



Inter-Society Color Council News

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ISCC MEETING ANNOUNCEMENTS

***** ISCC 2ND PANCHROMATIC CONFERENCE

February 19-21, 2000

Color In Its Surround; Savannah, GA.

Info: Dr. Cynthia Brewer, 814-865-5072;

Fax: 814-865-7943 cbrewer@essc.psu.edu

ISCC ANNUAL MEETING & CPMA COLOR PIGMENTS CONFERENCE,

April 16-18, 2000

Charlotte, N.C.

Info: Romesh Kumar,

410-823-2161, romesh.kumar@clariant.com

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COLOR COMMUNICATIONS INC. NEW ISCC SUSTAINING MEMBER

CCI, since its founding in 1972, has focused its expertise in color and color marketing for global industries with highly exacting color needs. CCI produces over 40 million color samples annually. As a new ISCC sustaining member, CCI joins a growing list of respected companies who support the ISCC and the vital role it plays in the advancement of color in the arts, sciences and industry.

CCI is committed to providing a complete range of services focused on insuring the success of our clients. The company's products and services include consulting, creative design, manufacturing, finishing and distribution of all types of color samples from individual master standards to complete comprehensive color systems. CCI provides on-site color auditing and color quality management programs to corporate clients to ensure the consistent reproduction of color standards throughout the world. CCI also provides technical support and merchandising strategies that gives clients a competitive edge within their industry. The company uses sophisticated coating and mounting machinery which is patented and regarded as the best in the industry. CCI's in house research and development staff have developed WaterColors®, the water-based coating system, AquaFilm™, a specialty coating substrate, as well as a unique process for accurately reproducing metallic, pearlescent, and other specialty finishes.

WE MAKE COLOR SELLsm is CCI's corporate tagline. By aligning ourselves with other color experts involved with ISCC, CCI will be able to provide their clients with the latest information on color to meet the ever changing market place needs.

OBITUARY MARGARET NOSS GODLOVE

Margaret Godlove, 94, died Aug. 7 at the Collington Episcopal Life Care Community in Mitchelville, MD after a series of illnesses including a recent bout with pneumonia.

Margaret was born Emma Margaret Noss on Jan. 2, 1905 in Manor, PA, one of three daughters of Rev. Charles Noss. She attended Oberlin College and received a B.S. in chemistry in 1927. She worked at the DuPont Experimental Station in Penns Grove, NJ, until 1949 when she married Dr. I.H. Godlove, an expert in color chemistry, and moved to 127 Spring Garden St. in Easton, PA. Dr. Godlove died unexpectedly in 1954 and Margaret was a laboratory assistant for Davidson and Hemmendinger, color consultants in Easton, until her retirement in 1969. Margaret attended Grace United Church of Christ in Easton and St. Peters United Church of Christ in Tatamy, PA. She moved to Collington in 1997 to be near her family in MD.

Margaret was responsible for supporting the establishment of the I.H. Godlove Award for work in the field of color, the most prestigious award of the Inter-Society Color Council, given biennially. She also made a generous gift to the Open Heart Recovery Area at Easton Hospital as a memorial to him.

Margaret is survived by her son, Dr. Terry F. Godlove and his wife, Dorothy of Ft. Washington, MD, by grandchildren Karen Godlove Malley and Dr. Terry Godlove Jr, and by four great-grandchildren. A Memorial Service is planned at St. Peters in Tatamy at 2 pm Saturday, Sept. 4, 1999 for friends and family. Memorial gifts may be made to St. Peters UCC or to the Valley Health Foundation For Easton Hospital.

Submitted by: Terry F. Godlove, August 10, 1999
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BILLMEYER RECEIVED THE 1999 AIC DEANE B. JUDD AWARD

While vacationing in Lake George, Paula J. Alessi, AIC Vice President, took a short side trip to formally present Dr. Fred W. Billmeyer, Jr. with the coveted 1999 AIC Deane B. Judd Award. This was necessary since Billmeyer could not travel to Warsaw for the official award ceremony where Paula read the citation and Calvin McCamy gave Billmeyer's paper. (Both the citation and paper will be published in the AIC Warsaw Proceedings.) Paula had a pleasant visit with Fred, his wife, Annette, and their son, David. It was a proud day in the lives of the Billmeyer family as Fred added one more medal to his impressive collection commemorating a career of lifetime achievement in color science.



COLOR RESEARCH AND APPLICATION IN THIS ISSUE, OCTOBER 1999

We have been warned, refreshed, and delighted by the color that surrounds us in our world, but we have also been confused, fatigued, and repelled by the invasion of color. What began with color in nature, has been increased and augmented in both hue and quantity with new colorants, and combinations of color produced by humans. Color serves us by telling when fruit is ripe or warns us to stop at the traffic intersection. It helps us classify and identify information, and adds beauty to our homes and work areas. We respond to it both intellectually and emotionally. In our first article this month, Ken Sagawa examines "Visual Comfort to Colored Images Evaluated by Saturation Distribution." By using an image processing unit attached to a CRT display, he could study the effect of saturation in complex images of both indoor and outdoor scenes.

Daylight, more specifically North Sky Daylight, has long been the norm under which to judge color. However, in the industrial production of colored materials, color matchers have found artificial light sources to be useful as they can be controlled and changed at will. In 1981, the International Commission on Illumination (CIE) issued Publication 51, "A Method for Assessing the Quality of Daylight Simulators for Colorimetry." This method involved the use of metameric pairs of colors to assess how well a source simulated daylight as defined by the CIE Illuminants D55, D65 and D75. By calculating the color difference of each of these five pairs of specimens that matched in a given phase of daylight but had quite different spectral reflectance factors, sources could be ranked as to their quality. However, in the 1960's photographic and printing industries had standardized on the use of CIE Illuminant D50, which was not included in this publication. In our next article, Calvin S. McCamy proposes "New Metamers for Assessing the Visible Spectra of Daylight Simulators and a Method for Evaluating Them." Besides providing metamers for D50, he extends the spectral range from the origi-

nal range of 400-700nm to the enlarged range of 380-780 nm.

