



AIC

Association Internationale
de la Couleur

Newsletter 13
1998



AIC



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Association Internationale de la Couleur Internationale Vereinigung für die Farbe International Colour Association

Newsletter 13, December 1998

Edited by Paula J. Alessi

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The President's Report
Mitsuo Ikeda



At the General Assembly held during the 8th AIC Congress in Kyoto, Japan, last year, I was named as the President of AIC to succeed Prof. Lucia R. Ronchi, and the task formally started at the beginning of the year 1998. I see the AIC to be in good health at a moment due to good steering by my predecessors and by the Executive Committee members. Thus it seems that I just need to follow the track that they laid down before me.

The AIC meeting that I attended for the first time was the 2nd Congress held at York, UK in 1973. Since then I have always enjoyed AIC meetings because they have offered a valuable forum where I could learn topics of color science and present my scientific results. AIC is the only international association that offers an opportunity for color scientists, engineers, and designers to present their research results on any subject as long as it is related to color in one way or another. To hold good meetings is therefore very important in order for the AIC to be rated highly among color experts around the world. As all of you know, the AIC holds a Congress quadrennially or every four years. The Congress covers all the subjects of color and anyone may attend at the meeting and present a paper. Past AIC Congress locations have been Stockholm (Sweden) in 1969, York (UK) in 1973, Troy (USA) in 1977, Berlin (FRG) in 1981, Monte Carlo (Monaco) in 1985, Buenos Aires (Argentina) in 1989, Budapest (Hungary) in 1993, and Kyoto (Japan) in 1997. It covers four continents. We are now going to Rochester, New York USA in 2001 to hold the 9th Congress. All the Congresses produced proceedings and many scientists have reaped benefits from the published papers.

The population of people related to color is still increasing and the subjects to be covered under the name of color are expanding as indicated by the number of attendants at the 8th Congress; 627 people and 459 scientific papers. Because of this, it is becoming difficult to satisfy all the AIC members only by holding Congresses every four years. Many AIC members want to have more opportunities to deliver papers and meet friends. Thus the AIC holds Midterm and Interim Meetings during the quadrennium to meet this need. For such Midterm and Interim Meetings, the subject covered is limited to one specific topic so that intense and deep discussion can be made during the meeting. We are now looking forward to going to Warsaw, Poland on 22 and 23, June, 1999 to attend the AIC Midterm Meeting on the subject, "Applications of Colorimetry in Industry and Design." In 2000, we will go to Seoul, Korea on 10 and 11, October to have the Interim Meeting on "Color and Design." Then as I said earlier, in 2001 we will have our 9th Congress in Rochester.

The mechanism to decide where to go for the next meeting is very simple. First we receive invitation letters from the member countries for a certain meeting indicating venue, dates and topics of the meeting. Then the AIC Executive Committee (EC) carefully analyzes the offers from the point of view of topics, geography, past meetings and the state of preparation, and decides to accept one of the offers. For example, we received three invitations for the Interim Meeting of 2000; from UK, Argentina and Korea. All of them were very attractive and after careful and full discussion at the EC meeting held on 22, August, 1998 at Nice, France we decided it most appropriate for the AIC to accept the Korean offer. I like to express my sincere thanks to The Colour Group, UK, Grupo Argentino del Color, Argentina, and Korean Society of Color Studies, Korea who showed their enthusiasm to cooperate with AIC.

We are now waiting for the invitation for the year 2002 and thereafter, including the 10th Congress for the year 2005. Preliminary offers have been already given to us for the Interim Meeting of 2002. Any member country is eligible to send us an invitation and we look forward to receiving it.

Regarding AIC meetings, I have to say a word about the Interim Meeting of 1998. We once planned to go to Oslo, Norway but finally we had to withdraw the planning because we found that the organizing committee for their own meeting could not accept our proposal to split the meeting into two; one for their own meeting and the other for the AIC Interim Meeting, where the AIC name would be placed on the latter meeting only. Norsk Farveforum worked hard to persuade the organizing committee to accept our proposal but without success. I learned from this unsuccessful experience that it is important to start preparation for any AIC meeting far in advance of the meeting date. We cannot communicate with multiple member countries when the time before the meeting date is short. It is easier to work with one at one time. We can approach another member country only when the final decision is made for the first one. To organize an international meeting is a big matter for any member country and it requires a long time for the preparation. With a short notice of only several months or one year before a meeting is planned, it is extremely difficult to make the meeting successful and any country would have problems trying to take the responsibility to hold the meeting.

From this experience I ask you to respond to us now if you are thinking to invite the AIC to hold the Interim Meeting of 2002 in your country. The EC hopes to decide the matter at the Warsaw EC meeting in 1999.

Being AIC President from the Asian area, I have one thing in my mind that I would like to achieve during my term, which lasts until the end of the year 2001. There are many countries in Asia that are not member countries of AIC but have enough potential to become active members. I would like to do my best to encourage them to join to our association.

On this matter, I thank the Color Science Association of Japan, who is sending a group of invited speakers to Bangkok, Thailand in April, 1999 to encourage Thai color scientists where a newly established "The Thai Color Group" is holding their national conference on "Use of Color: From Fundamentals to Applications for 21 Century." I also plan to attend this Thai meeting to present greetings from the AIC. It is my sincere hope that in the near future Thailand will be a newcomer to AIC. I will continue to travel around to Asian countries to seek out new friends in the science of color so that they can join the AIC forum.

We are fortunate to have very active EC members now. Each member works specifically for one or two tasks beside their general tasks as members of the EC. For example, the Vice-President, Ms. Paula Alessi, USA, is in charge of the AIC Newsletter, the 1999 AIC Judd Award Selection Committee and the 9th Congress for 2001. Dipl. Ing. Frank Rochow, Germany, besides his extremely busy work as the Secretary/Treasurer of AIC, is in charge of the Midterm Meeting at Warsaw from the side of the EC and helps Mr. Jerzy Pietrzykowski, the Chairman of the Organizing Committee, if needed. Prof. Jin-Sook Lee, Korea, is in charge of the AIC Interim Meeting for 2000 and Prof. Javier Romero, Spain, is in charge of the study groups. Prof. Michel Albert-Vanel, France, worked hard to try to sort out the problems arisen at the time of planning the Interim Meeting for 1998. Prof. Maks Tusak, Slovenia, is still a newcomer and will be taking up one or two responsibilities in the near future.

So the state of the AIC is good at the moment and I am very happy to work with those EC members who are all actively participating in their tasks. I am sure that the AIC has a bright future before us and I wish that each member country decides to take a part in that future.

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The Secretary/Treasurer's Report

Frank Rochow

After having been elected in May, 1997 as the Secretary/Treasurer, I took over the office from Dr. Kees van Trigt on January 1st, 1998. Dr. van Trigt held the office for a long time in an outstanding way, and I am aware that it will require all my efforts to maintain the high standard set by Kees. I sincerely thank him for all his support before, during, and after the officer transition.

There will be an audit of the finances at the end of 1998 covering the period which has not yet been audited, including the officer transition period. John Hutchings (one of the previous auditors) and Heinz Terstiege kindly agreed to take charge of this task.

The first actions of President Ikeda and myself have been to ensure that communication between all Executive Committee (EC) members was established. In the meantime, all contacts run smoothly mostly through e-mail.

An updated list of members and observers has been compiled. With the help of Paula Alessi, Mitsuo Ikeda, Danny Rich, and Allan Rodrigues, I was able to re-establish contact with China and India, both of which were out of touch with AIC for the last few years.

Besides the efforts of President Ikeda to attract Asian countries to AIC, I was able to help to engage the Associacao Brasileira da Cor (Brazilian Color Association). This recently founded organization filed for membership of Brazil to AIC. The EC will have to decide on this matter in 1999.

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Professor Fred W. Billmeyer, Jr. - Named the 1999 AIC Deane B. Judd Award Recipient

The AIC Executive Committee is proud to announce that the 1999 AIC Deane B. Judd Award recipient will be Professor Fred W. Billmeyer, Jr.. This recommendation was put forth by the AIC 1999 Judd Award Selection Committee to the AIC Executive Committee for their approval at their meeting in Nice France in late August, 1998. Members of the Judd Award Selection Committee were: Paula J. Alessi (Chair), Dr. Robert W. G. Hunt, Dr. Tarow Indow, Prof. Dr. Yoshinobu Nayatani, Prof. Dr. - Ing. Heinz Terstiege, and Dr. Ir. Pieter Walraven. Please note that all the members of the Selection Committee are former recipients of the Judd Award with the exception of its Chair, Paula J. Alessi. AIC member countries were polled for candidates. Six names and supporting documentation were received for six deserving candidates. The Selection Committee would like to thank the member countries for taking the time to provide the necessary documentation for each candidate they proposed. After careful consideration of the supporting documentation for all candidates, the Judd Award Selection Committee unanimously voted for Professor Fred W. Billmeyer, Jr. as the 1999 recipient.

