

ASSOCIATION  
INTERNATIONALE  
DE LA COULEUR

INTERNATIONALE  
VEREINIGUNG  
FÜR DIE FARBE

INTERNATIONAL  
COLOUR  
ASSOCIATION

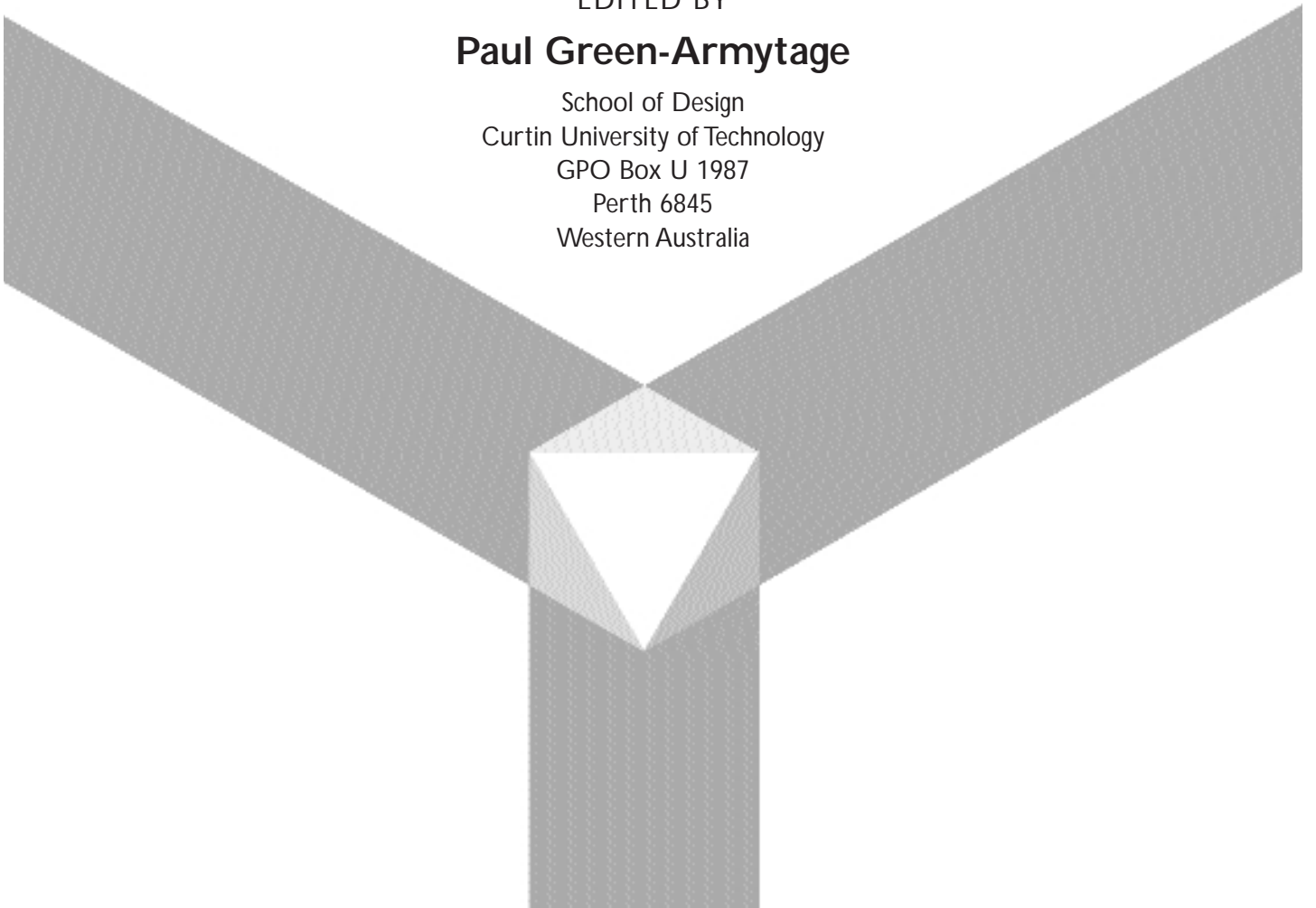
NEWSLETTER  
**2003**

NO. 17

EDITED BY

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# EDITOR'S NOTE

## Special Features:

This issue of the AIC Newsletter contains some special features in addition to the usual reports. I would like to thank all those who have sent contributions, especially José Luis Caivano for preparing the summary history of the AIC and the team of Vera Golob, Slava Jeler and Zoran Stjepanovic for their excellent account of last year's AIC meeting on 'Color and Textiles' in Maribor, Slovenia. The account of the Maribor meeting is included in the report from the Slovenian Colorists Association and this is complemented by a page of 'Memories from Maribor'. The smile on President Paula Alessi's face is a perfect reflection of the delight we felt at such an enriching experience where scientific, social and cultural stimulation were so well combined.

## AIC Deane B. Judd Award:

Another special feature of this issue is the announcement of the winner of the AIC Deane B. Judd Award for 2003. I would like to express my appreciation to those who prepared documentation in support of their nominations for the award and especially to the members of the Award Committee for their very careful consideration of the nominees. See inside for details!

## Acknowledgments:

This year I am again indebted to Marnee Rinaldi for her work on formatting the Newsletter and preparing files for the printer, and I would like to acknowledge Justine-Helen Koles and her colleagues at Curtin Print and Design for their efficiency and the high quality of their printing.

In editing this Newsletter I have made the same kinds of minor changes, re-ordering of the material and addition of headings as last year in order to achieve a degree of visual uniformity. This year again I must apologise if I have misspelt any names and for the fact that some of the specially accented letters do not seem to be available in the programs that I use.

## Upcoming Meetings:

AIC members will be aware that this year's meeting on the topic 'Color Communication and Management' will take place in Bangkok, Thailand, at the beginning of August. Planning by Professor Sakda Siripant and colleagues is well advanced and this promises to be another great event.

Members may also be interested in a meeting planned for 2004 which will complement the Bangkok meeting very well. This is the 'Second European Conference on Color in Graphics, Imaging and Vision CGIV 2004' to be held in Aachen, Germany. Six AIC members are co-organisers of the event.

## Website:

The contents of this Newsletter will be posted on the AIC Website. Our webmaster is Gerhard Roesler. Alternative addresses are:

**[www.AIC-Colour.org](http://www.AIC-Colour.org)**

and

**[www.AIC-Color.org](http://www.AIC-Color.org)**

Paul Green-Armytage  
AIC Vice President

# PRESIDENT'S REPORT

My dear AIC friends, it is hard to believe that it has been a year since we last communicated. So much has happened in the color world and just in case you missed any of it, please enjoy reading the latest breaking news from our member countries in this Newsletter.

Our 2002 AIC year was highlighted by the wonderful AIC Interim Meeting on Color & Textiles in Maribor, Slovenia. We wish to extend our special thanks to the Slovenian Colorists Association for organizing an excellent meeting that was both technically stimulating and socially invigorating as we learned and shared the customs of our Slovenian members. Our special heartfelt thanks goes out to Associate Professor Dr. Vera Golob for organizing the Technical Conference, to Professor Dr. Slava Jeler, the President of the Slovenian Colorists Association and to all the members of the scientific and organizing committees. The meeting was a smashing success with approximately 140 participants from 27 countries contributing 37 oral and 40 poster papers on Color and Textiles.

This year we are all anxiously awaiting the AIC Midterm 2003 Meeting on Colour Communication and Management to be held in Bangkok, Thailand from August 4–6. This meeting will feature five technical sessions with invited papers, contributed oral and poster papers, one symposium, exhibition displays and the Judd Award presentation and lecture. The Color Group of Thailand has been busily planning this meeting for three years. Our AIC Executive Committee member, Associate Professor Dr. Aran Hansuebsai, the conference secretariat, has been working very hard with the organizing committee to arrange a very exciting meeting for all AIC members to enjoy.

For the first time in AIC history, we will be holding a General Assembly at the Midterm Meeting. Our former President, Professor Mitsuo Ikeda, suggested that we may benefit from having a General Assembly every two years so that we could communicate more often among our members. This General Assembly is your meeting so please don't miss this opportunity to come and share any information with your AIC colleagues and the AIC Executive Committee. Nothing is more important than always keeping the lines of communication open!

The highlight of the AIC 2003 Midterm Meeting will be the presentation of the coveted Judd Award. We are proud to announce that this year's 2003 AIC Judd Award recipient will be our former AIC President, Professor Mitsuo Ikeda. It will be truly a pleasure for

me to present him the Award. I have looked up to him throughout my time with him mentoring me in the AIC EC and in the CIE Division 1 activities. His dedication to his students and to the international color organizations has been a unique contribution that has touched the entire worldwide color community. Please make it a point to attend the Award Ceremony and hear Professor Ikeda give a tutorial acceptance speech! For more information on the AIC 2003 Midterm Meeting, please visit the website at:

<http://www.colorgroupthai.com>

For the year 2004, an invitation has been received from the Associacao Brasileira da Cor. Please stay tuned for more to come on the 2004 AIC Interim Meeting. Finally our 10th Congress will be held in Granada, Spain in the year 2005. The Spanish Color Committee (Comité Español del Color) is organizing it. They have already begun their work, which means that this Congress promises to be the best ever.

I am proud to say that the first goal for my AIC presidency has been fulfilled. Thanks to Dipl.–Ing. Frank Rochow and Dr. Gerhard Roesler for creating the AIC website at [www.aic-colour.org](http://www.aic-colour.org) or [www.aic-color.org](http://www.aic-color.org). We are grateful to Dr. Gerhard Roesler for being our web master. It is my vision that this website will promote international color communication across our members.

I am also happy to announce that we now have an AIC observer from India, Ms Suma Lakshman. This is important to AIC membership since we lost the Color Association of India as a member many years ago. Our hope is that through Ms Lackshman, the color interest in India will grow and nationalize into one unified group.

I am also thrilled to announce that the Finnish Colour Association has applied for AIC membership and has been approved by the AIC Executive Committee. They are a vibrant new active national organization under the leadership of Harald Arnkil that will contribute to AIC activities in years to come. With their membership, we can proudly say that most of the European countries are AIC members. It is gratifying to see our international membership continue to increase as we meet more color-interested members around the world.

Once again, I look forward to exploring the color frontier together with my AIC friends around the world! Please keep in touch!

Sincerely Yours,  
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## AIC DEANE B. JUDD AWARD



It gives us very great pleasure to announce that the winner of the AIC Deane B. Judd Award for 2003 is Prof. Dr. Mitsuo Ikeda. The following citation has been prepared by Dr. Miyoshi Ayama:

The AIC Deane B. Judd Award is one of the most honorable awards in the fields of color vision, color science, and color technology. This award was created in 1975 to honor the memory of Deane B. Judd. Every two years since, the AIC has carried out a laborious process of selection of the recipients for this award.

It is with great pleasure that I announce Prof. Mitsuo Ikeda as the recipient of the 2003 Judd Award, to be presented at the AIC Meeting in Bangkok, Thailand.

Among the great accomplishments Prof. Mitsuo Ikeda has made throughout his career, his dedicated educational and research contribution to the field of vision and color psychophysics should be addressed first.

In 1971, nearly a decade after he got his Ph.D. from the University of Rochester, New York, he moved to the Department of Information Processing, Tokyo Institute of Technology, TIT, Japan, to become an associate professor and start his educational career. In 1976 he became a professor in his early forties. Before him, there were no professors in Japan who specialized in visual psychophysics from a science and engineering point of view. He needed colleagues, and he brought up his students zealously to let them become mature scientists.

In the early to middle part of the TIT period, his interest was on eye movements for pattern recognition, functional visual field, color vision, and photometry. One of his landmark works then was the publication of a technical report of CIE for spectral sensitivity functions for brightness.

In the last part of the TIT period, he became interested in color appearance mode, which led to further investigations on Recognized Visual Space of Illumination in which he is still carrying out research. During the TIT period, more than twenty of his students won their degree in Dr. of Engineering. He has collaborated with all of his students to publish invaluable papers on visual psychophysics including color vision, color recognition, and photometry.

In 1990, Prof. Mitsuo Ikeda was invited to become a professor at the School of Architecture, Kyoto University. There he introduced a new concept of Recognized Visual Space of Illumination, RVSI to explain various phenomena related to color appearance in visual environments, blowing a new wind to people in the field of architecture.

In 1996, he became a professor of the Department of Photonics at Ritsumeikan University. There he developed the concept of RVSI extensively through many interesting experiments including the field studies of illumination using a living room in his house.

During the Kyoto University and Ritsumeikan University periods, about ten students got their doctorates, and some of those students, including two from Thailand, are continuing to study in the doctorate course at Ritsumeikan University.

It is often said that a good researcher is not necessarily a good educator at the same time, but Prof. Mitsuo Ikeda is an exception to the rule. Splendid research ideas always came to his mind and then he constructed ingenious and precise apparatuses to realize the ideas with his students. He taught them psychophysical procedures in a bottle-fed manner doing the experimental sessions together. He always stimulated, encouraged and inspired students, who came to have a strong interest and pleasure in studying human sensory and cognitive processes. All of his former students are active in related fields in Japan, and many of them are also active internationally, especially in the AIC.

Another fact worth noting here is his dedicated contribution to the AIC activities especially to an expansion of the AIC in Asian countries. He was the chairman of the steering committee of the 8th AIC Congress held in Kyoto in 1997 and led the congress to a great success. He served as the Vice-President of AIC from 1993 to 1997 to help Prof. Ronchi, the AIC President. He became the President in 1998 and completed his term at the end of 2001. He took it as his mission to evangelize about AIC in Asian countries as the president coming from Asia.



By that time, his mission in Japan was already accomplished. The Japanese organization of the AIC is the Color Science Association of Japan, CSAJ. Prof. Ikeda served as a board member of the CSAJ many times and contributed a great deal to the development and evolution of the association. There have been many papers presented by Prof. Ikeda's former students and their students, i.e. Ikeda's grand children, in every annual meeting of CSAJ. Some of his former students play important roles in the CSAJ. On the present board of CSAJ, there are four members coming from his school beside Prof. Ikeda himself.