Next we turn to the topic of color difference metrics. Many metrics have been developed over the years. Several have gained fairly wide acceptance for a period of time - FMC-2 in the late 60s, CIELAB in the late 70s, CMC in the 80s - now CIE94 is gaining appeal in the 90s. However, I doubt that anyone is completely satisfied with any metric yet. One piece of evidence that I can use to defend this position is the number of articles in recent issues of this journal concerned with this topic. In the last issue there were two, and we have three more in this issue, with at least one coming in the next issue. In this issue, the authors Shing-Sheng Guan and M. Ronnier Luo report on a series of experiments and a newly developed metric resulting from these studies. In the first of the three articles, "Investigation of Parametric Effects Using Small Colour Difference," the authors take up the challenge posed by CIE TC 1-28 on Parameters Affecting Color Difference Evaluation. The parameters examined in this research project were the color of the background, and the width of the separating line. Also studied were two different evaluation techniques, gray scale and paired comparison. The study described in the previous paragraph, like the majority of earlier studies, was confined to small color differences in the order of magnitude of manufacturing tolerances. It has long been believed that different metrics are required for "large color differences," that is, differences over 10 CIELAB units. Differences in this order of magnitude are important in color image reproduction and industrial design. The second article by Guan and Luo describes "A Colour Difference Formula for Assessing Large Colour Differences." Just like the earlier project, the colored materials created for this research were made of wool, however also analyzed were other datasets previously published in the literature. In the final article in this series, the authors report on the "Investigation of Parametric Effects Using Large Colour Differences." The parameters studied were lightness of background, sample separation, luminance and magnitude of the color difference.

With all the study of the parameters affecting the color appearance of materials, we can lose sight of the fact that color is not the only aspect of appearance that affects our perception of a material. Gloss is the next most commonly studied appearance factor, and it influences both the overall appearance and the perceived color. In "The Effect of Gloss on Color," Edul N. Dalal and Kristen M. Natale-Hoffman devised a model for the effect of gloss on reflected color, taking into account the measurement geometry of the instrument. The authors deal with the most common spectrophotometer geometries, and provide a general methodology that could be used to develop a device profile applicable to any given spectrophotometer.

For the final paper of this issue, "Contribution to the Experimental Review of the Colorimetric Standard Observer," by F. Pérez-Ocón, E. Hita, L. Jiménez del Barco, and J. L. Nieves, we go back to the question of how "normal" is the Standard Observer. It takes a great deal of work to determine the color matching functions of an observer. Probably that is why it has taken so long to amass a large body of data. In this article, the authors measured the color-matching functions of six people and discussed the implications of the results of their study.

Ellen C. Carter
CR&A Editor

THE DETROIT COLOUR COUNCIL

The Detroit Colour Council is presenting the 21st in a series of annual panel conferences titled, "Challenging Automotive Design Barriers". The conference is on Sept. 13, 1999 at Michigan State University Management Education Center in Troy, MI. Automotive design today presents a number of challenges to suppliers. There is a strong need for innovation, along with increasing engineering, manufacturing, and cost constraints. The speakers will define some of the issues currently before the industry. The conference will conclude with a panel discussion followed by dinner.

For further information, contact Jim Keiser, at 248-583-8345.

ARGENCOLOR 2000 - THE FIFTH ARGENTINE COLOR CONGRESS

Mendoza, Argentina, May 15-18, 2000

Organized by Argentine Color Group and the School of Arts and Design, Cuyo National University.

TOPICS OF INTEREST

Color physics.	Color and medicine.
Color vision.	Color and design.
Color education.	Color psychology.
Color in arts.	Color appearance.
Color imaging.	Color measurement.
Color reproduction.	Color order systems.
Color and semiotics.	Color and culture.
Industrial applications:	Food, cosmetics, textiles, paints, etc.

Papers are invited on the above topics and other related ones. Abstracts of 500 words maximum should be submitted before October 30, 1999. email submissions are encouraged; otherwise, send two printed copies and diskette by mail. Do not send abstracts by fax. The main language is Spanish; English and Portuguese presentations are welcome.

CONGRESS FEES

	<u>Before Feb 29, 2000</u>	<u>After Feb 29, 2000</u>
General	US\$ 50	US\$ 60
Students	US\$ 25	US\$ 30

Contact:

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www.fadu.uba.ar/sicyt/color/gac.htm

COLOR MARKETING GROUP

The Consumer appetite for individualized, calm and smile surroundings has been whetted by the Year 2000 colors forecast by Color Marketing Group (www.colormarketing.org). Manufacturers and retailers should take note of this "soft sell" color trend that will be influencing consumer purchases from fashion to home interiors to automobiles according to CMG. Look for the following colors on your favorite consumer products in 2000.

Vreeland Red: A vivid, clean red with strong yellow influence. A chameleon color. It teams well with many hues.

Oro: Heritage and tradition come to mind with this mellow, warm gold of grain harvests and spice market.

Sea Grass Yellow: A complex yellow-green hue that can act as a neutral, a new yellow, or a new green.

Brown Suede: A golden brown hue created with hints of red and yellow, This is a very natural brown, working well with skin tones.

Wren Gray: A complex environmental color that provides a verysophisticated merging of gray with brown.

Royal Plum: Inspired by spirituality and ceremonial ritual, this deep hue is a color icon of wealth and royalty.

Clearwater Blue: The quintessential blue of the picture perfect dream vacation.

Greenslate: A blackened olive drawn from the earth.

Frosted Jade: A new direction for a neutral, this beautiful, dreamy gray-green is reminiscent of Chinese porcelain.

Chicago Fire: A deep, blue based red with an overlay of holographic glitter; sparkles like it's on fire.