The AIC Deane B. Judd Award was established in 1975 to recognize work of international importance in the fields of colour perception, colour measurement, or colour technology. The list of previous distinguished recipients is:

1975	Dorothy Nickerson
1977	W. David Wright
1979	Gunter Wyszecki
1981	Manfred Richter
1983	David MacAdam
1985	Leo M. Hurvich and Dorothea Jameson
1987	Robert W. G. Hunt
1989	Tarow Indow
1991	Hans Vos and Pieter Walraven
1993	Yoshinobu Nayatani
1995	Heinz Terstiege
1997	Anders Hård, Gunnar Tonnquist, Lars Sivik

Now in Warsaw, Poland, in late June, 1999 at the AIC Interim Meeting, Professor Fred W. Billmeyer, Jr. will join the list of honored recipients. Professor Billmeyer is being honored for a lifetime of significant contributions to the field of colour. First and foremost he is being recognized for his dedication to the area of colour education, where he directed and mentored 30 post-baccalaureate and many more baccalaureate candidates in the field of colour science. He established and directed The Rensselaer Color Measurement Laboratory. He published over 275 articles and thirteen books on colour and polymers. He drafted at least a dozen important and widely used American Society for Testing and Materials (ASTM) consensus standards. In 1998, he received the coveted Frank W. Reinhart Award for his outstanding contribution to ASTM in the area of terminology standardization. He trained approximately 1,000 students from industry in the principles of colour technology. He founded and served as Editor-in-Chief of the leading colour journal in the world, *Color Research and Application*. He has held leadership roles in the Inter-Society Color Council. His most notable contribution to AIC was as the host and organizer of the AIC 1977 Quadrennial Meeting in Troy, NY, Color'77. Also he authored the "AIC Annotated Bibliography on Colour Order Systems". His international contributions to colour have also taken place through the CIE, where his work has been recognized in the areas of tristimulus value calculation and fluorescence measurements.

Professor Billmeyer's contributions to the field of colour science have shown endless devotion as he continues to work in the field today. Due to health reasons, Professor Billmeyer will be unable to travel to Warsaw, Poland to receive the 1999 Deane B. Judd gold medal at the AIC Interim Meeting in person. He has designated Paula J. Alessi to give the citation and Dr. Roy S. Berns to give an address on his behalf. He will also be able to greet us at the Warsaw meeting in person via videotape, where he will give a short acceptance speech. Please join the AIC in honoring Professor Fred W. Billmeyer, Jr. for his lifetime achievements in the area of color science as he receives the 1999 AIC Deane B. Judd Award.



NEWS FROM THE ARGENTINE COLOR GROUP

MEETING REPORT: ARGENCOLOR 1998, FOURTH ARGENTINE COLOR CONGRESS

The congress was held during August 3-6, 1998, at the School of Fine Arts and the School of Engineering of Misiones University at Oberá, Argentina. The meeting was attended by 253 persons, and 65 papers (of 87 abstracts accepted) were actually presented in the oral sessions (in Spanish). They were:

- J. Caivano: Visual illusions involving spatial distribution of light
- D. Varela: Perception and meaning of the modalities of spatial distribution of light (cesia) in textile design
- N. Matías: Comparative analysis of the connotative use of color through history
- J. Iglesias: Paintings made with light
- Grupo Laboratorio Color: Measurement of color preferences and its application in industrial design
- M. Mattiello et al.: Threshold differences in stimuli on screens illuminated coherently and incoherently
- S. Melita: Measurement of light for color recording and reproduction in photography and cinematography
- M. Mattiello, A. Biondini: Perception of luminance. Analysis for a possible normalization
- A. Di Pietro: Color in buses of La Plata city
- M. De León: Color in the production by the graphic designer David Carson
- M. Chague, S. Pescio, M. Mattiello: Formal recognition of chromatic isotypes
- P. Lucero: Color in the design of objects
- M. Mattiello, L. Echagüe: Mathematical and physiological concepts of color
- V. Villaverde: Color in my ceramic work
- W. Paats Martínez: Analysis of an artistic project
- J. Romero Torres, J. Díaz Bucero, F. García Gil: Reality and appearance in the work by Sigmar Polke
- E. Frau, S. Villalonga: The meaning of color in education and communication
- A. Fontana, N. Matías: The use of color in urban space: La Plata city
- J. Peralta, I. Girelli, M. Marchisio: Casual chromatic identity in Cordoba city
- A. Pappier: Color as a sign in urban visual communication
- J. Caivano, P. Doria: An atlas of cesia with physical samples
- S. López Kraus: Color transformation in ceramics
- F. Hideki Imai, R. Berns: High resolution multi-spectral image capture for fine arts preservation
- M. Goñi Capurro, A. Gaisch, T. Kessler: Colored stainless steel
- M. Garavaglia: Processing of spatially periodic color signals
- M. López: Basic cesia terms: a linguistic model for the Spanish language
- M. Braida, M. Martínez, J. Viñoly: The meaning of color in the Uruguayan carnival
- R. Amuchástegui: The use of light in cathedrals and prisons
- T. de Pasalacqua: Vicino, a Renaissance man
- C. Manganiello: Color preferences for inhabitants of La Plata city
- M. Rossetti: Color meaning and color preferences
- C. Manganiello: Semiosis of color in magazine's covers
- L. Guimarães: Biophysical, linguistic and cultural interpretations in the perception of color
- G. Breyer, D. Giordano, M. Figueroa: The moment of color

- A. Incatasciato, G. Olguín: Color in plants as a connotation of the existence of man in the city
- V. Colautti, I. de Espanés: Color in the architecture of landscape
- C. Zablosky, J. Peralta: Color in the representation of landscape
- S. Pavese, A. Mas: Color in natural components in present cities
- M. Mattiello, E. Rabuini: The teaching of color: a urban experience
- J. Caivano: Symmetry in color order systems
- Grupo Laboratorio Color: Systematization of the aesthetic assessment of color and shape in objects
- M. Mattiello, S. Buglione: Changes in the segmentation of surfaces due to color
- R. Lozano: Recommendations for those who use spectrometers and spectrophotometers
- S. Fiore: The study of color from the conception of the new physics
- M. Viguria: Use of the studies on color meaning for the artistic theory and practice
- N. Wall: The use of color in the education system
- F. García Gil, M. Peña Méndez: Color and pedagogy in fine arts
- E. Sentagne et al.: The teaching of color
- P. Muñoz: The teaching of color in industrial design
- M. Avila, M. Polo: Color and design of the urban image
- M. Mariconde: The role of color related to human behavior in urban spaces
- A. Pappier: Color in the architecture of Clorindo Testa
- A. Di Marco, V. Budovski: Light and color in the urban image
- P. Lucero: Color in the landscape of Misiones
- E. Mac Donnell: Color as intertext. Pictorial analysis
- M. Römer: Color as an arbitrary sign
- L. Colque Arias: Color and aesthetic medicine
- C. Amengual et al.: A system of passive signaling for blind and visually handicapped persons
- F. Jijena Sánchez: Test for the recognition of colored signals
- R. Lozano: Color measurement in teeth
- J. Casanegra, A. Chaijale, M. Marchisio: Color in commercial buildings
- M. Punte: Color and nostalgia in the poetic work by Juana de Ibarborou
- S. Aschero: Color and the teaching of music
- M. Cappelli: Color as the producer of shape
- M. Mastrovito: Use of color in museums

The abstracts (in Spanish) of these papers, as well as the ones presented in the previous congresses, can be found in the Web: <http://www.fadu.uba.ar/sicyt/color/congrgac.htm>. The Proceedings with the full papers will be published in 1999. The next Argentine Congress on Color will take place in Mendoza city, during May 15-18, 2000.

OFFICERS OF THE EXECUTIVE COMMITTEE

At the 4th Congress, half part of the Executive Committee was renewed. The current members are:

President:	José Luis Caivano	(1996-2000)
Secretary:	Antonio A. Alvarez	(1996-2000)
Treasurer:	Liliana García Ferre	(1998-2002)
Vocals:	Salvador Melita	(1998-2002)
	Juan Luis Ferrari	(1996-2000)
	Andrea Pappier	(1998-2002)
	Diana Varela	(1996-2000)
	Hugo Sinelnicof	(1998-2002)
	Mauricio Rinaldi	(1996-2000)
	Sergio Aschero	(1998-2002)

RECENT PUBLICATIONS

ArgenColor 1996, Actas del Tercer Congreso Argentino del Color (Proceedings of the Third Congress), eds. J. Caivano, M. Avila and P. Doria (Buenos Aires: Grupo Argentino del Color, 1998), 64 papers, 382 pp.

