

**ASSOCIATION
INTERNATIONALE
DE LA COULEUR**

**INTERNATIONALE
VEREINIGUNG
FÜR DIE FARBE**

**INTERNATIONAL
COLOUR
ASSOCIATION**

NEWSLETTER

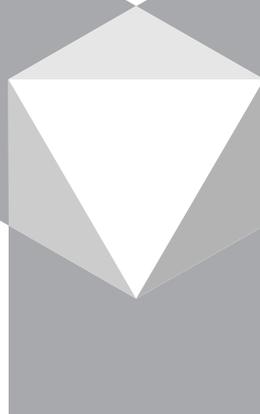
2004

NO. 18

EDITED BY

Paul Green-Armytage

Department of Design
Curtin University of Technology
GPO Box U 1987
Perth 6845
Western Australia



CONTENTS

Editor's Note.....	1
President's Report.....	2
Secretary/Treasurer's Report.....	7
Auditors' Reports.....	8
AIC General Assembly.....	10
Executive Committee.....	15
Member Organisations	16
Observers	19
AIC 2003 Bangkok.....	20
AIC 2004 Porto Alegre.....	22
AIC 2005 Granada.....	23

Reports from Member Organisations

ARGENTINA	25
AUSTRALIA.....	27
BULGARIA.....	28
FINLAND.....	29
FRANCE	30
GREAT BRITAIN	31
ITALY	33
JAPAN	35
NETHERLANDS	36
SLOVENIA	38
SPAIN	40
SWEDEN.....	41
SWITZERLAND.....	45
THAILAND.....	47
UNITED STATES OF AMERICA.....	48

Reports from Study Groups

Colour Education.....	49
Environmental Colour Design.....	50
Visual Illusions and Effects.....	51
Colour Perception of the Elderly.....	53

Reports from CIE

CIE Division 1.....	54
CIE Division 2.....	57

EDITOR'S NOTE

First I would like to thank all those who have sent reports for this Newsletter and to apologise for the delay in going to press. As you will see from President Paula Alessi's Report, 2003 was a significant year for the AIC. It was desirable that the proposed changes within the Executive Committee be finalised and formally ratified by members so that the outcome could be reported in this Newsletter.

Special Feature:

The Newsletter contains a report on the very successful Midterm Meeting in Bangkok, Thailand. On a personal note, it was a great pleasure and privilege for me to represent AIC President Paula Alessi during the meeting and, especially, to present the AIC Deane B Judd Award to Prof Mitsuo Ikeda on her behalf. My thanks to Aran Hansuebsai and Frank Rochow for sending the photographs which accompany the report.

Revised procedure for distribution of the Newsletter:

As announced in President Paula Alessi's Report, a new procedure has been agreed for the distribution of the AIC Newsletter. The representative of each member organization will receive one copy only but will also receive a CD with a printable version. This will save costs, but will also make it easier for each member organization to reprint the Newsletter for local distribution. Single copies will be sent, as usual, to Observers and others who normally receive a copy of the Newsletter.

Upcoming AIC meetings:

The Newsletter contains details of the next AIC meeting, which will be held in Porto Alegre, Brazil, in November this year, and details of our next Congress, which will be held in Granada, Spain, in May 2005.

Acknowledgment:

I would like to thank Marnee Rinaldi, once again, for her help in formatting the Newsletter and preparing the files for the printer.

In editing the newsletter I have made the same kinds of minor changes, re-ordering of material, and addition of headings as in previous issues. As usual, 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.

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
and
www.AIC-color.org

Paul Green-Armytage
Member of the AIC Executive Committee

PRESIDENT'S REPORT



My dear AIC friends, it is my pleasure to be addressing you again in this AIC Newsletter. I certainly enjoy hearing about all the latest and greatest color news that is taking place on a daily basis within our member countries all around the world. This Newsletter breaks all land and water barriers that keep us physically separated and brings us together under our common interest of colour. We all owe unending gratitude to our Editor, Paul Green-Armytage and his assistant, Marnee Rinaldi for putting together this premier AIC publication.

Now it is time to look at our year in review. We have had many significant “firsts” in AIC history this year. 2003 was the first year that we had to undergo a changing of the guard within the AIC Executive Committee. This was the first year that we had our President carry out her duties at our meeting via videoconference. This was the first year that a virus (SARS) affected international travel. Finally, this was the first year that we held a General Assembly Meeting at the AIC Midterm Meeting. My report will conclude with an AIC 2003 accomplishment of which we are very proud. This was the first time since 1983 that our participants went home with proceedings in their hands following our AIC 2003 Midterm Meeting in Bangkok, Thailand. Let’s begin by discussing each of these significant “firsts” in detail.

Changing of the Guard within the AIC Executive Committee

This is the first time in AIC history that our Vice President has had to resign. The AIC Statutes do not include any explicit procedures for the case of a Vice President resignation before the term is complete. Thus

the EC took every effort to act in the best way possible to obey the spirit of the Statutes, while keeping the present EC membership intact. Here is the AIC EC proposal that was sent out to all member countries on September 17, 2003:

- Because changes in his circumstances, both professional and personal, mean he can no longer make the long term commitment required for a future AIC President, Paul Green-Armytage has regretfully found it necessary to resign as Vice President.
- The EC has come up with a proposal that results in the least amount of change in the current structure and which conforms with the spirit of the AIC Statutes. The Statutes allow for a by-election to fill a vacancy.
- From the AIC Statutes:
“Nominations ... may be made, with agreement of the nominees, by the EC or by regular members. Nominations by the EC ... must be sent to the national member organizations at least 6 months before the next congress. Nominations by a regular member organization, endorsed by at least 2 other national member organizations, must reach the Secretary-Treasurer at least 3 months before the congress to enable him to submit the slate of nominees to the EC and the member organizations.”
- The EC nominate Prof. José Caivano to serve for the rest of the present term as Vice President and to be our next President.
- If no other candidates are proposed within 6 months, and if member organizations endorse Prof. Caivano as AIC Vice President, there would be no need for a by-election.
- Paul Green-Armytage is able to continue as a regular EC member and Editor of the AIC Newsletter.
- Prof. Caivano would continue to chair the AIC Study Groups and would assume the Chair of the 2005 AIC Deane B. Judd Award Selection Committee.
- The Statutes require the EC to publish their nominations for the next EC 6 months before formal elections at an AIC Congress. Although our next AIC Congress is 2 years away, we will follow the spirit of this Statute. We are publishing our nomination now and will call for a resolution 6 months from now in April, 2004.
- Nominations from member organizations, endorsed by two other national member organizations, must be

received at least 3 months before the congress. Again, we will adhere to the spirit of this Statute even though our next congress is 2 years away.

- On the present occasion, member organizations who wish to nominate an alternative candidate should signal their intention to do so before December 31, 2003*. Formal nominations, duly endorsed, must be received by March 30, 2004*.
- If there are alternative candidates nominated, a postal ballot will be conducted.
- If there are no alternative candidates nominated we will notify all members accordingly and ask for formal approval of our proposals.

Please keep in mind that this unprecedented change of

officers, which has to happen now, will not influence the duration of the regular term of the other EC members. The elections for the next term will take place in 2005 as given in the Statutes. If your organisation intends to nominate an alternative candidate for AIC Vice President/President please let the AIC Secretary/Treasurer know before December 31, 2003, and please send a formal nomination, endorsed by two other AIC member organizations, before March 31, 2004.

By June 26,2004, no organization had nominated a candidate alternate to José Caivano for Vice President or a candidate alternate to Paul Green-Armytage for EC regular member. So we followed the normal AIC ballot procedures from the AIC Statutes for this EC proposal. The ballot looked as follows:

AIC Ballot

- 1) The _____ agrees / do not agree / refrain from voting to the EC proposal to have Prof. José Luis Caivano taking over the office of the AIC Vice President for the remainder of this term.
- 2) The _____ agrees / do not agree / refrain from voting to the EC proposal to have Mr. Paul Green-Armytage taking over the office of an ordinary EC member for the remainder of this term.

Your Signature

Place

Date

!!! Please send back you contribution to this ballot until July 31st, 2004 !!!

You might send it back

- a) by mail, using the address prepared below (the address field fits into the attached window-envelope when folded at the double line)
- b) by fax, to fax no. +49-30-391-8001
- c) e-mail, to offices@rochow-berlin.de , after converting the completed ballot form into an .pdf-file.

AIC Secretary / Treasurer Frank Rochow
c/o LMT Lichtmesstechnik GmbH Berlin
Helmholtzstr. 9,
D-10587 Berlin
GERMANY

PRESIDENT'S REPORT CONTINUED

To date, 15 out of our 24 member countries have returned the ballot approving the EC proposals. Our AIC Statutes state that we need a majority of votes to approve a ballot, so since we have already obtained a majority of votes, consider these two EC proposals approved. We send thanks to all AIC members for their patience and cooperation in this process that has made history for the AIC. We also sincerely thank Paul Green-Armytage for his leadership as Vice President for two years and his eager willingness to stay on as a regular EC member and as AIC Newsletter Editor. Our sincere thanks also go out to José Caivano for enthusiastically agreeing to be our Vice President and continue his coordination of all the AIC Study Groups. We are truly blessed to have such dedicated people leading our organization.

President Conducts Midterm Meeting Responsibilities via Videoconferencing

I must express my sincere apologies for being the first AIC President who could not physically attend an AIC meeting. Due to unfortunate business circumstances and a freeze on international travel at Eastman Kodak Company, I was unable to travel to Bangkok, Thailand for the AIC 2003 Midterm Meeting. I was, however, very fortunate to be able to conduct all of my Presidential responsibilities via videoconference. These responsibilities included an opening speech for the meeting, conducting the presentation ceremony for the AIC Deane B. Judd Award to Professor Mitsuo Ikeda, leading the first AIC Midterm General Assembly Meeting, and conducting the AIC Executive Committee Meeting, which lasted for four hours. I extend my sincere gratitude to Mr. Paul Green-Armytage for delivering the closing speech on my behalf. It was more appropriate that he present this closing speech, since his attendance allowed him to give a more relevant closing summary of a very successful meeting. I wish to thank Professor Aran Hansuebsai for making the videoconference possible on the Bangkok end and my supervisors at Eastman Kodak Company for making the videoconferencing possible on the Rochester, New York end. I am sad that I could not personally meet with all my AIC friends in Bangkok. However, on the other hand, I am thankful that such modern-day technology allowed me to carry on my duties as AIC President without being physically present. The videoconference communication was excellent and it truly was the next best thing to being there.

The Effect of SARS on International Travel

This was the first time the AIC had to worry about how a virus like SARS would affect attendance at the AIC

2003 Midterm Meeting in Bangkok, Thailand. The organizers were hoping for about 150 participants from abroad. Eight authors withdrew their papers citing SARS as the reason. Some participants did cite SARS as their reason for not attending. In spite of this, we were delighted to see that attendance was still good. There were 144 participants from 18 countries, including 53 from Thailand. The Color Group of Thailand put on such a successful meeting that no financial losses were suffered.

General Assembly Held at the AIC 2003 Midterm Meeting

This was the first time that we tried having a two year time period between General Assembly Meetings rather than a four year time period. This was to fulfill a vision from our former AIC President, Professor Mitsuo Ikeda. He felt that four years between General Assemblies is too long. His vision was that every two years is the ideal time period to assure better communications between the Executive Committee and the member country representatives. So the Bangkok 2003 AIC Midterm Meeting will go down in our history books as starting the every two year General Assembly tradition.

This General Assembly Meeting was very successful. Representatives from 11 member countries attended. The President's report covered the changing of the guard issues within the current EC. The Vice President's report covered discussion of the Deane B. Judd Award Selection Committee and the AIC Newsletter. The Secretary/Treasurer's Report gave membership updates. We are proud to announce our most recent membership addition was the Finnish Colour Association, after having had Harald Arnkil as an observer for so many years. This is an excellent example of how observers can be a catalyst in the formation of a local national colour association. We also welcomed a new observer from India, Ms. Suma Lakshman.

The next topic was the dues structure. Frank Rochow, our Secretary/Treasurer, mentioned that given our current annual income, expenditures and our expected future expenditures of website maintenance, registration of the AIC name and advertisements, we may be in a negative balance situation unless we take some measures to avoid it. Possible actions might be:

- an overall dues increase – The assembled member representatives are in accordance with the EC that an overall dues increase would be tolerable. However, such an increase would only be a last resort after all other ways to reduce costs and seek other sources of funding have been evaluated first.

- reduced Newsletter costs –The Assembly agreed that in the future one copy will be sent to each member and observer and a CD with a printable version will be included. This will lower printing costs and make it easier for member organizations to re-print the Newsletter in their own magazines, etc. Digital printing may also help reduce the printing costs. The EC will have to establish rules under which conditions and within which timeframe the AIC Newsletter could be published by third parties either in printed form or on the web.
- sponsorship/external funding for the AIC Deane B. Judd Award –There have been suggestions to find external corporations or institutes to be a sponsor for this award, as long as the independence of the Judd Award Selection Committee is guaranteed. Organizers of the AIC Congresses and Midterm Meetings should be encouraged to include the travel grant for the Judd-Award recipient into the overall conference budget without raising the conference fees. Companies or institutes could sponsor individual events during the Congresses and Meetings, as was the case in Rochester and Bangkok. One excellent opportunity for sponsoring the Judd Award would be to have the name of the sponsor announced in conjunction with the AIC Judd Award presentation.

The AIC website was also discussed by our Secretary/Treasurer, Frank Rochow. Because of privacy laws in several countries, we need formal consent of all members and observers to publish names and e-mail addresses, addresses, phone numbers, FAX numbers, etc. A form was sent out to all members asking them to list the credentials they want published on the AIC website. Links to websites of members/observers may also be included. Anyone wishing to post anything on the AIC website is encouraged to contact our webmaster Gerhard Roesler at roesler_gerhard@t-online.de. We extend a warm thanks to Gerhard for voluntarily serving as our webmaster. He is doing an excellent job!

The next topic of the General Assembly Meeting was information on the 2004 Interim Meeting in Porto Alegre, Brazil. Since this Newsletter contains information on this upcoming meeting, I will not discuss it further here.

We ended the General Assembly Meeting by asking for comments from our member representatives. The following comments were received:

1. The representative from Japan asked the EC and the

organizers of future meetings to announce AIC meetings earlier. This point was well taken because the AIC announcement for the 2004 meeting came out very late. The EC plans to rectify this. As a matter of fact, the EC has a pretty good idea of meeting locations from now until 2009. No announcements will be made at this time until these locations have been confirmed.