Bach Blue: A metallic blue-green that looks like sunlight glistening on the water.

Tease of Teal: Inspired by the original IMac, this deep teal will sign-on in all industries.

Herbal Green: A pale chartreuse.

Glacier Green: A refreshing hue representing the blue-green side of water imagery.

Windy City: A blue-tinted gray.

Heater: A purple gray with chameleon qualities.
City Copper: An Australian influenced metallic color suggestive of iron ore hues.

According to CMG, Consumer product color choices are being impacted by the following emerging trends. Special Effects, Texture and layering are essentials in producing design. There's a growing importance being placed upon how texture, patterns and specialty effects influence color. "The focus is not on the color, but what can be done to enhance color," observed Hall Dillon, CMG*, President, Color Marketing group and CEO, Dorn Color Card, Inc., Cleveland, OH, USA.

"Mass media and the Internet are changing the speed with which colors and trends move within our society, and around the world," said Co-Chairman of the Consumer Color Directions® Committee Sue Hannah, CMG, The Longaberger Co., Newark, OH, USA. "A design launched in Tokyo can be purchased in Des Moines tomorrow. It no longer takes years for a color trend to move from one continent to another." With these important influences in mind, CMG members identified four color clusters that will be important as consumers enter the next decade. They include:

Techno-Colors: From gray to taupe to black and pure white, these colors are both from and for technology. Yesterday's hardware looks aged, yet neutral colors are required for products that must work in widely differentiated environments. New neutrals will be used to complement the introduction of unexpected materials, colors and shapes in technical equipment.

Chromatic Adrenaline Colors: Energetic hues that will brighten color combinations and add punch to product lines.

Serenity Colors: A color group influenced by consumers' desire for more balance and harmony in their lives. These colors are pale, soft and reassuring. Some came from nature, inspired mostly by water.

Mediterranean Culture Colors: A Group of rich, earth, spice colors most often seen in textiles dyed with centuries old natural methods.

Jill Moran

Color Marketing Group

THE 7th COLOR IMAGING CONFERENCE (IS&T-SID)

This Color Imaging Conference has become the premier technical conference for scientists, engineers and technologists working in the areas of color science and its application to color imaging. Professional disciplines represented range from psychophysics, optical physics, image processing, color science, color engineering, graphic arts, and systems engineering to hardware and software development. Both the IS&T and SID are pleased that this conference has satisfied a great need in the technical community, and has established itself as "the place to meet" with respect to color and computers.

The theme this year, **Putting It All Together**, emphasizes both the diverse expertise and the Need to integrate these skills in order to achieve our mutual goal: the creation, reproduction, and communication of color documents. The conference is structured to highlight the interdisciplinary nature of the work. A third track have been added to the popular tutorial program, scheduled again this year one day before the general sessions begin. Single track format for the poster sessions is continued. Detailed information about this conference was published in the May-June issue of ISCC News. This note is just a reminder. Please consult that issue.

Gultekin Celikiz
Editor, ISCC News

HIGH PERFORMANCE PIGMENTS '99 CONFERENCE

Intertech Conferences has announced that its fifth international business development conference, "High Performance Pigments '99" will be held on November 15-17, 1999 at the Wyndham Miami Beach Hotel in Miami Beach, FL. The conference will provide pigments producers and compounders of plastics and coatings with comprehensive overview of the latest technologies and emerging markets for both organic and inorganic high performance pigments (HPPs). Conference attendees will receive

a complete briefing on market trends by region and sector, new pigment technologies, international regulatory issues and trends in end-use markets with significant near-term growth potential.

HPP market trends will be discussed by senior representatives of Clariant, Sun Chemical, the British Color Makers Association and the European Chemical Industry Council (CEFIC), while technical updates are to be provided by speakers from BASF, Bayer, Clariant, Merck, Ferro and GE Plastics. Graphic Utilities, Kimberly Clark Printing Technology and Eckart GmbH & Co. will offer a special "Market Focus" segment on the new generation of pigmented inks for ink jet application.

The chair of the conference is Hugh Smith, currently a Senior Staff Consultant for Sun Chemical and long-time Vice President of Research and Environmental Science for the firm. Two Keynote Addresses will kick off the meeting: "Value in Use and Not Beyond Use" by Dr. Bansi Kaul, Worldwide Head of Pigment Technology Research for Clariant and "Window to Today's World of High Performance Pigments" by Peter Ludwig, Senior Vice President and CEO of Sun Chemical.

On Monday, Nov. 15, two pre-conference workshops will be featured. Andrew Zamoyski, Technical Manager for Clariant, will present "High Performance Pigments - An Introduction to the field" for those attendees new to the industry; and Dr. Hugh Smith of Sun; Krystyna Lang of CEFIC; and Guy Quan of Chevron Chemical will present "Achieving Global Regulatory Compliance." The latter workshop will offer a unique perspective on worldwide environmental regulations and provide advice for producers and users of high performance pigments who have a need to standardize product offerings across different regions.

Exhibitor information and complete conference brochure detailing the speakers and session topics is available by contacting Melanie Searle, Intertech Conferences, 19 Northbrook Drive, Portland, ME 04105 USA. 207-781-9800, fax: +207-781-2150; melanie@interchusa.com www.intertechusa.com

ISCC 2000 ANNUAL MEETING & COLOR SYMPOSIUM, APRIL 16-18, 1999

The 2000 ISCC Annual Meeting will be held in Charlotte, N.C. at the University Hilton April 16-18, in conjunction with Color Pigments Manufacturers Association (CPMA). The program will consist of general ISCC sessions, followed by a two day symposium covering the following subjects:

**Pigments and Color Industry
Color Measurement
Environmental Aspects of Pigments
Color Formulations - Cost and Performance
New Technologies in Color
Computers in Color Testing
Color Difference and Tolerances
and other related Subjects**

Papers based on the above mentioned topics are invited for the symposium. Speakers will have 30 minutes for presentation followed by a 15 minute discussion. We expect a large attendance like in Newport, RI where we had the last joint meeting with CPMA. It will be great time for networking where industry meets others in color field.

