this fine journal and urges its members to subscribe at a special rate. First time

subscriptions may be entered with payment of ISCC annual dues. Renewals are invoiced through John Wiley and Sons, Subscription Department, 605 Third Avenue, New York, NY 10157.

#### ISCC CREST

As a response to the many requests the ISCC has had over the years to have an identifying insignia, a blazer crest is now available for purchase. The crest may be fastened to your clothing with clutch pins. It is transferable and may be worn on blazers, dresses, lapels or belts. The crest represents support for the ISCC. It may be worn to Member Body meetings, delegation meetings, lectures, and classes, as well as to the ISCC annual meetings. You will be publicizing the ISCC; and certainly by demonstration of your membership in the ISCC, you demonstrate your high level of interest and expertise in the field of color. Others will ask you about the ISCC, and you will be able to describe its programs. Your established membership in the ISCC will lend additional support for your own

A limited supply is available at \$22.00, including postage and handling. The lettering and design are in five colors on a silver-gray background with a gold braided border. Two sizes are available: 3-5/16" diameter and 2-5/8" diameter. If you do not indicate the desired size, or the size requested is exhausted, you will be sent what is available.

Be proud to display your membership and participation in the ISCC and send for your crest at this address:

Stephen F. Bergen, 1 Colonial Woods Drive, West Orange, NJ 07052, (201) 325-2221.

# **NEWS OF MEMBERS**

# Tillyer Award to Hurvich and Jameson

The Edgar Tillyer Award for 1982 is a joint award. It will be presented to Leo M. Hurvich and Dorothea M. Jameson. Both are members of the faculty of the Department of Psychology of the University of Pennsylvania and both are members of the American Psychological Association's delegation to ISCC.

The recipients of the 1982 award have held their current positions since 1962. Jameson received the B.A. degree from Wellesley College in 1942 and held professional positions with Harvard University, Eastman Kodak, and New York University before joining the faculty at the University of Pennsylvania. Hurvich received his bachelor's, master's, and doctoral degrees in psychology from Harvard University in 1932, 1934 and 1936, respectively. He held various positions at Harvard until 1947, when he joined the Eastman Kodak Company. Following their 1948 marriage, Hurvich and Jameson followed converging professional careers, cooperating on many research papers and holding positions at the same institutions, Jointly they received the ISCC Godlove Award in 1973.

In the early 1950's, almost all color vision theorists supported the trichromatic model, following Helmholtz's position. At that time, trichromacy had a strong mathematical base and was considered somehow more scientific than its

rival, Hering's opponent theory. Among the few supporters of Hering were the team of Hurvich and Jameson, who, in a series of now classical papers established a firm mathematical and scientific base for opponent color vision. Their data and mathematical model, all published in the Journal of the Optical Society of America in the mid-1950's, served as a foundation for almost all current theories of color vision. Hurvich's recent work Color Vision is a great success. Today the vast majority of research and theory in color vision supports the zone theory of color vision - that is, three cone photopigments with their outputs organized into additive and opponent neural systems. These theories are all direct descendants of the pioneering work of Hurvich and Jameson.

The Tillyer Award is presented biennially to recognize distinguished work in the field of vision and will be presented to Hurvich and Jameson at the Optical Society of America's annual meeting in October.

# Fred W. Billmeyer, Jr. Elected AAAS Fellow

Dr. Fred W. Billmeyer, Jr. has been elected Fellow of the American Association for the Advancement of Science.

Billmeyer, Professor of Chemistry, was elected based on his work in polymers, although for the past several years, his principal research interest has been in color science and technology. He is the retiring Secretary of the ISCC and is newly elected as a Director.

Billmeyer is an authority on color measurement as well as polymer science; he has been a member of the RPI faculty since 1964. He directs the Rensselaer Color Measurement Laboratory, and his teaching extends to continuing education in color technology for those in industry.

In addition to a long list of published scientific articles, Billmeyer is known for the popular second edition of Principles of Color Technology. The book was coauthored by Billmeyer and RPI Adjunct Professor of Color Science, Max. Saltzman. Billmeyer is the Editor of Color Research and Application.

# Applications for Individual Membership Approved at Board of Directors Meeting, April 18, 1982

Tau Valley Est. Apt. Y-2 Rocky Mount, North Carolina 27801

Miss Pamela A. Danforth Manmade fibers and the problems encountered in matching and deciding on acceptable color differences. At the present I am working with Phillips Fibers Corporation as

the Color Control Analyst. Responsibilities include color control, color matching, and optimizes color formulations by cost and runnability.