2. The representative from Japan expressed disappointment over the physical absence of AIC President Alessi.
3. Professor Mitsuo Ikeda noted disappointing attendance from countries outside of Asia and asked that efforts be made to encourage attendance by all members at future meetings. EC members responded to this noting the following important factors:
 - The 2002 meeting in Maribor, Slovenia was very well attended by Europeans. Also the Rochester meeting had a high European attendance. Perhaps this means that given the financial situation across the world today, people can more easily travel to meetings closer to where they live. (Comment by President Alessi)
 - In the present instance another contributing factor to the disappointing attendance was the proximity in terms of timing with the CIE Quadrennial Meeting in San Diego. Many people could not afford to go to both San Diego and Bangkok over a two month time period. (Comment by Frank Rochow) The AIC is planning their 2007 meeting in conjunction with the CIE 2007 Quadrennial Meeting so that this problem should not happen again.
 - As was said earlier, the SARS outbreak did lead some people to withdraw from attending. (Comment by Aran Hansuebsai)

This General Assembly Meeting was well received by all. There was good interchange between the AIC EC and the member representatives. The success was our indicator that this two year tradition for General Assembly Meetings will continue.

Significant Accomplishments for AIC in 2003

We are very proud to say that for the first time in 20 years, the final proceedings were distributed on site at registration in Bangkok at the 2003 Midterm Meeting. This was largely due to the very diligent efforts of our own EC member, Professor Aran Hansuebsai from Chulalongkorn University. The AIC Statutes state that

PRESIDENT'S REPORT CONTINUED

the proceedings should be sent to all participants within four months after the meeting. This four month time period has been more like six months and in the case of the 9th Congress in Rochester, the time period was an embarrassing one year. So our sincere congratulations go out to The Color Group of Thailand for being the only member country in the last twenty years of AIC history to distribute very high quality proceedings on site during registration. Please let this serve as an example to us all and perhaps let's see if this can start a continuing precedent for all AIC meetings to follow.

In summary, the year 2003 has been a year of "firsts" that will go down in the AIC history books. Please allow me to close by quoting from my favorite artist who always shows a special appreciation for color and light, Thomas Kinkade. "Each of us, in our own way, is called to let our light shine." Throughout this 2003 year of "firsts" we have been enriched by the light that shines from our members in many different ways all over the world. Thank you to all for "letting your light shine" on AIC!

Respectfully submitted,
Paula J. Alessi, AIC President

REPORT OF THE SECRETARY / TREASURER

Dear members and observers!

In the last year 2003 AIC held its Midterm Meeting in Bangkok, Thailand. Although travel obstacles caused by economical restrictions, security measures, and health precautions had their impact, we could celebrate a very successful meeting. The members of the Executive Committee met on-site, with the President Paula Alessi present via video conferencing.

As already stated last year, within the next quadrennium a revision of the membership/observer-dues scheme must take place to keep AIC running and make AIC ready for coming challenges. I presented the actual figures of the year 2002 during the EC-meeting and the General Assembly. The assembled member delegates expressed understanding for the need of a future increase of the dues. Please find the compiled data of the AIC accounts 2002 and 2003 attached.

I mailed the balance sheets and vouchers to John Hutchings and Tomas Hård for auditing. Let me express my sincere thanks to both of them for their valuable work.

The end-of-the year balances of the last 3 years read as follows:

2001:	CHF	7,861.21
2002:	CHF	8,808.85 (no Judd Award in this year)
2003:	CHF	7,129.58

From these figures it is obvious that, even with reduced expenditures for the Newsletter, the AIC assets are decreasing slightly, but constantly.

I am looking forward to seeing most of you in Porto Alegre,



Frank Rochow
AIC Secretary/Treasurer

Compiled Data of AIC Account 2002

Opening Balance January 1st, 2002:

UBS	7,011.27	CHF
Cash	849.85	CHF
Total	7,861.12	CHF

Income 2002:	UBS	1,870.30	CHF
	Cash	663.70	CHF
	Total	2,534.00	CHF

Expenditure 2002:	UBS	1,097.40	CHF
	Cash	488.87	CHF
	Total	1,586.27	CHF

Closing Balance December 31st, 2002:

UBS	7,784.17	CHF
Cash	1,024.68	CHF
Total	8,808.85	CHF

Breakdown of transactions 2002:

Income from members and observers:	2,534.00	CHF
Bank fees, interest, copies, etc.:	-147.20	CHF
Newsletter including mailing:	-1,439.07	CHF

Compiled Data of AIC Account 2003

Opening Balance January 1st, 2003:

UBS	7,784.17	CHF
Cash	1,024.68	CHF
Total	8,808.85	CHF

Income 2003:	UBS	2,443.25	CHF
	Cash	631.75	CHF
	Total	3,075.00	CHF

Expenditure 2003:	UBS	3,988.05	CHF
	Cash	766.22	CHF
	Total	4,754.27	CHF

Closing Balance December 31st, 2003:

UBS	6,239.37	CHF
Cash	890.21	CHF
Total	7,129.58	CHF

Breakdown of transactions 2003:

Income from members and observers:	3,070.25	CHF
Bank fees, interest, copies, etc.:	-181.00	CHF
Newsletter including mailing:	-1,817.52	CHF
Judd Award:	-2,751.00	CHF

AUDITOR'S REPORT

Stockholm 2004-04-18

Dipl. Ing. Frank Rochow
AIC Secretary/Treasurer
c/o LMT Lichtmesstechnik Gmbtt
Berlin
Helmholtzstr. 9
D-10587 Berlin
Germany

Audit report

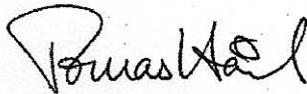
AIC 2002-01-01 – 2002-12-31 and 2003-01-01 – 2003-12-31

I have copies of the AIC accounts, bank statements and additional comments, relating to the twelve months periods ending on December, 2002 and 2003.

I have found the documentation to be in very good order, easy to follow and the USB Bank Base account statements (CHF 6239,37) to agree with the records of income and expenditure for the period mentioned.

The cash balance (CHF 890,21) 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



Tomas Hård

AUDITOR'S REPORT

John Hutchings
food colour and appearance consultant

6 Queens Road
Colmworth
Bedford MK44 2LA
United Kingdom

tel +44 (0)1234 376768
john.hutchings@physics.org

Dipl.-Ing Frank Rochow
AIC Secretary/Treasurer
c/o Lichtmesstechnik GmbH Berlin
Helmholtzstr. 9, D-10587 Berlin
Germany

20th March 2004

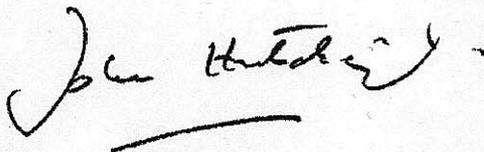
Dear Frank,

AIC accounts for the two years ending 31st December 2003

I have copies of the AIC accounts and bank statements relating to the two years ending 31st December 2003.

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 31st December 2003 is 6239.37 CHF. For obvious logistical reasons I am unable to confirm the cash balance of 890.21 CHF shown in the cash account. However, the bank and cash accounts are consistently well presented.

Yours sincerely,



AIC GENERAL ASSEMBLY

Venue: Hyatt Erawan Hotel
Bangkok, Thailand
Date: August 5th, 2003
Time: 08:05 –09:05

Present:

Ms. Paula Alessi (President) via Videoconference
Mr. Paul Green-Armytage (Vice President)
Dipl.-Ing. Frank Rochow (Secretary/Treasurer)
Prof. José Luis Caivano (EC-member)
Prof. Aran Hansuebsai (EC-member)
Prof. Hirohisa Yaguchi (EC-member)

Representatives of the following 11 member organizations:

Argentina

Grupo Argentino del Color

Australia

Colour Society of Australia

Finland

The Finnish Colour Association

Germany

Deutscher Verband Farbe

Great Britain

The Colour Group (Great Britain)

Italy

Associazione Ottica Italiana

Japan

Color Science Association of Japan

Republic of Korea

Korean Society of Color Studies

Sweden

Swedish Colour Centre Foundation

Thailand

The Color Group of Thailand

USA

Inter-Society Color Council

Agenda of the General Assembly

1. Welcome note of the President
2. President's Report
3. Vice President's Report
 - a. Discussion of Judd Award Selection Committee
 - b. Discussion of Newsletter
4. Secretary/Treasurer's Report
 - a. Membership updates
 - b. Dues structure
 - c. AIC website
 - d. AIC meeting 2004
5. Matters from our members

1. Welcome note of the President

The AIC President Ms Paula Alessi welcomes the AIC-members to Bangkok, thanking Prof. Aran Hansuebsai and the technical staff to make the videoconference possible. She apologizes for not being able to be in Bangkok, due to business circumstances. She reports sincere apologies from our fellow EC member, Prof. Joaquín Campos Acosta, who is not able to participate because of health problems.

2. Report of the President

Ms Alessi explained why this GA has been called. It happened to fulfill a vision of our former President, Professor Mitsuo Ikeda, who expressed that 4 years between General Assemblies is too long and 2 years would be ideal for better communications between the Executive Committee and the member country representatives. The Bangkok 2003 Midterm Meeting will go down in our history books as starting this 2 year General Assembly tradition.

The President now reads an announcement concerning coming changes in the EC as follows:

- *I have a sad announcement to make: Because changes in his circumstances, both professional and personal, mean he can no longer make the long term commitment required for a future AIC President, Paul Green-Armytage has regretfully found it necessary to resign as Vice President.*
- *The EC has come up with a proposal that results in the least amount of change in the current structure and which conforms with the spirit of the AIC Statutes. The Statutes allow for a by-election to fill a vacancy.*
- *From the AIC Statutes, "Nominations ... may be made, with agreement of the nominees, by the EC or by regular members. Nominations by the EC ... must be sent to the national member organizations at least 6 months before the next congress. Nominations by a regular member organization, endorsed by at least 2 other national member organizations, must reach the Secretary-Treasurer at least 3 months before the congress to enable him to submit the slate of nominees to the EC and the member organizations."*
- *The EC nominate Prof. José Caivano to serve for the rest of the present term as Vice President and to be our next President.*
- *If no other candidates are proposed within 6 months, and if member organizations endorse Prof. Caivano as AIC Vice President, there would be no need for a by-election.*

- *Paul Green-Armytage is able to continue as a regular EC member and Editor of the AIC Newsletter.*
- *Prof. Caivano would continue to chair the AIC Study Groups and would assume the Chair of the 2005 AIC Deane B. Judd Award Selection Committee.*
- *The EC is informing you of these nominations; other national representatives who are not present will be informed by mail.*
- *The Statutes require the EC to publish their nominations for the next EC 6 months before formal elections at an AIC Congress. Although our next AIC Congress is 2 years away, we will follow the spirit of this Statute. We are publishing our nomination now and will call for a resolution 6 months from now in early February, 2004.*
- *Nominations from member organizations, endorsed by two other national member organizations, must be received at least 3 months before the congress. Again, we will adhere to the spirit of this Statute even though our next congress is 2 years away.*
- *On the present occasion, member organizations who wish to nominate an alternative candidate should signal their intention to do so before November 6, 2003. Formal nominations, duly endorsed, must be received by February 6, 2004.*
- *If there are alternative candidates nominated, a postal ballot will be conducted.*
- *If there are no alternative candidates nominated we will notify all members accordingly and ask for formal approval of our proposals.*

It is with great pleasure that the President, Ms Paula Alessi, now announces the recipient of the 2003 AIC Deane B. Judd Award to be our former President and her EC mentor, whom she greatly admires, Professor Mitsuo Ikeda.

3. Report of the Vice President

The Vice President now reads an announcement concerning his resignation as follows:

- *Following the announcement by President Paula Alessi of my resignation, I would like to assure you that I considered my situation very carefully but kept coming to the same conclusion. Uppermost in my mind was that I should do what would be in the best interest of the AIC.*

- *I believe we are very fortunate that Prof. José Caivano is able and willing to take on the role of Vice President and I hope our proposal will be endorsed by the member organizations. Prof. Caivano has been a great contributor to the work of the AIC and I believe he would be an excellent President.*

a. Discussion of Judd Award Selection Committee

First Paul Green-Armytage added his congratulations to the winner of the Award for 2003, Professor Mitsuo Ikeda.

- Five nominations were received for the 2003 Award. All five nominees have made outstanding contributions to our understanding of colour.
- The Vice President thanks those who made the nominations and prepared the documentation in support. He thanks, especially, the members of the Award Selection Committee. Eight previous winners of the Award gave very careful consideration to the nominations. It was clearly a difficult task, but there is no doubt that Professor Ikeda is a very worthy winner.
- The next Award will be presented in 2005 at the 10th Congress in Granada. All members are invited to consider making a nomination. Nominations should be supported by documentation of the nominee's accomplishments in the world of colour, biographical information and a list of publications.

b. Discussion of the Newsletter

- All representatives of AIC member organizations should have received one copy of this year's Newsletter by airmail. A further nine copies are following by sea. This arrangement is to get the information to members as soon as possible but to save money on postage overall.
- A PDF file of the Newsletter has been sent for posting on the AIC Website to our webmaster, Dr. Gerhard Roesler.
- It is particularly pleasing to be able to include reports from so many of our members –16 out of 24 –and inspiring to learn about the activities in different countries.
- Paul thanks all those who sent contributions, especially: Dr. Miyoshi Ayama for preparing the citation for Prof. Ikeda. It is a particular privilege to be able to include this in the Newsletter; Prof. José Caivano for compiling the summary history of the AIC. There are a few meetings for which we don't have details of the number of participants and papers.

AIC GENERAL ASSEMBLY CONTINUED

We would be grateful to anyone who is able to fill any gaps so that he can publish an updated history in next year's Newsletter; Dr. Vera Golob, Dr. Slava Jeler, and Dr. Zoran Stjepanovic for their account of last year's highly successful AIC meeting on Colour and Textiles in Maribor, Slovenia. Their account is included in the report from Slovenia.

- Thanks also to: Marnee Rinaldi, his colleague and fellow member of the Colour Society of Australia, who formatted the Newsletter and prepared the files for the printer; Justine Koles and her colleagues at Curtin Print and Design for their efficiency and the high quality of their printing.