Send abstracts to:

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romesh.kumar@clariant.com

REQUEST FOR NOMINATIONS

The ISCC's Nickerson Service Award was established in 1980 to recognize outstanding long-term contributions toward the advancement of the Council and its aims and purposes. The contributions may be in the form of organizational, clerical, technical, or other services that benefit the Council and its members. Candidates for the award must be members of the Council and must have been active in the affairs of the Council. If you have a nomination for this award, please contact Robert Marcus at Datacolor International, 5 Princess Rd, Lawrenceville, NJ 08648, 609-924-2189x7323, fax 609-895-7438, rmarcus@datacolor.com. Nominations must be received before December 15, 1999.

NEWS FROM MEMBERS

Prof. Gordon Bierwagen, professor of polymers and coatings, has been named chair of the North Dakota State University, Department of Polymers and Coatings, according to Kevin McCaul, interim dean of science and mathematics. "I am pleased to accept the position as chair of one of NDSU's best known departments," said Bierwagen, who joined the NDSU faculty in 1989.

Before coming to NDSU, Bierwagen was the Director of Research and Development at Avery Decorative Films Division, Schererville, IN. Prior to that, Dr. Bierwagen was a laboratory director and scientist for Sherwin-William Co., and a chemist at the Battelle Memorial Institute, Columbus, OH. He is a member of American Chemical Society, American Inst. of Chem. Engineers, Inter-society Color Council, Federation of Societies for Coating Technology and National Association of Corrosion Engineers.

Steve Bergeson (701-231-6101)

A number of ISCC members are participating in American Association of Textile Chemists and Colorists International Conference & Exhibition in Oct. 12-15, 1999. Rolf G. Kuehni is giving a talk on "Color of Textiles in the Renaissance", Christopher J. Hawkyard is discussing "Computer Match Prediction for Fluorescent Dyes by Neural Networks", and Mr. Keith D. Hoover is moderator of Session on Color Science/Management. In that Session Cal McCamy, Ralph Stanziola and Roland Connelly as a Panel of All Stars for Color will review changes in the fundamentals of color - light, observer and object. John R. Aspland will receive the Chapin Award.

AATCC is sponsoring the popular annual Color Measurement Principles and the Textile Industry Workshop. A number of ISCC members will be the speaker/instructors at this workshop. They are Richard W. Harold, Roland L. Connelly, Sr., and Robert F. Willis.

**DANNY RICH
ACCEPTANCE SPEECH
1999 NICKERSON SERVICE AWARD**

I want to thank the Board of Directors of the Inter-Society Color Council and Bob Marcus for conferring this honor on me. This award means more to me than many of you know. I am probably the youngest person here today, who still remembers Dorothy Nickerson. I met Dorothy early in my graduate studies in color science. She invited me to accompany Fred W. Billmeyer, Jr. and attend the last two meetings of the Optical Society of America's committee on Uniform Color Scales. She chaired those sessions and clearly demonstrated both her technical comprehension of the whole project and of the remaining issues to be handled before the collection of example chips could be made publicly available. Those issues included publication of articles on the cuboctahedral geometry of the sampling, the formulations of the paints used to make the example colors and the formulae relating the OSA coordinates L_{jg} to CIE coordinates Y_{xy} and L*a*b*. By the time of our last meeting all of those issues had been addressed and the collection of example colors were ready for distribution.

Dorothy showed me an enthusiasm for color science and technology not often seen in the world today. She was active in many fundamental studies on color science as well as very practical applications of color technology. Later, she transferred many of her papers and instruments to The Rensselaer Color Measurement Laboratory. There I was able to setup and demonstrate the historically famous Nickerson "Hay Colorimeter". This was a visual colorimetry based on Maxwell's spinning disk colorimeter. It used combinations of yellow, green, black and white Munsell papers to match the color of a bale of hay. This was an application of color technology that brought me back to my youth and day in the hay fields of western Idaho.

Dorothy taught me, by her example, that dedication to a field of study, that technical rigor could be modulated with practical experience and with a firm

commitment to communicate that technology, that understanding to those who need it most. One of the ways she accomplished this last aspect was through her dedication and service to the ISCC. Through the years, one of my goals was to keep her example alive in my own career. This award from the ISCC validates my efforts to fulfill that goal. Thank you.

Danny Rich

ANDINA PAINT 2000

The Federation of Societies for Coatings Technology (FSCT) and the Andean Society of Coatings Technicians (STAR) are soliciting papers for ANDINA PAINT 2000 to be held Feb. 16-17, 2000 at the Inter-Continental Hotel in Valencia, Venezuela.

Following the success of the First Andean Coatings Conference in Medellin, Colombia, the 2nd Andean Conference, part of ANDINA PAINT 2000, will feature two parallel academic tracks, with 16 sessions, focusing on: Automotive Finishing, End-User Applications & Corrosion Control, Industrial & Petrochemical Coatings, and UV & EB Curing.

Please provide a 75-100 word abstract, along with information: author's name(s), company name, address, telephone, fax, and e-mail) to Ms. Rosa Sanchez, STAR Academic Committee Director, c/o INPRA LATINA Magazine, Apartado Postal 67-252, Medellin, Colombia; fax: (+57)4-250-6990; lapress@epm.net.co. The deadline for submission is September 15, 1999. Presenters will be notified by September 30, 1999 as to the status of their submission. In addition to the conference, a limited exhibition will be held concurrently. To receive information on exhibits, contact Steve Kettelkamp at 314-994-9640 or steveemi@postnet.com.

ANDINA PAINT 2000 will be promoted to the coating manufacturers in the entire Andean region to include Colombia, Ecuador, Venezuela, and Central America. For more information contact Rod Moon at 610-940-0777 or rodm@coatings_tech.org.