The Cane Farm Rosemont, New Jersey 08556

Mr. John Maitland Graves Perception and emotional response Rembrandt Graphic Arts with respect to generation of nonverbal insight. Exploration of color in its transcendent aspects, particularly with respect to perception and illusion.

Mr. L. J. Majewski Conservation Center 1 E. 78 Street New York, New York 10021

Ms. Dorothy C. Miner Hunter Associates Laboratory 11495 Sunset Hills Road Reston, Virginia 22090

Mrs. Judith A. O'Brien 116 Platt Street Glens Falls, New York 12801

Ms. Mary Salstrom 333 Washington Avenue Brooklyn, New York 11205 ASTM. Color designation and analysis. Use of color in conservation. American and International Institutes for Conservation of Historic and Artistic Works of Art.

IFT. Helping people solve color problems; education; developing new application techniques.

ACHS. Colorants; pigment identification; pigments; fluorescent materials. Student member.

Contrasting relationships of groups of colors or light and color which produce a stimulating whole or balance; paintings in which color transforms figuration; the visual

representation of color space; color as it relates to music and poetry; the use of murals and color in interior spaces.

Mrs. Louise Z. Stahl 1037 Tomlinson Road Southampton, Pennsylvania 18966 AEA. Color as used in paintings, textile design, interior design. Teaching color use in art school: Moore College of Art.

Mrs. Joyce B. Storey
Philadelphia College of
Textiles & Science
Henry Avenue & School
House Lane

AATCC. Dyestuffs, etc., a designer/ stylist and teacher of textile design and textile painting.

Philadelphia, Pennsylvania 19144

Dr. Mendel Trachtman Philadelphia College of Textiles & Science ACHS, AATCC; teaching color science; spectrophotometry.

Henry Avenue & School House Lane Philadelphia, Pennsylvania 19144

# **NEWS OF MEMBER-BODIES**

# **Detroit Colour Council**

The Detroit Colour Council, in cooperation with the Detroit Section of the Society of Plastics Engineers, held a conference March 1, 1982 in Dearborn, Michigan on coloring of automotive molded plastics. Approximately 300 attendees had the opportunity to directly question featured speaker James Comparin of General Motors and panelists Timm Scott, PMS Consolidated; Craig Weadon, Bee Chemical; Joseph Cameron, Borg-Warner; and Jon Stage, Crompton & Knowles.

The Spring meeting will be held May 27, 1982 at the Troy Hilton Inn in Troy, Michigan. Featured speaker will be James Brown, DIANO Corporation, who will make a multi-media presentation illustrating the balance between scientific and artistic approaches to good coloring practices. For information contact William Longley, Ford Motor Co. 313-323-3826.

# Report from Color Marketing Group

The Central Region of the Color Marketing Group held its regional meeting in Itasca, Illinois, a suburb near O'Hare International Airport. The Hamilton Hotel, a newly opened facility, provided an elegant surrounding for CMG's 1982 program. The program was diverse, informative and interesting thanks to Program Chairman Patricia Verlodt of Color Communications. Inc.

The program commenced with Carol Friedman of Munsell Laboratories discussing color communication with the aid of the Munsell system

John Gleason, Ameritone Paint Corporation, showed a series of color panels indicating color movement of paint colors over a period of three years — the subtle color changes both of accent and of volume colors. John also shared his personal future predictions for color directions in the west coast region for 1983.

Jack Denst of Jack Denst Designs Inc. presented room settings and themes from his many elegant collections. He delighted the audience by showing slides of a 1976 Centennial project where transforming an old garage-type building into a space fit to present an art exhibit was both challenging and intriguing. Limited to the red, white and blue national colors and without major renovations, Jack and his staff utilized ingenious methods of disguise to create an atmosphere and a patriotic mood. Mr. Denst's quiet humor emerged as he related the many unusual ideas he used to overcome problem areas, such as designing a painted-in carpet, which looked so authentic visitors cautiously walked around it.

Murray Smith, Micarta Division — Westinghouse, an expert on woods and woodgrains, discussed the emergence of laminate woodgrains and how they have advanced to the point that in many cases it is difficult to detect the printed laminate from the fine natural wood. Murray described the different wood varieties he expects to have a significant influence on related furnishings in the coming year.

Textile Design 101 was a refreshing presentation by a very talented young lady. Sherry Ewaskowitz of Oskar Designs by Sherry Ewaskowitz gave a survey of textiles, product involvement, design development and manufacturing considerations.