During his vice presidency and presidency of the AIC, he often visited Korea and encouraged colleagues in that country to join the AIC as members. He succeeded, and Korea sponsored the AIC Interim Meeting of 2000 in Seoul. It was a fruitful and precious conference. He then started to visit Thailand and encouraged their people to organize a national committee of color. They organized the Color Group of Thailand and joined the AIC. The group is now organizing the AIC Midterm Meeting in Bangkok where Prof. Ikeda will receive the gold medal.

Miyoshi Ayama  
Information and Control Systems Science  
Graduate School of Engineering  
Utsunomiya University

# REPORT OF THE SECRETARY/TREASURER

Dear members and observers!

In the last year 2002 the AIC held its Interim Meeting in Maribor, Slovenia. During this meeting the AIC Executive Committee met. Besides decisions on the usual business, we had to start discussions on how the AIC can provide better services to its members. I explained from the point of the Secretary/Treasurer that to do so, the AIC will have to take action to maintain a financially healthy condition for the future. At the moment, the balance between income (about US\$ 3.500 in a two year's period) and expenditures (about US\$ 3.900 in a two year's period, including Judd Award) is negative. The expenditures would even be much higher if we could not count on Curtin University, Perth and Chulalongkorn University, Bangkok to have the Newsletter printed and shipped at very low cost, as well as on the German Society of Colour Science and Applications (DfwG in the DVF) sponsoring and maintaining the AIC website. This means that the AIC is surviving simply by using its assets. Within the next quadrennium a revision of the membership/observer-dues scheme must take place to keep the AIC running and make the AIC ready for coming challenges.

I would like to thank John Hutchings and Tomas Hård for auditing my balances in time for the Maribor meeting. The compiled data of the AIC account 2001, as well as the Auditor's Reports are included.

Some final requests to all of you:

- Please keep the Secretary/Treasurer informed on all changes within your organizations.
- Inform the Secretary/Treasurer if and how you want your contact data, including email address and website, posted on the AIC website.
- When transferring your membership dues, please note your country on the transfer form.
- Send information on your organization's activities to our volunteer webmaster Dr. Gerhard Roesler (roesler\_gerhard@t-online.de) preferably as .pdf or word-files. Also, all information which he can use to create direct links to your website from the AIC website will be appreciated.

I am looking forward to seeing most of you in Bangkok.

Frank Rochow  
AIC Secretary/Treasurer

## Compiled Data of AIC Account 2001

### Opening Balance January 1st, 2001:

UBS	11,716.32	CHF
Cash	418.62	CHF
<b>Total</b>	<b>12,134.94</b>	<b>CHF</b>

### Income 2001:

UBS	2,213.95	CHF
Cash	469.03	CHF
<b>Total</b>	<b>2,682.98</b>	<b>CHF</b>

### Expenditure 2001:

UBS	6,919.00	CHF
Cash	37.80	CHF
<b>Total</b>	<b>6,956.80</b>	<b>CHF</b>

### Closing Balance December 31st, 2001:

UBS	7,011.27	CHF
Cash	849.85	CHF
<b>Total</b>	<b>7,861.12</b>	<b>CHF</b>

### Breakdown of transactions 2001:

Income from members and observers:	2,301.93	CHF
Bank fees, interest, copies, etc:	-291.35	CHF
Postage, letterheads	-768.20	CHF
Newsletter	-1,773.95	CHF
Judd Award	-3,730.90	CHF

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Audit report


AIC 2001-01-01 – 2001-12-31

I have copies of the AIC accounts, bank statements and additional comments, relating to the twelve months period ending on December 21, 2001.

I have found the documentation to be in very good order, easy to follow and the USB Bank Base account statements (CHF 7011, 27) to agree with the records of income and expenditure for the period mentioned.

The cash balance has not been possible to check by me in person but there are no known reasons to believe it is not correct.

Yours Sincerely,  
SCANDINAVIAN COLOUR INSTITUTE AB

  
Tamas Hård  
Manager Director

## AIC ACCOUNT 2001 CONTINUED

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15<sup>th</sup> August 2002

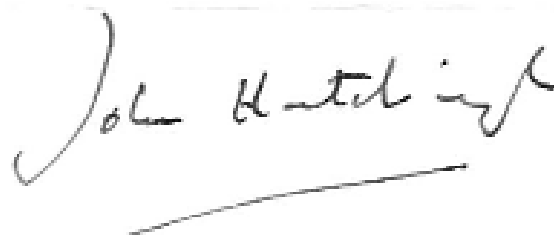
Dear Frank,

AIC Accounts for year ending 31<sup>st</sup> December 2001

I have copies of the AIC accounts and bank statements relating to the twelve months ending 31st December 2001.

I am happy to report that the UBS Bank Basel account statements agree with the records of income and expenditure for the above period. The closing balance in the UBS account at 31<sup>st</sup> December 2001 is 7011.27 CHF. For obvious logistical reasons I am unable to confirm the cash balance of 849.85 CHF shown in the cash account.

Yours sincerely,



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# MEMORIES FROM MARIBOR

## AIC Color 2002 SI – Color and Textiles

AIC Color 2002 SI was an outstanding success. The theme ‘Color and Textiles’ was particularly appropriate for an AIC meeting since it is a specialised topic but one which could bring together experts from the fields of colour science and colour design in a constructive atmosphere. A detailed account of the conference is included in the report from the Slovenian Colorists’ Association.

Maribor is a beautiful city in a beautiful country with a rich cultural heritage. The highlight of the social program was the Festive Slovenian Evening. We were entertained by the folklore group wearing traditional costumes and performing traditional dances. The leader of the group presented AIC President Paula Alessi (pictured right) with a magnificent silk scarf and showed her how to wear it.

On the afternoon of the final day there was a tour to the nearby town of Ptuj, the oldest in Slovenia. We posed for a group photograph (pictured below) outside the gates of Ptuj castle.



# AIC 2003 BANGKOK

## Color Communication and Management

### Invitation Address:

The AIC Organizing Committee will be holding an Interim Meeting in Bangkok, Thailand from August 4-6, 2003. We are honored to host this event and look forward to welcoming you to our country. The theme is rapidly changing technology of color communication and management. All of us are aware of the extensive amount of research resulting in a variety of new products to have some idea of the rapid pace of change of the technologies used to improve our ability to manage color.

We expect this Interim Meeting to provide the essential solid foundation needed to prepare for the next scheduled meetings of the AIC.

Bangkok is one of the most exotic and exciting cities in the world and a perfect place to hold such an event. The numerous Museums, Temples, and Shopping areas are easily reached by the recently finished sky train. This elegant light rail system has been called one of the most advanced public city transportation systems in the world.

We look forward to seeing you all.

Professor Sakda Siripant  
Chairman of AIC 2003: Bangkok

### Technical program:

The Conference covers many subjects in the field of color communication, applied and theoretical technology and design. An important goal of the conference is to create a verbal and written bridge between color scientists and the many users of color who work with human emotional responses to different colors. This will be accomplished through formal seminars and the largely unplanned and informal dialogues that take place when a group of professionals meet in a relaxed atmosphere.

### Program Schedule:

#### *Sunday 3 August*

2.00 pm Pre-registration  
5.00 pm Dinner Reception at Chulalongkorn University: Thai House

#### *Monday 4 August*

8.00 am Registration  
8.30 am Opening Session and Special Lecture  
9.30 am Session I- Colorimetry and Color Vision  
10.30 am Break  
11.00 am Session I continued  
12.30 pm Lunch  
1.30 pm Session II- Color Management  
3.00 pm Break and Poster Session

4.30 pm Session II continued  
7.00 pm Welcome Dinner Banquet

#### *Tuesday 5 August*

8.00 am AIC General Assembly  
9.00 am Session III – Color Imaging  
10.30 am Break  
11.00 am Session III continued  
12.30 pm Lunch  
1.30 pm Session IV Color Communication  
3.00 pm Break and Poster Session  
4.00 pm Session IV continued  
5.00 pm Session V – Color Environment Design  
7.00 pm Buffet Dinner

#### *Wednesday 6 August*

8.00 am Session V continued  
9.00 am Special Lecture by Judd Awardee  
10.00 am Session VI – Color Emotion  
10.00 am Symposium – Color Perception of the Elderly  
10.30 am Break  
11.00 am Session VI continued  
11.00 pm Symposium continued  
12.30 pm Closing Session  
2.00 pm Excursions

### Exhibition:

In addition, an exhibition featuring the latest developments in Color Technology will be held in the event. Displays will include:

- Colorimetry tools and instruments
- Image processing/ software
- Books & publications etc.

### Website:

<http://www.colorgroupthai.com>

### Conference secretariat:

For further information about AIC 2003 Meeting – Bangkok, please contact the secretariat :  
Associate Professor Dr. Aran Hansuebsai  
Department of Imaging and Printing Technology  
Faculty of Science, Chulalongkorn University  
Bangkok, Thailand 10330  
Tel: (66)-2-2185588-9  
Fax: (66)-2-2089439  
Email: [aran@sc.chula.ac.th](mailto:aran@sc.chula.ac.th)

# CGIV 2004

## Second European Conference on Color in Graphics Imaging and Vision

Six AIC member organisations are involved in the organisation of this conference. They are the Comité Español del Color, the German Society of Color Science and Applications (DfwG in DVF), the Hungarian National Colour Committee, the Swedish Colour Centre Foundation, the Colour Group (Great Britain), and the Colour Group of the South African Optical Society.

The conference is to be held at the technology centre AGIT in Aachen, Germany, April 5–8 2004. The aim is to provide a forum for new research in colour and to facilitate the exchange of ideas between researchers from universities and industry.

### Technical Program Overview:

#### *Color Science*

- Colorimetry
- Color Appearance Models
- Color Measurement

#### *Color in Computer Graphics*

- Illumination Models
- Rendering

#### *Color in Computer Vision*

- Visual Inspection
- Color Constancy
- Color Object Recognition
- Image Retrieval

#### *Color in Image Processing*

- Encoding/Compressing
- Filtering (Morphology)
- Enhancement/Restoration

#### *Image Scanning, Display and Printing*

- Color Management
- Calibration
- Gamut Mapping
- Digital Photography

#### *Multispectral Imaging*

- Encoding
- Error Metrics
- System Performance
- Novel Technologies

#### *Visual Response*

- Psychophysics
- Image Quality Assessment
- Usability

#### *Industrial and Other Applications*

- Color and Surface Inspection
- Color in Medical Systems
- Standards and Terminology
- Calibrations
- Instrument's Performance

#### **Website:**

[www.imaging.org/conferences/cgiv2004/](http://www.imaging.org/conferences/cgiv2004/)

# ARGENTINA



## Grupo Argentino del Color

### ArgenColor 2002, 6th Argentine Color Congress:

ArgenColor 2002, the 6th Argentine Color Congress was organized by the Argentine Color Group and the National University of Rosario, and was held in the School of Architecture, Planning and Design of that university, in Rosario city, during September 9–12, 2002. Participants in the organizing committee were professors and researchers from the School of Physical Sciences and Engineering, the School of Architecture, Planning and Design, and the School of Humanities and Arts, from Rosario University, as well as the School of Architecture of Buenos Aires University, the School of Architecture of Córdoba University, the School of Fine Arts of La Plata University, and the National Council for Research. The National Agency for Scientific and Technological Promotion provided some funds for the organization.

In total, 351 persons attended the meeting, and 96 works were presented, distributed as follows: 7 plenary lectures, 66 oral papers, 22 posters, and one workshop. In addition, an exhibition of paintings by Raúl Lozza (in the Castagnino Museum), and an artistic performance by two Rosarian artists were also organized as part of the meeting. Ten different countries were represented in the congress: Argentina, Belgium, Bolivia, Brazil, Chile, England, Hungary, Italy, Mexico, and Spain.

The plenary lectures were delivered by José Luis Caivano and Mabel López (Buenos Aires, Argentina), on "Chromatic rhetorical figures in visual images"; Francis Edeline (Liège, Belgium), on "Field and mediation in colour usage"; Roberto Daniel Lozano (Buenos Aires, Argentina), on "Participation in scientific meetings and congresses on color: why?, for what?"; Raúl Lozza (Buenos Aires, Argentina), on "Structural theory of color: a system for concrete painting, with implications on the environment"; María L. F. de Mattiello and L. Salvatore (Buenos Aires, Argentina), on "Variations of color in different landscapes along the year"; Byron Mikellides (Oxford, England), on "Colour theory & practice in architecture

2002—A longitudinal perspective"; Antal Nemcsics (Budapest, Hungary, presented in absence of Prof. Nemcsics), on "Coloroid, color system of color environment design".

The topics of all presentations covered the following fields: philosophical matters, color in literature, humanities, color and music, fine arts, architecture, urban landscape, graphic design, visual communication, industrial design, interior design, textile design, color in film and video, social sciences, engineering, industrial technology, mathematics, physics, optics, psychophysics, physiology, vision, lighting, ethnography, cartography, psychology, education, semiotics, and aesthetics.

The meeting was organized in a single oral session during the morning, and two parallel sessions in the afternoon, with plenary sessions for the invited lectures. There was also space for the posters and the workshop. The abstracts of lectures, papers and posters are on the Internet, at [www.fadu.uba.ar/sicyt/color/congrgac.htm](http://www.fadu.uba.ar/sicyt/color/congrgac.htm), and were also published on paper in a book of abstracts. The Proceedings, containing the full papers, are now in preparation, and will be published during 2003.