GAC revista (Journal and Newsletter). This publication started in 1998. Already published: vol. 1 Nr. 1 (April), Nr. 2 (August), Nr. 3 (December).

OTHER MEETINGS AND ACTIVITIES

Color Day at the National Museum of Fine Arts: December 2, 1998, Buenos Aires. With lectures by D. Varela, P. Muñoz, H. Palomo, E. Rabuini, A. Pappier, M. Avila, M. Mattiello, F. Jijena Sánchez, A. Gaisch, R. Lozano, S. Melita, J. Caivano, R. Amuchástegui, C. Manganiello, M. Rossetti, J. Iglesias, V. Villaverde. Closing remarks by J. Glusberg.

Lecture: Biology of Color and Chromatic Interactions, by Luis López Pasquali, December 14, 1998, at the School of Architecture, Design and Urban-Planning, Buenos Aires University.

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Internet: <http://www.fadu.uba.ar/sicyt/color/gac.htm>

COLOR GROUP - BULGARIA (CGB)

Briefly: AIC BG - President: Assoc. Prof. Dr. Todor Kehlibarov, Vice-President: Mag. Krasimir Krustev, Secretary: Dipl.-Ing Margarita Zdravkova and Honorary Members of Color Group-Bulgaria: from BG: Prof. Dr. Razum Andrejtchin, Prof. Ing. Stojko Enev, Prof. Dr. med Veljo Gavrijsky, Assoc. Prof. Dr. Angelina Tashkova, Assoc. Prof. Dr.-Ing Mintsho Dokov; from abroad: Prof. Dr. Fred Billmeyer (USA), Prof. Dr. Shigebono Kobayashi (Japan), Prof. Dr. Lucia Ronchi (Italy), Prof. Dr. János Schanda (Hungary) - all honorary members are with contribution for the developing of Color Group - Bulgaria (CGB).

CGB was established in 1981 with president Prof. Andrejtshin, Secretary Dr. T. Kehlibarov and in the same year successfully organized the first "COLOR '81" in Bulgaria with more than 450 participants and 30 foreign color specialists. Every two years CGB organizes "Color's" bigger conferences with international participation and with Proceedings in the Bulgarian language (the foreign papers were translated into Bulgarian). From "COLOR '91", we edited our Proceedings in English or German and we noted our "Color '91", "Color '93" and "Color '95" International Conference and Proceedings. We hope that it will be possible to edit the Proceedings from "Color '97" entitled: "Color and Education".

The next big color conference will be 8-10 October 1999 at the Black Sea Coast-Varna, St. Constantine and Elena-Resort, immediately enclosed at the big CIE Conference - "BALKAN-LIGHT '99" - which is at the same place and House of Scientists in Varna. Our conference will be supported from the German biggest Color Society "Deutsches Farbenzentrum" and Swiss Color Society - "Pro Colore".

Every year CGB organizes specialized seminars and symposia of different topics from the Color Science and Application in different towns in Bulgaria. Up until now more than about 80 different activities (excluding our international conferences!) have taken place.

For example, the largest activities for 1998: May 6: "Color control in the food industry", 5 presented papers for 35 participants plus demos with probes of different food products and evaluations; May 7: "Color and lighting in art-galleries and museums", 9 presented papers for 55 participants; June 23-24: International Conference with participation and demonstrations from "Datacolor" and "Minolta" on the topic - "Visual colorimetric evaluation of colors and samples in the industry", 65 participants from 50 industry firms and 15 science institutes: textile, plastics, chemistry, etc.; September 4-5: "Color and Advertising", 12 papers plus 45 participants in Sofia with student competitions; 20 participants from 2 Universities - National Art Academy and New Bulgarian University December 18: "Actual Information for News and Activities on Color". - expected number of participants: about 80 people plus information about "The 11th International Congress of women - architects", September 1998 (Japan), "What news from the biggest color conference of Europa - the "FARB-INFO '98", 4-6 November 1998, Vienna, Austria. At the end were the Annual Meeting of CGB and the Board of CGB.

Other activities 1998: CGB has edited in 250 exemplars the "Newsletter Bulletin" of the CGB for distribution to its members, N 1 and N2 (regularly will be edited in every year 2 issues).

Sincerely,

Assoc. Prof. Dr. Todor Kehlibarov, President

Centre Francais de la Couleur

Address

Centre Francais de la Couleur

ACORA

15 passage de la Main d'Or

75011 PARIS FRANCE

Representatives

Chair : Robert Sève

Treasurer : Jean-Francois Decarreux

Secretary : Lionel Souliè

Delegate to the AIC : Michel Albert-Vanel

Publications

“Primaires”, is an internal newsletter for the members (4 issues of 8 pages each, a year).

Each issue contains at least one original paper, and always news related with the activity of the Center, with colour publications, meetings, events, books review and so on.

Activities

We are involved in many international activities, mainly in relation with CIE Division 1 work. We are working closely in this respect with the CIE national Committee, CNFE. For instance, we are very active regarding the revision on International Lighting Vocabulary for colour terms. We are in relations, on this matter, with other French speaking communities, mainly Belgium. We are working on a French vocabulary associated with colour terms.

We are participating in relation with the CIE-CNFE to various technical committees of the CIE about revision of CIE Publication 15.2 on Colorimetry, about compatibility of colorimetric data, about colour rendering, about colour differences, about colour appearance and so on.

We are a leader about standardization in the field of colour with AFNOR. We have prepared an updated version of the standard NF X08-014 about the use of CIELUV, CIELAB and related colour-difference formula, with the concept of reference conditions. We are among a very small number of countries having a standard on that point. We are an endorsing society for Colour Research and Application and have published many studies in this journal. Recently we published a book review about ‘Michel-Eugene Chevreul : un savant, des couleurs.

Meetings

Thanks to these activities, we have organized many meetings about new methods and new results in colorimetry (Colour system with physiological implications -April 1996, New colour systems RLAB and LLAB -April 1997, Colour differences-January 1998).

We are giving on these subjects very recent, valuable information and help to our members.

We have been also associated with the preparation of many meetings in France :

Colour and Architecture - Caen, February 1996

Jean-Baptiste Corot, the painter - Museum du Louvre, May 1996

National flags of Europe - Strasbourg, 1996.

THE COLOUR GROUP (Great Britain)

Registered office: Applied Vision Research Centre, School of Optometry & Visual Science, 311-321 Goswell Road, London EC1V 7DD, England.
(Annual membership £12.50)

1998-99 Committee: **Dr. Julie Taylor** (Chairman), **Dr. Anya Hurlbert** (Vice-Chairman), **Dr. Gabriele Jordan** (Secretary), **Dr. Patrick Forsyth** (Treasurer), **Ms Carole Anne Ferris** (Membership Secretary), **Dr. Graham Finlayson**, **Mr. Michael Lancaster**, **Dr. Michael Pointer**, **Dr. Michael Quinn**, **Dr. Alex Shepherd**, **Dr. Stephen Westland**, **Dr. Carol Wood**.

The Colour Group promoted frequent educational meetings, as follows:

7th January, 1998, at the Institute of Ophthalmology, London: *Colour Vision*, presented by J. Barbur, D. Bramwell, A. Logvinenko, D. van Norren, S. Wuerger. The First *Keith Ruddock Memorial Lecture* was presented by D. Foster.

4th February, 1998, at the National Physics Laboratory, Teddington Middlesex: *Colour in Lighting*, presented by R. Bell, I. Graves, E. Ruffell, M. Simpson, M. Pointer, G. Skeldon.

4th March, 1998, at the City University, London: *Colour and the Internet*, presented by C. A. Ferris, P. Forsyth, C. French & S. Granger, L. MacDonald, A. Walkden, T. Wright.

30th March - 1st April, 1998, at the Swan Hotel, Harrogate, Yorkshire: *Colour Science '98*.

13th May, 1998, at the Royal College of Art, London: AGM & the First, *J.M.W. Turner Lecture*, presented by P. Sedgley.

17th June, 1998, at Ely Cathedral, Cambridgeshire: *Tour of the Stained Glass Museum*.

7th October, 1998, at Keele University, Staffordshire: *Colour in Images*, presented by G. Finlayson, D. Foster, I. Moorhead, H. Owens, M. Thompson, S. Westland.

4th November, 1998, at the City University, London: *Colour in Food*, presented by A. Connor, D. MacDougall & R. Lima, L. Marks, H. MacFie & D. Hedderley, G. Scott.