4. Report of the Secretary/Treasurer

a. Membership updates

Frank Rochow lists now 24 color organizations by name as AIC members. The most recent addition was the Finnish Colour Association to join AIC as a member, after having had Harald Arnkil as an observer for so many years. This is an excellent example how observers can be a crystallization point to form local national colour associations. We also could welcome a new observer from India, Ms Suma Lakshman.

b. Dues structure

The Secretary / Treasurer reports that, in the not too distant future, measures will have to be taken to ensure that the annual income/expenditure balance is no longer negative. To describe the current situation the following figures are presented:

- Income in a 2 years period: **US \$3,500**
- Expenditures incl.
Judd Award in a 2 years period: **US \$3,900**
- Closing Balance
December 2002: **CHF 10,500 = US\$7,650**
- Expenditures for Newsletter per year: **US \$1,400**

Expected future expenditures:

- Website maintenance
- Registration of AIC name
- Advertisements

Possible actions are:

i. Overall Dues Increase

The assembled member representatives are in accordance with the EC that an overall increase of the dues would be tolerable. All ways to reduce costs, or to find other sources of funding, should be evaluated first.

ii. Reduced Newsletter costs

The Assembly agrees that in the future one copy will be sent to each member and observer and a CD with a printable version will be included. This way printing costs are lower and it is much easier for our member organizations to re-print the Newsletter in their own magazines, etc. Digital printing could help to reduce printing costs, as well. Paul will look into this. The EC will have to establish rules under which conditions and within which timeframe the AIC Newsletters could be published by third parties either in printed form or on the web.

iii. Sponsorship/External funding for AIC Deane B. Judd Award

There have been suggestions to find external corporations or institutes to sponsor the AIC Deane B. Judd Award, as long as the independence of the Judd Award Selection Committee is guaranteed. Organizers of the AIC Congresses and Midterm Meetings should be encouraged to include the travel grant for the Judd Award recipient into the overall conference budget without raising the conference fees. Companies or institutes could sponsor individual events during the Congresses and Meetings, as was the case in Rochester and in Bangkok. One excellent opportunity for sponsorship would be to have the name of the sponsor announced in conjunction with the AIC Judd Award.

c. AIC website

Frank Rochow explains that, because of privacy laws in several countries, we need the formal consent of all members and observers to publish names with e-mail addresses, addresses, phone numbers, etc. The Secretary/Treasurer will provide a form where you can fill in all the credentials you want to be published on the AIC website. Links to websites of members/observers or interest groups may also be included. Everybody should feel free to send documents they want to be posted on the AIC website directly to our webmaster

roesler_gerhard@t-online.de

5. AIC meeting 2004

On behalf of the Brazilian organizers, Prof. Caivano reports on the progress of the preparations. The Scientific Committee has been formed to take care of the technical portion of the meeting. The Scientific Committee consists of members from Brazil, other South American countries and other AIC member countries from around the world. Contact with some of the Keynote Speakers has been established.

Dates: November 2-5, 2004
 Place: Porto Alegre, Brazil, Convention Center,
 Catholic University
 Theme: "Color and Paints"

The theme can be seen from the technical or artistic point of view, including the phases of production (physical, chemical, technological aspects), applications (industry, art, architecture & design), conservation & restoration, impact on the environment, historical aspects, marketing, etc.

Important Dates:

March 1, 2004 Abstract submission
 April 1, 2004 Exhibitor's advanced registration
 June 1, 2004 Author's notification of acceptance
 September 17, 2004 Advanced registration
 September 17, 2004 Manuscripts for proceedings

Registrations Fees:	Advanced	On site
Professional, participant	US \$110	US \$130
Accompanying person	US \$60	US \$70
Student	US \$80	US \$95

Organizer: Brazilian Color Association

Organizing Committee

President: Hanns Peter Struck
 General Secretary: Maira Knop
 General Chair: Nelson Petzold
 Secretary of the Meeting: Catia Brach Monser
 Technical Program Chair: Roberto Sperotto
 Exhibition and Poster Chair: Roberto Ilhescas
 Finance and Fundraising Chair: José A Facchinetto
 Event Chair: Erni Clovis Gil
 Publicity and
 Publications Chair: Norton Eduardo
 S. da Cunha
 Opinion Research Chair: Cristina Amaral

Scientific Committee

Brazil

Nelson Bavaresco
 Catia Brach Monser
 Gilberto Correa da Costa
 Norton Eduardo da Cunha
 Geraldo Dalla Valle
 Robert Hirschler
 Jarbas B. Karman
 Nelson Petzold
 Marcos Quindici
 Renata Rubim
 Roberto Sperotto
 Rui Spohr

Hanns Peter Struck

Argentina

José Luis Caivano
 Roberto D. Lozano
 María L. de Mattiello

Austria

Leo Oberascher

Italy

Oswaldo Da Pos

Japan

Hirohisa Yaguchi
 Katsunori Okajima

Spain

Joaquín Campos Acosta
 Manuel Melgosa
 Javier Romero

Sweden

Berit Bergström

Thailand

Aran Hansuebsai

UK

John Hutchings

USA

Allan Rodrigues

Maximum number of presentations allowed in the program:

Keynote lectures	6
Oral papers	47
Total oral presentations:	53
Posters:	no limit

Tasks of the Scientific Committee:

- Preparation of an orientative list topics having to do with "Color and Paints"
- Selection and invitation of "keynote speakers"
- Review of abstracts
- Acceptance letters, including comments about the abstracts
- Arrangement of abstracts according to subject
- Organization of the thematic oral and poster sessions in the program
- Proposals and selection of chairpersons for the oral sessions
- Translation into Portuguese of the keynote lectures (text to be projected simultaneously with the speech)

AIC GENERAL ASSEMBLY CONTINUED

5. Matters from our members

- The representative from Japan asks the EC and the organizers of future meetings to announce AIC meetings earlier.
- The representative from Japan expressed disappointment over the absence of the AIC President Paula Alessi
- Professor Mitsuo Ikeda noted disappointing attendance from countries outside Asia and asked that efforts should be made to encourage attendance at future meetings. EC members responded to this comment noting three important factors:
 1. The 2002 meeting in Maribor, Slovenia, was very well attended by Europeans. Also the Rochester, NY meeting had a high European attendance. Perhaps this means that people can more easily travel to meetings that are closer to where they live. (Comment by President Paula Alessi)
 2. In the present instance another contributing factor to the disappointing attendance was the proximity in terms of time of the CIE meeting in San Diego –many people could not afford to attend AIC as well as CIE (Comment by Frank Rochow) –and
 3. The SARS outbreak which had led a number of people to withdraw. (Comment by Professor Aran Hansuebsai)

End of the Minutes of the AIC General Assembly, August 5th, 2003

Frank Rochow
AIC Secretary Treasurer
Berlin, August 22nd 2003

Paula Alessi
AIC President
Rochester, August 22nd 2003

AIC EXECUTIVE COMMITTEE

AIC PRESIDENT

Mrs Paula J. Alessi
Eastman Kodak Company
1700 Dewey Avenue
Rochester, N.Y., 14650-1907
USA
Tel (W): +1 585 477 7673
Fax: +1 585 477 0127
Email: paula.alessi@kodak.com

AIC VICE PRESIDENT

Prof. José Luis Caivano
Universidad de Buenos Aires
Secretaria Investigaciones FADU-UBA
Ciudad Universitaria Pab. 3 piso 4
1428 Buenos Aires
Argentina
Tel: +54 11 4789 6328
Fax: +54 11 4702 6009
Email: jcaivano@fadu.uba.ar

AIC SECRETARY/TREASURER

Dipl.-Ing. Frank Rochow
LMT Lichtmesstechnik GmbH Berlin
Helmholtzstr. 9
D -10587 Berlin
Germany
Tel: +49 30 393 4028
Fax: +49 30 391 8001
Email: offices@rochow-berlin.de

AIC EC MEMBER

Dr Joaquín Campos Acosta
Instituto de Física Aplicada (CSIC)
Departamento de Metrología
Serrano, 144
28006 Madrid
Spain
Tel: +34 91 561 8806
Fax: +34 91 411 7651
Email: jcampos@ifa.cetef.csic.es

AIC EC MEMBER

Mr Paul Green-Armytage
Curtin University of Technology
Department of Design
GPO Box U1987
Perth 6845
Western Australia
Tel: +61 8 9266 2276
Fax: +61 8 9266 2711
Email: p.green-armytage@exchange.curtin.edu.au

AIC EC MEMBER

Prof. Dr Aran Hansuebsai
Chulalongkorn University
Dept. of Imaging and Printing Technology
Phyathai Road
10330 Bangkok
Thailand
Tel: +66 2 218 5588
Fax: +66 2 255 3021
Email: aran@sc.chula.ac.th

AIC EC MEMBER

Prof. Hirohisa Yaguchi
Chiba University,
Faculty of Engineering
Dept. of Information and Image Sciences
1-33 Yayoi-Cho, Inage-Ku
263-8522 Chiba
Japan
Tel: +81 43 290 3472
Fax: +81 43 290 3490
Email: yaguchi@image.tp.chiba-u.ac.jp

MEMBER ORGANISATIONS

GRUPO ARGENTINO DEL COLOR

Arch. José Luis Caivano
Secretaria de Investigaciones
FADU-UBA
Ciudad Universitaria Pab. 3 piso 4
1428 Buenos Aires
ARGENTINA
Tel: +54 11 4789 6328
Fax: +54 11 4702 6009
Email: jcaivano@fadu.uba.ar

COLOUR SOCIETY OF AUSTRALIA

Dr. Ken Pidgeon
Dr. Ken Pidgeon Professional Partners Pty Ltd.
A.C.N. 083 213 496
4 Morning Glory Avenue
5158 O'Halloran Hill S.A.
AUSTRALIA
Tel: +61 8 8381 3192
Fax: +61 8 8381 1546
Email: kpidgeon@bigpond.com.au

ASOCIACIÓN BOLIVIANA DEL COLOR

Mr Nicolás Petit
Av. José María Achá y calle 5
Bloque 68, Dto. 101
P.O. Box 10305
La Paz
BOLIVIA
Tel: +591 2 791 271
Tel: +591 2 720 188
Fax: +591 2 359 436
Email: alclauz@hotmail.com
Email: anco@megalink.com

ASSOCIACAO BRASILEIRA DA COR

Hanns-Peter Struck
Rua Felipe Neri, 115 apto.4
90440-150
Porto Alegre -RS
BRAZIL
Tel: +55 51 3331 7424
Fax: +55 51 3331 7424
Email: struck@myway.com.br

COLOUR GROUP -BULGARIA

Krassimir Krastev
P.O. Box 744
Central Post Office
BG -1000 Sofia
REPUBLIC OF BULGARIA
Tel: +359 88 977 908
Email: color_bg@hotmail.com

COLOR ASSOCIATION OF CHINA

Prof Ye Guarong
President
Zhejiang University Hangzhou
Institute of Optical Radiation Technique (ORT)
310027 Hangzhou
PEOPLES' REPUBLIC OF CHINA
Tel: +86 571-6795-1191, -1183
Fax: +86 571-8796-8967
Email: ygr@moi-lab2.zju.edu.cn

SUOMEN VÄRIYHDISTYS SVY RY

Ass. Professor Harald Arnkil
Kangastie 9
00630 Helsinki
FINLAND
Tel: +358-9-798 117
Fax: +358-9-756 30577
Email: harnkil@uia.fi

CENTRE FRANÇAIS DE LA COULEUR

Professeur Guy Lecerf
Centre Universitaire de Montauban
Pôle Arts appliqués
B.P. 796
116 Boulevard de Montauriol
F -82017 Montauban
FRANCE
Email: cf-couleur@voila.fr
Website: <http://www.cf-couleur.org>

DEUTSCHER VERBAND FARBE

Dipl.-Ing Frank Rochow
LMT Lichtmesstechnik GmbH Berlin
Helmholtzstrasse 9
D -10587 Berlin
GERMANY
Tel: +49 30 393 4028
Fax: +49 30 391 8001
Email: offices@rochow-berlin.de

THE COLOUR GROUP (GREAT BRITAIN)

Dr Michael Pointer
9 Bishop's Drive
Salisbury
Wiltshire SP2 8NZ
GREAT BRITAIN
Tel: + 44 (0) 20 8943 6716
Fax: + 44 (0) 20 8943 6283
Email: mike.pointer@npl.co.uk

**HUNGARIAN NATIONAL COLOUR
COMMITTEE**

Prof. A. Nemcsics
Ungvár u. 42
H -1185 Budapest
HUNGARY
Email: nemcsics.antal@axelro.hu

ASSOCIAZIONE OTTICA ITALIANA

Prof. Lucia R. Ronchi
1, via Suor Maria Celeste
50125 Firenze (Florence)
ITALY
Tel +39 55 22 3112
Fax: +39 55 22 2090
Email: n.rositani@flashnet.it

COLOR SCIENCE ASSOCIATION OF JAPAN

Dr. Taiichiro Ishida
Graduate School of Engineering,
Kyoto University
Department of Architecture and Environmental Design
Sakyo-ku
606-8501 Kyoto
JAPAN
Tel +81 75 753 4766
Fax: +81 75 753 4766
Email: ishida@archi.kyoto-u.ac.jp

KOREAN SOCIETY OF COLOR STUDIES

Dr. Young-Sun Kim
Korea University
1, 5 Ka, Anam-Dong, Sungbuk-Ku
Seoul
REPUBLIC OF KOREA
Tel: +82 2 923 9203
Fax: +82 2 928 9203
Email: kalasun@kucn.korea.ac.kr

**NEDERLANDSE VER.VOOR
KLEURENSTUDIE**

B.J.M. Tielen
Ottoweg 7
6866 CE Heelsum
Tel: +31 (0) 317 311 977
THE NETHERLANDS

NORSK FARVEFORUM

Harald Anthonsen
National College of Art and Design
Institute of Colour
Ullvalsn 5
N -0165 Oslo
NORWAY
Tel: +47 2299 5680 (direct 5615)
Fax: +47 2299 5585

GLÓWNY URZĄD MIAR

Jerzy Pietrzykowski
Optical Radiation Standards Laboratory
Ul. Elektoralna 2
PL -00-950 Warszawa
POLAND
Fax: +48 22 620 83 78

DRUSTVO KOLORISTOV SLOVENIJE

Prof. Dr. Slava Jeler
Vetrinjska 16
SI -2000 Maribor
SLOVENIA
Tel: +386 2 220 7500
Fax: +386 2 227 692
Email: branko.neral@uni-mb.si
Email: legat@uni-mb.si

**COLOUR GROUP OF THE SOUTH AFRICAN
OPTICAL SOCIETY**

Natasha van Tonder
National Metrology Laboratory CSIR
Room 104, Building 5,
P.O.Box 395
Pretoria 0001
REPUBLIC OF SOUTH AFRICA
Tel: +27 12 841 3618
Fax: +27 12 841 4458/2131
Email: nvtonder@csir.co.za

MEMBER ORGANISATIONS CONTINUED

COMITÉ ESPAÑOL DEL COLOR

Dr Manuel Melgosa
Departamento de Optica
Facultad de Ciencias
Universidad de Granada
E -18071 Granada

SPAIN

Email: mmelgosa@goliat.ugr.es

STIFTELSEN SVENSKT FÄRGCENTRUM

Swedish Colour Centre Foundation
Berit Bergström
Igeldammsgatan 30
P.O.Box 49022
S -100 28 Stockholm

SWEDEN

Tel: +46-8-617-4700
Fax: +46-8-617-4747
Email: Swedish.colour.centre@ncscolour.com

PRO COLORE

Simone Hensch
Rebhalde 31
CH -8903 Birmensdorf

SWITZERLAND

Email: procolore@bluemail.ch

THE COLOR GROUP OF THAILAND

Prof. Dr. Aran Hansuebsai
Department of Imaging and Printing Technology
Faculty of Science
Chulalongkorn University
Phyathai Rd.
Bangkok 10330

THAILAND

Tel: +66 2 218 5588/9
Tel: +66 2 218 5581/2
Fax: +66 2 254 6530
Fax: +66 2 255 3021
Email: aran@sc.chula.ac.th

INTER-SOCIETY COLOR COUNCIL

Dr. Danny C. Rich,
11491 Sunset Hills Road
Reston, VA 20190.