### New honorary members, and officers of the GAC:

At the general assembly that is held every two years in coordination with the congresses, two new honorary members of the Argentine Color Group were appointed, and half the membership of its Executive Committee was renewed by election. The new honorary members are:

Raúl Lozza (Argentina)  
John Hutchings (England)

As a result of the election, the officers of the Argentine Color Group are now:

José Luis Caivano	(president to 2004)
María L. F. de Mattiello	(vice-president to 2006)
Rodrigo Amuchástegui	(secretary to 2004)
Cristina Manganiello	(under-secretary to 2006)
Laura Quaintenne	(treasurer to 2006)
Ingrid Menghi	(vice-treasurer to 2004)
Omar Burgos	(vocals to 2006)
Marcela Murgia	
Mauricio Rinaldi	
Andrea Pappier	(vocals to 2004)
Hugo Sinelnicof	
Liliana García Ferré	
Roberto Daniel Lozano	(auditors)
Jorge Sánchez	
Diana Varela	

# ARGENTINA CONTINUED

## Publications:

*GAC revista* (journal and newsletter). The following issues were published in 2002: Nr. 13 (April), and 14/15 (August/December), with 24 and 28 pages, respectively. *GAC revista* is printed in 1,000 copies and distributed among GAC members, AIC national member organizations, some libraries, and other interested people. We invite other AIC member organizations to send their newsletters in exchange, and color researchers to send papers for publication.

*ArgenColor 2000, Actas [Proceedings of the 5th Congress]*, compiled by J. Caivano and R. Amuchástegui (Buenos Aires: GAC and La Colmena, 2002), 569 pages. With 109 papers, divided in three sections: 1) color in art & culture; 2) color in architecture & design; 3) technology, systems and color vision.

## Other activities:

*Color Day at the Konex Foundation*: Buenos Aires, December 13, 2002. With lectures by Mónica Esper et al., Andrea Pappier, Paulina Becerra, Ana Fontana & Nora Matías, José Caivano, Mabel López, Mora Chague et al., Marisa Mattiello et al., María Positieri et al., Marcela Rojas, Alejandra Gaudio et al., Rodrigo Amuchástegui, Pablo Lucero, María Luisa Punte, Mauricio Rinaldi, Marcela Römer, Cristina Manganiello, and Raúl Lozza.

## Library:

The GAC has a library, used by its members and other interested people. At present we have around 250 books, 61 collections of periodicals (including the complete collection of *Color Research and Application*, and collections of newsletters from AIC member organizations, among others). A Word file with the detailed holdings of the library is available on request. We accept donations and encourage the exchange of publications.

Grupo Argentino del Color, SICyT-FADU-UBA, José Luis Caivano  
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Email: [jcaivano@fadu.uba.ar](mailto:jcaivano@fadu.uba.ar)  
Internet: <http://www.fadu.uba.ar/sicyt/color/gac.htm>

# AUSTRALIA



## Colour Society of Australia

### Activities:

The year 2002 was one of intermediate activity for The Colour Society of Australia, as it was the year between our biennial conferences. However the individual State committees have been busy running successful monthly or bi-monthly events for members.

The New Zealand Division, inaugurated during 2002, has continued to function well and we are glad the Queensland Division has been reinstated. We congratulate those who have striven and achieved this. Recently renewed interest has come from Tasmania.

More activity has occurred resulting from the Colour Education Forum which followed the "Colour In Focus" Adelaide Conference, with the production of an initial document suggesting who should know what about Colour. A subsequent Colour Education Forum is planned to be held at the next Biennial Conference in Australia

The Victoria Division are busy planning the 2003 Biennial Conference for Melbourne October 10 & 11th. An initial Call for Papers was circulated in the November 2002 issue of the Society's journal *Spectrum*, Vol. 16 No. 3. We eagerly await full details.

### Executive Committee:

The National Executive of The Colour Society of Australia now resides in Sydney. The President is Ms. Annamarie di Cara (NSW), President Elect Mr. Derek Grantham (Vic), National Secretary Mr. Nick Harkness and National Treasurer Mr Bryan Powell with Mrs. Margaret Pope joining the Executive as Membership Officer. Dr Ken Pidgeon is Past President.

### The Society:

The Colour Society of Australia was inaugurated in 1987 and has Divisions in New South Wales, Victoria, Western Australia, South Australia and Queensland.

The membership is drawn from people whose work and interests involve colour. Our objectives are:

- Provision of a forum on colour and its application in science, industry, the visual arts and education.
- Promotion of colour consciousness, both within colour related spheres and in the wider community.
- Fostering of international collaboration in colour.
- Provision of avenues for the acquisition of colour information for all members of the community.
- Encouragement and promotion of research into all aspects and applications of colour.

### Publications:

*Spectrum*, the Journal of the Colour Society of Australia, is published 3 times a year. It contains information about events and developments within the Society and the international colour arena, as well as including the texts of papers delivered at the national conferences and divisional meetings and encourages the submission of original material. Significant improvements to its appearance have occurred with the provision of Colourful Covers.

### International links:

We wish to interact more with overseas people who are venturing 'down under'. We have the ability to host visitors to each of the states, and are keen to foster more movement of colour knowledge this way. If you are planning to visit, and have something relevant to say about Colour, then please make contact with me.

We are delighted that one of our Past Presidents, Mr. Paul Green-Armytage, has been elected AIC Vice President, and offer him every possible support and encouragement.

Ken Pidgeon  
Past National President  
The Colour Society of Australia Incorporated  
4 Morning Glory Avenue  
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# REPUBLIC OF BULGARIA

## Colour Group – Bulgaria

The national association 'Color Group – Bulgaria' is a non-governmental organization working in the field of color and color science in Bulgaria. Specialists working in the domain of color measurements and instrumentation and laboratory research founded Color Group – Bulgaria in 1981. In the following years, the Group was enlarging the area of its scientific and applied activities, mainly by attracting and involving more and more specialists working in the various fields of color science. Today, there are physicists, chemists, painters, designers, architects, restorers, art critics and experts, etc., amongst them, which make the Group's activities interdisciplinary. The main purpose of the Group is the unity of colorimetry and visual applications of colors.

## Objectives:

The main goal of Color Group – Bulgaria is to work in the area of color science in its various manifestations, and to popularize scientific achievements to a wider and wider public. The priorities of the Group's members, along with their research activities, are in the practical implementation of their results in introducing new products and technologies to industry. At the same time, the adaptation of the newest scientific achievements in educational systems, at any level, is of crucial interest. Besides their lecturers' activities, the Group's members are included in authors' collectives and commissions when programs for educational systems are established, and in lecturers' courses at high schools.

## Meetings:

In 2002 Color Group – Bulgaria organized and held four national conferences in the field of color measurement and instrumentation, history and theory of colors, and color science. In July 2002 Color Group – Bulgaria took part in the organization of the students' competition for color projects during the national *plein-air* for young artists in the framework of the International Folklore Festival in the city of Veliko Tarnovo, together with the University of Veliko Tarnovo 'Saint Cyril and Saint Methodius'.

Members of Colour Group – Bulgaria, presented papers at the International Conference of AIC 'Color and Textiles' in Maribor, Slovenia.

In October lectures were organised on 'German Science of colour' and 'Colours of Dresden – before and after flood' by ing. Ekart Bendin from the German

Color Society. This activity was realized with support and in collaboration with the Goethe Institute – Sofia.

## Exhibition:

A team of members of Colour Group–Bulgaria—architects and art historians (Dr. arch. D. Zeleva, arch. D.Nicolaidu, arch. B.Viana, Dr. S.Lozanova, Dr.B.Ivanova, M.A. R. Gueleva-Tzvetkova) realised a scientific project and presented an exhibition 'Sofia in images' in Sofia, Bulgaria and Pamplona, Spain. During 2003 the same exhibition will be presented in Austria and Russia.

## Publications:

In 2002 Color Group – Bulgaria edited the Proceedings of the traditional International conference 'BALKANCOLOR 2001 – colors in all directions', by Visia design studio, Sofia, (2003). The full text is 112 pages, with full color illustrations and graphic appendixes. This is available on CD. At the beginning of 2003 the Group published issue 9 of its periodic 'Bulletin of Color Group – Bulgaria', in which the newest scientific findings and artistic events in the field of color and color science were related.

## New initiatives:

The newest initiatives of the Group include the design of the Group's website, and the organization of national conferences in the field of colorimetry, industrial application of colors and colorants, history and theory of colors. We prepared a project in collaboration with our colleagues from France which will take place in Sofia in the spring of the 2004.

## Committee:

At March 26, 2003 the General Assembly of Color Group – Bulgaria was held, where changes in the Presidency of the association, consisting of a President, a Secretary, and five members, were approved. Mr. Krassimir Krastev was elected President of Color Group – Bulgaria. The Secretary of the Group, is Mrs. Margarita Ivanova Nakova.

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# FRANCE

## Centre Français de la Couleur

### The Society:

Founded in 1976, the Centre Français de la Couleur is an interdisciplinary association which works to develop interest in the various aspects of colour, and which favours exchanges among its members about such matters.

### Publications :

*Primaires*, an internal newsletter for members. Each issue contains news related to colour events, meetings, publications, CFC projects, and often original papers or analysis related to colour.

### Meetings:

CFC actively participates in a 'Spring Colour School', developed by OKHRA (A cultural organisation involved in maintaining traditional knowledge and ancient industrial equipment in the field of ochres and applied pigments), in co-operation with C2RMF (Research and Restoration Center of the French Museum). This co-operation started in 1999 and each year has given a 4-days tutorials centred on the colour of materials: general and perceptible (2000), physical aspects (2001), chemical aspects (2002), metals (2003). This year the Spring Colour School enjoyed the participation of members from the University of Pierre et Marie Curie (Paris). The school becomes also this year one of the CNRS interdisciplinary schools. The tutorials (ISBN 2951535317), written in French, are available at the bookshop of the Conservatoire des ocres et pigments appliqués, route D104, 84220 Roussillon. The program and the abstracts can be downloaded from the CFC webpages.

### Other Activities:

CFC is involved with CIE technical committees, such as colorimetry, standards, colour differences, terminology. CFC is working with other organisations such as Club Photoshop. CFC has an active group working on the vocabulary of terms related to colour. CFC participates in the direction and foundation of the Research Group on 'The colour of materials with visual effect' (X-chrome materials and media, photonics, biomimetism, structural colors, etc.). This starting structure (GDR-CNRS) involves about 20 laboratories from universities, high schools of engineers and important companies (e.g. Rhodia, Saint-Gobain). Supported by CNRS for a period of 4 years, this research group will hold its first meeting in June 2003, while a winter school on the 5 internal themes will be

organised in December. A website and mailing list for the GDR-CNRS will be available before summer. CFC also participates in the Programme committee of the 7th Entretiens Physique Industrie for next October (Paris Parc des Exposition). The final programme will be on line in May 2003.

### Standardisation:

CFC is maintaining active liaison with Afnor, the French standardisation organisation and has prepared several standards (for instance X 08-001 Colorimétrie, X 08-014 Espaces colorimétriques pseudo-uniformes CIELAB et CIELUV, X 08-015 Ecarts colorimétriques)

### Website

Our website is at [www.cf-couleur.org.fr](http://www.cf-couleur.org.fr)

### Executive Committee:

Guy Lecerf ,	President
Patrick Callet,	Secretary
Claudette Berset,	Treasurer
Michel Indergand,	Vice-President
Annie Mollard-Desfours	

# GERMANY



## Deutscher Verband Farbe

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## Deutsche farbwissenschaftliche Gesellschaft e.V.

(DfwG) im Deutschen Verband Farbe  
(German Society of Color Science and Application)

President: Dr.-Ing. Gerhard Roesler  
Vice-President: Prof. Dr.-Ing. Bernhard Hill  
Secretary: Dipl.-Ing. Frank Rochow  
Treasurer: Dipl.-Ing. Lutz Grambow

## Website:

[www.dfwg.de](http://www.dfwg.de)

The following Working Groups have been successfully established within the DfwG:

- Color Imaging (Prof. Hill)
- Industrial Color Tolerances (Gerhard Roesler)
- Multigeometry Color Measurement
- Color Science, Standardization

These Working Groups usually meet during the annual DfwG meetings, such as

- Dfwg Jahrestagung 2001, Hagen, October 18 and 19, 2001
- Dfwg Jahrestagung 2002, Ilmenau, October 8 and 9, 2002
- DfwG Jahrestagung 2003, Esslingen, October 9 and 10, 2003

## Deutsches Farbenzentrum e.V.

President: Prof. Dr. Karl Schawelka  
Vice- President: Prof. Dr. Hans Irtel  
Treasurer: Claudia Brinker

## Website:

[www.deutsches-farbenzentrum.de](http://www.deutsches-farbenzentrum.de)

During the last annual meeting 'Farb-Info 2002' the Deutsches Farbenzentrum celebrated its 40th anniversary. A new board has been elected.

- Farb-Info 2001, Sylt, November 10–14, 2001
- Farb-Info 2002, Berlin, November 20–24, 2002
- Farb-Info 2003, Mannheim, October 9–11, 2003

# GREAT BRITAIN

## The Colour Group (Great Britain)

The object of the Group is to encourage the study of colour in all its aspects and to promote the education of the public in the field of colour.

The Group was founded in 1940 as a group of the Physical Society, but in 1960 become an independent organisation open to non-physicists as well as physicists. It was registered in 1961, as a company limited by guarantee, and in 1995 became a registered charity.

The Group generally holds meetings on the first Wednesday of every month from October to May on a very wide range of topics; some topics are revisited at intervals and some meetings are held in conjunction with other societies. There is a strong interest in the Group from the artist community—equally there is always a good attendance from scientists at the more art-orientated meetings!

The Newton Lecture is presented every two years, the next will be in 2003—honouring a distinguished colour scientist. The J M W Turner Medal is also presented every two years, honouring an artist or art historian eminent in the field of colour.

The WDW Travel Awards were instituted by W David Wright and to enable post-graduate students to attend conferences.

The Colour Group receives no government or academic support, apart from the universities who are kind enough to host the meetings by providing meeting places. The Group relies on the members' subscriptions to continue its work.