2nd December, 1998, at the City University, London: *Colour in the Fine Arts*, presented by A. Escott, P. Jones, R. K. Webb

Founded in 1940, the Colour Group is an interdisciplinary society that brings together those concerned with all aspects of colour, its measurement reproduction and perception.

The Colour Group meetings information website: <http://www.city.ac.uk/colourgroup>
Member's sites include:

MacColour Limited resources website: <http://www.maccolour.co.uk>

Micro Academy ColorDome educational website: <http://www.colordome.com>

HUNGARIAN NATIONAL COLOUR COMMITTEE (HNCC)
Technical University of Budapest
H-1111. Budapest, Műgyetem rkp.3. Hungary
T: (36)-1-463-3050, Fax: (36) (36) -1-463-3071

1. Activities in 1998 of the HNCC:
 - 1.1 There have been three plenary committee meetings attended by a wide range of Hungarian specialists, concerned with the following scopes: Colour qualification and the Hungarian National Colour Standard, Functions of colours in the economical life, and the importance of colour in forming the visual aspect of Budapest and other cities.
 - 1.2 Committee meetings concerned with specialties (colorimetry, colour vision, environmental colour design, etc.).
 - 1.3 Sharing accreditation of higher educational studies concerned with colours.
 - 1.4 Three publications of the informative circular "Sinfo". All issues of the circular involve one or two actual scientific reports. It has been decided that thereafter the circular will include summaries in English.

2. Actual functionaries are:
Chairman: Prof. Dr. Antal Nemcsis
Secretary: Prof. Dr. József Hegedüs

3. Short story of HNCC:
 - 1962 Establishment Unites colour specialists and organizations. Thirteen special committees arise.
 - 1969 Membership in AIC.
 - 1978 Organization and arrangement of the I. International Conference in Colour Dynamics.
 - 1980 HNCC continues to function as an international committee of the Hungarian Academy of Sciences.
 - 1982 Organization and arrangement of the II. International Conference in Colour Dynamics.
 - 1988 Organization and arrangement of the III. International Conference in Colour Dynamics.
 - 1992 Establishment of the International Foundation for "Colour and Light" as a founding member. Starting to issue representative colour publications.
 - 1993 Organization of the 7th AIC Congress.
 - 1995 Arrangement of the authentication of the international diploma for the Top Post-graduate Education in Colour.

Budapest, November 22, 1998

Prof. Antal Nemcsics, HNCC President

Report 1998 of the Color Science Association of Japan (CSAJ)

1998 Board Members

Asao Komachiya (President), Noyuki Osaka, Satoru Kuno (Vice-President), Akira Kitabatake (Chair of Kanto Chapter), Sanjiro Murakami (Chair of Kansai Chapter), Yukie Katoh (Chair of Tokai Chapter), Kenji Sugimoto (Treasure), Hirohisa Yaguchi (Representative to AIC), Taizo Inagaki, Miyuki Ohshima, Hideaki Kwasaki, Kazuo Jo, Tsuneo Suzuki, Hiroaki Sobagaki, Koji Ogata, Kimiko Kasai, Katsuaki Sakata, Masako Satoh, Masanobu Nishimura, Kotaro Hirate (Ordinary Members), Yauhiro Nagata (Editor).

Meetings

The 29th annual meeting of the CSAJ was held in Sugiyama Women's University, Nagoya, on May 23-24, 1998. Because this year was the 50th anniversary of CSAJ, a commemoration, a memorial symposium, and a memorial exhibition were also held. The number of participants was 230, and 55 papers were presented. Eight companies put measurement instruments and books on display at another annexed exhibition. The theme of the memorial symposium was "How color has contributed to the society." Prof. Y. Imai of Tokyo Kasei-Gakuin college presented on clothes, Mr. T. Kimura of Toyota on cars, Prof. M. Inui of Musashi Inst. of Tech. on architecture, and Prof. K. Kitahara of Jikei Medical Univ. on medicine. In the memorial exhibition, a series of copies of the past newsletters of CSAJ was displayed.

The 19th Kansai Chapter annual meeting was held in Osaka on Feb. 6, 1998 with 72 participants. Fifteen oral presentations were made from various fields of color science and its applications. The invited paper was given by Prof. Yoichi Miyake on "Color image processing based on spectral information and its application."

Color Forum Japan 98 was held in Tokyo on Nov. 10-12, 1998. The number of participants was about 250, and 33 papers were presented. Two special sessions were programmed. One was "Color and visualization technology for a huge space" and the second one was "Standards for color image."

Awards

1998 CSAJ Award: Prof. Yoshinobu Nayatani
1998 CSAJ Annual Paper Award: Mr. Tadashi Yano

Study Group

In 1998, CSAJ has ten study groups: Color Design, Environmental Color, Color Education, Colorimetry, Color Coordinate, Tutorial Materials for Color Education, Personal Color, Illusion, Color Vision, and Color in Culture.

Publications

Journal of the Color Science Association, Vol. 22, No. 1-3 and Supplement, 1998 were published.

CSAJ News were published bimonthly.

Handbook of Color Science, Second Edition was published.

Professor Hirohisa Yaguchi
Chiba University Faculty of Engineering,
Department of Image Science
1-33, Yayoicho, Inage-ku
263-8522 Chiba

ASSOCIAZIONE OTTICA ITALIANA (AOI)

The 75 year old AOI, a non-profit organization linking Italy to the AIC, since the foundation of the latter, has been regularly fulfilling its tasks during the year 1998.

* The journal *Luce Immagini* (resp. Director, Dr. Niccolói Rositani) has been regularly edited. About one-half of the published material concerns various aspects of color science.

The AOI sponsored three wide research types concerning:

- the color in the city by night and its optometric consequences; - color education in the childhood; - color education for architects.

Two posters illustrating some preliminary findings, entitled “Color match as a basic ingredient in color education” and “From point colorimetry to color in context, a challenging educational problem” have been presented at the meeting Color and Colorimetry, Slovenia, 10-12 October, 1998 (see the proceedings). Another poster, entitled “Testing sight in real environments” has been presented at the EVER (European Association for Vision and Eye Research) meeting, Palma de Mallorca (Spain) 7-10 October 1998. The Abstract is published on a Supplement of *Ophthalmic Research*. The authors of the posters are L. Ronchi, S. Villani and G. Villani. A thesis based on the data gathered from a large number of children again from 6 to 9 years is nearly completed.

* Two AIC books, in Italian, appeared:

- “Man, environment interaction, at the end of the XX century”, by L. Ronchi and S. Villani. It will serve as a basis for a Round Table on visual experiences in foggy environments (Cologno, Italy, Jan. 1999), where, in particular, the color degradation will be tackled. The AOI has been called to contribute to its organization.

- “The names of colors”, by L. Ronchi, S. Villani, M. Abbozzo-Heuser, G. Tomberlini is a book devoted to a wide public.

* An AOI meeting is being organized, based on the future of color research, say, in the XXI century.

* The interest for Color is rapidly increasing, in Italy. The AOI fulfills the requests of information, of bibliographical references, and similar. In particular, an educational program on Color in Landscape is being discussed. Moreover, a set of seminars on the appearance of (glossy) building surface materials is being organized, on behalf of experts in restoration of old buildings.

* In matters of liaisons, the “Istituto del Colore” in Milan has been inviting the AIC to define a program of cooperation.

* In matter of Awards, L. Ronchi.

* The activity of AIC also concerns fields other-than-color, like Visual Science applied to Physio-pathology, Optometry, Photography, Vision in Sport, etc.

* In matter of Awards, the Slovenian Colourists Association, during its meeting at Brdo, on the 9th October 1998, conferred to L. Ronchi, The Title of Honorary Member.

Lucia R. Ronchi

The Korean Society of Color Studies (KSCS) Report

We are happy to send our society news to your AIC newsletter. 1) The KSCS executive members were changed on the first of June, 1998. They are as follows;

President: Prof. Mahn-Young Lee

The President of Korean Society of Color Studies
Department of Psychology, Korea University
1, 5-Ka, Anam-Dong, Sungbuk-Ku. Seoul. Korea
Tel: ++ 82-2-923-9203, Fax: ++ 82-2-928-9203(or ++82-2-3290-2060)
e-mail: mahn@kucn.korea.ac.kr

Vice-president: Prof. Kim gichul

Department of Industrial Design, Sejong University
98 Gunja Dong, Kwangjin-Ku, Seoul. Korea
Tel: ++ 82-2-498-4592, Fax: ++ 82-2-469-4978
e-mail: kimgc@sejong.ac.kr

Kyung-Young Kim Ph.D.

President of Rami environmental art research institute
No. 1504 Chungho Bldg. 51-2 Bange-dong Songpha-ku, Seoul, Korea
Tel: ++ 82-2-421-7277^o 9, Fax: ++ 82-2-421-7279

Secretary : Young-Sun Kim Ph.D.