COLOR YOUR WAY INTO Y2K AATCC 1999 IC&E

Textile wet processing professionals from around the world will gather in October 1999, Charlotte, NC for the annual conference and exhibition.

Tutorial Sessions

A Tutorial session will be held from 1-5 PM on Tuesday and will feature a Basics of Dyeing course taught by James W. Rucker, associate professor at NCSU. A second tutorial will be held on Friday morning from 9-noon and will feature a course on Color Science taught by Roland L. Connelly Sr. Separate registration is required for the tutorials as they are not included with the conference registration.

Technical Sessions

Developed by AATCC's Executive Committee on Research, the technical program will offer 20 technical sessions covering not only wet processing — international trade, color science and management, textile history and the environment. Some of the speakers are also members of ISCC as noted elsewhere in the News. A special feature of the technical program will be a Poster Session. At press time, some 40 presentations has been scheduled.

Exhibits

A highlight of the conference will be exhibits by manufacturers and suppliers of dyes, chemicals, machinery, equipment, and services for the textile wet processing industry.

Awards

There is an Awards Luncheon on Wednesday, October 13. The Olney Medal recognizing achievement in textile chemistry will be presented to Warren S. Perkins of the University of Georgia. A native of Elloree, SC, Perkins received a BS and an MS in textile Chemistry from Clemson University.

He was a faculty member at Auburn University before joining University of Georgia in 1995. 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 Harold C. Chapin Award

The Harold C. Chapin Award for outstanding service to AATCC will be presented to John Richard Aspland of Clemson University. He has demonstrated a strong dedication to AATCC through writing, editing, and reviewing publications, speaking at conferences and symposia, and serving on a variety of committees. Between 1991 and 1993 Aspland wrote the articles which now make up the AATCC textbook, Textile Dyeing and Coloration. He is now heavily involved with a similar text on chemical finishing. A native of Yorkshire, England, Aspland received an honors B.S. degree in color chemistry from Leeds University, an M.S. in dyeing and a PhD in textile chemistry from UMIST in 1964. Before joining Clemson University, he worked for Sodyeco and Reeves Bros., both near Charlotte, NC. The Chapin Award was established in 1958 in honor of the late Dr. Harold C. Chapin, Professor of Chemistry at Lowell Textile School.

The Henry E. Millson Award

AATCC named the Millson Award for invention for the late Henry E. Millson, a noted inventor who was also head of dyes research for American Cyanamid. AATCC has named Paul W. Mickler of Global H2O recipient of The Henry E. Millson Award for invention for his work in the commercialization of vacuum slot technology for textile finishing.

The conference is open to anyone interested in textile wet processing. For registration and hotel accommodations information, call AATCC Tech. Ctr at 919-549-3549 or e-mail mcqueenh@aatcc.org. Visit the AATCC website at www.aatcc.org for updates on the conference.

Susan H. Keese
Editorial Director
AATCC

HUMAN FACTORS AND ERGONOMICS SOCIETY (HFES)

HFES 43rd Annual Meeting is set to launch September 27, 1999, with the theme "Houston . . . We Have a Solution!" The meeting begins with 11 hands-on workshops (CEUs available) on Monday, September 27th and technical sessions running Tuesday through Friday, Sept. 28-Oct. 1. This year's meeting will be headquartered at the Westin Galleria Hotel in Houston, TX. More than 100 technical sessions will focus on a broad range of human factors/ergonomics topics, including these highlights:

- Keynote Address by NASA Astronaut and Ergonomist Nancy Currie
- A Survey of the Aviation Safety Reporting System Database
- In-Vehicle Distraction While Driving
- The Challenges of Long-Duration Spaceflight
- The Future of Safety, Security and Reliability
- Development of Web-Based Human Performance Management Tools
- Human Factors: The Business Tool
- VRRQ: A Virtual Reality Entertainment Evaluation Tool
- Crew Resource Management for Offshore Oil Teams
- User Models of Consumer Products
- Applying User Feedback During the Product Development Cycle
- Ergonomic Survey of Household Tasks and Products

Technical Facility tours include NASA Johnson Space Center, Continental Airlines, Campus Computer Corp., and Texas Instruments. The HFES Placement Service will be available to help match job seekers and employers. Exhibitors include 3M, Steelcase, Dauphin North America, Taylor & Francis Publishers, and Crew Systems Ergonomics Information Analysis Center. Registration Packets are available by mail or from our website, www.hfes.org. An on-line searchable and secure on-line registration form is also available.

HFES, P.O.Box 1369
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hfes@compuserve.com

IS&T ANNOUNCES THE PICS CONFERENCE

IS&T Conference on Image Processing, Image Quality, Image Capture Systems to be held March 26 through March 29, 2000 at the Portland Marriott Hotel in Portland, Oregon, USA. It is the 53rd annual spring conference. This meeting is the continuing forum for the presentation of state of the art advances in the technologies that comprise silver halide and digital photography. The conference will explore the significant systems issues that arise from electronic communication of image data between film, imaging devices and computers. An extensive program on digital imaging technologies will be accompanied by reports on the application of silver halide technology in the hybrid systems. A key area of interest is image quality, including measures and metrics for the evaluation of digitally produced images and comparison of the results from varied imaging systems. Other sessions will explore the design of image archives and the impact of the Internet.

Proposals for tutorial classes are also invited. Please contact PICS 2000 Tutorial Chair, Ravi Rao for submission instructions. 914-945-3553 / fax: 914-945-2141, or rao@watson.ibm.com.

IS&T's PICS 2000 will include Plenary Talks, over 100 oral and poster papers and tutorial classes. Mark your calendar now and plan to join with us from March 26 to March 29, 2000 in Portland, Oregon. If you wish to present a paper, please use the web-based form and process described on the IS&T website: <http://www.imaging.org/conferences/pics2000/authors.html>. If web access is not available, submission may also be made via e-mail to pics@imaging.org. Ref. subject line: PICS2000.