## Recent Newton Lecturers:

- 1999 Prof John D Mollon, FRS
- 2001 John B Hutchings

## Recent J M W Turner Lecturers:

- 1998 Peter Sedgely
- 2000 Albert Irwin
- 2001 Martin Kemp

## Meetings during 2002:

- **January:**  
*Aspects of Colour Vision* with speakers from: Institute of Ophthalmology, City University, UMIST and Newcastle University.

- **February:**  
*Colour in Food* with speakers from: University of Reading, University of Westminster and University of Oxford.
- **March:**  
*Non-contact Colour Measurement using Camera Systems* with speakers from: VeriVide Ltd, University of Derby, X-Rite Ltd and the National Gallery.
- **April:**  
*Colour in Art* with a number of speakers.
- **May:**  
*Colour in Nature*—a talk by Heather Angel.
- **October:**  
*Postgraduate Meeting* including presentation of the *WDW Awards* with speakers from: University of Ulster, Tate Gallery, University of Newcastle, UMIST and University of Westminster.
- **November:**  
*Colour Vision Defects* including speakers from: Industrial Vision Association, Keele University, City University, Devon and Cornwall Constabulary
- **December:**  
*Hidden Treasures*—A tour of the Royal College of Art Colour Library including a talk by Don Pavey.

## Website

Our website is at [www.colour.org.uk](http://www.colour.org.uk) and we welcome new members from every country, and with any interest in colour.

# HUNGARY

## Hungarian National Colour Committee

### Short History of HNCC (AIC-MNB):

- Since 1953 the Colour Committee has brought together scientific, artistic and industrial experts dealing with colour in Hungary. The Colour Committee organises yearly conferences, the organisational framework being provided by the Hungarian Association of Electrotechnicians.
- Since 1962 experts of the Colour Committee have participated in experiments related to the creation of the Hungarian colour system COLOROID.
- Since 1963 experts from other countries are invited to participate in its conferences.
- Since 1966 Conference Publications have been issued.
- In 1967 observer members were sent to AIC which was established in the same year.
- Since 1969 the Hungarian National Colour committee has been an official member of the AIC. Starting with that year its members have been regular participants and lecturers at AIC Congresses and midterm conferences, and have participated in Working Committees.
- Since 1972 the Colour Committee has organised expert discussions on the COLOROID colour system as it was under construction.
- In 1976 the Colour Committee organised COLOR DYNAMICS 76 in Budapest. This was the Midterm Conference of AIC dealing with colour environment design. There were 330 participants and 89 presentations from 16 countries.
- Since 1980 activities have been conducted within the framework of the Architecture Association. Its experts have been helping to bring it about that the Hungarian Standards Institution qualifies the COLOROID colour system as a Technical Directive.
- In 1981 the chairman of HNCC, Mr. Antal Nemcsics sent a letter to the secretary of the AIC, Mr. A Brockes proposing the establishment of an AIC Study Group on Environmental Color Design.
- In 1982 the Colour Committee organised COLOR DYNAMICS 82 in Budapest. This was the Midterm Conference of AIC dealing with colour environment design. There were 420 participants and 96 presentations from 23 countries. During this conference the AIC Study Group on Environmental Color Design was formed. Activities were conducted from that year on within the framework of the Hungarian Academy of

Sciences as a non-governmental international scientific organisation.

- In 1985 experts from the Colour Committee participated in the creation of the COLOROID colour atlas, published in English, German and Hungarian.
- In 1988 the Colour Committee organised COLOR DYNAMICS 88 in Budapest. This was an international conference dealing with colour environment design. There were 485 participants and 96 presentations from 31 countries.
- In 1992 the Colour Committee, working with the Hungarian National Committee of CIE and the Budapest Polytechnical University, established an International Foundation named 'Light and Colour' to facilitate Hungarian colour research and to establish an International Colour Information Centre.
- In 1993 the Colour Committee organised AIC Colour 93, the 7th Congress of the AIC in Budapest. There were 523 participants and 116 presentations from 34 countries. The International Foundation Light and Colour started a multilingual series of publications dealing with colours.
- In 2002 experts of the Colour Committee participated in specialist committees and provided expertise which provided the basis for the Hungarian Standards Institution to qualify the COLOROID COLOUR SYSTEM as an eurocompatible Hungarian National Colour Standard.

### Activities:

Activities were conducted in 2002 within the framework of plenary sessions and work group sessions. Conferences and exhibitions were organised to spread knowledge related to colours. Members participated in different national and international expert conferences. Help was provided for the co-operation of specialists from different disciplines dealing with colour. The Colour Committee assisted in the operation of postgraduate courses at university level. It has started specialised courses. Its experts participated in the education of specialists working for a scientific degree (Ph.D.) related to colours, in the compilation of colour related textbooks and software.

### Activities cover the following areas:

- Environmental culture and public morale.
- The theoretical base of colour environment design.
- The place of colour environment design in visual culture.
- The colour city.

- Colour qualification and standardisation.
- Colours in preservation of monuments.
- Working tools for colour design, COLOROID colour atlases, colour samples, software for design and conversion between colour systems.
- Provision of uniform colour notation for products of the dye-stuff industry.
- Measurement of colour, computer aided colour design.
- The COLOROID Colour System, Hungarian Colour Standard, Ref No. MSZ 7300.
- Integration possibilities of the COLOROID colour system into technical regulations and legal regulations.
- The role of colours in legal regulation related to local preservation of architectonic values.
- The role of colours in product development.
- Rules of colour harmony.
- The most recent theories of colour vision and eyeglasses to correct Daltonism.
- Colour environment design aspects of colour adaptation.
- Displaying colours on PC screen, problems of harmonisation between monitor and printer.
- A COLOROID colour design software.

#### Conferences and professional exhibitions:

- March 10–16  
*Colour design in Hungary.* Site: Prague, Hungarian Institute.
- May 12–14.  
*Architecture and colours.* Site: Warsaw, Hungarian Institute, Warsaw Technical University.
- October 10–12.  
*Symposium on Hungarian National Colour Standard.* Site: Budapest, Budapest Technical and Economical University.
- October 17–20.  
*Built environment and natural environment.* Site: Budapest, House of the Hungarian Association of Fine Arts.

#### Working groups and professional organisations:

- Colour Education  
(Chairperson: Prof. Klára Wenczel)
- Informatics Working Group  
(Chairperson: Dr. János Zana)
- Colorimetry Working Group  
(Chairperson: Dr. Gyula Lukács)
- Colour Planning Working Group  
(Chairperson: Mrs. Éva Mester)
- Colour Theory Committee of the Hungarian Academy of Sciences

- (Chairperson: Prof. Antal Nemcsics)
- Colour Dynamics Department of the Scientific Association of Construction Industry  
(Chairperson: Mr. Árpád Szende)
- Academic Colour and Light Working Committee of Veszprém  
(Chairperson: Prof. János Schanda)
- International Foundation Colour and Light  
(Chairperson: Mr. László Miskei)
- Coloristics Department of the Association of Chemists  
(Chairperson: Dr. Ágnes Stáhl)
- Interdisciplinary Department of the Hungarian Association of Fine Arts and Applied Arts  
(Chairperson: Béla Tilles)
- Colour Coordination Office  
(Chairperson: György Breitkopf)

#### Executive Committee:

Prof. Antal Nemcsics (Chairperson)  
 Prof. József Hegedüs (Secretary)  
 Prof. János Schanda  
 Prof. Klára Wenczel  
 Mrs. Ildikó Rozsovits  
 Mr. László Miskei  
 Dr. János Zana  
 Mr. Árpád Szende  
 Mr. György Breitkopf

Prof. Antal Nemcsics  
 H-1185 Budapest,  
 Ungvár u. 42.  
 Email: nemcsics.antal@axelero.hu

# ITALY

## Associazione Ottica Italiana (AOI)

The AOI is a non-profit organization which, since the late twenties of the XX century, represents a reference point for those who are interested in light, images, vision and related research areas. It has linked Italy to the AIC since the origin of the AIC itself.

The 'voice' of the AOI is the Journal 'Luce e Immagini', which appears regularly four times per year.

## Participation in international meetings

During the year 2002, the meetings listed below have been attended:

- AIC Interim Meeting "Color & Textiles" in Maribor, Slovenia, 29-31 August (Da Pos, Luzzatto, Mauro, Oleari, Pompas, Rizzo, Ronchi)
- CIE Expert Symposium in Veszprém, Hungary, 29-31 August (Da Pos, Oleari, Ronchi)
- Vision Performance of the Human Eye in Manchester, UK, 12-14 September (Ronchi)
- Argencolor 2002, Rosario, Argentina (Luzzatto, Pompas, Rizzo, Ronchi)

## National Meetings and Study Groups

The AOI President, Prof. Sergio Villani organizes every year a meeting, generally connected to the meeting on Optometry. In addition, interested people working in various study groups meet independently to report about their activities and to plan future work.

The list of active Study Groups includes:

- Color in Optometry (and the problems related to use of computer generated tests on phosphor and LC displays)
- Color vision in children (development of color categorization versus age; use of color in books and magazines devoted to children of various ages)
- Color in heraldry (color naming, art restoration, historical references)
- Irlen Syndrome and therapy
- Plasticity of visual functionality in the adult (concerning, in particular, color vision degradation with aging)
- The color 'palette' of the landscape.  
NOTE: The increasing interest in Landscape Architecture, together with the modern facilities in color reproduction, have favoured a flourishing of literature dealing with color in urban, rural and natural scenes. The Study Group intends to elaborate a framework of information about color in the landscape referred to global perceptual organization, intermediate between the free naming descriptions feeding the traditional

literature and the 'numerical' colorimetric local assessment (not to speak of the classification underlying Internet imaging)

The main aspects of visual functionality involved will be (a) the gross identification, in terms of basic categorical names, hierarchically displayed according to their prevalence, conspicuity, and related spatial segmentation; (b) the finer discrimination, modulated by seasonal variation. Moreover, (c) we are planning to report about the state-of-the-art of natural illumination, in terms of average level and of an index of variability, related to both the geographical location and the prevailing meteorological conditions, and possible sources of pollution. We rely upon the active involvement of a distinguished expert, Arch. Maria Chiara Pozzana. In particular she is the author of a very recent book where the color in Leghorn and the surrounding landscape is studied in depth.

## Educational activity:

Color vision is currently taught by S. Villani during his courses to Optometrists both in Italy and at the Latvia University, Dept. of Natural Sciences, School of Optometry. The traditional educational contribution of the AOI is continuing, favoured by the increasing interest for color in our country, by replying to questions and supplying literature. The more frequent recent requests are:

- 1) What are the specific aspects of Physics of vital interest for vision and color vision?
- 2) What themes concerning color vision, studied in the laboratories, can be transferred to the applied realm, e.g. in view of industrial applications?
- 3) What are the topics of advanced research in color vision?

To fulfill this latter request, we are preparing an issue of 'Luce and Immagini' entirely devoted to the analysis of the last three (or four) AIC meetings, entitled 'AIC entering the 3rd Millennium', where the most recent research trends are emphasized.

Lucia R. Ronchi  
on behalf of AOI  
FAX : ++39. 055. 22 20 90  
Email: n.rositani@flashnet.it

# JAPAN

## The Color Science Association of Japan (CSAJ)

### Meetings:

- The 33rd annual meeting of the CSAJ was held at Otemae University (Itami city, Osaka) on May 25-26, 2002 with more than 200 participants. Fifty-eight papers were presented from various fields of color science and its applications. The invited lecture was given by Dr. Toshitaka Hidaka (Director-General, Research Institute for Humanity and Nature) on 'The world of color environment from an animal behavioral point of view'
- *Color Forum Japan 2002* was held at Kogakuin University (Tokyo) on Nov. 19-21, 2002.

Seiichi Onobori  
Tsuneo Suzuki  
Shinya Takahashi  
Shoji Tominaga  
Keiji Uchikawa  
Hirohisa Yaguchi

### Awards:

- 2002 CSAJ Award: Genro Kawakami (Professor emeritus of Tokyo Institute of Polytechnics)
- 2002 CSAJ Research Encouraging Award: Mika Takahashi (Osaka City University)

### Study Groups:

In 2002, CSAJ has 11 study groups:

- Color Design
- Environmental Color
- Colorimetry
- Color Coordinate
- Curriculum for Color Education
- Tutorial Materials for Color Education
- Personal Color
- Illusion
- Color Vision
- Color Scheme
- Color in Culture

### Publications:

- *Journal of the Color Science Association*, volume 26, number 1-4 and Supplement, 2002 were published.
- *CSAJ News* was published bimonthly.

### 2002 Board Members:

Yasuo Ohta	(President)
Hiroshi Kansaku	(Vice-President)
Asao Komachiya	(Vice-President)
Yasuyuki Kuge	(Chair of Kanto Chapter)
Masako Sato	(Chair of Kansai Chapter)
Hiroshi Shimazaki	(Chair of Tokai Chapter)
Shoko Ashizawa	(Treasurer)
Taiichiro Ishida	(Representative to AIC)
Goro Baba	
Takuo Goto	
Hiroshi Hasegawa	
Mitsuo Ikeda	
Kenji Kitahara	
Mitsuo Kobayashi	

# THE NETHERLANDS

## Nederlandse Vereniging voor Kleurenstudie (NVvK)

Netherlands Society for Colour Studies

The NVvK was founded 14th September 1946 in Amsterdam and has about 350 members.

### Objectives:

The Society's main objectives are:

- To encourage the study of colour and to disseminate the existing knowledge of colour in all colour disciplines and applications.
- To promote the intentional use of colour.
- To bring together members of the different disciplines such as architecture, physics, art therapy, education etc. that are working with colour.

### Report on 2002 activities:

After my previous contribution to the AIC Newsletter sad things happened within our NVvK. In the beginning of March occurred the rather sudden passing away of our board member and treasurer Ir. O.T. de Vries (Onno) which means a terrible loss for his family as well as for our Netherlands Society for Colourstudies, NVvK. He was and still is in our minds every day and our President Clara Froger remembered him at the Spring meeting by reading a poem Onno made for her as an answer to 8 questions on colour she had asked him a year before, which was published in our quarterly *Kleurenvisie* (Colourvision). I can not translate this properly so you have to believe me that this made a very deep impression on everyone. We kept one minute silence to remember and honour him.