UNITED STATES OF AMERICA

Tel: 703-318-0263
Fax: 703-318-0514
Email: iscc@compuserve.com
website: <http://www.iscc.org>.

AIC OBSERVERS

Dr Leonhard Oberascher

Kaltnergasse 8
A-5020 Salzburg
Austria

Dr Alan Robertson

National Research Council Canada
Inst. for Nat. Measurement Standards
Ontario K1A OR6 Ottawa
Canada

Mrs Mette Terkildsen

Dansk Farveinstitutet
Nygardterasser 277E
DK -Farum
Denmark

Prof. Dr. Theano F. Tosca

Aristotle University of Thessaloniki
Dept. of Architectural Design & Visual Arts
priv. 17, Athan Soulioti Street
546 42 Thessaloniki
Greece

Ms Suma Lakshman

Asian Paints India Limited
6A, Shantiagar
Vakola Pipeline Lane
Santa Cruz East
400055
Mumbai
India

Mr Stephen Coonan

Dublin Institute of Technology
29 Lower Dodder Road
Rathfarnham
Dublin 14
Ireland

Dr Andrew Chalmers

Dept. of Electronics & Computer Engineering
Manukau Institute of Technology
Newbury Street 09
Private Bag 94006
Manukau City, Auckland
New Zealand

Ing. G. Marconi

Grafica Editora Colon SA
Apartado 6-2797
Estafeta El Dorado, Panama
Republic de Panama

Dr. Dipl.-Ing. Andrea Urand

Spitalska c. 59
811 08 Bratislava
Slovak Republic

Dr Susan Habib

Architect M.S.
6.Sokak 47/4
Bahcelievler 06500
Ankara
Turkey

Dr Nilgün Camgöz

Bilkent University
Faculty of Art, Design and Architecture
Dept of Interior Architecture and Environmental
Design
06800 Bilkent
Ankara
Turkey

Assoc. Prof. Regin Onver

Yildiz Technical University, Faculty of Architecture
Building Physics Dept.
Besiktas
80750 Istanbul
Turkey

AIC 2003 Bangkok

Midterm Meeting Report

Aran Hansuebsai

The AIC 2003 Midterm Bangkok Meeting was organized by the Color Group of Thailand. It was held during August 4-6, 2003, at the Grand Hyatt Erawan Hotel. The opening address was delivered by Professor Usanee Yotyngyut, Vice President of Chulalongkorn University. This was followed by the welcoming address from AIC President Paula Alessi, delivered on her behalf by Vice President Paul Green-Armytage.

The title chosen for this meeting was Color Communication and Management, a subject that is very relevant to the rapidly changing world in which we live. For example, digital technology has had an enormous influence on color communication and continues to grow in importance. Virtually every area of color management will feel the dramatic effects of the digital world. Scientists, designers and end-users have been aware for years that color has profound effects on human emotions and, indeed, human wellbeing. Sophisticated color management software is rapidly becoming available to support industrial engineers, scientists and commercial operators of all kinds. In addition to scientists and engineers, psychologists, designers and artists continue to refine their understanding of human emotional responses to color in all cultures. The main topics included: Color management, Colorimetry and Color Vision, Color Imaging, Color Communication, Color Environment Design, Color Emotion and the Perception of the elderly.

Program:

The total number of attendees was 161 from 17 countries –106 foreigners and 55 Thais. There were 55 oral presentation, including 4 keynote lectures, and 43 poster presentations, of excellent quality, covering the field of color communication and management. Intensive discussions with the authors could be observed at all events. The technical program was divided into 6 sessions and 1 study group symposium. For the Social program, the attendees visited the Emerald Buddha Temple and Grand Palace as well as other places of interest in Bangkok.

Highlights:

A highlight of the Meeting was the opening session and special lecture on Color in Thai Small Puppet Art, related to the Epic Story of Ramayana. The presentation emphasized the history and how to use unique colors for each player, with extravagant show acting.



Demonstration of Thai Small Puppet Art during the opening session

A second highlight, during the Welcoming Dinner Banquet, was the presentation of the 2003 AIC Deane B. Judd Award to Professor Mitsuo Ikeda. The announcement was made by Mrs. Paula J. Alessi, the AIC President, through the Video Conference from Rochester, USA, direct to Bangkok. This was an unforgettable highlight of this event. This Award is given every two years to honor the memory of Deane B. Judd.



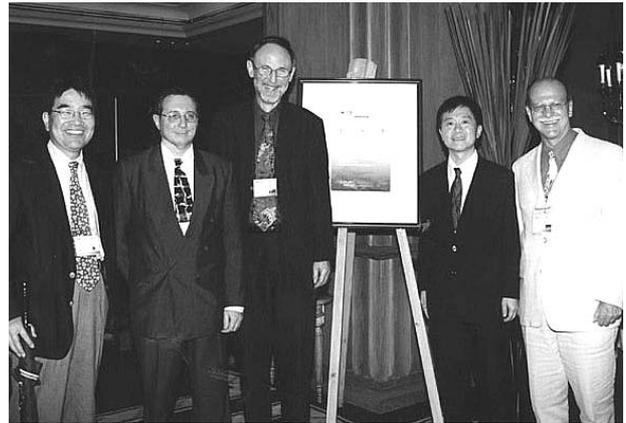
Professor Mitsuo Ikeda receives the AIC Deane B. Judd Award. Following AIC President Paula Alessi's announcement via video conference, the award was presented on her behalf by AIC Vice President Paul Green-Armytage

Professor Ikeda has many achievements and has made great contributions throughout his career as educator and researcher to the field of Vision and Color Psychophysics. He gave a special presentation on his research findings entitled Color Appearance explained,

predicted and confirmed by the concept of Recognized Visual Space of Illumination, RVSI. Professor Ikeda has published five books and about two hundred scientific papers.

For the Exhibition Display, 16 exhibitors gave visitors an appreciation of the state-of-the-art color tools that are available on the market. In addition, Thai color culture was demonstrated through the use of color in the textile, pottery, food & sweets, gems, masks and painting industries. This was a unique and attractive opportunity for the color community to come together to explore Thai colors and exchange cultural experiences.

This AIC Midterm Meeting in Bangkok would not have been possible without the support of the Federation of Thai Printing Industry, Thai Airways International and the Tourism of Thailand. Many thanks for their help in the entire organization and planning process. Appreciation, also, to the AIC executive committee, members and colleagues from around the world who came to this meeting, even though there was the crisis of SARS in Asia at the beginning of the year 2003.



*Members of the AIC Executive Committee in Bangkok.
From left to right: Hirohisa Yaguchi, José Luis Caivano,
Paul Green-Armytage, Aran Hansuebsai, Frank Rochow*



Professor Mitsuo Ikeda surrounded by past and present students following the Welcoming Dinner Banquet and presentation of the Deane B. Judd Award

AIC 2004 PORTO ALEGRE, BRAZIL

Color and Paints

Invitation Address:

Welcome! The Brazilian Color Association –ABCOR, established six years ago, has the honor of inviting the International Color Community to the Interim Meeting 2004 entitled Color and Paints. Our invitation was presented to the AIC Executive Committee during the 1999 Meeting in Warsaw, Poland. This long preparation time enabled us to launch a new idea. According to the bylaws of the organization, all International Conferences and Meetings should have no simultaneous translation. Since we know that in Brazil not many people know English well enough to be able to follow technical and artistic oral presentations, before the AIC Interim Meeting 2004, which will be held from November 3 to 5, we intend to launch the First Brazilian Academic Color Seminar, which will be held on November 1 and 2. On November 2, in the evening, we will be receiving our colleagues.

Professionals from all other associations that study color as one of their subjects are welcome and we hope they can contribute, listen to and discuss this phenomenon that catches and involves us. Target public: Architects, Interior architects, decorators, engineers, engineers who deal with color or light, designers, advertisers, people working in public relations and all professions dealing with communications, graphic designers, publishers, chemists, physicists, ophthalmologists, painters, plastic artistic, fashion designers, textile designers, colorimetrists, representatives of paint manufacturers and dealers and all other professionals interested in the phenomenon of color.

Friendly greetings

Hanns-Peter Struck
ABCOR President

Program Schedule:

Tuesday 2 November

4.00 pm Registration
6.00 pm Reception and Opening ceremony

Wednesday 3 November

9.00 am Opening Session
10.20 am Break
10.40 am Oral Session
12.00 noon Keynote Lecture
12.30 pm Lunch
2.20 pm Oral Session
3.40 pm Break
4.00 pm Oral Session or Study Group Symposium
5.30 pm Keynote Lecture

6.00 pm Posters Session / Study Group Meeting
7.00 pm Posters Session continued
8.00 pm Close of Session

Thursday 4 November

9.00 am Opening Session
10.20 am Break
10.40 am Oral Session
12.00 noon Keynote Lecture
12.30 pm Lunch
2.20 pm Oral Session
3.40 pm Break
4.00 pm Oral Session or Study Group Symposium
5.30 pm Keynote Lecture

Friday 5 November

9.00 am Opening Session
10.20 am Break
10.40 am Oral Session
12.00 noon Keynote Lecture
12.30 pm Lunch
2.20 pm Oral Session
3.40 pm Break
4.00 pm Oral Session or Study Group Symposium
5.30 pm Posters Session / Study Group Meeting
6.40 pm Keynote Lecture
7.20 pm Closing Session
8.00 pm Close of Congress

Exhibit/Show:

An exhibition will be organized during the Meeting and the Academic Seminar showing the latest developments in the technology of paints, dyes and the like. The exhibition will include: Paints and dyes for any industrial or artistic purpose, colored materials such as textiles, carpets, tiles, etc. Books and the latest publications on colors, etc.

Venue:

Convention Center of the Rio Grande do Sul Catholic University –PUCRS. Av. Ipiranga, 6681, Porto Alegre –RS, Brazil

Registration:

For further details and registration please check the website: www.abcorpoa.org

Abstracts:

All the abstracts that have been accepted for AIC 2004 Color and Paints, the Interim Meeting of the International Color Association in Porto Alegre, Brazil, are already available at <http://www.fadu.uba.ar/sicyt/color/aic2004.htm>

You can read the abstracts online, and you can also download the entire Book of Abstracts in a PDF file for Acrobat Reader.

AIC 2005 GRANADA, SPAIN

Chairman's letter:

Dear colleague,

The date of the *AIC Colour 05* Congress is approaching and in the second circular the organising committee wishes to inform you of the outline of the scientific programme and social events and also about how to submit abstracts and book hotels. We hope you will find all the information you need and that the format is easy to use. Nevertheless, if you have any doubts, please do not hesitate to get in touch with us.

The multidisciplinary character of the congress is reflected in the structure of the scientific programme. It is our aim to cover every aspect of the study of colour: the purely scientific perspective, the physical, the chemical, the physiological and psychological, the technical, all aspects of engineering and information technology, architecture and graphic design, the artistic and restoration world, and everything related to the science of colour education. To sum up, everything that has a place in the study of colour both from the fundamental understanding of colour to its practical applications.

The programming of both the scientific and the social activities will follow the well established guidelines of previous AIC congresses, taking into account the excellent infrastructure of the congress venue as well as the opportunities that Granada has to offer. We have made a selection of hotels within easy reach of both the conference centre and the city centre at a fairly wide range of prices.

We have prepared separate forms for congress registration, hotel bookings and abstract submission to simplify the administrative work of the congress. We encourage you to fill them in and send them to us as soon as possible both for your own reassurance and for the smooth running of the congress secretariat.

We feel sure that *AIC Colour 05* will be an important event in the history of the world of colour and therefore encourage all of you who have significant information to contribute in any of its fields of interest to participate, present your ideas and report on your achievements. We hope that you will find the city of Granada, with its most agreeable surroundings, to be the perfect framework for such a meeting. Both the scientific and organising committees are working hard and looking forward to making your visit both stimulating and enjoyable.

With all good wishes,
Javier Romero
AIC05 Chairman

Scope:

The Spanish Colour Committee has the privilege of organising the 10th Congress of the International Colour Association (AIC) in 2005 and to this end has put together a scientific, cultural and social programme designed to embrace all the activities which we hope will go to fulfil the prime aims of the conference, that of bringing up to date our knowledge and understanding of colour science and encouraging the exchange of ideas among the participants.

Because of the interdisciplinary nature of the conference the subjects to be dealt with are many and wide-ranging, including such varied topics as colour-appearance models, colour management, colour imaging, the multispectral processing of chromatic information, the colorimetry of foodstuffs and materials such as textiles and ceramics, colour-representation systems and colour-difference formulas, colour in education, colour vision, colour in interior design, colour within the urban environment, colour in object design, colour restoration, the use of colour as an element of artist expression and colour in different popular cultures.

The scientific programme will be arranged around symposiums, a variety of talks on particular subjects, the presentation of posters, guest lectures given by specialists renowned in their field, discussion groups and an exhibition of technology and instruments related to all aspects of colour science. Furthermore, given the ample space and range of facilities provided by the Granada Conference and Exhibition Centre, there will be plenty of room and opportunity for participants to meet to exchange personal opinions and ideas.

The social and cultural programme is intended to make such personal contact even easier as well as offering the participants the opportunity to find out about and enjoy the history and architectural heritage of Granada, together of course with its ambience. In this way we sincerely hope that the scientific and technological benefits afforded by the conference will be matched by the artistic and humanistic riches that the city and its surroundings have to offer.

Invitation to authors:

Prospective authors are invited to submit original papers for presentation in any of the technical areas related to the field of colour before 30 October, 2004. All papers will be reviewed by the scientific committee to ensure that the conference provides significant and timely information to its participants.

AIC 2005 GRANADA, SPAIN CONTINUED

Authors will be notified of acceptance by 15 December 2004. Upon notice of acceptance by the scientific committee authors will be sent detailed instructions for submitting extended manuscripts of up to four pages before March 1, 2005 to be published in the AIC Colour 05 Proceedings Book, which will be distributed to each participant upon registering for the meeting.