Victoria Mournean, Calty Design Research, Division of Toyota, presented many unusual aspects confronting a textile designer working for an international automotive manufacturer. One such example is the use of visual aids to close the communication gap caused by terminology not necessarily used outside the States and not necessarily applicable to an Asian country (Japan). Mrs. Mournean further discussed the sources and applications she used for this vast automotive market. Her presentation contributed enormously toward providing an excellent finale to a successful meeting.

Joyce Davenport
Report from Joyce Davenport
P/P Anne Dillon
CMG Delegation Chairman

# **GUIDELINES FOR PROGRAM CHAIRMEN**

"Program Chairperson's Guide" by Joyce Davenport and Allan Rodriguez is available to ISCC chairmen through the Secretary's office. The guide provides helpful hints, including sections on the program, publicity and deadlines. Examples of letters and announcements may be found in an appendix.

# **MEETINGS**

# **AIC Study Group on Colour Education**

The meeting previously scheduled for June 10, 1982 in Budapest has been changed to June 7, 1982. It will be held in conjunction with the AIC COLOUR DYNAMICS CONFERENCE.

#### Colour Vision

An international NATO conference on colour vision will be held at the University of Cambridge, United Kingdom, August 23-27, 1982. The conference will concentrate on human and primate physiology and psychophysics. Accommodations are available through Dr. L. T. Sharpe, Department of Experimental Psychology, Downing Street, Cambridge CB2 3EB, United Kingdom.

# DR. LOUISE SLOAN DIES

Dr. Louise L. Sloan, a Johns Hopkins vision expert whose research produced the familiar lettering used on most current eye charts, died March 1, 1982. She started the Low Vision Clinic at the Wilmer Eye Institute and developed tests for color perception as well as extensive low vision research.

# RESPONSE TO PRESENTATION OF MACBETH AWARD BY HENRY W. LEVISON

Members of the Macbeth Award Committee, Ladies and Gentlemen, I am naturally both gratified and elated at being chosen to receive the 1982 Macbeth Award. That is coupled, however, with both humbled and embarrassed feelings when I compare my scientific stature with that of those who have previously received this award.

A reason for this is that I was able to do my graduate work in my fourth year at university and, as a result, never got as far as thermodynamics, vector analysis or statistics. It was over fifty years since my last math course when I ran into optical physics. But then I have been extremely fortunate in having some of the best brains in ISCC to assist me when I needed help.

In the thirty years that I formulated printing inks and industrial lacquers I had plenty of experience in working with organic pigments. This only required elementary algebra. In the early 1950's, when I was developing the first general acrylic artists' paint line, I tested a wide variety of pigments for light-fastness in artists' paints using the method of CS 98-42 Artists' Paint Standard. This standard had been promulgated by the National Bureau of Standards on the basis of work done at Fogg Museum funded by the Public Works of Art project in the late 1930's. I am the only member of that original Stand-

ing Committee still active in this work.

The only meeting the Standing Committee ever held was called in 1960 to update the Standard. I assembled my light-fastness data which was in delta E's calculated by Judd's equation and presented the data with recommendations for the inclusion of such pigments as the linear quinacridones, carbazole dioxazine, the Hansas, cadmium mercury reds, etc. The only one who appeared to understand what this was all about was Dr. Robert L. Feller. Thus began a relationship that has given me the most consistent encouragement and technical advice. Others to whom I owe guidance are Ruth Johnston-Feller, Fred Billmeyer, Henry Hemmendinger and Max Saltzman.

I have also been fortunate in those who supplied me with new pigments to test. The salesmen who were calling on me when I was selecting lightfast pgiments for the acrylic line are now product managers of those pigment manufacturers. Consequently I have been able to obtain technical information and any samples from those sources. Without Tom Vonderbrink to supply me with basic paint materials and tips on the latest technical information in that area I wouldn't be operating. And, of course, there is my dear wife Fan, who put up with my being late for lunch and dinner and my typing until midnight.

In the early 1970's I worked with the Bureau of Standards to develop a new Artists' Paint Standard that would include the by then generally used acrylic paints and the new pigments that had become available. That dragged on for a period of three or four years until Joy Turner Luke representing Artists Equity became involved. Living more conveniently in Washington, that quickened the pace, but then the Bureau ceased issuing and promulgating voluntary commercial standards. Joy was solely responsible for the formation of Subcommittee 37 of ISCC on Artists' Materials to organize information for the artist and of Subcommittee D01.57 of ASTM to develop the tests for a new Artists' Paint Standard. Joy is the one who kept the ball rolling. I am the guy who thinks up gimmicks for tests and then has the job of doing the work.