Shortly before, on 14th of February, our President Clara Froger announced, in a board meeting, her intention to resign for personal reasons. Up till now we have not been able to find a good successor for her. Diny Leijssen, vice president, replaces her for the time being.

So in the last Newsletter you found some information that was not up to date any more at the date of appearance. The AIC site has been updated meanwhile thanks to the fast reactions of Paula Alessi and the webmaster of the AIC site.

The NVvK Spring Meeting on the 23th of March was an emotional one because of these two sad things. The theme was 'Kleur en Natuur' (Colour and Nature). The meeting was attended by more than 60 persons 50 being loyal NVvK members. The presentations were various but interesting. Jan Walraven, who is well known (at least by name) in the international AIC-world of colour, made the whole group laugh with an

excellent contribution: 'The functional use of colour by plants and animals'. Another presentation given by a spider specialist, Peter Koomen, about beautiful coloured spiders was well worth seeing and hearing. A presentation on the 'colour ordering' of domesticated animals (cows and horses etc.) by a breeding specialist for rare domesticated animals was surprising to several members, and the use of colours by butterflies was illustrated by the colourful pictures and words from a fourth speaker.

On the 27th of September we had a nice and useful 'technical' autumn meeting.

We were hosted by the Osram Light Company that gave us several informative presentations by company and external specialist speakers about light in the widest sense of the word. The highlight of the day was a presentation by Herman Kuijer, NVvK member and well known colour-light artist, who showed work and told us about his way of thinking and working with this immaterial colour phenomenon in a beautiful power-point presentation. During the lunch break there was an opportunity to visit a nearby company that designs and produces light-devices (lamps).

### Publications:

*Kleurenvisie* was produced four times in 2002, three of the issues in the new coloured graphic design.

The Newtonian Colour Circle we had on the cover for so many years disappeared on the NVvK Information brochure. In the newly designed House-style the Circle of the Swedish Aron Sigfrid Forsius has replaced the Newton one.

### Website:

Last year our site: [www.kleurenvisie.nl](http://www.kleurenvisie.nl) was introduced and you are welcome to visit us there in spite of the Dutch-language barrier. We will do our best to present NVvK in English as well in the future.

### Board:

Last year, 2002, the board members were:

Clara Froger:	President (resigned 14 May, vacancy)
Diny Leijssen:	Vice President, interim President
Hans Vrijmoed:	Secretary
Erna Tielen:	Treasurer (after the sudden death of Onno de Vries)
Beata Franso:	Editor <i>Kleurenvisie</i>
Ciska Jonkers:	member
Hennie van den Boogert:	member



These were the most important items to let you know.  
Till next year I hope.

Hans Vrijmoed  
Secretary.

The adress of NVvK secretary will change as per  
1 September 2003 because of my retirement from Akzo  
Nobel Decorative Coatings Europe.

After 1st Sept 2003 you can find me:  
Hans Vrijmoed, Europasingel 49, 2396 EL,  
Koudekerk aan den Rijn, The Netherlands.  
vrijmoed@tref.nl

# SLOVENIA

## Drustvo Koloristov Slovenije

Slovenian Colorists Association

During the year 2002 the Slovenian Colorists Association (SCA) at its Executive Committee meetings, meetings of the Education and Research Commission and of Commission of International Cooperation and at the meetings of the Editorial board discussed and carried out the activities in the program for 2002. Those were:

### Activities 2002

- SCA regular meeting and celebration of 10th SCA anniversary
- International activities
- Publishing of a monograph
- Research program

### SCA regular meeting

The SCA regular meeting was on 29th of August 2002. After the opening of the SCA regular meeting the president's report, treasurer's report and other commission's reports were discussed. On this occasion the SCA awarded our members Natasa Barle, M.Sc., Marta Klajnpek Gunde, Ph.D., Gorazd Golob, Vera Seslar, Jose Pavleni and Prof. Maks Tusak, Ph.D. in recognition of their merits to our association.

### International activities

- International activities (AIC, IFATCC, DfwG, DFZ),
- Establishing new contacts and relations,
- Organization of the Interim Meeting AIC COLOR 2002 SI, COLOR & TEXTILES in Maribor, 29th to 31st of August 2002.

Our members took part in some international symposia and other annual regular meetings. They actively took part in the Farb-Info meeting organized by Deutsches Farbenzentrum. Two of our members took part in the annual executive board of IFATCC. Also this year SCA contacted some other association abroad. We tried to contact the association 'Architekturverband Eurofarbberater' from the field of architecture. Members of our Section for graphics are incorporated into the Newspaper Color Quality Club.

The main activity last year was the organization of the AIC Interim Meeting 2002 SI, Color & Textiles in Maribor. The final report of the meeting we sent to the AIC president Mrs. Paula Alessi and for publishing in the journal Color Research and Application. The text of this final report is as follows:

## AIC Color 2002 SI – 'Color & Textiles'

On behalf of the International Colour Association (AIC) the interim meeting 2002, entitled 'Color & Textiles', was held in Maribor, Slovenia from 29th to 31st of August 2002. The two and a half-day meeting was jointly organized by the Slovenian Colorist Association and the Textile department at the Faculty of Mechanical Engineering, University of Maribor. The Slovenian Colorists Association celebrated its tenth anniversary, so we were particularly happy to host the AIC meeting on the occasion of our Jubilee. The Textile Section of our Association is amongst the most numerous and active. It is not a coincidence, therefore, that 'Color & Textiles' was the topic selected for the AIC interim meeting 2002.

Textiles remain among the most important material goods needed in every day life. They are used for a variety of purposes, so they must have certain specific properties in order to be both comfortable and fashionable, and color is a phenomenon that greatly influences textile aestheticity. Eco-production of colored textiles requires high professional knowledge; therefore many specialists from various scientific fields collaborate as designers, color chemists, textile engineers, computer specialists, etc. It is only natural that color science, color design and many other color-related topics of great interest to the Textile Industry were discussed at this interim AIC meeting.

The aim of this AIC interim meeting was to present the most up-to-date theoretical and research achievements in color science and their implementation in textile practice and to provide an international forum for the presentation and discussion of novelties and the state-of-the art of this scientific field.

The scientific program included:

- Oral presentations,
- Poster presentations,
- Two roundtable discussion panels, that were followed by respective oral presentations,
- The exhibition of color order system, color measurement systems, laboratory equipment and various textile products.

The Book of abstracts was published prior to the interim meeting, which included 37 oral and 39 poster presentations, presented by authors from 27 countries from all over the world.

The AIC Color 2002 meeting officially started on August 29, 2002 in the morning with the opening ceremony and speeches delivered by Prof. Slava Jeler,

the president of SCA, Mrs. Paula Alessi, AIC President, representatives of the University of Maribor, the Ministry of Education, Science and Sport, the Chamber of Commerce and Industry of Slovenia, the chair of the Textile Department at the Faculty of Mechanical Engineering and Prof. Vera Golob, chairperson of AIC 2002 SI who also introduced the topics and programme of the meeting. Oral presentations were grouped into 6 topics:

- Introductory lectures,
- Interdisciplinarity of Color Science,
- Color and Design,
- Color Education and Color Imaging,
- Color Evaluation
- Colorimetry in Textile Applications.

Two roundtable discussion panels were organized that followed the respective oral presentations on the last day of the meeting:

- Environmental Color Design
- Advanced Color Measurement.

In the framework of 'Introductory lectures', the textile industry was presented as an internationally-significant production outlet for various products used in everyday life such as garments, textiles in the living environment and technical textiles. The importance of color science was emphasized together with its application in the coloration processes of textiles from idea and design to production and marketing. Correlation between the chemical structure of the dyestuffs and the color of dyed textiles was described and the protective effect of some dyes against the carcinogenic influence of UV A and B waves was discussed. The dependence of textile color appearance on variegated set of effects was demonstrated such as illumination (quality and quantity), brightness-luminance discrepancy, various angles of illumination and observation, texture, gloss and color combinations.

On the topic 'Interdisciplinarity of color science' some theoretical aspects of color sensation were discussed: illuminants and the influence of color in the surroundings on the perceived color of lighting; the standard observer from the aspect of a uniform scale of chromaticity and the hidden geometrical structure of the color opponencies in foveal vision and human V4 color center activity associated with figure-ground segregation as a pre-processing for shape cognition in the higher ventral/what system; experiences with the Color Contour Test used to examine the color vision of people with normal or anomalous color vision; psychological and physiological effects of colors applied to living environments on the actual color vision of young and elderly people.

The topic 'Color and Design' covered some general principles as well as practical examples of color design. Color design should not only fulfil aesthetic criteria, but above all should respect specific user requirements and combine color in effect with other elements of the design, such as form, materials and lighting in order to achieve the total color appearance. A survey about the use of colored textiles as a chromatic alphabet of society was given in a horizontal manner (spatial – geographical) and in a vertical manner (temporary – historical). Research on color combinations and color harmony in design education was discussed, with respect to both a scientific approach and experiences suggested by experts. The design of printed textile curtains for a classroom was presented based on built environment and end-user specificities. The principles were demonstrated of how to estimate quantitatively the influence of changed thread fineness and warp and weft density on color values of woven multicolor jacquard fabrics using a CAD system that enables relatively quick and cost-effective preparation of simulations of multicolor pattern surfaces. Various shades of color on the surface of colorful woven fabrics were produced by woven fabrics designers using optical color mixing to express their ideas in the textile medium.

As color science and colorimetry become an important subject in many areas of life, various approaches to teaching the complexity of these subjects were presented in the topic 'Color Education'. The key to successful color education and training is to show the beauty and the intellectual challenge of the subject with lots of demonstrations showing additive, subtractive and 'partitive' mixing, the spectrum and how it is modified through selective absorption, the effect of illumination, adaptation, contrast and those visual illusions which every designer and engineer should be fully aware of. Color courses have to include experiments using demonstrations, computers equipped with color monitors and printers, color measuring and formulation systems, color order systems and color collections, etc.

'Color Imaging' means the same color appearance under different viewing conditions or in different media. Computer controlled color devices such as scanners, color cameras, color monitors and color printers should all present the same color although based on different systems (RGB, CMYK, XYZ, etc.). Investigated aspects were factors essential for correct color reproduction that can be an issue on an LCD, like: calibration, characterization, uniformity, viewing angle, color stability etc. The perceived color at each

## SLOVENIA CONTINUED

point in an image is not merely determined by the colorimetric value of the point. It depends on various factors, such as the chromatic adaptation of the visual system and the simultaneous color contrast effect.

On the topic 'Color evaluation' various improved approaches to color determination were presented in terms of repeatability and accuracy. Propagation of detector-based photometric and color scales using a spectrally tunable led-source was described. Applying digital cameras for measuring colors and appearance of ultra-small, curved and multi-colored surfaces was introduced and the advantage of a camera based system for grading textile color fastness was discussed comparing it with visual assessment. The color space model for quantifying color with integration of a uniform color space and a color appearance model was proposed. A new scientific approach to the study of color in culture was revealed by colorimetric and computational analysis of Japanese traditional color combinations in 'kasane-irome'.

Many specialized themes, covered in the topic 'Colorimetry in Textile Applications', are important for industrial practice. Depth of color is of great relevance to colorists and dye manufacturers, but its definition has still proved difficult and somewhat arbitrary, therefore new approaches to depth assessment were suggested. Novelities in the coloration processes represent the use of an artificial neural network for the computer match prediction of dye concentration for printing paste, a new expanded calibration model to predict dye concentrations for oligochrome dyeing of PES fibers in supercritical CO<sub>2</sub> and least metameric recipe prediction method and its use as the starting point for the accuracy of dyeing as well as color measurement solution for the industrial lab.

Oral presentations and round table discussion on 'Environmental Color Design' included a historical survey of the activities of this AIC study group and the persons involved in it, by collecting and arranging in a comprehensive and organic way information that appears fragmentarily spread out in diverse media. The structure and design of oriental carpets was presented as being similar to that of a city, because there is in both a conceptual design which considers the total form as a synthesis of parts. These are organized by shapes and typologies derived from meaningful patterns based upon tradition and everyday life.

Oral presentations and round table discussion on the topic 'Advanced Color Measurement' were focused on the problems relating to textile samples of various form, structure and multicolor surfaces with small

color patterns, such as colored woven fabrics, melanges, jacquard and printed fabrics. Beside the conventional spectrophotometers also digital still cameras (DSCs) are used that have a potential for accurate color image recording and a desktop flatbed scanner that captures the image of a known color test chart; the color transformation algorithms can be created as emulators of a color measurement tool.

Poster presentations supported the oral topics by covering various interesting themes from a theoretical aspect as well as applied colorimetry in industrial practice in dyeing and printing processes of different textile fibers.

A rich social program was organized at the meeting with the purpose of bringing together the participants from different parts of the world and enabling them to have professional dialogue and exchange of experiences and opinions, as well as to present the habits and beauty of the host country.

The following events were included in the social program:

- Welcome of the AIC Executive Committee members
- Reception hosted by the mayor of the city of Maribor
- Exhibition of work by the design students of NTF Ljubljana
- City tour
- Assembly and celebration of the 10th anniversary of SCA
- Visit to textile laboratories at the Faculty of Mechanical Engineering
- Slovenian festive evening
- Excursion to Ptuj

Already on August 27, 2002 we welcomed at hotel Habakuk the first guests, members of AIC Executive Committee, AIC president, Mrs. Paula Alessi and the secretary, Mr. Frank Rochow. Next day we welcomed other members of the committee who started their work in the morning that day. Dr. Vera Golob, who attended the first part of the meeting, presented the program of AIC Color 2002 SI, Color & Textiles.

In the evening on August 28, 2002, the participants of the meeting were welcomed in the city hall by the deputy mayor, who emphasised the meaning of the meeting for the city of Maribor and Slovenia.