Deadline for submission of abstracts:

October 30, 2004

Notification of acceptance of papers:

December 15, 2004

Deadline for submitting full papers to proceedings:

March 1, 2005

Final decisions on presentation format (oral or poster) are at the discretion of the scientific committee. Authors of papers selected for oral contributions will be allocated 15 minutes, followed by an additional 5 minutes for questions and discussion. The conference language is English.

AIC COLOUR 05 Programme Topics:

As the conference covers such a wide range of topics we have prepared a list of main topics to simplify the submission process by authors:

1. Applied colorimetry
2. Colour vision
3. Colour in computer vision and image processing
4. Colour differences and appearance
5. Colour physics
6. Colour image capture, devices and media
7. Colour education
8. Colour in art
9. Colour in architecture
10. Multispectral colour science*

Venue and meeting facilities:

The venue for the 10th Congress of the International Colour Association is the Granada Conference and Exhibition Centre (Palacio de Exposiciones y Congresos de Granada), which is one of the most modern facilities of its kind in Europe, designed to provide all the necessary services and infrastructure required for a successful international conference of this type.

The attractively landscaped complex is close to the city centre and easily reached from all the main access roads leading into the city from all directions.

Scientific session facilities: The Granada Conference and Exhibition Centre offers a wide range of lecture halls and auditoriums for scientific sessions as well as opening and closing ceremonies.

Website:

For further details please see the congress website:
www.ugr.es/local/aic05

E-mail:

eurocongres@eurocongres.es

ARGENTINA



Grupo Argentino Del Color

The Argentine Color Group was founded in 1980, and is an association of institutions and individuals whose interest is the study of color science and color applications. The goals of the Group are to encourage research on problems related to color, to promote the exchange of information with similar associations abroad, to hold a center of documentation, and to integrate the different fields from which the study of color can be addressed: science, technology, art, design, etc. On a regular basis, the Group organizes lectures, seminars, and congresses, and publishes a journal/newsletter and proceedings of congresses. The GAC organized the 6th Congress of the AIC in 1989, in Buenos Aires, and six Argentine congresses in 1992 (Buenos Aires), 1994 (La Plata), 1996 (Huerta Grande, Córdoba), 1998 (Oberá, Misiones), 2000 (Mendoza), and 2002 (Rosario). At the beginning of 2004, the society had 147 members. Membership includes students, companies, institutions, and honorary members.

Next meeting:

ArgenColor 2004, 7th Argentine Color Congress
November 9-12, 2004, Buenos Aires, Argentina

The congress will be held at the School of Architecture, Design and Urbanism of Buenos Aires University. The general thematic areas will be: 1) color science and technology, 2) color and the arts, 3) color in architecture and design, 4) color education. The main language is Spanish, but papers in English and Portuguese are also welcome. Additional information: by e-mail to argencolor@fadu.uba.ar, or on the website www.fadu.uba.ar/sicyt/color/congrgac.htm. After June 2004, the preliminary program and abstracts will be available on the web.

Publications:

GAC revista (journal and newsletter): Three issues were published in 2003: Nr. 16 (April), 17 (August), 18 (December), with 32, 28, and 20 pages, respectively. *GAC revista* is 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.

Other activities:

Color meeting at the National Museum of Fine Arts:

Buenos Aires, October 7-9, 2003. The meeting was free and open to all the public, and consisted of 18 lectures delivered by: M. Musso, E. Rabuini, J. Garavaglia, A. Pappier, S. Antón, G. Cutuli, D. Varela, E. Cerrato, D. Rodríguez Barros, J. Caivano, M. Cherubini, S. Pescio, A. Gabrieloni, S. Cincotta, B. Moreiro, M. Echeveste, V. Jofré, and O. Burgos.

Exhibition of art:

The exhibition, whose curator was Omar Burgos, was organized in the ICAS Cultural Center, Buenos Aires, during September 2004. Eighteen artists that are members of GAC presented their work, including painting, drawing, sculpture, photography, and video. They were: C. Manganiello, M. Pantarotto, A. Márquez, M. Rossetti, M. Salinas, M. Cappelli, R. Lozza, O. Burgos, S. Weingast, V. Villaverde, N. Kislo, S. Estévez, A. Pappier, M. and J. Garavaglia, A. Guzmán, M. Giglio, M. Rinaldi.

Lectures:

Three special lectures were organized during 2003, all of them delivered in Spanish, at the School of Architecture of Buenos Aires University:

- *Color and the human scale*, by Dardo Bardier (Uruguay), April 21, 2003.
- *Color in the mass media*, by Luciano Guimaraes (Brazil), October 20, 2003.
- *Color management: ICC, conditions of visualization, ISO-ANSI*, by Daniel Lucero (Argentina), November 21, 2003.

Other member activities:

During 2003, one article by two GAC members (J. Caivano and M. Mattiello) was published in the journal *Color Research and Application*. Also, J. Caivano participated in the AIC Midterm Meeting 2003 in Bangkok with an oral paper (in collaboration with M. López) and a poster.

Library:

The holdings of the GAC library can be seen at www.fadu.uba.ar/sicyt/color/bibliote.htm. We accept donations of books, journals and newsletters related to color, and encourage the exchange of publications.

ARGENTINA CONTINUED

Website:

The website www.fadu.uba.ar/sicyt/color/gac.htm contains the following information: the Statutes of the Group, the list of current officers, publications available (including the Proceedings of AIC Color 1989), the newsletters, present and past congresses (including all the abstracts), membership form, library holdings, a link to the color bibliography, and a whole page with links to the AIC and other AIC national members. The GAC will appreciate if other national color associations include links to its website.

Grupo Argentino del Color,

SICyT-FADU-UBA

Ciudad Universitaria

Pab. 3 piso 4,

C1428BFA Buenos Aires,

Argentina

Tel. (54-11) 4789-6289.

E-mails: gac@fadu.uba.ar, jcaivano@fadu.uba.ar

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

AUSTRALIA

Colour Society of Australia

Activities:

The year 2003 was one of intensive activity for The Colour Society of Australia, as it was the year of our biennial conference, this occurring in addition to the individual State committees being busy running successful monthly or bi-monthly events for members.

The New Zealand Division, inaugurated during 2002, has unfortunately ceased to function. However, we are glad the Tasmanian Division has been reinstated, following the successful reinstatement of the Queensland Division last year.

The Victoria Division organised our 2003 Biennial Conference. This was held in Melbourne October 10 & 11th. It was a very successful event and congratulations go to them for this.

Executive Committee:

The National Executive of The Colour Society of Australia still 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. 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, Queensland and Tasmania. 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.

Publication:

SPECTRUM, the Journal of the Colour Society of Australia, is published three 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 wish 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 have been saddened that one of our Past Presidents, Mr. Paul Green-Armytage, who was elected AIC Vice President, has had to stand aside from this significant position.

Plans are in place to bid for the 2009 Congress to be held "down under".

Ken Pidgeon
Past National President
The Colour Society of Australia Incorporated
4 Morning Glory Avenue
O'Halloran Hill S.A. 5158
Telephone +61 8 8381 3192
Mobile 0414 705 930
Facsimile +61 8 8381 1546
E-mail kpidgeon@bigpond.com

REPUBLIC OF BULGARIA

Colour Group –Bulgaria

Activities:

During the past year, Color Group –Bulgaria continued to implement its program for the popularization and development of scientific knowledge in the field of color, color science and instrumental measurements. The following scientific and practical events took place:

National Seminar: *Integrated systems for the management of color quality, environment and labor conditions in light industries.*

National Seminar: *Colorimetric methods for the control and assessment of raw materials and finished products in textile, leather and chemical industries*, held in Plovdiv.

National Seminar *The role of color in advertising and business.*

National Seminar: *Architectural, museum and decorative lighting* (organized together with the National Lighting Committee of CIE).

National Seminar *Color and psychology*. The seminar was attended by numerous specialists of various firms and students of different universities.

Exhibitions of the works of the members of Color Group –Bulgaria: Painting: Mariana Vezarova, Lilia Ruseva; Ceramics: Maria Nozharova, Honorary member of Color Group –Bulgaria.

Color Group –Bulgaria participated successfully in the International exhibition *Printcom 2003* within the framework of the Plovdiv Spring Fair.

Color Group –Bulgaria participated, at the invitation of the G ethe Institute, in the Scientific symposium dedicated to celebrating the 150th anniversary of Wilhelm Oswald, in September 2003.

Color Group – Bulgaria participated in the Seminar organized by Apple Center Sofia on the topics of Color management of Gretag Macbeth systems. The seminar was held on a high professional level, under the leadership of Mrs. Neli Popova, director of Apple Center Sofia.

Publications:

During the past year, Color Group – Bulgaria published two issues of its news bulletin, and two compact disks, the first one including the Proceeding of the International Conference *Balkancolor 2001*, and the

other one the Proceeding of the National Seminar *Color and psychology*.

Coming Events:

The main events to be organized and held in 2004 by Color Group – Bulgaria are:

A joint exhibition to include a representation of Color Group – Bulgaria, and an exhibition of the works of Prof. Michel Albert-Vanel (France), to be held at the Exhibition Center of the Union of Bulgarian Artists in Sofia, in June 2004.

The international conference *Color and Cultural Heritage'2004 – Color in Restoration and Conservation* to be held in Varna, September 27-30, 2004. For contacts and invitations to the international conference:

Krassimir Krustev,
President of Color Group – Bulgaria
e-mail: krasso@abv.bg

COLOR GROUP – BULGARIA
President: Krassimir Krustev
Secretary: Margarita Ivanova

Address:
COLOR GROUP – BULGARIA
BG – 1000 Sofia
P.O. Box 744
BULGARIA
e-mail: color_bg@abv.bg

FINLAND



Suomen väriyhdistys – the Finnish Colour Association

Suomen väriyhdistys, the Finnish Colour Association, was founded by a small but dedicated group of Finnish colour professionals on the 24th of September 2002. The Association's first annual general meeting was held on 26th of July 2003 at the University of Art and Design Helsinki. The Association welcomes as members all persons whose involvement in colour is of a professional nature, and who accept the Association's aims. These are expressed in the bylaws as follows:

By laws:

1. The purpose of the Association is to maintain collaboration and exchange of ideas between professionals in the field of colour as well as to further and promote colour research and good use of colour.
2. In order to realise its aims the association may organise courses, symposia and conferences, collaborate with other colour organisations in Finland and abroad, and spread information and produce publications.

Activities:

After official registration of the bylaws at the end of 2002 the executive committee has concentrated its efforts on recruiting members and creating an infrastructure for the Association. At the end of 2003 the FCA had around sixty members, a membership register, bank account and an internet home site. The internet home site is seen as the Association's main networking platform in the future and has already proved to be a fast and efficient channel for spreading information about the Association's own activities as well as other Finnish and international colour organisations, including the AIC.

During autumn 2003 the FCA arranged a competition for the design of the Association's logo. This competition, which was open for students of seven Finnish art and design schools, attracted over sixty entries. The winners were announced at the fifth Colour Theory Day held on 1st December 2003 in the LUME Media Centre of the University of Art and Design Helsinki. This one-day symposium, which was now organised for the first time in collaboration between the University and The Finnish Colour Association, attracted around 200 delegates. The theme of the day was *Identification, measurement and management of*

colours as tools for the artist and designer. The University is continuing its collaboration with the Association in spring 2004 with a Colour Theory Day on building restoration under the title *Colour in the urban environment – The historical colours of Helsinki.*

The association arranges also smaller events for members only; the one in 2003 was an excursion to the newly renovated and restored Sinebrychoff Museum of Old European Art in Helsinki. The aim of the association is to arrange in the future similar gatherings also for special interest groups of the association, comprising for example artists, designers, researchers or colour industry people – not forgetting, however, the fundamental task of the FCA, which is interdisciplinary discourse.

Executive Committee:

2003, the first year of activity, was very busy for the executive committee. It convened ten times, arranged the first annual general meeting and planned two symposia and one competition. The Association received financial support for its activity from the Finnish Paint Industry Association and was generously assisted by Epson Finland in arranging the logo competition.

Office bearers:

Mr. Harald Arnkil, Chairman
Senior Lecturer, Colour Studies
Faculty of Visual Culture
University of Art and Design Helsinki
Mr. Esa Laaksonen, Vice-Chairman
Architect SAFA, Director, Alvar Aalto Academy
Mr. Lauri Niemi, Secretary
Marketing Manager, NCS Colour Centre Finland
Mr. Leif Riipinen, Treasurer
Sales Manager, Mitaten Finland

Members of the Board:

Mrs. Taru Huokuniemi,
Product Development Chemist, CPS Color
Ms. Riitta Jokiniemi-Covell
Research Consultant, Covell Consulting
Mr. Markku Pääkkönen
Painter, Visual Artist

Deputy members of the Board:

Ms. Saara Pyykkö
Colour Teacher, Visual Artist
Ms. Päivi Hintsanen
Web Designer, Media Artist

FRANCE

Centre Français de la Couleur

The Society:

Founded in 1976, the Centre Français de la Couleur is an interdisciplinary association which develops interest for the various aspects of colour, and which favours exchanges among its members about that subject.

Publications:

Primaires is 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.

Activities:

CFC remains an active participant in the *Ecole de Printemps*, a high level colour course developed by OKHRA (A cultural organization involved in maintaining traditional knowledge and ancient industrial equipment in the field of ochre and applied pigments), in cooperation with C2RMF (Research and Restoration Center of the French Museum) and the University of Pierre et Marie Curie (Paris). This cooperation started four years ago. Each year a 4-days course is conducted on the colour of materials. During 2003 the 4-days course was about the colour of metals and was held in March 2003. For March 2004 the topic is the colour of metallic oxides. The course has a typical format of one-hour lectures followed by discussion with participants. There are two sessions in the morning and three in the evening. Most of the afternoon is left free for informal meetings and discussions between members. On Thursday a visit to a typical site is organised during the morning and a set of practical activities about colour is offered to the participants. The course planned for 2005 will be about the relations between colour and language. In 2003 the school became 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, France. The program and the abstracts can be downloaded from the CFC webpages.

CFC has also participated in the preparation of the one-day conference held in Paris, October 2003, about the *7th Entretiens Physique-Industrie* with 5 workshops: *Visual perception and appearance* (how to evaluate the appearance); *Colours in nature* (study of the production of colours by living structures and how to transpose these effects in industrial materials); *Colour production and visualisation* (light emitting materials, light filtering materials, etc.); *Colour characterisation and modelling of colour and visual effects*; *Colour, art and creative work* (influence of new visual effects in artists' practice).

CFC is involved with CIE technical committees, such as those dealing with colorimetry, standards, and terminology.

CFC has an active group working on the vocabulary of scientific terms related to colour.