- 250 word abstract. Clearly identify the technical content of the paper and (if necessary) what is new compared to previously presented or published material on the same topic. 50 word biographical sketch of the primary author. mailing address, phone, fax and e-mail for the primary author. preferred format - oral or poster or either. preferred session assignment.

GRAWEMEYER AWARD IN PSYCHOLOGY

The University of Louisville is pleased to announce an award to recognize outstanding ideas in Psychology. The University is able to provide the award as a result of the creative generosity of the late H. Charles Grawemeyer. The purpose of the award is to acknowledge and disseminate outstanding ideas in the science of Psychology. Submissions may address a wide range of topics in psychology and should be reflective of those areas considered part of the discipline. The award is designed to recognize a specific achievement. This idea may have been developed by one individual or several individuals and may be submitted from anywhere in the world. The Grawemeyer Award in Psychology is accompanied by a cash prize of \$200,000 paid in five annual installments of \$40,000.

The idea(s) eligible for nomination may have an individual author or authors. The competition does not limit the format in which the idea or achievement appears. Consideration will be given to printed books, articles appearing in scholarly journals, technological advances, software, research reports, conference presentations, or other widely and publicly disseminated forms. Nominations will be judged on the basis of originality, creativity, scientific merit, and scope of potential applicability on the field of psychology.

The University invites nominations from throughout the world by individuals, by professional associations, by university presidents and administrators, or by publishers and editors of journals and books in psychology. To nominate a work, the nominator must submit the following: a 1-2 page letter of nomination in English identifying the specific idea or achievement being nominated and delineating the resolute why the entry merits the award. Please provide complete bibliographic references if possible. A current mailing address, telephone number, fax number and e-mail address for the nominee(s).

Upon receipt of a letter of nomination, the nominee(s) will be notified of their nomination and sent a Nominee Form which explains the award conditions. Each nominee must then submit supporting materials including: a signed copy of the Nominee Form, 6 copies of the relevant publications, presentations, or other documents (all in English) of the idea or achievement, and 6 copies of the nominee's curriculum vita or resume (also in English).

To be considered, the nomination letter must be received by November 1, 1999 and all supporting materials from the nomination must reach the University of Louisville by December 1, 1999. For more information about the Grawemeyer Award, the Review Process, and Awardee Requirements, Contact: Director, Psychology Grawemeyer Comm., Department of Psychological and Brain Sciences, University of Louisville, Louisville, KY 40292

Tel: 502-852-6775, Fax: 502-852-8904

jfapon01@athena.louisville.edu

http://www.grawemeyer.org

Zijiang J. He, PhD
Univ. of Louisville
502-852-6779

TAGA '99

The 1999 TAGA Annual Technical Conference in Vancouver was a tremendous success. Taga hosted a total of 258 attendees including 52 students. I suppose due to oversight, TAGA guest editor Miles Southworth didn't mention in his report the fact that this was a joint meeting with Inter-Society Color Council. The first half was organized by TAGA followed by Bridge Program on May 5, 1999, arranged by Bob Chung. ISCC Annual Meeting was between May 5-7, 1999. In the July-August issue of ISCC News, ISCC President-elect Mr. Jack Ladson did write a complete report of the Annual report including the Salmon feast. Refer to the July/August issue #380 for further details.

Gultekin Celikiz

COLOR IN GRAPHICS AND IMAGE PROCESSING CGIP'2000

The *Centre National de la Recherche Scientifique* is sponsoring the first International Conference on Color in Graphics and Image Processing (CGIP'2000), from October 1 through October 4, 2000. CGIP'2000 aims to become the international point of contact for research scientists, engineers and practitioners throughout the world in the field of Color in Graphic and Image Processing. The objective of this new international conference is to focus on Color Imaging as Color Imaging is the critical element of the research and applications efforts for several scientific communities. The range of scientific disciplines represented includes color science, color vision and psychophysics, mathematical models and physical models, color image processing, computer graphic, color engineering, color systems, color applications, and other various color-related fields. **Some Covered Topics:** Colorimetry, Color Specification and Measurements, Color Vision, Color Image Processing, Mathematical Models and Data Structure for Color Image Representation and Applications.

Organizer: Alain Tremeau at Laboratoire LIGIV - Saint-Etienne - FRANCE

International Program Committee:

Paula Alessi, Eastman Kodak, Rochester
 Mehmet Celenk, Ohio University, Athens
 Graham Finlayson, University of Derby
 Laurence T. Maloney, New York Univ.
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For further information contact: **Alain TREMEAU**

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tremeau@vision.univ-st-etienne.fr,
www.univ-st-etienne.fr/iupvis/color/home.html

or our sponsoring chair:

Christine FERNANDEZ-MALOIGNE,
 Laboratoire IRCOM-SIC-Université de Poitiers - France:
 Tel: +33 (0)5 49 49 65 73 Fax: +33 (0)5 49 49 65 70

Paper Proposals due:	15 January 2000	Notification of Acceptance:	1 May 2000
Camera-Ready papers due:	15 June 2000	Registration Form Available	June 2000

Upon acceptance of summary, authors will be given instructions for the preparation of the full paper, in electronic form, to be published in the conference proceedings and on the CD - ROM. Submission Procedures: Prospective authors are invited to propose papers for presentation in any of the technical areas listed above. To submit a proposal, prepare a 2-3 page summary of the paper including figures and references. Send for copies of the paper summary each with a cover sheet stating: paper title, technical area(s), contact author's first (personal) name, last (family) name, address, telephone, fax, and email address. to:

CGIP'2000 Secretariat, Laboratoire LIGIV,
 3 rue Javelin Pagnon-Site GIAT Industries-BP 505,
 42007 SAINT-ETIENNE Cédex 01 - FRANCE.