In the same building we attended the opening of the exhibition prepared by design students of the University of Ljubljana, Faculty of Natural Sciences

and Engineering, Textile Department. After that, a short walking tour was organized through the inner city. The guide showed the guests the main places of interest and monuments in the city center.

The Assembly of the Slovenian Colorists Association and celebration of its 10th anniversary was scheduled for August 29, 2002 in the evening. After the assembly, all the participants were invited to take part in the picnic at the top of the Pohorje hill. We visited the Bolfenk museum and exhibition of local stones and medicinal herbs. Furthermore, the video tape, presenting the skiing word-cup race for women 'The Golden Fox' was shown.

On Friday, August 30, 2002, there was a visit to the well-equipped textile laboratories at the Faculty of Mechanical Engineering, University of Maribor, which was organized for the participants of the meeting. Special attention was given to the Laboratory for colorimetry.

A festive Slovenian Evening was scheduled for the same day in the evening. The guests were welcomed by Dr. Zoran Stjepanovic, chairman of the AIC Organizing Committee. A hundred good-humoured guests took their seats in a pleasant dining hall. They all enjoyed the rich program featuring national Slovenian folklore costumes and dances. The leader of the folklore group presented the AIC president, Mrs. Paula Alessi the silk scarf, produced by the Slovenian firm Sivilanit from Kamnik, and showed her how to wear it. A fashion show introducing the clothing of the Slovenian companies Mura, Elkroj, Labod, Induplati, Merinka, IBI, Lisca, Svila, TSP, Gorenjska oblacila, Sivilanit and fashion accessories Prekorsek, followed.

After the official closing of the meeting on August 31, 2002, the excursion to Ptuj, the oldest city in Slovenia, was organized. We visited Ptuj castle with its well preserved rooms and permanent exhibitions. After that we took a short city tour and visited the only textile workshop in Slovenia that restores old tapestries. The evening ended at Ptuj wine cellar with wine tasting and enjoying the multivision performance devoted to the Haloze wine region.

To end this short report, it is worth quoting a part of the closing speech delivered by AIC president, Mrs. Paula Alessi, who said: 'Three years ago, this AIC Interim 2002 meeting on Color and Textiles in Maribor, Slovenia was just a dream. We have lived the dream with Prof. Dr. Jeler and Prof. Dr. Golob over the past two and half days. Now that the meeting has come to an end, is the dream over? How many of you have

awakened from a dream and not been able to accurately remember your dream? Well, we will never awaken from this dream. It will live on in our memories forever for two reasons. The first is that we will soon have the written proceedings as a permanent archive of this meeting. Second, we will have our memories of what happened in Maribor as well as papers and social events in our memories forever'.

Prof. Dr. Vera Golob	Chair of AIC Color 2002 SI
Prof. Dr. Slava Jeler	President of Slovenian Colorists Association
Dr. Zoran Stjepanovic	Chairman of the Organizing Committee

### Expert book publishing

Many of our activities are devoted to preparation of the second part of the expert monograph *Interdisciplinarity of colour—in application*. The first part of this book was published by the SCA in the year 2001. The second part will be classified into following sections:

- Colour and architecture
- Colour and graphics
- Colour and design
- Colour and coatings
- Colour and textiles
- Colour and art
- Colour and health

Authors and reviewers are distinguished scientists, researchers and experts from both Slovenian universities, the Chemistry Institute Ljubljana, the newspaper enterprise Delo Ljubljana and Hospital Maribor. We plan that the CSA will finally publish this book in 2003.

### Research program

All research work was not realized. Terminology in the field of colour and colorimetry we adjust simultaneously with the editing of the monographs. We have established the project group for the standardisation of national colour symbols.

### Annual work plan 2003

- Preparing of the SCA regular meeting and the celebration of the 10 years existence of the SCA
- Publishing the 2nd part of the monograph *Interdisciplinarity of Colour*
- Organization of seminars and lectures for our members
- Organization of an expert excursion
- Conducting research programs
- International activities (AIC, IFATCC, DfwG, DFZ)

## SLOVENIA CONTINUED

- Co-operation in the Commissions of the Association of the engineers and technicians of Maribor
- Informing members through the SCA home page on the internet ([www.dks-drustvo.si](http://www.dks-drustvo.si)).

### Executive committee of the Slovenian Colorists Association:

- President: Prof.Dr. Slava Jeler  
[slava.jeler@uni-mb.si](mailto:slava.jeler@uni-mb.si)
- Treasurer: Joze Pavlenic
- Secretary: Dunja Legat,  
[legat@uni-mb.si](mailto:legat@uni-mb.si)
- Section for architecture leader: Andrej Zizek  
[andrej.zizek@guest.arnes.si](mailto:andrej.zizek@guest.arnes.si)
- Section for art leader: Andrej Skerbinek
- Section for design leader: Vera Seslar Založnik
- Section for graphic and paper leader: Marko Kumar  
[marko.kumar@delo.si](mailto:marko.kumar@delo.si)
- Section for polymers leader: Prof.Dr. Vojko Musil  
[vojko.musil@uni-mb.si](mailto:vojko.musil@uni-mb.si)
- Section for coatings leader: Natasa Barle, M.Sc.
- Section for colour psychology leader: Prof.Dr. Maks Tusak
- Section for textiles leader: Prof.Dr. Vera Golob  
[vera.golob@uni-mb.si](mailto:vera.golob@uni-mb.si)
- Section for health & medicine leader: Dusan Bozic

Slovenian Colorists Association  
Vetrinjska 16  
2000 Maribor  
Slovenia

# SPAIN

## Comité Español del Color

The Color Committee of Spain (Optical Society of Spain)

### Activities:

The Color Committee of Spain held its VI National Meeting, 11–13 September 2002, in the magnificent city of Sevilla (Andalucía, Spain). The meeting was organized by the Food Color & Quality Group, chaired by Dr. Francisco J. Heredia (University of Sevilla). Over 160 scientists from a wide variety of color-related fields participated in this meeting, sharing their most recent research and knowledge.

The schedule of the meeting included 30 oral presentations, 100 posters, and the four plenary sessions, conducted by invited speakers:

- ‘The International Commission on Illumination and Colorimetry’ by Dr. Antonio de la Cruz (Consejo Superior de Investigaciones Científicas, Spain, currently in retirement)
- ‘Color in Art’ by the Cuban painter Mr. Waldo Balart
- ‘Expectations, Food Colorimetry and Digital Analysis’ by Dr. John Hutchings (Color and appearance Consultant, UK)
- ‘Trends in Color Science, Research and Publishing’ by Dr. Ellen Carter (*Color Research and Application*, Editor-in-chief, USA).

At the closing dinner of the meeting, Dr. Enrique Sauras (Consejo Superior de Investigaciones Científicas, Spain), who is currently in retirement and served as Secretary of our Committee for many years, was made an Honorary Member of the Optical Society of Spain. On the basis of its interesting technical contents, enjoyable social events, and excellent organization, it is certain that the VI National Color Meeting in Sevilla will be remembered for a long time by all attendees.

### General Assembly:

The General Assembly of the Color Committee of Spain met during the VI National Color Meeting in Sevilla. Among the main decisions adopted by this Assembly that should be mentioned:

- Dr. Joaquín Campos (Consejo Superior de Investigaciones Científicas, Spain) was unanimously elected new Vice-President (President-elect) of the Committee
- Endorsement by the Committee of the American journal *Color Research and Application* was renewed, with Dr. Manuel Melgosa (University of

Granada) continuing as Associate Editor, until the next National Color Meeting.

- The VII National Color Meeting will be held in Pamplona (Spain) next May 19-21, 2004, and will be organized by the group chaired by Dr. Begoña Hernández (Physics Department, Public University of Navarra).
- Dr. Joaquín Campos (AIC Executive Member) informed the Assembly about the new web site of the AIC.
- Current arrangements for international color meetings scheduled in the next few years in our country were also reported to the Assembly by Dr. Javier Romero (University of Granada) and Dr. Jaume Pujol (Politechnical University of Catalunya): 10th Quadriennial Meeting of the AIC (Granada, May 8-13, 2005), Color in Graphics Imaging and Vision (Barcelona, 2006). Active participation at these meetings from the color community is greatly desired and requested.

### Publications:

Another relevant activity of our Committee during 2002 was the publication of the work entitled ‘Vocabulario del Color’, written by Dr. Antonio de la Cruz (Consejo Superior de Investigaciones Científicas, Madrid) following a request made to him by the Color Committee of Spain at the past V National Color Meeting (Terrassa, 1999). The goal of this work is to try to provide a common language for all Spanish speaking people interested in color science and/or their applications. The current edition of ‘Vocabulario del Color’ was provided on CD format to all participants at the VI National Color Meeting, and is also freely available for the members of our Society (see <http://sedo.optica.csic.es/color/color.html> section ‘Novedades’).

### International activities:

During 2002 members of the Color Committee of Spain attended different international meetings, like the ‘XIX Congress of the International Commission for Optics’ (ICO XIX), Firenze, Italy (August 25-31), ‘Color and Textiles’ Maribor, Slovenia (August 29-31), and the ‘First European Conference on Colour in Graphics, Imaging and Vision’ (CGIV’2002), Poitiers, France (April 2-5), where a presentation about the Color Committee of Spain was given by Dr. Jaume Pujol (Politechnical University of Catalunya) during the Special Session on European Color Groups held at this meeting.

## SPAIN CONTINUED

### Board of Directors:

Members of the current Board of Directors of the Color Committee of Spain (Optical Society of Spain) are:

- Dr. Jaume Pujol           President
- Dr. Ignacio Negueruela   Past-President
- Dr. Joaquín Campos      President-elect
- Dr. Manuel Melgosa      Secretary

### Website:

You are kindly invited to visit our web site for updated information about the history and future activities of our Committee

(<http://sedo.optica.csic.es/color/color.html>).



# SWEDEN

## Stiftelsen Svenskt Färgcentrum

Swedish Colour Centre Foundation

### History:

In 1964, the Swedish Colour Centre Foundation was founded by IVA (Royal Academy of Engineering Sciences), the Swedish Design Council and industry to carry out interdisciplinary research and development within the colour field. Dr Anders Hård, the creator of the NCS-system, was appointed to lead the work together with well-known colour researchers such as Dr Lars Sivik (psychology) and Prof. Gunnar Tonnquist (physics) and, of course, Prof. Sven Hesselgren and many other influential architects, designers, teachers and industrial personalities.

### Objectives:

The task of the Swedish Colour Centre Foundation is today:

- to encourage scientific research within the colour field of interest for industry, education and people working with colour
- to spread new knowledge and experience within the field of colour
- to be a natural centre for colour and colour research.

### Colour Day 2002

The Colour Day 2002, arranged by The Swedish Colour Centre Foundation, gathered together over 180 participants on October 24, 2002 in Stockholm. This year's theme was 'Colour as Communication'. To this Colour Day, we had invited two foreign guest speakers. We had the pleasure of introducing:

- Galen Minah, architect and Associate Professor from the College of Architecture and Urban Planning, University of Washington, Seattle, who gave a talk on Colour Constellations in the Cityscape
- Jean-Philippe Lenclos, well-known colour designer at Atelier 3D Couleur in Paris, France, who presented his Geography of Colours.

Other topics on this colour day were:

- Light setting as a means of communication
- Colour symbolism within theatre scenography
- How an artist communicates with colours
- Colour as a message in visual communication in different media
- The meaning of colour names
- About a non-colour scale and 'sketch-tennis'.

The closing remarks opened up a discussion around colour, trademarks and architecture.

### Members' meetings

- In January, this year's first meeting was in the form of a study visit to the University College of Arts and Crafts and Design. They have built up a studio where you can study light, colour and form.
- In April 2002 we began a series of lectures regarding different colour theories and we were able to learn about Johann Wolfgang von Goethe and his life.
- In November, in connection with our annual meeting we listened to a presentation concerning the theories of Josef Albers as expressed in *Interaction of Color*, and how these ideas can be used in colour studies.

### The future

The Swedish Colour Centre Foundation has also arranged a couple of workshops to discuss how we can expand and inspire new members. We have created an activity plan for 2002–2008 with a vision, goals, and new members. We have decided to expand into new markets and we shall start with architects and graphic designers.

Berit Bergström

Secretary

Igeldammsgatan 30

PoBox 49022 S-100 28 Stockholm

Sweden

Tel. 08-617 47 00

Telefax 08-617 47 47

# SWITZERLAND

## Pro Colore

### Activities:

Pro Colore organizes regular annual meetings relating to different aspects of colour, the contents of these meetings mirroring the versatility of the theme 'colour'. This year Pro Colore will again conduct four meetings in co-operation with various organizations and associations.

#### *March in Rüschtikon:*

- Feng Shui – How to live and work in harmony with our environment  
Our Buildings, Our Work Places – Dream or Trauma?
- Enhance quality of living as well as conditions at the workplace through well planned investments.  
With Jaqueline Barbara Thambauer and Johann Christian Thambauer, KOTAO Feng Shui Systems GmbH, 6353 Weggis

#### *June in Winterthur*

- Chick Clicks—Fashion Photography Between Commission and Art  
This exhibition is dedicated to the phenomenon of fashion and shows a variety of works by 40 renowned fashion and/or art photographers. With commissioned photographs and freelance works on parallel display, the photographers aim to give a feeling for the essence of Fashion and the Ephemeral in general.
- Guided tour at the Museum of Photography, Winterthur
- The Office as City  
Engineering company Gebr. Hunziker AG have invited Veronika Martin and Joachim Mantel, architects of *denkwerk*, to create 'The Office as City' in the building of an old textile factory, facilitating new ways of leadership and communication. Rooms and connecting spaces are defined by colour.  
Inspection and guided tour by the architects.