CFC participates in the direction and foundation of the Research Group on *The colour of materials with visual effects* (X-chrome materials and media, photonics, biomimetism, structural colours, etc.). This starting structure (GDR-CNRS) involves about 20 laboratories from universities, high schools for engineers and important industrial companies (e.g. Rhodia, Saint-Gobain). Supported by CNRS for a period of four years, this research group held many meetings during year 2003. A website and mailing list for the GDR-CNRS is available.

Due to its expertise, CFC was also involved in the preparation of an exhibition devoted to the world of colour for children from three to six years old (Villeneuve d'Ascq, Jan-2003 to Jan-2005). This exhibition is intended to raise the interest of the children in the origin of colour, the perception of colour and the use of colour.

Standardization:

CFC maintains active liaison with Afnor, the French standardisation organisation. As explained in previous years CFC has been active in preparing several standards. CFC is now involved in updating various colour standards in agreement with the most recent publications of CIE Division 1, a work which began in 2003.

Website:

Our website is at; www.cf-couleur.org.fr

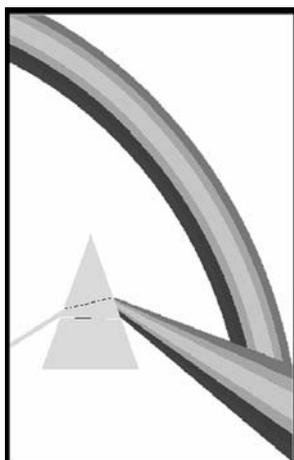
Executive Committee:

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

Centre Français de la Couleur:

Professeur Guy Lecerf
Centre universitaire de Montauban
Pôle Arts appliqués
B.P. 796
116 Boulevard de Montauriol
F – 82017 Montauban
FRANCE
Email: cf-couleur@voila.fr
<http://www.cf-couleur.org>

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 became 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 and the medal was last presented in December 2003. The J M W Turner Medal is also presented every two years, honouring an artist or art historian eminent in the field of colour – an Award was made in April 2003.

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

In 2003, the Colour Group was privileged to receive a legacy from the estate of the late Dr David Palmer and this generous gift has been recognised in two ways. A David Palmer Lecture has been instituted and the first will be presented in January 2004 – this lecture will become an annual event. A panel of Trustees has been established to advertise for, referee, and recommend the award of amounts of money to enable people to travel to conferences, etc.

Recent Newton Lecturers

2001 John B Hutchings

2003 Dr Jim Nobbs

Recent J M W Turner Lecturers

2001 Martin Kemp

2003 Roy Osborne

Meetings during 2003

January: Vision Meeting

- *Pupil responses to chromatic signals*
John Barbur (City University)
- *The vertebrate pupillary response: a comparison across classes* Ron Douglas (City University)
- *What do models tell us about the uses of primate colour vision?* Daniel Osorio (University of Sussex)
- *Information available to the eye from coloured scenes* David Foster (UMIST)
- *Colour, age and art* Robert Weale (Kings College, London)
- *Temperature can modify the colour vision of a tropical fish* Elizabeth White (University of Bristol)
- *The visual pigments from two species of deep-sea fish: an example of visual adaptation to a low light environment* Marie Pointer (Institute of Ophthalmology)
- *Spectral tuning of the ultraviolet- and violet-sensitive class of visual pigments in vertebrates* David Hunt (Institute of Ophthalmology)
- *Bird vision and the design of insect camouflage* Innes Cuthill (University of Bristol)
- *Interindividual differences in visual behaviour in bumblebees* Lars Chittka (Queen Mary, London)

February: Advanced Colorimetry

- *Optical radiation measurement – Present and future* Michael Pointer (NPL)
- *Metrology enhancement tools* Peter Clarke (NPL)
- *iColour: Remote MET for spectrophotometers using the Internet* Stuart Prince (NPL)
- *Temperature and humidity effects with Ceramic Colour Standards* Dhamikka Rathnakella, Andrew Hanson (NPL)

GREAT BRITAIN CONTINUED

March: Colour in Music

- *Colour in music composition – from the Greeks to Scriabin* Mark Beaumont, Sheffield University
- *Applying concepts of musical consonance/dissonance to colour* Katherine Lubar
- *Arthur Bliss: Reverse synaesthetic* Giles Easterbrook
- *Hearing colours in the Symphony Fantastique: Coloured music synaesthesia* Julian Asher, Simon Baron-Cohen
- *Hearing visual shapes and colour: Blind subjects describe the shapes and colour of visual objects in video images encoded in musical form* John Cronly-Dillon, C Christou, R P F Gregory

April: Turner Lecture

- Roy Osbourne

May-03: AGM

- Retiring Chairman's Address: *Colour matters*
Prof Geoffrey Attridge (University of Westminster)

October: Colour in Art

- *Architectural glass* Kate Fuller
- *Colour in ceramics* Richard Slade
- *Glass and the ceramic artist* Edward Neville

November: The CIE in Action – 2003

(Joint meeting with CIE-UK)

- Division 2 *Physical Measurement of Light and Radiation*, Teresa Goodman
- Division 3 *Interior Environment and Lighting Design*, Geoff Cook
- Division 4 *Lighting and Signalling for Transport*, David Coatham
- Division 5 *Exterior Lighting and Other Applications*, Nigel Pollard
- Division 6 *Photobiology and Photochemistry*, Colin Driscoll
- Division 1 *Vision and Colour*
- Division 8 *Image Technology*, Mike Pointer

December: Newton Lecture

- *Relating the composition of materials to their colour*
Jim Nobbs

Website:

Our website is at www.colour.org.uk and we welcome new members from every country, and with any interest in colour.

ITALY

Associazione Ottica Italiana (AOI)

Activities:

The widespread interest in color has led to an increasing number of courses, tutorials and seminars, each centered on a specific topic, from ophthalmology to optometry, from restoration of art materials to fashion, from colorimetry (basic) to applications to display imagery, etc.

The most recent initiative is that concerning Light and Color on the stage, by the Foundation of Maggio musicale Fiorentino (technical coordinator Dr. Alfredo Magnanelli).

Silvia Rizzo has been engaged by the Faculty of Architecture of the University of Genova (Dept. of Design) as a teacher for a course on color, covering both basic information and applications. The work performed by the students during the hours devoted to practice will be displayed in a public exhibition at Genova (March 2004).

S.Villani (AOI President) maintains that dealing with color vision requires knowledge of visual mechanisms. Therefore, to make participation in the courses easier for those who wish it, he has issued an Atlas of Visual Process (edited by the AOI) consisting of a comprehensive set of illustrations accompanied by explanatory captions.

The voice of the AOI, the Journal *Luce e Immagini*, is issued regularly every three months.

As reported in the previous Newsletter, the philosophy of AOI activity consists in:

- trying to make clear and possibly bridge the conceptual gap between laboratory data and applications in the real world
- satisfying the requests of those people who, having become interested in color, wish to learn about areas which are still unexplored, and who wish to participate in advanced research.

To achieve the latter, we inform Italian readers about the importance of the AIC by reviewing the contributions published in the Proceedings of the Meetings of the III Millennium: Seoul (2000), Rochester (2001), Maribor (2002), Bangkok (2003). The outcome is as follows:

Published reviews (in Italian):

- S. Villani, *Vision and Optometry in the AIC*

Meetings 2000 – 2003' *Luce e Immagini*, Vol.VIII, N°4, (2003); Vol. XIX. N°1, (2004)

- L. Ronchi, S. Rizzo *The Advanced Research from the stand point of AIC in the III Millennium – Man and the environment*, Fond. G. Ronchi, Vol. LXXVIII. 107 pp., Florence, (2003)
- C. Oleari, *About Vision and Colorimetry – Selected papers, from the Proc. of AIC Meetings (2000-2003)*. Atti Fond. G. Ronchi (in press) (in Italian).

Publications in an advanced state of preparation (from the Proc. of the AIC meetings 2000- 2003):

- S. Rizzo, *Color and Art*, (in Italian)
- M.C. Pozzana, *Landscape, Architecture and natural light* (in Italian)
- L. Ronchi, *Appearance, texture, highlights* (in Italian)
- O. da Pos, *Color Psychology* (in English)

In addition, we are waiting for a contribution (in English) on Color and textiles from Slava Jeler, head of the very active Group of Colorists of Slovenia

Study Groups:

- The Chairman of the AIC Study Group Visual effects and illusions has prepared an activity Report
- The AOI study groups are collecting experimental data, as planned, on the topics listed below, being coordinated by S. Villani and L. Ronchi:
 - *Color categorization during maturation and childhood*
 - *Development of perceptual organization*
 - *Visual acuity 'in the field' under sources of various SPDs*
- An interest group is being organized by M.C.Pozzana concerning the Assessment of the characteristics of the Landscape in terms of a three-dimensional model Color-Light-Climate, taking account of the most recent contributions reported at the AIC meetings of the III Millennium.

Meetings:

- The Midterm meeting in Bangkok, Color Communication and Management has been attended both by O. da Pos and by R. Pompas (L. Luzzatto being the co-author), with oral presentations, while posters were displayed by Rizzo and by Ronchi.

ITALY CONTINUED

- At the National Meeting of the AIDI (Italian Association on Illumination) L.Ronchi and P. Soardo displayed a poster entitled *The brightness of frescoes*, inspired by Ikeda's RVSI model. In M.C.Pozzana's poster, *Restoration of historical gardens*, the combinations of natural colors were emphasized.
- An important International meeting on Color and Urban Environment was organized by S. Rizzo in Genova, under the patronage of the most relevant City Hall authorities and Committees, as well as with the active participation of the Faculty of Architecture of the University of Genova. The following topics were dealt with:
 - Restoration of color in the quarters of historical interest
 - The color-environment relationship
 - Research on color in Genova in the context of international research
 - The contemporary role of color from the widest perceptual viewpoint.

The AIC – ECD related contributions were from K. Fridell Anter (Sweden), S. Habib (Turkey) and S. Rizzo (Genova). Other international speakers were F. Th.Tosca (Greece) and Tom Porter (UK). The Italian participation included: G. Brino (Torino), M. Caiazzo (Milano) and, from Genova: T. Mannoni, A. Mantero, F.Salvarani, G. Bertagna, F.Falzone and E. Bona (Faculty, of Architecture), M. Tasso (City Hall, responsible for urban aesthetics) and R. Dameri (Director of IRRE, Genova).

JAPAN

The Color Science Association of Japan (CSAJ)

Meetings:

- The 34th annual meeting of the CSAJ was held at Toki Messe (Nigata City) on May 27-28, 2003. The number of participants at the meeting, including open lectures, was more than five hundred. Sixty four papers were presented from various fields of color science, design and its applications. The invited lecture was given by Prof. Kyo Toyoguchi (President, Nagaoka Institute of Design) on Human, Substance, Mind.
- Color Forum Japan 2003 was held at Kogakuin University (Tokyo) on Nov. 19-21, 2003.

Awards:

- 2003 CSAJ Award: Goro Baba (Murakami Color Research Laboratory)
- 2003 CSAJ Research Encouraging Award: Taiichiro Ishida (Kyoto University)

Study Groups:

In 2003, CSAJ has 11 study groups:

- Color Design
- Environmental Color
- Illusion
- Curriculum for Color Education
- Tutorial Materials for Color Education
- Personal Color
- Colorimetry
- Color Vision
- Color in Image (new)
- Whiteness (new)
- Safety Color (new)

Publications:

- *Journal of the Color Science Association*, volume 27, number 1-4 and Supplement, 2003 were published.
- CSAJ News was published bimonthly.

2003 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)

Goro Baba	
Takuo Goto	
Mitsuo Ikeda	
Taiichiro Ishida	(Liaison with AIC)
Kenji Kitahara	
Mitsuo Kobayashi	
Yoko Matsuda	
Masanori Matsuzaki	
Seiichi Onobori	
Takuzi Suzuki	
Tsuneo Suzuki	
Shinya Takahashi	(Treasurer)
Shoji Tominaga	
Hirohisa Yaguchi	

THE NETHERLANDS

Nederlandse Vereniging voor Kleurenstudie (NVvK)

Dutch Society for the Study of Color

The NVvK was founded 14th September 1946 in Amsterdam and has about 365 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 and education etc. that are working with colour.

Report on 2003 Activities:

We had a very good and interesting color year in the Netherlands with two 'colour days':

Annual Spring Meeting

During 2003 NVvK held the Annual Spring Meeting on March 22 in the same city as usual, Utrecht, but at a very special place: The Dutch Design Centre, the showroom and factory of an old but famous manufacturer of modern furniture 'UMS Pastoe' and also with a greater than average dedication to colour. On the same occasion we said 'so long, good bye' to our President Clara Froger with coloured music and poems on colour and colour characterizing from Ken Nordine from the US sang-spoken by Jaap Blonk to the music of Trio BraamdeJodeVatcher. They got warm applause. This was real colour.

The theme of the day was Members get the floor. Clara herself opened with a retrospection on colour after 40 years of colour fascination in the colour business and 10 years (!) as President of NVvK. This day was blessed with a sunny spring atmosphere so we almost forgot that we did not have a successor for her. During the rest of the year Diny Leijssen continued her vice presidency well and in the meantime we were looking for a new President. One of the subjects she is studying with other members is synesthesia and colour.

A colourblind member, famous for the way he tackles his handicap, Meinard Noothoven van Goor, made his contribution showing and telling us about the book* he made together with the well known colour scientist Jan Walraven The presentation by Meinard was very well received by the audience.

The third presentation was from a member, Aad Vis, who is specialized in colour therapy by the application of coloured silk patches on parts of the body that correspond with and influence other parts. He is able to feel skin tension differences to detect those places.

The last contribution was from Jacobien van Beurden, interior architect and colour designer, with a colour 'game' (I enjoyed myself very much) to show that there are certain colours that are more appropriate in a certain combination or surroundings than others. In answer to her questions there was always a clear majority in the audience in favour of one of the six colour groups (3 primary and 3 secondary colour samples) from which people had to choose. Lunch and drinks were colorful as well and even the Annual Members' Meeting, held after the lunch, went quickly and without problems.

Autumn or Technical Colour Meeting

On the 3rd of October, we met again for our Autumn or Technical colour meeting. This meeting was held in Utrecht as well but not at the same venue as the March meeting. This time the famous Central Museum Utrecht hosted us for a day on the theme of *Colour and Restorations*. This day was a success from the point of view of those who attended, heard and saw the first class lectures and presentations on this wide subject.

The day was opened by our vice president Diny Leijssen and the first presentation was by Mr E. F. Koldewej who works in a government department caring for national monuments. The topic of Mr Koldewej's lecture was *How colorful were Dutch interiors* and he linked colors to the interiors of houses in Dutch history.

The next presentation was by Mariel Polman who is a color researcher and color expert. Her contribution was named and dedicated to Zonnenstraat (translated: "Sunbeam") which is an old sanatorium in the city Hilversum designed by the famous Dutch architects Duiker and Bijvoet. Mariel showed a lot of slides on how she did her research, what she found and how her findings were used in the restoration of Zonnenstraat.