Each selected paper (six-page limit) will be published in the Proceedings of CGIP'2000. Presentations will be assigned to lecture or poster sessions by the technical committee. Style files in LaTeX and Microsoft Word will be provided for the convenience of the authors. After September 1999, additional information may be obtained at CGIP'2000 web site: www.univ-st-etienne.fr/iupvis/color/CGIP00/CGIP.html.

The Inter-Society Color Council endorses the CGIP'2000 Conference.

FEDERATION OF SOCIETIES FOR COATINGS TECHNOLOGY (FSCT) 1999 ANNUAL MEETING

Focusing on the theme, "Creativity through Competition in Global Markets," the 1999 FSCT Annual Meeting Technical Program will feature a diverse range of presentations that reflect the current global perspective of the coatings industry. Offered as part of ICE '99, the Annual Meeting program will be held on October 20-22 at the Dallas Convention Center in Dallas, TX.

The Annual Meeting will open on Wednesday, October 20, with the presentation of the prestigious Mattiello Memorial Lecture. The 1999 Lecturer, Dr. Robert F. Brady, of the US Naval Research Lab. will discuss the formulation and testing of coatings having low-energy surfaces. Additional highlights include thematic sessions focusing on the newest developments in resin technology and coatings testing, as well as the Roon Award competition papers, general coatings sessions, presentation on environmental issues, and a Latin American session featuring Spanish language presentations focused on a number of environmental issues currently confronting, or soon to confront, participants from the Latin American countries.

The headquarters hotel for ICE '99 will be the Adam's Mark Hotel. Seven other hotels in the Dallas area will offer special convention rates. For additional information contact FSCT at 610-940-0777; fax: 610-940-0292, or fsct@coatingstech.org. Visit the FSCT website at www.coatingstech.org.

ADVERTISING POLICY

The ISCC advertising policy for the Inter-Society Color Council News is as follows Pre-paid color-related advertising will be accepted thirty days in advance of the publishing date. The rates are

\$ 100	business card-size ad
\$ 250	1/4 page ad
\$ 500	1/2 page ad
\$1,000	full page ad

Artwork must be publisher ready and will be returned within 30 days after publication. The publishers reserve the right to determine the acceptability of the advertising. There is a 20% discount offered for a yearly contract. For further information contact: Tek Celikiz, ISCC News Editor or Cynthia Sturke, ISCC Office.

Jobs Wanted!

This Section is intended to help ISCC members that are in need of, and are looking for employment. Here is an opportunity to use the resources at hand. There is no charge for this service, however, the restrictions are as follows:

1. This service is for ISCC members' use only.
2. No more than 50 words may be used to describe yourself. (Not including name, address and/or telephone number, fax, email)
3. If you are using a P.O. Box, you must supply a complete address.
4. No Agency representing member(s) is allowed.
5. Neither the ISCC News nor the editor are responsible for any errors.
6. You must advise us in writing when you have obtained employment.

We hope this new section will be of value to you, the ISCC member. If you have any suggestions/criticisms, please send them to the editor. Let's make this work!

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Number 381 September/October 1999

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email: celikiz@philau.edu

Please note: Deadline for submission of material is the 1st of each even numbered month. Material received after the 1st may not be printed until the following issue.

All submissions must be in English.



CALENDAR



Please send any information on Member-Body and other organization meetings involving color and appearance functions to:

Cynthia Sturke, ISCC Office
 11491 Sunset Hills Rd. , Reston, Va 20190
 tel: 703-318-0263 email: iscc@compuserve.com
 fax: 703-318-0514 website: <http://www.iscc.org>

1999

DETROIT COLOUR COUNCIL, Sept 13, "Challenging Automotive Design Barriers" Michigan State University, Management Education Center. Contact: Jim Keiser, 248-583-8345.

HFES 43rd ANNUAL MEETING, SEPT 27-OCT 1, "Houston... We Have a Solution!" Houston, TX, 310-394-1811, fax: 310-394-2410, hfes@compuserve.com, website: <http://www.hfes.org>

OSA ANNUAL MEETING, Sept 26-Oct 1, Santa Clara, CA, Info: OSA, 202-223-0920, confserv@osa.org.

BULCOLOR '99, Oct 8-10, Color Group-Bulgaria, Intl Color Conf., Color in All Directions. Varna, Bulgaria tel:+359 2 88 40 75; fax: +359 2 987 93 60. ime@mb.bia-bg.com

TAPPI, Oct. 17-22, Conference, Omni Durham Hotel, Durham, N.C, Info: Lisa Archer, tel: 800-332-8686x225

FSCT ANNUAL MTG TECHNICAL PROGRAM Oct 20-22, Dallas, TX. Info: Rod Moon, 610-940-0777; fax: 610-940-0292, rodm@coatingstech.org

AATCC, INTL CONFERENCE AND EXHIBITION, Oct. 12-15, Conv. Center, Charlotte, NC, Info: Hilda McQueen, 919-549-3549; fax: 919-549-8933; mcqueenh@aatcc.org, website: <http://www.aatcc.org>

COLOR MARKETING CONFERENCE, Oct 24-26, Palm Springs, CA, Info: 703-329-8500

IS&T/SID 7TH COLOR IMAGING CONFERENCE, Nov. 14-17, Color Science, Systems & Applications, Scottsdale, AZ. 703-642-9090 fax: 703-642-9094, info@imaging.org, website: www.imaging.org

ASPRS CONFERENCE PECORA 14/LAND SATELLITE INFORMATION III, Dec 6-10, "Demonstrating the Value of Satellite Imagery" Denver, CO. 301-493-0290; fax 301-493-0208; <http://www.asprs.org>

2000

ASTM COMMITTEE D-1, Jan 23-26 Paint and Related Coatings, Materials & Applications, Hyatt Regency, New Orleans, LA Info: T. Brooke, 610-832-9729, fax: 610-83-9666, tbrooke@astm.org