Actually this award is being given for my persistence in following a principle, or an "ideal" as it has been called, not for my brilliance in thinking. However, a good dose of common sense and understanding is sometimes more valuable.

Working under Dr. Harry Shipley Fry on my graduate research taught me the basic principles of research and scientific disclosure. I went into the manufacture of artists' paints with the attitude of making an honest product, presented openly and with full information on the label. This was not customary at the time. The idea was that a craftsman should know the tools of his trade. We are still trying to teach the artist that.

In time I learned that the artist is wary of anything new in a traditional technic such as oil painting. However, when I introduced a new kind of paint, the acrylic emulsion paints, I had no problem getting the artist to use new organic pigments. Hopefully the work of Subcommittees 37 and 57 will eventually steer the artist correctly to what he should and should not use.

Again I wish to express my deepest appreciation and thanks for this award.

NOTE: Mark Gottsegen of Project Committee 37 on Artists' Materials writes to add that Henry Levison authored a booklet titled *Enduring Colors for the Artist, a Treatise on Permanence in Painting* that is highly regarded as a "sensible (common sensible)" publication.

# AATCC WORKSHOP AND SYMPOSIA SCHEDULE

RESEARCH TRIANGLE PARK, N. C. — AATCC will offer the following workshops and symposia in the upcoming series of professional development courses. Please add these programs to your current calendar of events. The schedule is as follows:

# 1982

**MAY 27-28** 

BASICS OF DYEING AND FINISHING
OF NATURAL AND SYNTHETIC
FIBERS, RESEARCH TRIANGLE
PARK, N. C.

SEPTEMBER 20-21 COATED FABRICS SYMPOSIUM, BOSTON, MASS.

DECEMBER 1-2 COLOR MEASUREMENT SYMPOSIUM, GREENSBORO, N.C.

1983

JANUARY 20-21 WARP SIZE SYMPOSIUM, ATLANTA,

APRIL 14-15 DYEING SYMPOSIUM, ATLANTA, GA.

Additional information on program content, registration and accommodations can be obtained from Joan Mitchell, AATCC Technical Center, P. O. Box 12215, Research Triangle Park, N. C. 27709, Telephone 919/549-8141.

#### **CALENDAR**

#### **ISCC Annual Meetings**

1983: April 10-12 – Louisville, KY Galt House

# ISCC Williamsburg Conference

1983: February 6-9 — Williamsburg, VA COLOR AND ILLUMINATION

#### American Association of Textile Chemists and Colorists

Color Measurement Symposium December 1-2, 1982 — Greensboro, NC

#### American Society of Interior Designers

National Conference July 28 - August 1, 1982 — San Francisco, CA

Canadian Society for Color

Annual Conference
May 19-20, 1982 — Carleton University, Ottawa

# **Dry Color Manufacturers Association**

Annual Meeting

June 13-16, 1982 – White Sulphur Springs, W VA

# Federation of Societies for Coatings Technology

**Annual Meeting** 

November 3-5, 1982 - Washington, D.C.

# **Optical Society of America**

**Annual Meeting** 

October 18-22, 1982 - Tucson, AZ

#### Society For Information Display

International Display Research Conference October 19-21, 1982 — Cherry Hill, N.J.

# Society of Photograph Scientists and Engineers

Annual Conference

May 9-14, 1982 - Rochester, NY

- 1. Any person interested in color and desirous of participating in the activities of the Council for the furtherance of its aims and purposes . . . shall be eligible for individual membership (By-Laws, Article I, Section 2). Application forms for individual membership may be obtained from the Secretary (address given above).
- 2. The Council re-affirms its community of interest and cooperation with the Munsell Color Foundation, an independent private foundation devoted solely to the advancement of color knowledge in science, art, and industry. It serves as Foundation Associate of the Inter-Society Color Council. The Council recommends and encourages contributions for the advancement of these purposes of the Munsell Color Foundation. For information, write to S. L. Davidson, NL Industries, P.O. Box 700, Hightstown, N.J. 08520.
- 3. The Council promotes color education by its association with the Cooper-Hewitt Museum. It recommends that intended gifts of historical significance, past or present, related to the artistic or scientific usage of color be brought to the attention of Christian Rohlfing, Cooper-Hewitt Museum, 9 East 90th Street, New York, New York 10028.

Deadlines for submitting items to be included in the Newsletter are: February 15, April 15, June 15, August 15, October 15, and December 15, in other words, the fifteenth of the even-numbered months.

Send newsletter items to:
Ms. Mary Ellen Zuyus
Hunter Associates Laboratory, Inc.
11495 Sunset Hills Road
Reston, VA 22090

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