/Treasurer Senior Researcher, Behavioral Science Research Center, Korea University
1, 5-Ka, Anam-Dong, Sungbuk-Ku. Seoul. Korea
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Secretary(international): Prof. Ok Hyun Kim

Department of Applied Art, Dong Duck University
23-1 Wolkok Dong Sungbuk Gu, Seoul, Korea
Tel: ++ 82-2-940-4543
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Office: Korean Society of Color Studies

Department of Psychology, Korea University
1, 5-Ka, Anam-Dong, Sungbuk-Ku. Seoul. Korea
Tel: ++ 82-2-923-9203, Fax: ++ 82-2-928-9203(or ++82-2-3290-2060)
e-mail: mahn@kucn.korea.ac.kr

Home-page: <http://ailab.korea.ac.kr>(only Korean available;

English version is under construction. Coming soon-We're getting ready to provide our news; (AIC interim meeting 2000 in Seoul).

2) KSCS activities

* KSCS published an issue (No.15) of quarterly newsletter, KSCS Newsletter, Oct. 1, 1998.

* KSCS published an issue (No. 10) of biannual journal, Journal of Korean Society of Color Studies, June, 15, 1998. The issue No. 11 is in print.

* The major event for KSCS is the biannual Symposium. The Spring Symposium in

1998 was held at the Kon-Kuk University in Seoul (June 20, 1998). The Winter Symposium will be held at Korea University in Seoul (December 12, 1998). The 17 studies will be presented in The Winter Symposium covering various topics as follows: Advances in color technology, color and emotion, color imaging, naming system of color, color in education.

Please contact Young-Sun Kim (kalasun@kucncx.korea.ac.kr) for further information about KSCS.

AIC Interim meeting 2000

Color and Environment

Oct. 12-13, 2000

Seoul, Korea

The Steering Committee chairperson for the AIC Interim meeting 2000 in Seoul is Prof. Jin-Sook Lee (js_lee@hanbat.chungnam.ac.kr). Please contact Jin-Sook Lee for details of The AIC Interim Meeting 2000 in Seoul.

Prof. Jin-Sook Lee
Department of Architectural Engineering
Chungnam National University
220 Kung-dong Yusong-Ku Taejon 305-764 Korea
Tel: + + 82-42-821-6573, Fax: + + 82-42-823-9467
e-mail: js_lee@hanbat.chungnam.ac.kr

Committees:

Organizing Committee Chairperson	Don-Soh Park
Vice-Chairperson	Yang-Sup Lee
	Jung-Hyun Cho
Steering Committee Chairperson	Jin-Sook Lee
Secretary	Mung-Sup Shim

GLÓWNY URZĄD MIAR
CENTRAL OFFICE OF MEASURES (COM)

The Central Office of Measures (former Polish Committee for Standardisation and Measures) has been an AIC member since 1981. The Central Office of Measures is a national metrological institute, which also performs the calibration of colorimetric standards and instruments.

Up until now, in Poland, there has been no national organization for color science but there has existed an informal group of people interested in colorimetry.

In 1998 in Poland, three conferences related to color and its measurements were organized, namely:

1. The International Colorimetric Conference was organized by the Polish Chapter of SPIE on 25-29 May. The proceedings will be edited by SPIE.
2. The Third (III) National Symposium Colorimetric was organized by the Central Office of Measures on 9-11 September. Proceedings (in Polish) are available.
3. The Conference "Color in nature, science and technology" was organized by the University in Wrocław city on 27-28 November.

This year our laboratory will organize an AIC Midterm conference on 22-23 June, 1999.

In 1997-98 two books were edited in the area of colorimetry:

1. J. Mielnicki-Zarys wiadomości o barwie (Outline of color knowledge), pp.316, in Polish.
2. Guide "Illumination Technology" having two chapters related to colorimetry.

The AIC representative in Poland is Jerzy Pietrzykowski - head of the Optical Radiation Laboratory at COM.

Address:
Jerzy Pietrzykowski,
Head of Optical Radiation Division
Central Office of Measures
ul. Elektoralna 2
00-139 Warszawa
Poland
Fax (+48 22) 620 83 78

**Come one come all to the AIC Midterm Conference on
Applications of Colorimetry in Industry and Design**

June 22-23, 1999 Warsaw Poland

**For registration information, please contact the Central Office
of Measures at the above address and FAX number.**



**Come to the 24th session of the CIE, Warsaw, Poland - June 24-30,
1999 - For more information, please see www: <http://www.ee.pw.edu.pl/cie99>**



Dru_tvo koloristov Slovenije

The following is a short review of our 5th international Symposium on Color and Colorimetry, that our Slovenian Colorists Association organized this year in September. The officers of our **Slovenian Colorists Association** are:

- President:** **Prof. Dr. Slava Jeler**
Tel.: ++386 62 220-7500 (Faculty of Mechanical Engineering)
Fax.: ++386 62 109-53-20 (Privat)
- Vice-President:** **Dr. Vera Golob**
Tel. ++386 62 220-7891 (Faculty of Mechanical Engineering)
Fax: ++386 62 220 7990 (»)
- Secretary:** **Dunja Legat, Dipl. Ing.**
E-mail: legat@uni-mb.si

5th international symposium on Colour and Colorimetry **10th - 12th September 1998, Brdo pri Kranju, Slovenia**

The 5th international symposium on Colour and Colorimetry was organized by Slovenian Colorists Association and Slovene Centre for Colour from the Faculty of Mechanical Engineering of the University of Maribor. It was patronaged by Ministry of Science and Technology, Danube Rector's Conference and University of Ljubljana. 120 participants from 12 European countries took part. In the program committee, many experts of the interdisciplinary science of colour from Germany, Brazil, The Netherlands, Italy, Hungary, Croatia and Slovenia collaborated. Members of the organizing committee were employees of the Institute of textile chemistry at the Faculty of Mechanical Engineering at the University of Maribor and employees of the Textile Design Department of NTF at the University in Ljubljana.

The carefully prepared program comprised scientific achievements in the field of interdisciplinary colour science, novelties in the field of identification, visualization and modeling, as well as the importance of numerical colour evaluation and colorimetry in graphics, textile industry, varnish and pigments production and polymers. 36 lectures and 19 poster papers were presented. Because of the interdisciplinary basis, the program was divided into 7 topics:

- introduction lectures,
- colour visualization and colour systems,
- colour and graphics,
- colour and textiles,
- colour and pigments,
- spectrometry
- the use of colorimetry

The Introduction Lectures were dedicated to topics such as interdisciplinary science on colour in the international area, colour and colorimetry after Bled 94 (4. international symposium on Colour and Colorimetry, 1994, Bled, Slovenia), colour management, colours and personality, architecture and colour - surface partition and the importance of CEN-standardization for Europe.

In the topic Colour Visualization and Colour Systems, the following lectures such as Cognitive effects in image reproduction on computer screens, Legibility of character-background colour combinations, Colour systems for the analysis and definition of surface texture and its affect on colour appearance, On the equidistancy principle in the DIN colour chart were presented.

In the topic Colour and Graphics, the experiences with offset print by SIST ISO-12647 standards and the use of spectrophotometry were presented. As the novelty this year to make our meeting more varied, a round table with the up-to-date topic of colour management was organized.

As the leading lecture in the topic Colour and Textiles, Computer match prediction for fluorescent dyes by neural network was presented. The following lectures were The phenomenon of optical colour mixing in textile design, Blue and jeans in textile design, Decrease of coloration changes in citric acid treatment due to the application of mixed catalysts, Colorimetry in textile CAD systems-the case of the company, Colorimetry assessment of the colour strength of textile dyes, On sensitivity of the colour recipe and Colour differences as a criterion for leveling evaluations of fabrics dyes in supercritical CO₂.

In the topic Colour and Pigments, the following lectures were presented: Industrial systems for quick assembly of coatings, Criteria for the pigment selection during the formulation of coatings, Colour matching of automotive effect shades, About the influences of metal flakes on the optical properties of effect paint, Wood colour and discolouration during weathering and Sputter deposition of hard decorative coatings.

The topic Spectrometry included lectures such as Analytical fluorescence spectrometry, Electroretinogram flicker photometry, Thermal lens spectrometry, Spectral measuring of fluorescence colours for the theatre and Absorption based studies on Ormosil via Nile Red Dye.

The last topic was The Use of Colorimetry. It included lectures such as Evaluation of colour constancy using dichroic ladders, New aspects in color quality control, Industrial colorimetric control and Propalette-a unique color matching system.

In the poster section, 19 poster papers were presented.