ASTM COMMITTEE E-12, Jan 25-28, Color and Appearance, Hyatt Regency, New Orleans, LA, Info: Bode Buckley: 610-832-9740; fax: 610-832-1547; bbuckley@astm.org

ANDINA PAINT 2000, Feb 16-17, Valencia, Venezuela, Rod Moon, 610-940-0777, rodm@coatingstech.org

ISCC 2ND PANCHROMATIC CONFERENCE, Feb 19-21, Color In Its Surround; Savannah, GA Info: Dr. Cynthia Brewer 814-865-5072; fax: 814-865-7943, cbrewer@essc.psu.edu

IS&T CONFERENCE ON IMAGE PROCESSING, March 26-27, Portland Marriott Hotel, Portland, OR. pics@imaging.org website: <http://www.imaging.org/conferences/pics2000/authors.html>

TAGA ANNUAL TECHNICAL CONFERENCE, April 2 - 5, Marriott Hotel, Colorado Springs, CO. Info: 716-475-7470, fax: 716 475-2250, TAGAOfc@aol.com; website: <http://www.taga.org>

NPL COLOUR AND VISUAL SCALES 2000, April 3-5, National Physical Lab., CIE DIVISIONS 1 AND 2, April 6-8, Royal Holloway College, Univ. of London, Egham, Gr. Br.. Info: CIE Central Bureau or Linda Marshall, Colour 2000 Admin., The Old Manse, Nottingham Rd, Keyworth, Nottingham, NG12 5FB, UK +44 115 9376070 fax: +44 115 9375271

CIE DIVISION 8, April 10, CIS2000 COLOUR IMAGE SCIENCE CONFERENCE, April 10-12, Atrium, Univ. of Derby, Derby Gr. Br., Info: CIE Central Bureau or Linda Marshall, Colour 2000 Admin., The Old Manse, Nottingham Rd, Keyworth, Nottingham, NG12 5FB, UK +44 115 9376070 fax: +44 115 9375271 colour2000@colour.derby.ac.uk

ISCC ANNUAL MEETING & CPMA COLOR PIGMENTS CONFERENCE; April 16-18, ISCC and Color Pigments Mfg Assoc., Charlotte, N.C., Info: Romesh Kumar, tel: 410-823-2161, romesh.kumar@clariant.com

COLOR MARKETING GROUP CONFERENCE, April 30-May 2, San Diego, CA Tel: 703-329-8500

SID 2000, May 14-19, Long Beach CA, 714-545-1526; socforinfodisplay@mcimail.com website: www.sid.org.

ARGENCOLOR 2000 - THE 5TH ARGENTINE COLOR CONGRESS, May 15-18, Mendoza, Argentina Contact: Prof. Haydee Palomo, extarte@raiz.uncu.edu.ar or Prof. Jose Luis Caivano, jcaivano@fadu.uba.ar

ASPRS ANNUAL CONF., May 22-26, Omni Shoreham Hotel, Washington, DC. 301-493-0290; fax: 301-493-0208; www.asprs.org.

ASTM COMMITTEE D-1, June 11-14, Paint and Related Coatings, Materials and Applications, Ascagua's Nugget, Reno, NV Info: T. Brooke, 610-832-9729; fax: 610-832-9666; email: tbrooke@astm.org

ASTM COMMITTEE E-12, June 20-23, Color and Appearance, Sheraton Hotel, Toronto. Info: Bode Buckley: 610-832-9740; fax: 610-832-1547; bbuckley@astm.org

AATCC INTL CONFERENCE AND EXHIBITION, Sept. 12-20, Benton Conv. Ctr, Winston-Salem, SC, Hilda McQueen, Tel: 919-549-3549; Fax: 919-549-8141, mcqueenh@aatcc.org. Website: www/aatcc.org

CGIP 2000, Oct. 1-4, Intl Conf. on Color in Graphics and Image Processing. St.Etienne, France. Info: Alain Tremeau tremeau@vision.univ-st-etienne.fr website: www.univ-st-etienne.fr/~iupvis

OSA ANNUAL MEETING, Oct 20-28, Providence, R.I. Info: confserv@osa.org.

2000 AIC MEETING SEOUL, NOV. 6-7, Color and Environment. Seoul, Korea, 82-2-365-514 fax: 82-2-365-0014

IS&T/SID 8TH COLOR IMAGING CONFERENCE Nov. 6-10, Color Science, Systems & Applications, SunBurst Resort Hotel, Scottsdale, AZ. 703-642-9090 Fax: 703-642-9094 info@imaging.org; website: www.imaging.org

2001

ASTM COMMITTEE D-1, Jan. 23-26, Paint and Related Coatings, Materials and Applications, Info: T. Brooke, 610-832-9729; fax: 610-83-9666; tbrooke@astm.org

ASTM COMMITTEE E-12, Jan 23-26, Color and Appearance, Embassy Suites, Ft. Lauderdale, FL. Info: Bode Buckley, 610-832-9740; fax: 610-832-1547; bbuckley@astm.org

TAGA ANNUAL TECHNICAL CONFERENCE, April 22 - 25, Atlanta, GA. Info: 716- 475-7470; fax: 716- 475-2250, TAGAOfc@aol.com; website: <http://www.taga.org>

ASPRS ANNUAL CONFERENCE, April 23-27, St. Louis, MO, 301-493-0290; Fax: 301-493-0208 www.asprs.org.

ISCC/AIC MTG, June 24-29, Rochester, NY; Paula J.Alessi, 716-477-7673; Fax: 716-722-1116 pjalessi@kodak.com

COLOR MARKETING GROUP CONFERENCE, Oct 29-31, 2000 Boston, MA; Tel: 703-329-8500

IS&T/SID 8TH COLOR IMAGING CONF., Nov. 5-9, Color Science, Systems & Applications, Scottsdale, AZ. 703-642-9090 Fax: 703-642-9094 info@imaging.org

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