The following contribution was by Hendrik Groeneweg and his presentation was on Dordtse Kleuren which means *The color of the Dutch city Dordrecht*. Dordrecht is one of those very old Dutch cities where people care very much for the conservation and maintenance of the old historical buildings. Hendrik explained how paint layers were scratched layer by layer from the old monumental buildings in order to know the colors that were used in the past. Impressive lay-outs were showed how the old buildings along the canals must have look at different periods in the past.

The last presentation was by the professional artist in restoration of the Central Utrecht Museum Mrs. Annetje Boersma. Annetje showed a number of old paintings that had been repainted over the years (sometimes fashions changed and also the paintings on the walls had to follow). She also showed some old paintings which really needed restoration of the backing, the pigment layers, the binder or the overcoat. It was particularly satisfying that everything she presented on slides could be seen in reality during a tour through the Museum directly after the presentation.

Last but not least there was a demonstration on how different paint layers on old wooden panels could be analyzed by scratching off layer by layer making a stepwise model showing the substrate (wood) and then layer by layer the different paints applied on the panel.

The day ended with drinks so that all members could socially interact and discuss the previous presentations and demonstration in a nice atmosphere.

Publication:

We have invested much effort in redesigning our journal *Kleurenvisie*. The new design was very well received by our members.

Website:

I would also invite every international member of the color society to visit our web site: www.kleurenvisie.nl

Even though the site is not in English we are very proud on our presentation on the world wide web and the content of our site!

New President of NVvK:

Although happening this year I would like also to announce that we recently and finally found a successor for Clara Froger as the new President of the NVvK, Erik van Biemen. Erik was presented by the board and elected unanimously by the members at the NVvK Annual General Member Meeting on 27th of March 2004 in Utrecht, held during the 46th NVvK Spring Colour Day. We warmly welcome him and wish him success with the NVvK. At the same meeting two members of the board left: Ciska Jonker (general member) and Hans Vrijmoed (secretary for many years).

Mr. Erik van Biemen,
Akzo Nobel Decorative Coatings Europe,
DCE Trade, Senior Product Manager Color,
PO Box 3, 2170 BA Sassenheim, Netherlands

e-mail: Erik.vanbiemen@akzonobel.com

Phone: +(31) 71 3082571

Fax: +(31) 71 3082725

* the book on Colorblindness I mentioned is available in English. (Translated with help of Sikkens Foundation):
J.Walraven, *Color-Blind Seeing the world through different eyes*, Arnhem 2003. ISBN 90-806719-2-4
Blind Color , P.O Box 190, 6800 AD Arnhem ,The Netherlands.

SLOVENIA

Drustvo Koloristov Slovenije

During the year 2003 the Slovenian Colorists Association (SCA) at its Executive Committee meetings, meetings of the Education and Research Commission and of the Commission of International Cooperation and at the meetings of the Editorial board discussed and carried out activities in the program for 2003. Those were:

Main SCA activities 2003:

1. SCA Regular meeting
2. International activities
3. Publishing of monograph
4. Research program

1. SCA regular meeting

This was held on 17th of September 2003. After the opening of the meeting the president's report, treasurer's report and other commission's reports were discussed.

2. International activities

- International activities (AIC, IFATCC, DfWG, DFZ),
- Organizing of annual executive board of IFATCC in Portoro, Slovenia
- Establishing new contacts and relations,

Our members took part in some international symposia and other annual regular meetings. Two of our members (Prof. Dr. Slava Jeler, Prof. Dr. Vera Golob) took part in the annual executive board meeting of IFATCC in Portoro, Slovenia. Also this year SCA contacted some other association abroad.

Our members took part in some international symposia and their papers were published in different proceedings in 2003:

Pogacar, Vojko, and Golob, Vera. *Application of Geometrical System for Harmonious Color Selection*. In Hansuebsai, Aran (ed.), *Color Communication and Management- Proceedings of AIC 2003 Bangkok*. pp 260-264. The Color Group of Thailand, Bangkok.

Celan Bencovic, Sonja, Fakin, Darinka, Golob, Vera. *Colorimetric Evaluation of Dye bath Acidity's Effect on Wool Color*, in Golob, Vera, Jeler, Slava and Stjepanovic, Zoran (eds.), *Color & Textiles – Proceedings of AIC Color 2002 SI*, pp 223-229, SCA – Slovenian Colorist Association, and Textile Department, Faculty of Mechanical Engineering, University of Maribor, Maribor, Slovenia

Kokol, Vanja, Standeker, Natasa, Golob, Vera. *The Influence of Enzymes on Viscose Dyeability*, in Golob, Vera, Jeler, Slava and Stjepanovic, Zoran (eds.), *Color & Textiles – Proceedings of AIC Color 2002 SI*, pp 223-229, SCA – Slovenian Colorist Association, and Textile Department, Faculty of Mechanical Engineering, University of Maribor, Maribor, Slovenia

Nahtigal, Igor, Golob, Vera, Dolsak, Bojan. *Color Evaluation of Textiles Using a Flatbed Scanner*. in Golob, Vera, Jeler, Slava and Stjepanovic, Zoran (eds.), *Color & Textiles – Proceedings of AIC Color 2002 SI*, pp 302-306, SCA – Slovenian Colorist Association, and Textile Department, Faculty of Mechanical Engineering, University of Maribor, Maribor, Slovenia

Pogacar, Vojko, Kuzmic, Majda, Golob, Vera. *Colorimetric Evaluation of Colors in Four-seasonal Typology*. in Golob, Vera, Jeler, Slava and Stjepanovic, Zoran (eds.), *Color & Textiles – Proceedings of AIC Color 2002 SI*, pp 324-349, SCA – Slovenian Colorist Association, and Textile Department, Faculty of Mechanical Engineering, University of Maribor, Maribor, Slovenia

3. Expert Book Publishing

Many activities have also been directed to the 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 and the second part was published in September 2003. The second part is classified in the 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, Chemistry Institute Ljubljana, Newspaper Enterprise Delo Ljubljana and Hospital Maribor.

4. Research program conducting

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

Annual work plan 2004:

- Organizing the Slovenian colour experts meeting,
- Preparing the SCA regular meeting
- Organizing seminars and lectures for our members,
- Organizing an expert excursion,
- Conducting a research program
- International activities (AIC, IFATCC, DfwG, DFZ),
- Cooperation 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).

Executive committee of Slovenian Colorists Association:

President: Prof.Dr. Slava Jeler
slava.jeler@uni-mb.si

Treasurer: Joze Pavlenic

Secretary: Dunja Legat,
legat@uni-mb.si

Section for Architecture

leader: Andrej Zizek
andrej.zizek@guest.arnes.si

Section for art

leader: Andrej Skerbinek

Section for design

leader: Vera Seslar Zaloznik

Section for graphic and paper

leader: Marko Kumar
marko.kumar@delo.si

Section for polymers

leader: Prof.Dr. Vojko Musil
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

Section for health and 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:

During this year a thematic network on Acquisition, Characterization and Management of Color Images has been launched. This is chaired by Dr. Joaquín Campos (Consejo Superior de Investigaciones Científicas, CSIC), and has received grants from our National Ministry of Science and Technology. Currently this network includes people from the most outstanding groups engaged in color research in Spain; it is also open to new members from education or industry who are interested in the work. A first meeting of this network will be held on May 18, 2004 in the Public University of Navarra (Pamplona, Spain), just the day before our VII National Color Conference. The schedule of this first meeting includes a special lecture about Future Trends in Color Imaging from Dr. Francisco Imai (Pixim Inc., California), as well as short presentations about their main activities from members at the universities of Alicante, Granada, Politechnical of Cataluña, Valencia, and the Metrology Department (CSIC).

Members of our Color Committee are involved in the Program or Organizing Committees of many exciting meetings scheduled for the year 2004. Thus, at the CGIV 2004 (April 5-8, Aachen, Germany) Dr. Joaquín Campos (CSIC) and Dr. Jaume Pujol (Politechnical University of Cataluña) are members of the Scientific and Organizing Committees, respectively. On May 19-21, 2004 will be held the VII National Color Conference (<http://www.unavarra.es/VIICongresoNacionalDeColor/>), chaired by Dr. Begoña Hernández (Physics Department, Public University of Navarra, Pamplona). This traditional meeting of our Color Committee will include three invited lectures, numerous contributions from most of our members, as well as the General Assembly of our Committee. The Interim Meeting of the AIC (Porto Alegre, Brazil, 1-5 November 2004) will also be attended by people from Spain: Dr. Joaquín Campos (CSIC), Dr. Enrique Hita, Dr. Javier Romero and Dr. Manuel Melgosa (all from the University of Granada) are members of the Scientific Committee for this event. Finally, mention must also be made of the 10th Congress of the International Colour Association, AIC Color 05, (Granada, May 8-13, 2005), which will also include the 7th International Symposium on Multispectral Colour Science (MCS'05). The members of the Organizing Committee of AIC'05 and MCS'05

are very active. Please, for additional information visit the web site of these meetings:

<http://www.ugr.es/~aic05/>

Among activities we have in mind for the near future, we should mention the renewal of our proposal to the European Optical Society for explicit inclusion of the topic *Color* in its Journal of Optics A. We feel that there are many strong reasons for this proposal, and we hope that it will also be endorsed by many other Color Committees from other countries, mainly in Europe. We are also following the arrangements made by members of the University of Alicante for a forthcoming specific course on *Color Technology*, as well as the possibility of a new edition of the short course held in 1999 in Barcelona under the title *The problem of specifying and measuring color*.

Publications:

The Color Committee of Spain has continued endorsing the prestigious American journal *Color Research and Application*, published by the Wiley Company. Dr. Manuel Melgosa (University of Granada) is the Associate Editor from Spain for this journal. We are proud to confirm that, during 2003, the number of articles published by authors from Spain duplicates the one in the previous year. We must also report that the official journal of the Optical Society of Spain, *Óptica Pura y Aplicada* (<http://www.sedoptica.es/indice.html>) has also published in its 36 issue (2003) some articles related to color and vision.

Board of Directors:

Dr. Jaume Pujol (Universidad Politécnica de Cataluña), President.

Dr. Angel I. Negueruela (Universidad de Zaragoza), Past-President.

Dr. Joaquín Campos (CSIC), President-elect.

Dr. Manuel Melgosa (Universidad de Granada), Secretary.

Website:

You are kindly invited to visit our web site <http://sedo.optica.csic.es/color/color.html> for additional and updated information of the activities of our Committee.

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 2003 and Colour Researcher's Seminar:

The Colour Day 2003, arranged by The Swedish Colour Centre Foundation, gathered together over 180 participants on October 23, 2003 in Stockholm. This year's theme was focused on how time has influenced colour choice and use of colour in the design of products, interiors, graphic design, fashion etc. On this Colour Day, we had the pleasure of introducing Professor Lois Swirnoff to our Swedish Audience. 'Color is image', said Josef Albers. 'Color is sensation', is the physicists's dry reply. 'Color is dimension' – so I have discovered. With these words Lois Swirnoff started her talk on *Colors' many dimensions*. Other lectures on this colour day were about the design ideals (the Swedish taste) in Swedish design and how you can pay attention to these when using colour in interiors. After lunch we had talks about: *The use of colour in marketing to enhance the product's appearance; The group of ten's thirty years of colourful textiles; A journey through time revealing connections in society, fashion, politics and history; How some young architects are working with colours in an unusual way; The designer and his influence, or rather no influence, on the final colour*. The day ended with some

interesting thoughts from our chairperson of the day.

The day after the Colour Day we arranged a colour researchers' seminar with our invited speaker, Lois Swirnoff, who contributed with her experience in colour. The seminar had gathered 19 participants, who were given the opportunity to present their work with colour. We had nine different presentations from our Swedish researchers and ended with a fruitful discussion about colour in education and research and the important role of colour.

Members' meetings:

- In February, at this year's first meeting, we heard a talk about the meaning of colour in management and leadership.
- In March we had a presentation about colour forecasts and the work behind the colour forecast for 2004.
- In April we heard a talk about *The Colours in our Gardens*. It is important to take into consideration the exterior colour of the house when you are choosing colours of the flowers to get a harmonious colour combination.
- In September we arranged a visit to the National Museum in Stockholm to see the exhibition *Swedish Design during the years 1500 – 1740*.
- In November, in connection with our annual meeting, we heard a presentation by Margareta Tillberg about the philosophy behind the colour design of St Petersburg, from her thesis *Coloured Universe and the Russian Avant-Garde. Matiushin on Colour Vision in Stalin's Russia 1932*.

Special Event – Beyond the Blue Mountains:

Ulf Lindahl has written this account of a special event. Dr Anders Hård received a 'research cavalcade' as an eightieth birthday present.

After a celebration meal with good food and many speeches, Anders Hård, having recently celebrated his 80th anniversary, stands surrounded by colleagues, research associates and pupils in the Scandinavian Colour Institute's hall. He tells an anecdote about a boy who packs his knapsack to go on a journey. He wants to find out what is hidden beyond the blue mountains on the horizon.

It is not difficult to put the young Anders Hård in the boy's place and follow his indefatigable research wandering over and beyond the blue mountains, if they

SWEDEN CONTINUED

are taken as a representation of our knowledge of colour at the time.

During this afternoon and evening, a sequence of his colour friends provided evidence of this journey. For them, this octogenarian has been an inspiration, a mentor, a teacher and a colleague. They have honoured him by offering, in a research cavalcade, insights into their current research and by relating memories from cooperation and studies, from summer seminars in constant sunshine, and from random meetings on journeys, in lecture rooms and at research conferences.

It can also be expressed like this: just as the distant mountains always conceal new blue mountains, there is no final goal for the research; new knowledge poses new questions. Dr Anders Hård looks pleased and happy, but he is not satisfied. In his words of thanks at the dinner, he called for a continued struggle for the creation of a colour research institute, an institute of which he has dreamed since he took over the Colour School, which later became the Scandinavian Colour Institute.

Not even on this evening has the 'nestor' had the last word. 'It is not a colour research institute which we need, any more than a light research institute. It is the space which is important', Anders Liljefors, professor in architecture and light, objected, and adds 'man is the measure, man in his environment'.

Earlier in the day, we heard architects, interior designers, artists and psychologists tell us how they use NCS as a tool for researching into and learning about colour in man's space and our building environment. But we also listened to mathematicians and physicists who use the NCS colour space to determine geometrical properties in the colour spectrum or as a means of diagnosing colour-blindness.

So what the result will be, whether the person celebrating his anniversary gets his colour research institute (which would include all aspects of colour-related research) or not, lies 'beyond the blue mountains', but it is not therefore inaccessible.