#### *September*

- Historical Buildings, Aged Aesthetically – guided tour and inspection of Schloss Hallwil or privately owned Schloss Liebegg with Bernhard Nydegger, Atelier for Wall Paintings and Restorations, 8408 Winterthur

#### *November*

- Sequel to the theme 'Colour + Light'—an insight into the background workings of a lighting factory with the motto 'how colours change light, how light changes colours'.
- Two lectures plus visit to a modern manufacturing plant.

## Members:

In 2002 Pro Colore had 162 individual members, 30 company members and 11 schools.

## Publication:

*Lettera* is published four times a year and is much appreciated by members.

## Committee:

President	Bernhard Bärtsch (until March 03)
Vice-President	Hans-Peter Nüesch (until March 03)
Manager	Simone C. Hensch
Committee Members	Brigitta Weber Janos Morvay Ernesto Bergantini Antonio Romano Ueli Wagner Adrian Pünter SMGV
Auditors	Felix Mutter, VSLF Peter Ziebold, SMGV

# THAILAND

## The Color Group of Thailand

### Activities:

2002 was a year of vigorous activity by The Color Group of Thailand. The first extensive color chart with names in English and their Thai equivalents was printed. This is considered an important step in the creation of a book about how the Thai people use color to communicate with the international community. Our membership has increased and a new Executive Committee was elected this year.

Our representative attended the international AIC conference in Maribor, Slovenia where he gave a paper and announced the next AIC conference to be held in August 2003 in Bangkok, Thailand.

We have continued to hold formal bi-monthly meetings and, of course, numerous informal small group meetings. Some of the meetings have been with the Thai Electronic Publishing Club, Nippon Paint and Minolta. Additionally we are in the process of organizing color management workshops for the Thai Printing Industry. These programs are expected to be operating by end of this year.

### AIC 2003:

The plans for AIC 2003 to be held between August 4-6 in Bangkok, Thailand are moving smoothly. The local committee has worked tirelessly to make this meeting a success. As of the end of April we have received 66 oral papers and 50 poster presentations. We are honored to be able to host this meeting and wish to thank the International Advisory Committee for their support and look forward to welcoming you to COLOR COMMUNICATION AND MANAGEMENT 2003.

#### Chairman:

Mr. Santi Songsermsawas  
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58 Soi Napasap 5  
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#### Secretary:

Associate Professor Dr. Aran Hansuebsai  
Department of Imaging and Printing Technology  
Faculty of Science, Chulalongkorn University  
Phyathai Rd., Bangkok 10330 THAILAND  
Email: aran@sc.chula.ac.th

# UNITED STATES OF AMERICA

## **The Inter-Society Color Council**

The Inter-Society Color Council has survived yet another year. In a time when many professional societies are losing membership or money, the ISCC continues to remain active and stable. Color remains a topic of great interest in the world today.

## **Activities:**

We held a very successful Williamsburg-type meeting in March 2003 on the campus of Philadelphia University. The theme was Industrial Problems in Color Technology. The facilities were excellent and the attendee interaction with the speakers was also very exciting. A small exhibition of instruments and color viewing cabinets offered reinforcement of the recommendations of the presenters.

The annual meeting was held near O'Hare airport in Chicago. The meeting was held jointly with the Federation of Societies for Coatings Technology and included a Symposium on Color & Appearance Instrumentation. The attendance was low, compared to previous SCAI meeting but much better than some meetings held in the past year by our Memberbodies. We have three active Project Committees and each of them met during the meeting. A revision of the widely used Technical Report on Material Standards and Their Use in Color Measurement is in final editorial review and it is hoped that it can be available for distribution from the ISCC Office by the fall. The Interest Groups all had terrific programs and a review should be in the ISCC News shortly.

## **Publication:**

Speaking of the ISCC News, we have been very fortunate to have received several volunteers from the Individual Member Groups to assist in the production of the Newsletter. Most notable is the addition of former Director of the Council, Dr. Mary McKnight to the Editorial committee. She has taken on the responsibility of layout of the Newsletter before it is sent for printing and posting.

## **Awards:**

We awarded Honorary Membership to Mr. Louis Graham and Professor Emeritus Evelyn Stephens of FIT-SUNY. Dr. Ellen Carter received the Dorothy Nickerson Service award and Rolf G Kuehni received the Godlove Award for his life time of work on industrial color difference problems and color order systems.

## **Directors:**

We added three new directors to our Board: David Battle of GretagMacbeth, whose career includes Instrumental Colour Systems of the UK and Datacolor International of USA; Sy Commanday of Techmer, PM with a long career in plastics and fibers; Maria Nadal of NIST, who is active in reestablishing the USA as a center of excellence in the measurement of color.

Danny C. Rich, President

# COLOUR EDUCATION

The Study Group on Colour Education of the International Color Association (AIC) is an international network of scientists, teachers within the field of colour (colour theory, colour design, colour psychology etc.) and other professionals like designers and architects with a specific interest in colour education. The aims are: the exchange of knowledge and experiences among its members, the stimulation of teaching and research, to inform about coming congresses, seminars, workshops and exhibitions which might be of interest for the members of the group and to share with other members news from congresses, seminars, workshops, publications and exhibitions.

## Projects and activities:

The only way for the Study Group to become a good worldwide network within colour education is for the members to contribute to the network by exchanging interesting information about colour seminars, new colour studies, new methods of teaching colour, new literature etc. During this year the engagement of the members has increased greatly; we have got for example a very interesting paper regarding colour teaching which has been mailed to our members.

We have also got a lot of contributions to our literature list. Our list of literature used in colour education is divided into the following groups:

- Colour Atlases, Systems and books about them
- Literature about how to teach colour
- Papers about how to teach colour
- Literature and papers that we use to teach colour
- Journals
- Video
- CDROM

The results of the small project regarding colour associations towards old rose, plum and heaven blue were presented to the members.

During the AIC Interim Meeting in Maribor, Slovenia, August 29-31, 2002, there was an oral session on Colour Education & Colour Imaging, chaired by Klaus Richter and Paula Alessi, which included the following papers:

- Schanda J.  
*Teaching Colorimetry*
- Hirschler R., Gay J.  
*Colour education and training for textile engineering and design*
- Kehlibarov T, Milev Y.  
*The NCS Color System and its use for teaching and application in the environment and industry.*

## Members of the Study Group on Colour Education:

Today we are 46 members, and 21 nations are represented in the group. The membership is free, and is available for every person/organization who/which scientifically or practically deals with colour in colour education, contributes to the realisation of the aims mentioned above to support the Study Group generally. The requirements for being incorporated as a new member of the Colour Education Study Group are: to subscribe and participate in the email list and to have presented a paper or poster at an AIC meeting.

## Email and homepage:

The Study Group CE has the following email address:  
swedish.colour.centre@ncscolour.com

The Swedish Colour Centre has its own homepage where you also can find information about the AIC Study Group on Colour Education and the coming AIC meetings. This website is being prepared. Homepage:  
www.fargcentrum.se

## Chairperson:

Berit Bergström,  
Swedish Colour Centre Foundation,  
PoBox 49022, S-100 28 Stockholm, Sweden  
Phone: +46 8 617 47 00.  
Fax: +46 8 617 47 47

# ENVIRONMENTAL COLOUR DESIGN

The AIC Study Group on Environmental Color Design (ECD) is an international community of scientists, designers, architects, artists and other professionals with a specific interest in color as a means of environmental design and its effects on human emotion, cognition and behavior. Membership is free, and is open to every interested person that has presented a poster or paper at an AIC meeting in the previous four years, and that participates in the email list for discussion.

## Activities during 2002:

At the AIC Interim Meeting in Maribor, Slovenia, 2002, there was an oral session on 'Color & Design', with 6 papers, and another session on 'Environmental Color Design', with 2 papers, as well as a round table discussion that constituted the specific ECD study group meeting. The ECD members that made presentations in these oral sessions were: Leo Oberascher, Nilgün Camgöz, Lia Luzzatto & Renata Pompas, Jean-Luc Capron, Galen Minah, and José Luis Caivano (who presented a history of the study group, that appears also on the web site). In addition, other two ECD members presented papers in other oral sessions: Lucia Ronchi, and Yasuyo Ichihara. And there were also 7 posters presented by ECD members: Youngin Kim, Vojko Pogacar (with 2 posters), Javier Romero, Silvia Rizzo, Verena Schindler, and Osvaldo Da Pos. In total, 17 ECD members attended the Maribor congress (counting the old members and the new ones that were incorporated in the congress).

## Meeting of the ECD study group:

The specific meeting of the ECD study group was held in Maribor on Saturday, August 31, from 10:00 to 11:00. About 20 persons attended the ECD meeting, and 8 new members were incorporated in the study group at this opportunity: Nilgün Camgöz, Jean-Luc Capron, Yasuyo Ichihara, Lia Luzzatto, Galen Minah, Vojko Pogacar, Renata Pompas, and Javier Romero. Some of them have previously been subscribers of the email list, and came for the first time to an AIC congress because of the interest aroused by the study group and the diffusion of the information about the congress (well in advance to the congress, the abstracts circulated in the list). The following topics were discussed at the ECD meeting:

- Da Pos asked what are the benefits of being a member of the ECD study group, in comparison to all those that are only subscribers of the email list. The answer was that ECD members have the

possibility of publishing articles in the ECD web site, and having links from this site to their own sites, and also have a certain priority for their papers being included in the ECD sessions at AIC congresses. Also, they can mention their membership in their curriculum vitae.

- The requisites for ECD membership were discussed, and Camgöz raised the question that perhaps an ECD member cannot attend to an AIC meeting in four years due to economical reasons, and this should not be a reason to exclude him or her from the study group. The conclusion was reached that if a member continues to be active in some way (for instance, contributing to the work of the study group), then he or she could remain even if not being able to attend to AIC meetings in four years.
- With regard to the aims of the study group and future work, various people considered it interesting to continue the development and improvement of the glossary of terms related to environmental color design (which is on the web site), by adding new terms to be defined and revising the existing ones. The exchange of opinions for this task would be made through the ECD email list, and once an agreement is reached on the definitions of terms they would be incorporated in the web page.
- The matter of whether the information contained in the glossary or other documents should be freely available to every one or only to ECD members was discussed. A compromise should be reached between the idea of keeping certain matters internal or making them public as a way of showing how the group works and attracting more people by this means. Some members were more inclined to the first position, while some others were more inclined to the second one. The decision would have to be taken for every particular case, by vote of the ECD members.
- The desire that means should be sought for publishing a book with articles by ECD members was expressed, and some members were going to try contacts with possible publishers.
- Another proposed task was to make a list of journals (preferably refereed ones) where ECD members could submit articles for publication. After this, a preliminary list of such journals circulated through the email list.

## Future ECD meeting:

During the next AIC Midterm Meeting in Bangkok, Thailand, August 2003, another ECD meeting will be held.

**Email list:**

To subscribe, just send the message 'subscribe color <your-email-address>' to majordomo@fadu.uba.ar. Once subscribed, messages to the list are sent to color@fadu.uba.ar (only subscribers can send messages).

**Website:**

After the Maribor meeting, the ECD web site was updated, incorporating the new members, and also a chronology of the AIC was published including information on meetings, executive committees, study groups, and Judd award recipients since the AIC foundation in 1967 until 2002.

**Chairmen:**

José Luis Caivano (chairman)

jcaivano@fadu.uba.ar

Leo Oberascher (co-chairman)

ecd@leoncolor.com

ECD web site:

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

ECD email list:

color@fadu.uba.ar

## VISUAL AND COLOUR ILLUSIONS

### Activities:

The study group has a new Internet site which is under construction. The intention is that it should be mainly a forum for theoretical discussion. There are links to the AIC Website and other AIC study groups.

### Website:

[www.psy.unipd.it/~dapos/visual\\_illusions/](http://www.psy.unipd.it/~dapos/visual_illusions/)

### Chairman:

Oswaldo da Pos

Email: [osvaldo.dapos@unipd.it](mailto:osvaldo.dapos@unipd.it)

## COLOUR PERCEPTION OF THE ELDERLY

### Activities:

A symposium on Colour Perception of the Elderly has been organised as part of the program for the AIC meeting in Bangkok. The keynote speaker will Prof. J.S. Werner of the University of California, Davis.

The Study Group Homepage has been enhanced and a mailing list has been started.

### Membership:

The Study Group currently has 38 members, including the chairman and secretary.

### Website:

A new URL has been acquired for the Study Group:

<http://www.cpesg.org>



# CIE DIVISION 2

## CIE Division 2: Physical Measurement of Light and Radiation

Division 2 of CIE deals with studies of standard procedures for the evaluation of ultraviolet, visible and infrared radiation, global radiation, and optical properties of materials and luminaires and of optical properties and performance of physical detectors and other devices required for their evaluation.

### Colour related Activities:

During the year 2002 this division has continued its work in several technical committees as usual. A list of these committees may be found at <http://cie2.nist.gov/TCs/TC.html>. Among them the most related to AIC interests are:

- TC2-16 Characterisation of the performance of tristimulus colorimeters. The goal of this committee is to produce a report recommending methods for assessing the performance of tristimulus colorimeter heads for measuring chromaticity coordinates.
- TC2-28 Methods of characterising spectrophotometers. The goal of this committee is to write a CIE report on the characterisation of spectrophotometers by means of reference materials and other methods, with particular reference to linearity, wavelength error, stray light, and integrating sphere errors.
- TC2-35 CIE Standard for  $V(l)$  and  $V'(l)$ . The goal of this committee is to prepare a new CIE Standard on the present  $V(l)$  and  $V'(l)$  functions.
- TC2-39 Geometric Tolerances for Colorimetry. The goal of this committee is to Compile a technical report and recommendations specifying the geometric tolerances for the various geometries in Colorimetry, including 0/45, 0/d and others. Parts of this technical report may be suitable for inclusion in a CIE standard specifying several geometric tolerance levels.
- TC2-42 Colorimetric Measurements for Visual Displays. The goal of this committee is to produce a Technical Report summarising recommended practice for the measurement of the colorimetric and spectroradiometric properties of visual displays.
- TC2-46 CIE/ISO standards on LED intensity measurements. The goal of this committee is to prepare a CIE/ISO standard on the measurement of LED intensity measurements based on the CIE Pub. 127.
- TC2-51 Calibration of multi-channel spectrometers. The goal of this committee is to produce a technical report which sets out guidelines for the recommended procedures, methods and transfer standards for the calibration

of diode array spectrometers.