The content of the lectures and poster papers is presented in two publications, first in the Program and Abstracts of the 5th international symposium on Colour and Colorimetry and also in Proceedings. For more information about the symposium, please contact the head of symposium, prof. dr. Slava Jeler at the following address:

Slovenian Colorists Association
prof.dr. Slava Jeler
Vetrinjska 16
2000 Maribor
Slovenia
Phone: ++386 62 220-7500 Fax: ++386 62 109 53 20

S E D O

SOCIEDAD ESPAÑOLA DE
ÓPTICA

COMITÉ ESPAÑOL DEL COLOR

Joaquín Campos Acosta,
Spanish Color Committee, Secretary
Serrano 121, 28006 Madrid
Tlf.: (91) 561 60 70
Fax: (91) 564 55 57
Correo Electronic: sedo@cc.csic.es

**REPORT FOR THE AIC NEWSLETTER
YEAR 1998**

The Spanish Color Committee has continued working for Color and the enlargement of the committee during this year. The most noticeable activities are summarized next.

A World Wide Web page has been recently opened for our committee on the Spanish Optical Society Server. The address of this page is: <http://sedo.optica.csic.es/color/color.html>. Information is only available in Spanish at the moment. We hope that it will be available in English in the future. Goals of our society and members of the Board may be found in this Web page, including their postal and electronic addressees. In addition to inform on the activities of our committee, this page intends to be a window of Spanish research groups that work in Color. There are also some useful links to other National and International Color organizations such as CIE, ISCC, and to color-related conferences and meetings. We would like to see soon a Web page for the AIC too.

The fifth edition of the Spanish Color Congress will be held next year, from June 9th to 11th in Terrassa, a nice city close to Barcelona. Our Committee and the Politechnical University of Cataluña are organizing it. We hope to have a very good meeting again, as we already had in the previous editions. Most of the subjects related to color will be covered in the conference: color vision fundamentals, basic colorimetry, applied colorimetry, industrial problems, color imaging, teaching color, color in arts and architecture. More information may be found on the congress' world wide web page at the address <http://campusterrassa.upc.es/color99>.

As a colophon of the last national congress, the Spanish Color Committee has published a paper on the State of the Art on color research. This paper is written in Spanish and has been published in the journal of the Spanish Optical Society, *Optica Pura y Aplicada*. The paper contains a brief description of the latest developments in several matters, including a list of bibliographic references. Subjects included are standard observers and illuminants, colorimeters, measurement uncertainties, color differences, models of color vision and color discrimination, color constancy, color in imaging technology, color appearance, and food colorimetry. A copy of this paper may be obtained from the Secretariat of the Spanish Color Committee, whose address may be found on this AIC Newsletter.

Stiftelsen Svenskt Färgcentrum Swedish Colour Centre Foundation

Igeldammsgatan 30 • PoBox 49022 S-100 28 Stockholm Sweden

Tel. 08-617 47 00 • Telefax 08-617 47 47

Stockholm December 1998

Colour Day in Stockholm

This Year's Colour Day arranged by The Swedish Colour Centre Foundation gathered 120 participants on November 13, 1998, in Stockholm. Under the theme "Colour in culture" we tried to throw light upon colour and culture in many different aspects from colour in the city planning, over colour in art, to our products with lecturers from different cultures and different countries.

We could listen to a lecture by Michel Cler, architect and colour consultant, Paris, entitled *Light, texture, colour appearance.....meanings in the city chromaticscape*. Clara Froger, architect and colour consultant, Rotterdam, talked about *Colour planning in Amsterdam, Delft and Rotterdam, old and modern. The area of Randstad*. Byron Mikellides, PhD, School of Architecture, Oxford University, had made an analysis of the colours of Oxford which he presented. Diana Uppman, a Swedish antiquarian, talked about the large grey houses built in the sixties and how we can handle these buildings.

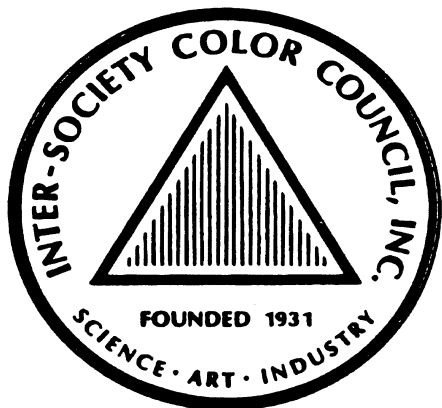
After lunch, we could listen to K-G Nilsson, professor and artist, who talked about *Colours in Modern Art*. Jerry Aoijs, design manager for Perstorp Surface Materials, presented how they are working with colour assortments to fit different cultures all over the world. Mia Hesselgren, marketing manager, Hackman Hammarplast, showed us and told us how the colours of our daily products have been changing during recent years and how they are working with coming trends. The last contribution was presented by Gösta Wessel, professor, University College of Arts & Design, with the lecture *White and Black*.

Half-Day Colour Workshop

Before the Colour day, we also arranged a Half-Day Colour Workshop with the invited Michel Cler, Clara Froger and Byron Mikellides and Swedish colour researchers and some architects. The theme of the seminar was *The colours of cities*. After a short presentation of each one's work, there was a free discussion which led to a good opportunity to exchange experiences between researchers and colour consultants.

Berit Bergström
Secretary

Inter-Society Color Council



The Inter-Society Color Council was founded in 1931 in the USA. Its aims and purposes are:

1. To stimulate and coordinate the work being carried out by the various members leading to the uniformity of description and specification of color by these members.
2. To promote the practical application of this work to color problems arising in science, art, and industry, for the benefit of the public at large.
3. To promote communication between technically oriented specialists in color and creative workers in art, design, and education, so as to facilitate more effective use of color by

the public through dissemination of information about color in both scientific and artistic applications.

4. To promote educational activities and the interchange of ideas on the subjects of color and appearance among its members and the public generally.
5. To cooperate with other organizations, both public and private, to accomplish these objectives for the direct and indirect enjoyment and benefit of the public at large.

The ISCC representative to the AIC is Cynthia Sturke, ISCC Office Manager, 11491 Sunset Hills Road, Suite 301, Reston, Virginia, 20190, Tel: 703-381-0263, FAX: 703-318-0514, email: iscc@compuserve.com, Web Site: <http://www.iscc.org>

The following is a summary of the 1998 ISCC Annual Meeting.

Report On The 67th Annual Inter-Society Color Council Meeting

On October 2, 1998 the 67th Annual Meeting of the Inter-Society Color Council (ISCC) convened at the Marriott Inner Harbor Hotel located in Baltimore, Maryland, USA. Mark Fairchild, the meeting chair, is to be congratulated for his fine program. There were over 100 individuals registered from around the world representing the arts, the sciences, and the industries. The ISCC joined with the Optical Society of America (OSA) on October 5, presenting the topic session; "Color Discrimination and Color Differences: Perception and Prediction." This topic provided a bridge session between the ISCC meeting and the OSA meeting. The OSA continued with their annual meeting on October 6th. The OSA meeting was held in the Baltimore Convention Center. Participants from the CIE Division I meeting, which was also held at the Marriott, enhanced the international flair of all the meetings.

The program for the ISCC Annual Meeting included speakers from Japan, Europe, and the United States. The topics presented were; the physiology of human vision, the color measurement viewpoint, the psychophysical aspect of production, the artists' use of

color, and the cultural uses of color. The presenters provided ideas which crossed intellectual as well as geographic boundaries.

While it is not possible to report here in detail about each of the presentations at the meeting, a full meeting report will be published in the June issue of *Color Research and Application*. The theme for the Education Committee was “Color: Art, and Science.” Vivanne Smith chaired this session. The topics included: “**The Evolution of Human Color Vision**” by James Jenness (College of Wooster); “**The Importance of Color in Language and Culture**,” by James Schirillo (Wake Forest University); and “**The Color of Art, and More...**” presented by Glenn Miller (Rochester Institute of Technology). The talks were informative and timely as the Van Gogh art exhibition that opened in Washington, D. C. was front page news on The Washington Post for October 2.

Interest Group II session was Industrial Applications of Color. Arnold Service chaired the Interest Group. The topics were: “**Color Image Parameters for Color Appearance Description**,” by Alain Tremeau and Philippe Longere* (Universite Jean-Monnet de Saint Etienne); “**Testing Color Appearance Models Including CIECAM97 using SCID Images**” by Hirohisa Yaguchi*, Tamotsu Yoshizawa, Hironobu Yoshikawa, and Satoshi Shiori, (Chiba University); “**An Evaluation of the Instrumental and Visual Color Difference of Metameric Tile**,” by Julie Taylor and Paula Knee* (National Physical Laboratory) Mitsuharu Endo and Miyoshi Ayama (Utsunomiya University); and “**Abstract Mathematics Provides Fundamental Color Order Systems and Applications For Industry**” by Avery Zoch (University of Houston). Throughout this report, the usage of the asterisk indicates the presenter of the paper. References to the presenter in this report is short hand notation for all authors.

During the evening wine and cheese reception participants were treated to six posters covering a wide gamut of color issues. Mark Fairchild chaired this activity. The poster titles were: “**Optimum Saturation as a Measure of Psychological Evaluation of a Colored Image**” by Ken Sagawa, Teruko Takizawa, and Tadashi Kikuchi; “**Reliability of the Bromothymol Blue (BTB) Method for Color in Virgin Olive Oils**,” by M. J. Moyano, F. J. Heredia, M. Alba, E. Hita, and M. Melgosa; “**Temporal Characteristics of Color Discrimination Examined in the Physiological Based Color Space**” by K. Kawamoto, H. Yaguchi, and S. Shioiri; “**Identification of Color Appearance in Varying Lighting Conditions**” by Monica Billger; “**Color Appearance Under Different Surround Conditions**” by Yasuhisa Nakano, Takuya Yohshina, Ken-ichio Suehara, and Takuo Yano; and “**Computer Synthesis of Spectroradiometric Images For Color Imaging Systems Analysis**” by Garret Johnson and Mark Fairchild.

Interest Group I topic for the Saturday morning session was “Color Difference and Color Appearance.” The need for a universal color appearance space is actively being studied by CIE. Color management systems need a universal color management standard for the Internet and digital television. The session was co-chaired by Michael Brill and Helen Epps. The talks were: “**The CIECAM97s Color Appearance Model**” by Mark Fairchild (Rochester Institute of Technology); “**Quantitative Testing of Color Appearance Models Using the Munsell Renotation Data**” by David Wyble* and Mark Fairchild (Rochester Institute of Technology); “**Towards an Improved Uniform Color Space**” by Rolf Kuehni* (Dystar) and Scott Burns (University of Illinois at Urbana-Champaign); “**New Color Effects Related to Retinal Organization**” by C. McCamy (Consultant in Color Science); “**Lightness, Whiteness, Blackness, and Chromaticness in Chromatic and Achromatic Colors**” by Osvaldo da Pos*, S. Masin, and L. Bertinello (University of Padua); and “**Basic Color Terms and Basic Color Categories**” by C. Hardin (Syracuse University).

The Interest Group III theme was “Global Culture and Color”. It was co-chaired by Shashi Caan and Curt Fritzeen. The two talks were: “**Education Color '99: A Preview**” by Jean Bourges (Bourges Color International); and “**Color, Commerce and Cash**” by Keith Hoover (Polo/Ralph Lauren).

A special Maryland treat was in store for all as we ventured to the Baltimore Waterfront. We were transported by water taxi to Captain James' Crab House. Most consumed prodigious amounts of highly seasoned Maryland Blue Point Crabs washed down by refreshing drinks. A few less venturesome eaters consumed Maryland Fried Chicken. A fun and filling evening was had by all.

Sunday, October 6, a day-long joint symposium with OSA and ISCC. The joint symposium was organized by Mark Fairchild. The presentations were **“Role of Higher Order Mechanisms in Color Discrimination”** by John Krauskopf (New York University), **“Data and Prediction of Color Discrimination”** by Vivianne C. Smith* and Joel Pokorny (The University of Chicago); **“Testing CIELAB-Based Color Difference Formulas”** by Manuel Melgosa (University of Granada); **“Testing Colour Difference Formulae Using New Colour Difference Data Sets”** by M. R. Luo*, S. S. Guan, S. Westland, L. Noriega, and A. Heptonstall (University of Derby and Keele University); **“Measurements of the Surfaces Dividing Opponent-Colors”** by E. J. Chichilnisky and Brian Wandell (Stanford University); **“Is There a Perceptual Color Space?”** by Qasim Zaidi (State University of New York); **“Some Recent Developments in the Evaluation of Small Colour-Differences”** by Klaus Witt (Bundesanstalt für Materialforschung und -prüfung); and **“Industrial Color Difference Equations – Current Initiatives and Future Directions”** by Roy S. Berns.

In addition to the high quality technical presentations, the annual ISCC meeting was held on Saturday, October 3. New officers and directors were installed, and outgoing directors and committee members honored. Lou Graham was presented the ISCC Nickerson Service Award for 40 years of involvement with the ISCC. Graham was the first president of the Color Marketing Group and also past president of the ISCC. Dave Alman was presented the Macbeth Award for significant recent contributions to science and technology. Alman was cited for his work in development of improved color difference formulae through his chairmanship and accomplishments of CIETC 1-29 committee. The complete award ceremony, including citations and acceptance speeches are recorded in the November/December 1998 Edition, Number 376, of the ISCC Newsletter.

Jack Ladson and Arnold M. Service



**AIC 2001 - Rochester, New York
June 24-29, 2001**

The greater Rochester area members of the Inter-Society Color Council have been busily working on planning the ninth AIC Quadrennial Congress for the year 2001. The exact dates for the Congress are Sunday, June 24 - Friday, June 29, 2001. The venue is the Rochester Riverside Convention Center. Three hotels have guaranteed very low rates for the year 2001: Rochester Hyatt (\$119/night) and Four Points Sheraton (\$101/night), both of which are directly connected to the Rochester Riverside Convention Center with walkways and the Crowne Plaza (\$119/night), which is one block away from the venue. We will also offer dormitory accommodation for those who request it.

Our Steering Committee consists of the following members:

Paula Alessi	Chair (pjalessi@kodak.com)
Roy Berns	Fund-Raising Committee Chair (rsbpph@rit.edu)
Geoff Woolfe	Finance Committee Chair (woolfe@image.kodak.com)
Allan Rodrigues	Technical Program Committee Chair (allan.b.rodrigues@usa.dupont.com)
Kevin McGuire	Exhibition Committee Chair (soluxtli@earthlink.net)
David Wyble	Publicity Committee Chair (drwpci@cis.rit.edu)
Robert Chung	Publications Committee Chair (rycppr@rit.edu)
Cathy Daniels	Social Program Committee Chair (daniels@image.kodak.com)
Colleen DeSimone	Meeting Registration & Dormitory Housing Chair (cmd9553@rit.edu)
Karen Braun	Logo Design Chair (kbraun@wrc.xerox.com)

If you are interested in any aspect of the meeting, please feel free to send an e-mail to any of our Steering Committee Members.

Our progress to date can be summarized as follows:

1. The Rochester Riverside Convention Center has been reserved as the venue from June 24 -29, 2001. Our parent organization, ISCC, has provided the deposit to hold these dates.

2. We ran a contest at Rochester Institute of Technology among graphics design students to come up with a wonderful logo and poster for AIC '01. You see the logo at the beginning of this article.

4. We have derived a timeline for planning major events between now and the meeting in 2001. Our first milestone was design of a logo by spring 1998. We met that first challenge. Our next milestone is to prepare the address list for the first circular in May of 1999. The ISCC Office will be the Office of the Secretariat.

5. Kodak has kindly donated \$5000 as seed money to be used for whatever startup costs we incur. We will put this in a bank account so that it can begin to earn interest.

Many thanks go to President Mitsuo Ikeda for answering all our questions along the way regarding the planning of the Kyoto meeting. We are trying to model our meeting after the Kyoto one, since we all felt that the Kyoto meeting was the best AIC Congress to date.

Respectfully submitted,
Paula J. Alessi, AIC 2001 Steering Committee Chair
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CIE Division 8 Formed

The International Commission on Illumination, abbreviated as CIE from its French title *Commission Internationale de l'Eclairage*, has formed a new division. The primary focus of this new division, Division 8, will be issues relating to Image Technology. The events leading up to the formation of this new division, and the organization and structure of Division 8 are summarized. This material is drawn from the "Standards Update" column of the October 1998 and December 1998 issues of the *IS&T Reporter*, a publication of the Society for Imaging Science and Technology.

Background

Over the last several years JTAG2, the ISO/IEC Joint Technical Advisory Committee for Image Technology, has sponsored three international meetings of "color experts" involved in imaging in both industry and standards organizations. The last two of these meetings were organized by the CIE, one in Vienna, Austria in March 1996 and the other as part of the November 1997 IS&T/SID Fifth Color Imaging Conference in Scottsdale, AZ.

Each of these meetings has highlighted the critical role that color and appearance issues play in the current world of imaging. A key goal of each meeting has been to provide guidance both for the color experts and CIE Technical Committees on important research subjects and areas needing standardization.