- TC2-53 Multi-geometry colour measurements of effect materials. The goal of this committee is to write recommendations for the colour measurement of effect materials.

### Summary:

From the point of view of Colour, Division 2 is putting a large effort into establishing good procedures for LED's radiometric characterisation, for specifying geometry and tolerances in spectrophotometric measurements and to obtain better relations between physical measurements and visual perception.

### Annual Meeting and Proposals for New Activities:

At its annual meeting held at the end of August 2002 in Vezsprem, some new activities were initiated. Among them, those of most interest to AIC people are:

- A new technical committee: A Round Robin Investigation of Implementation of CIE Photobiological Safety Standard. The goal of this committee is to conduct a measurement intercomparison in order to investigate potential systematic errors in the interpretation of the measurement procedures laid down in the CIE photobiological safety of lamp standard (CIE S009), and to determine whether improvements are required to the specified procedures. The output will be a technical report describing the intercomparison, the results, and recommendations for improvements to the measurement procedures in CIE S009.
- A reportship on the characterisation of imaging luminance measurement devices. The intention of this is to prepare a proposal for a new Technical Committee to prepare recommendations on the characterisation and calibration of CCD-based imaging photometers, having input from D4 and D8 on the needs from the application side.
- A reportship on problems with the spectroradiometric measurement of light sources, particularly those associated with bandpass and sampling intervals. The intention of this is to consider the need for a revision of CIE 63 (1984) and make a recommendation regarding whether a separate document is necessary to deal specifically with issues relating to band pass and sampling intervals, including the effects on colour calculations.

# ASSOCIATION INTERNATIONALE DE LA COULEUR (AIC)

## International Colour Association

Data compiled by José Luis Caivano, from various sources

## Chronology of AIC Meetings

AIC Foundation: June 21, 1967, during the 16th CIE Session, Washington DC, USA

<b>1969, June 9–13</b>	<b>1st Congress</b>	Stockholm, Sweden	478 participants, 22 countries aprox. 150 papers
<b>1971, September 1–3</b>	Special Symposium "Small Color Differences – Helmholtz Centenary"	Driebergen, The Netherlands	
<b>1973, July 2–6</b>	<b>2nd Congress</b>	York, England	431 participants, 26countries, 115 papers
<b>1976, June 8–11</b>	Interim Meeting "Colour Dynamics"	Budapest, Hungary	
<b>1977, July 10–15</b>	<b>3rd Congress</b>	Troy, New York, USA	297 participants, 21 countries, 108 papers
<b>1978, October 3–4</b>	Interim Meeting "Color Measurement and its Application"	London, England	
<b>1979, August 16–17</b>	Midterm Meeting "Color Appearance"	Tokyo, Japan	
<b>1980, February 3–6</b>	Interim Meeting "Harry Helson Memorial Symposium on Chromatic Adaptation"	Williamsburg, Virginia, USA	
<b>1981, September 21–25</b>	<b>4th Congress</b>	Berlin, Germany	
<b>1982, June 8–10</b>	Interim Meeting "Colour Dynamics"	Budapest, Hungary	260 participants, 25 countries, 88 papers
<b>1983, August 25–28</b>	Midterm Meeting "Forsius Symposium Colour Order Systems"	Kungälv, Sweden	73 participants, 15 countries
<b>1984, June 18–20</b>	Interim Meeting "Colour Education"	Salamanca, Spain	

<b>1985, June 16–22</b>	<b>5th Congress</b>	Monte Carlo, Monaco	Aprox. 400 participants
<b>1986, June 19–20</b>	Interim Meeting "Color in Computer Generated Displays"	Toronto, Canada	116 participants
<b>1987, June 10–13</b>	Midterm Meeting "Wyszecki-Stiles Memorial Symposium on Color Vision Models"	Florence, Italy	67 participants, 14 countries, aprox. 35 papers
<b>1988, August 8–11</b>	Interim Meeting "Color in Environmental Design"	Winterthur, Switzerland	154 participants, 24 countries
<hr/>			
<b>1989, March 12–17</b>	<b>6th Congress</b>	Buenos Aires, Argentina	178 participants, 25 countries, 57 oral papers, 47 posters
<b>1990, September 2–5</b>	Interim Meeting "Instrumentation for Colour Measurement"	Berlin, Germany	
<b>1991, June 25–28</b>	Midterm Meeting "Colour & Light"	Sydney, Australia	189 participants, 18 countries, 45 oral papers, 9 posters
<b>1992, June 21–24</b>	Interim Meeting "Computer Color Formulation"	Princeton, New Jersey, USA	
<hr/>			
<b>1993, June 13–18</b>	<b>7th Congress</b>	Budapest, Hungary	237 participants, 32 countries, 115 oral papers, 53 posters
<b>1994, April 10–12</b>	Interim Meeting "Images in Colour"	Cambridge, England	
<b>1995, September 3–6</b>	Midterm Meeting "Colorimetry"	Berlin, Germany	Aprox. 120 participants
<b>1996, June 15–18</b>	Interim Meeting "Color & Psychology"	Gothenburg, Sweden	128 participants, 22 countries, 50 oral papers, 28 posters
<hr/>			
<b>1997, May 25–30</b>	<b>8th Congress</b>	Kyoto, Japan	524 participants, 29 countries, 146 oral papers, 97 posters
<b>1999, June 22–23</b>	Midterm Meeting "Applications of Colorimetry in Industry and Design"	Warsaw, Poland	86 participants, 23 countries, 40 oral papers, 14 posters
<b>2000, November 6–7</b>	Interim Meeting "Color & Environment"	Seoul, Korea	36 oral papers, 45 posters

# ASSOCIATION INTERNATIONALE DE LA COULEUR (AIC) CONTINUED

<b>2001, June 24–29</b>	<b>9th Congress</b>	Rochester, New York, USA	440 participants, 30 countries, 164 oral papers, 86 posters
<b>2002, August 29–31</b>	Interim Meeting "Color and Textiles"	Maribor, Slovenia	138 participants, 27 countries, 34 oral papers, 31 posters
<b>2003, August 4–6</b>	Midterm Meeting "Colour Communication and Management"	Bangkok, Thailand	

## A.I.C. Executive Committees (also, Auditors and Newsletter Editors)

<b>1967–1969</b>	President:	William David Wright (Great Britain)
	Vice-president:	Gunnar Tonnquist (Sweden)
	Secretary/Treasurer:	E. Ganz (Switzerland)

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<b>1970–1973</b>	President:	Yves LeGrand (France)
	Vice-president:	C. James Bartleson (USA)
	Secretary/Treasurer:	E. Ganz (Switzerland)
	Members:	Tarow Indow (Japan) Manfred Richter (Federal Republic of Germany)
	Past President:	William David Wright (Great Britain)
	Past Vice-president:	Gunnar Tonnquist (Sweden)

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<b>1974–1977</b>	President:	Tarow Indow (Japan)
	Vice-president:	Robert William Gainer Hunt (Great Britain)
	Secretary/Treasurer:	Andreas Brockes (Federal Republic of Germany)
	Members:	E. Ganz (Switzerland) Pieter L. Walraven (The Netherlands)
	Past President:	Yves LeGrand (France)
	Past Vice-president:	C. James Bartleson (USA)

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<b>1978–1981</b>	President:	C. James Bartleson (USA)
	Vice-president:	János Schanda (Hungary)
	Secretary/Treasurer:	Andreas Brockes (Federal Republic of Germany)
	Members:	Lorenzo Plaza (Spain) Alan R. Robertson (Canada)
	Past President:	Tarow Indow (Japan)
	Past Vice-president:	Robert William Gainer Hunt (Great Britain)

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<b>1982–1985</b>	President:	Robert William Gainer Hunt (Great Britain)
	Vice-president:	Heinz Terstiege (Federal Republic of Germany)
	Secretary/Treasurer:	Johannes J. Vos (The Netherlands)
	Members:	Anders Hård (Sweden) Peter K. Kaiser (Canada) François Parra (France) Urban Willumsen (Norway)
	Auditors:	Jan-Baptist den Tandt (Belgium) John B. Hutchings (Great Britain)

<b>1986–1989</b>	President:	Heinz Terstiege (Federal Republic of Germany)
	Vice-president:	Alan R. Robertson (Canada)
	Secretary/Treasurer:	Jan Walraven (The Netherlands)
	Members:	John B. Hutchings (Great Britain)
		Roberto Daniel Lozano (Argentina)
	Leo Mori (Japan)	
	Werner Spillmann (Switzerland)	
Auditors:	Anders Hård (Sweden)	
	Peter K. Kaiser (Canada)	
Newsletter Editor:	Alan R. Robertson (Nr. 3, 1986, to Nr. 4, 1987)	
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<b>1990–1993</b>	President:	Alan R. Robertson (Canada)
	Vice-president:	Lucia Rositani Ronchi (Italy)
	Secretary/Treasurer:	Michael R. Pointer (Great Britain), resigned before June 1990 Cees van Trigt (The Netherlands)
	Members:	Paul Green-Armytage (Australia)
		Antal Nemcsics (Hungary)
Leonhard Oberascher (Austria)		
	Allan B. J. Rodrigues (USA)	
Newsletter Editor:	Paul Green-Armytage (Nr. 5, 1990, to Nr. 8, 1993)	
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<b>1994–1997</b>	President:	Lucia Rositani Ronchi (Italy)
	Vice-president:	Mitsuo Ikeda (Japan)
	Secretary/Treasurer:	Cees van Trigt (The Netherlands)
	Members:	Paula J. Alessi (USA)
		Roy M. Osborne (Great Britain)
Frank Rochow (Germany)		
Lars Sivik (Sweden)		
Auditors:	John B. Hutchings (Great Britain)	
	Jan Walraven (The Netherlands)	
Newsletter Editor:	Roy M. Osborne (Nr. 9, 1994, to Nr. 12, 1997)	
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<b>1998–2001</b>	President:	Mitsuo Ikeda (Japan)
	Vice-president:	Paula J. Alessi (USA)
	Secretary/Treasurer:	Frank Rochow (Germany)
	Members:	Michel Albert-Vanel (France)
		Jin-Sook Lee (Korea)
Javier Romero (Spain)		
Maks Tusak (Slovenia)		
Auditors:	John B. Hutchings (Great Britain)	
	Heinz Terstiege (Germany)	
	Günter Döring (Germany)	
Newsletter Editor:	Paula J. Alessi (Nr. 12, 1997, in collab with R. Osborne, to Nr. 15, 2001)	

# ASSOCIATION INTERNATIONALE DE LA COULEUR (AIC) CONTINUED

2002-2005	President:	Paula J. Alessi (USA)
	Vice-president:	Paul Green-Armytage (Australia)
	Secretary/Treasurer:	Frank Rochow (Germany)
	Members:	José Luis Caivano (Argentina)
		Joaquín Campos Acosta (Spain)
		Aran Hansuebsai (Thailand)
	Auditors:	Hirohisa Yaguchi (Japan)
John B. Hutchings (Great Britain)		
Newsletter Editor:	Tomas Hård (Sweden)	
		Paul Green-Armytage (Nr. 16, 2002)

## AIC Study Groups and Chairpersons

### Colour Order Systems (1978–1990?)

1978–1983	Günter Wyszecki (Canada)
1984–1985	Fred W. Billmeyer, Jr. (USA)
1986–1987	C. James Bartleson (USA)
1987–1990?	Nick Hale (USA)

### Color Education (1978–present)

1978–1983	János Schanda (Hungary)
1984–1986	Oscar Estévez
1987–1992	Nancy Jo Howard (USA)
1993–1995	Eric Melse (The Netherlands)
1996–1998	Roy M. Osborne (Great Britain)
1999–today	Berit Bergström (Sweden)

#### Sub-group, Color in Art Education

2001–today	Roy M. Osborne (Great Britain)
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### Environmental Color Design (1982–present)

1982–1988	Anders Hård, chair (Sweden),
	Lars Sivik, secretary (Sweden)
1989–1997	Leonhard Oberascher (Austria)
1998–today	José Luis Caivano, chair (Argentina),
	Leonhard Oberascher, co-chair (Austria)

### Visual Illusions and Effects (1993–present)

1993–today	Oswaldo da Pos (Italy)
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### Color Perception of the Elderly (2001–present)

2001–today	Katsunori Okajima (Japan)
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## **AIC Judd Award Recipients**

Since 1973, when Betty Judd proposed to establish an AIC award in memory of her husband, Deane B. Judd, to recognize outstanding work in the field of color science and technology, the International Color Association has been carrying out the process of selection of the recipients for this award every two years.

The selection is an arduous procedure that includes nominations presented by AIC members, and analysis of antecedents of the nominees by a Committee mostly composed by previous recipients of the award.

The color researchers that have received this award are:

- 1975** Dorothy Nickerson (USA)
- 1977** William David Wright (Great Britain)
- 1979** Gunter Wyszecki (Germany, USA, Canada)
- 1981** Manfred Richter (Germany)
- 1983** David Lewis MacAdam (USA)
- 1985** Leo Maurice Hurvich (USA)  
Dorothea Jameson (USA)
- 1987** Robert William Gainer Hunt (Great Britain)
- 1989** Tarow Indow (Japan, USA)
- 1991** Hans Vos (The Netherlands)  
Pieter Walraven (The Netherlands)
- 1993** Yoshinobu Nayatani (Japan)
- 1995** Heinz Terstiege (Germany)
- 1997** Anders Hård,(Sweden)  
Gunnar Tonnquist,(Sweden)  
Lars Sivik (Sweden)
- 1999** Fred W. Billmeyer Jr. (USA)
- 2001** Roberto Daniel Lozano (Argentina)