At the Scottsdale meeting there was considerable discussion of the role of standards groups, the role of the CIE, and the role of various user groups. A key issue raised was that the color experts in CIE and the standards and industry participants in application groups may not be talking to each other enough to ensure that the color experts understand the needs of the color users in the application groups. Another issue that heightened the urgency of the current situation, with respect to color standards, was the identification (in a paper by Newman and Stokes which focused on RGB) of the increasing proliferation of similar standards with differing requirements. Often these interfere with, rather than help, consistency and predictability.

Three possibilities were suggested, in discussing the possibilities available to ensure better coordination around color related issues.

1. Create joint committee activities around specific issues.
2. Look for a volunteer (committee) to host meetings and discussions around specific topics.
3. Look to CIE to provide broad co-ordination in the area of color and color standardization

It was pointed out that the perspective of the co-ordinating group often has a strong influence on the direction taken and the kind of solution achieved. This is particularly important in the area of color, because application groups often have a much narrower focus than the CIE. This led to discussions of the need for a new CIE Division to specifically deal with issues of image technology (which had also been previously discussed at a CIE board meeting).

This suggestion received strong support, and the view held by many was that this would provide a single focus for standardization of color issues, and a single focal point to

which industry and standards groups could turn for co-ordination and assistance in this area.

The Creation of a New Division

Based on this show of industry support, Dr. Alan Robertson (National Research Council of Canada), a CIE Vice President, drew together an ad hoc committee and prepared a report to the June 1998 CIE Board of Administration which

“... recommended that the CIE form a new Division with the following Terms of Reference: To study procedures and prepare guides and standards for the optical, visual and metrological aspects of the communication, processing, and reproduction of images, using all types of analogue and digital imaging devices, storage media and imaging media.”

The CIE Board of Administration accepted the recommendation and agreed to proceed to form a new Division (8). This required formal approval by the National Committees, which was completed in late fall 1998. The Board agreed that the Division could start work immediately on an interim basis.

Todd Newman (Canon Information Systems) was appointed as the first Director of the Division. To assist Todd, there will be three Associate Directors, a Secretary and an Editor. Michael Pointer (The Tintometer Limited), Michael Stokes (Hewlett Packard), and David McDowell (Eastman Kodak Company) have been appointed as Associate Directors. These positions are interim pending National Committee ratification.

A planning meeting of Division 8 was held in Baltimore, September 29, 1998. This was an open meeting and anyone interested was invited to attend.

What Will the New Committee Address?

Prior to ratification of the new Division, much thought was given to the type of work needed. Out of this, a general framework took shape and four general areas of work evolved. Although the five Technical Committees formed did not initially cover all of these topics, they do represent direction and future projects.

Communication : Archival, Active, Standard color spaces, Device profiles, Aesthetic intent.

Visual: Viewing conditions, Appearance modeling, Evaluation, Measuring geometries, Vision-based imaging models.

Processing: Gamut mapping, Spectral, Accuracy requirements.

Reproduction: Device characterization, Media-specific adjustments.

How Will CIE Division 8 Operate?

Within CIE Divisions, the actual technical work is accomplished in Technical Committees, consisting of small groups of experts. These are established to work on single subjects. The intent is that such committees are to concentrate on one specific topic and render a report to the Division for further discussion and approval, within a reasonable period of time, after which the committee will be disbanded.

It has been recognized that many of the experts who could best contribute to the work of the new division do not have the time or corporate support to travel extensively. Yet it will take frequent conversations within the Technical Committees in order to reach decisions. Therefore, it is hoped that the bulk of the TCs' work can be done by E-mail, and other electronic means, with infrequent physical meetings. This approach has worked well for other groups. It allows people to read, think, and respond to discussion at their convenience, yet provides the "face time" that is often essential to making compromises.

A key issue will be the cooperation with, and support of, the existing Divisions within the CIE, other ISO and IEC Technical Standards Committees, industry groups and consortia. The specific procedures required to develop the necessary cooperative efforts are yet to be developed, but are a critical part of the overall vision of Division 8.

Where Does Division 8 Fit in the CIE?

Many of us are not as aware as we should be of the CIE, its objectives, and its organization. The CIE is an autonomous organization. It was not appointed by any other organization, political or otherwise, but has grown out of the interests of individuals working in illumination. Since its inception, the CIE has been accepted as representing the best authority on the subject and as such is recognized by the ISO as an international standardization body.

The CIE is a technical, scientific and cultural non-profit organization whose objectives are:

1. To provide an international forum for the discussion of all matters relating to the science, technology, and art in the fields of light and lighting and for the interchange of information in these fields between countries.
2. To develop basic standards and procedures of metrology in the fields of light and lighting.
3. To provide guidance in the application of principles and procedures in the development of international and national standards in the fields of light and lighting.
4. To prepare and publish standards, reports and other publications concerned with all matters relating to science, technology and art in the fields of light and lighting.
5. To maintain liaison and technical interaction with other international organizations concerned with matters related to the science, technology, standardization and art in the fields of light and lighting.

It is important to note that in these objectives light and lighting embraces such fundamental subjects as vision, photometry and colorimetry, involving natural and man-made radiations over the UV, the visible and IR regions of the spectrum, and application subjects covering all usage of light, indoors and out, including environmental and aesthetic effects, as well as means for the production and control of light and radiation.

The affairs of the CIE are vested in National Committees, which have the responsibility for decisions on all matters relating to the organization. The composition of the National Committees varies from country to country, but each is required to represent and have the cooperation of all organizations having an interest in light and lighting. An important factor is the willingness and ability of those who represent the various National Committees to participate in and contribute to the technical activities of the CIE. At the present time the CIE comprises 40 member bodies representing countries or geographical regions.

The affairs of the CIE are discussed and decided by the General Assembly, consisting of the Presidents of the National Committees. Between meetings of the General Assembly the administrative responsibility and the technical activities are delegated to a Board of Administration .

Each major subject of interest to the CIE is assigned to one of eight Divisions.

- Division 1: Vision and Colour
- Division 2: Measurement of Light and Radiation
- Division 3: Interior Environment and Lighting Design
- Division 4: Lighting and Signalling for Transport
- Division 5: Exterior Lighting and Other Applications
- Division 6: Photobiology and Photochemistry

- Division 7: General Aspects of Lighting
 - Division 8: Image Technology
- Divisions 1 and 2 are generally seen as focusing on fundamental issues while Divisions 3 through 8 are more involved in applied issues.

The Technical Committees of Division 8

In December 1998 the CIE Board approved the following Division 8 Technical Committees, their terms of reference, and chairs.

TC8-01: Colour Appearance Modeling for Colour Management Applications

Chair: Gary Dispoto (gary_dispoto@hpl.hp.com)

To study, develop and recommend methods for the application of a colour appearance model based on CIECAM97s for use in digital colour management, and to produce clear guidelines for the use of such a model for specific applications. Consideration is to be given to the colour and engineering requirements for open colour management systems.

TC8-02 Colour Difference Evaluation

Chair: Michael Stokes (Michael_Stokes@hp.com)

To study, develop and standardize methods to derive colour differences for images.

TC8-03 Gamut Mapping

Chair: Jan Morovic (J.Morovic@derby.ac.uk)

To study, develop and recommend an optimal solution for cross-device and cross-media image reproduction. This solution will provide a standard procedure to calculate the colour gamut of an image, an imaging system, or its components, and either one algorithm, or a set of algorithms and rules for use in specific applications.

TC8-04 Adaptation Under Mixed Illumination Conditions

Chair: Naoya Katoh (naoya@devd.crl.sony.co.jp)

To investigate the state of adaptation of the visual system when comparing soft-copy images on self-luminous displays and hard copy images viewed under various ambient lighting conditions.

TC8-05 Communication of Colour Information

Chair: Lindsay MacDonald (L.W.MacDonald@ziggy.derby.ac.uk)

To standardise a minimal set of techniques that enable unambiguous and efficient communication of the colour information in images. Two fundamental approaches will be addressed:

The association with the image data of additional data that describes the colour space of the image data. The representation of the image data in a standard colour space.

The standard will also define a minimal set of standard colour spaces that addresses a wide range of imaging applications. Whenever possible, existing standard colour spaces will be used in preference to creating new ones.

More Information

More information concerning the CIE, Division 8, and these new Technical Committees is available as follows:

CIE: <http://www.cie.co.at>

Div 8: <http://www.color.org>

Or you may contact one of the following:

Christine Hermann, CIE General Secretary - ciecb@ping.at
Todd Newman, Director - todd_newman@cisnc.canon.com
Michael Pointer, Associate Director - mrpointer@compuserve.com
Michael Stokes, Associate Director - michael_stokes@hp.com
David McDowell, Associate Director - mcdowell@kodak.com