The research cavalcade

Now, let us start at the beginning. The afternoon's program was opened by Tomas Hård, president of the Scandinavian Colour Institute AB, who welcomed everybody and gave a brief resumé of the Scandinavian Colour Institute and the NCS colour notation system today. He reminded us that there are now one thousand companies licensed to use the NCS located in 52

countries. There are national NCS distributors in 24 countries, the latest additions being China and the USA.

With an explicit wish that we should look forward and not merely indulge in memories, he started the research cavalcade which was the company's birthday present to Dr Anders Hård.

He passed the baton to Dr Karin Fridell-Anter, who first gave a quick review of the history of the colour research – from the Colour School of the 1950s under the management of The Swedish Handicrafts Association to 1979 when NCS, developed under the leadership of Anders Hård, Lars Sivik and Gunnar Tonnquist, was accepted as a Swedish standard. In 1997, these three received AIC's finest distinction, the AIC Deane B. Judd Award.

A Master of Science (Econ.) who knows something about colour

When Karin, as a young architect, became interested in colour questions, she heard about Anders Hård, 'a Master of Science (Econ.) who believed he knew something about colour'. She understood that he really did know something about colour when she penetrated into the subject, participated in seminars and met the man. His profession seems in the context to have been, if not a disadvantage, a piquant coincidence – to which several speakers testified.

It was in 1964 that Anders Hård, then marketing manager at Alfort & Cronholm, a Swedish paint manufacturer, seriously began studying architecture professor Sven Hesselgren's *Colour atlas* and the physicist Tryggve Johansson's *Natural colour system*. He discovered logical gaps in their models and therefore began making a scientific treatment of them and took over the Colour School.

NCS is based on how we see colour. The system can be used to investigate colour schemes in rooms, colour preferences, colour in the outdoor environment, the influence of the illumination on how we perceive colour and many other things. This is how architects, decorators and designers use it. The system can also be an instrument in natural science research. Both these applications were represented in the research cavalcade which followed.

'Nobody can give me as many thoughts as you, Anders', said professor Grete Smedal, designer and teacher at the Centre for Form and Colour of the Art and Design School, Bergen, Norway, who

congratulated those who had been a part of the Colour School and who, during the development period of NCS, had participated in summer courses in Leksand, and who had become her colour friends. She related how NCS's strict colour system had given her the necessary concepts, a language, which can be used creatively. When she was asked to teach colour theory, she had a system ready for the presentation of problems which were relevant for the design students. She told us about her work with colour perception and the 'colour combinations', about colour between digital and analogue processing.

The geometrical properties of the colours

Reiner Lenz, a mathematician working at the Institution for Technology and Natural Science in Norrköping, determines with the help of NCS the statistical properties of the colours in a conical model in roughly the same way as in the atlas and colour space. He is developing a bridge between the colours which one sees and the spectral colours and told us that the colour atlas is important for him because he can use it as a representative description of that part of the colour space which we can see with our eyes. This is not a complete description but it is representative for the points which he does not yet know.

The variability or elasticity of the colours

Karin Fridell-Anter then took us back to the colouring of buildings and spaces and described the conflict between the inherent colour (which is static and unchangeable and which has to be indicated by the architect) and the perceived colour (which varies with the surroundings and the light, and with which architects must work).

The relationships between these two concepts have been investigated by many. One of these is Dr Monica Billger, who, in an experimental room, has investigated simultaneous contrast (contrast amplification) and reflection, i.e. when different colours on the opposite walls of the room do not meet or when they meet in a corner. The colours then tend to 'become married' to each other and seem to become alike, more alike than the inherent colours.

A greeting from Monica Billger to Anders Hård, 'the nestor of Swedish colour research', was presented by Maud Hårleman, who also presented Monica Billger's thesis which studies light and colour spatially and tests whether virtual reality models are a good way of mediating colour perceptions and colourings.

Do colours influence our feelings?

Maud Hårleman is studying what different inherent colours look like in rooms with different light quality and has found clear hue displacements so that a yellow colour becomes yellower in a southern room, and a blue colour bluer in a northern room. She has also investigated the relationship between colours in rooms and feelings and has found that pure colours awaken stronger feelings.

The truth of the myths about the influence of surrounding colours on our feelings and behaviour has been investigated by professor Rikard Küller and Jan Janssens, PhD, Environmental Psychology at the Institute of Technology at Lund University, through practical tests, and they have found that there are no clear relationships.

How old and senile people are influenced and can be helped by the colour environment has been studied by the nurse Dr Helle Wijk.

Dr Lennart Högman from the psychological institution at Stockholm University has investigated how the sensory organs function with the help of colour as a criterion or tool.

Colour Forum at the Architect School

Besides Dr Karin Fridell-Anter and Maud Hårleman, Katrin Fagerström works at Colour Forum where she is studying what the leading architectural theorists write about colour in a theoretical perspective. Why is so little written about colour and how important has this been for architecture?

Gertrud Olsson is working on a knowledge survey about colour in architecture and will continue to study colour in rooms.

Vicki Wenander and Marie Ferring, building antiquarians, and Anna Swahn, art scientist, are on the point of seriously beginning research within their fields.

External colouring, gloss, structure

The fact that the character of a coloured surface is determined not only by the inherent colour or by the light has been studied by Åke Svedmyr. The gloss and texture (roughness and colour shifts) are very important for the appearance of the surface. He has studied the painting method (brush traces, spray structure), the colour material and ageing empirically on approximately 500 façades in Stockholm. His recently published thesis is called *The materiality of the painted surface*.

Networks and Conferences

Gunilla Derefeldt, psychologist from the National Defence Research Institute, thanked Anders Hård for what he has meant for the creation of networks, both nationally and internationally, and for NCS. She reminded us of the many conferences which have been held over the years. She has, amongst other things, studied colour perception and has written about the influence of different light sources on colour perception. She has used the NCS-method to determine good, easily recognisable colours on viewing screens in supervision systems, and has investigated the influence of G-forces on colour perception in the fighter aircraft JAS Gripen, with the help of the NCS-nomenclature.

No agreement between wavelength and colour

The physicist Dr Pehr Sällström has searched for the borders between the colours in the spectrum and has found them to be arbitrary, nor has he been able to indicate any significant elementary colours in the spectrum. But he does not condemn NCS, which is actually based on the colours perceived by man. What is simple for the physicist is not simple for our senses. It is difficult to determine the height of a sine wave but it is easy to determine an instrumental tone. In a similar way, there is greater certainty in determining illuminated colour samples than physical spectral colours (pure wavelengths).

The colour came from the north

Mette Terkildsen, interior designer and product manager for Electrolux kitchen fixtures since 1976, came into contact with NCS at a course in Forsa in Hälsingland. Since then, she has used and taught the NCS-method in Denmark. She is of the opinion that knowledge among architects in Denmark is relatively low. She has used colour for orientation purposes in hospital buildings and to increase the quality of life for elderly people.

Transparent white, does it exist?

The last speaker was Ulf Klarén, senior teacher at the University College of Arts, Craft and Design in Stockholm, who preferred to call himself not a researcher but a knowledge seeker. He honoured Anders Hård because he had introduced 'the wild stage' into colour research and had thus pushed it forward. He also developed a reasoning about expressive symbolism. In an expressive picture, sensible structures are described which we can relate to our experiences from the world around us or some structure which exists within us. White can therefore be used in a picture to reproduce the gleam on a floor, a surface

colour structure which reminds us of light. Among all the expressions of admiration and appreciation which on this day were directed towards Anders Hård, I remember best some by Ulf Klarén's: 'Anders is perhaps not a musician but a player!' Or speaking of the good feeling of creative irritation: 'Anders is one of the most irritating persons I know!'

The future:

The Swedish Colour Centre Foundation has also this year arranged two 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 are constantly working with this plan so we can reach our goals.

Berit Bergström

Secretary

Swedish Colour Centre Foundation

Igeldammsgatan 30

PoBox 49022

S-100 28 Stockholm

Sweden

Tel. 08-617 47 00

Telefax 08-617 47 47

SWITZERLAND



Colour plays an important part in different sectors of the economy and in public life: in graphic design, in architecture, in industry, in textiles and so on. In all these sectors there are experts who deal with the 'phenomenon of colour' as well as in creation with colour, in colour communication and in the manufacture of colours and dyes, their application and reproduction.

Each sector of industry and each sphere is searching for its own ways and solutions. Exchange of experience with other sectors or spheres does not take place very often and of course there is no universal ability. For these reasons things are developed several times – the wheel is re-invented constantly. Between the different sectors, communication about colours is not a subject for discussion.

pro/colore, the Swiss Association for Colour was founded on January 24th, 1992. pro/colore aims to bring together all the creative and interested people from different sectors to promote an inter disciplinary exchange of ideas.

Objectives:

pro/colore is an independent association for colour and aims to be a platform for all concerned in their business with colour materials, dyes, colour reproduction, colour communication and so on. The membership is open to unions, organisations, public authorities, companies and individuals. All activities should be supported by a large number of different members.

Activities are to serve for an exchange of experience, to spread information and to support cooperation between members and people from the different sectors. pro/colore works actively to promote conscious contributions with colour as well as for the creative use of colour and for the production or reproduction of colour.

pro/colore also supports an international exchange for their members, for example: contacts with international organisations such as the International Colour Association (AIC) and the German Colour Centre.

Activities:

pro/colore is concerned mainly with the many aspects of colour:

- Colour as an element for design
- The effect of colour on people
- The production and reproduction of colour
- Technical possibilities for application
- Aids for colour shaping (for example IT-Tools)
- Colour communication
- Colour and the environment

The pro/colore activities serve to gain information about the 'phenomenon of colour', as well as to pass on information and expertise to members and the general public. To reach these goals, the following aids are used:

Procure and process information:

- Encourage the exchange of opinions and experience
- Acquisition of documentation
- Acquisition of publications and articles in magazines
- Initiation and cultivation of (international) contacts

Mediate information to the pro/colore members:

- Transfer of information and expertise between members
- Promotion of education and training
- Current information, for example with leaflets or guiding principles

Public relations:

- Help the general public to a conscious perception of colour
- Spread information about the achievements in colour of designers and industry
- Spread information about current and planned activities
- Enrol new members

Contacts to and cooperation with international organisations:

- Active participation in international exchange of experience and knowledge
- Contribution of experience from Switzerland to international organisations
- Passing on international experience to the members
- Support for international contacts through the members

SWITZERLAND CONTINUED

Contacts:

pro/colore head office
Mrs. Simone C. Hensch
Rebhalde 31
CH-8903 Birmensdorf
Switzerland
Tel. +41 1 342 36 08
Fax. +41 1 342 36 09
Email: procolore@bluewin.ch

pro/colore president
Mr. Daniel Pfeffer
c/o CRB
Steinstrasse 21, Postfach
CH-8036 Zürich Switzerland
Tel. +41 1 456 45 35
Fax. +41 1 456 45 66
Email: dp@crb.ch
Internet: www.crb.ch

pro/colore periodically organises events focusing on different aspects of colour, which reflect the complexity of the topic. This year there will also be some meetings organised in cooperation with other organisations, companies and unions.

Programme for 2004:

- 25th of March 2004 – *Vineyard park Bruno Weber in Dietikon*

13th general meeting and 1st pro/colore meeting: General meeting at the town hall of Dietikon. Sight-seeing and guided tour at the vineyard park Bruno Weber (<http://www.bruno-weber.com>) and multimedia-show about the work of the artist and sculptor. Enter an uncommon world of fantasies. Countless objects in the shape of fabulous beasts invite you to stay, dream and be amazed.

- 18th of June 2004 – *Museum of design in Zurich*

2nd pro/colore meeting: Daily Event on the topic Trends at the Wall. Lectures, discussions, demonstrations and exhibitions all around the topic Colours and wallpapers with contributors from home and abroad. A common project from the Federation of Swiss firms for wallpapers and wall finish VST (<http://www.tapetenwechsel.ch>) and pro/colore.

- September 2004 – *venue to be announced*

3rd pro/colore meeting: Colour in construction and news from NCS (Natural Colour System). Lectures, sight-seeing and guided tour organized by NCS Colour Centre Schweiz by the Swiss Research Centre for

Rationalization in Building and Civil Engineering CRB (<http://www.crb.ch>).

- November 2004 – *University of Zurich*

4th pro/colore meeting: *Concept of colours and lights* in the new lecture hall at the University of Zurich. Sight-seeing and guided tour organized by Gigon + Guyer architects, Zurich.

Other events in 2004:

- 16th – 21st June. *Exhibition Basel Art Basel*
- 14th – 17th October. *University Hildesheim (D) Colour-Info 04* of the German Colour Centre. Topic: *Remarkable – Unremarkable. Colour in Design.*
- 1st – 31st October *Exhibition Zurich Creativ.*
- November. *Trade museum Winterthur Light – from the natural source of light to the design of light.*
- 19th – 21st November. *Convention hall Zürich Eyecatcher 04.*

Outlook for 2005:

- 6th – 9th of April. *Exhibition Köln (D) Colour 2005, International exhibition.*
- 14th of June. *Goetheanum in Dornach*
2nd pro/colore meeting. Topic: *Colours of the nature*

THAILAND

The Color Group of Thailand (CGT)

We have selected the new committee of the group for the year 2004-2006. Mr. Santi Songsermsawas continues his second term as Chairman of the CGT . The new executive board comprises 8 persons, representing each professional area. We also organised a thank-you party for the working group of AIC2003 in Bangkok last year. The AIC 2003 meeting was successful with a total of 161 attendees from 17 countries. The questionnaires answered by them gave the event an 'Excellent' in terms of location, food, welcoming banquet, special lecture and quality of presented papers.

Activities:

The task of the CGT, as usual, is to disseminate knowledge and experience of color applications to the public; and to encourage scientific research within the color field in industry, education and among people working with color. We have bi-monthly meetings throughout the year and combined some activities with Associations and Clubs in related color fields. Last year we published a booklet of Thai color names and their uses in various products relevant to the commonly used equivalent English names. Activities this year include;

- To support and work closely with educational Institutes such as Chulalongkorn University and King Mongkut University of Technology .
- To organize a color design contest among graphic designers.
- To continue the ongoing project of preparing for publication a book about Thai Color Emotion.

Chairman:

Mr. Santi Songsermsawas
Aksornsobhon Co.,Ltd
58 Soi Napasap5 Sukhumvit 36
Klongtoei Bangkok 10110 THAILAND
Tel: 66-2-2585861-2 Fax: 66-2-2589130
E-mail: santiss@ksc5.th.com

Secretary:

Associate Professor Dr. Aran Hansuebsai
Department of Imaging and Printing Technology
Faculty of Science, Chulalongkorn University
Phyathai Rd, Bangkok 10330 THAILAND
Tel: 66-2-2185580 Fax: 66-2-2546530
E-mail: aran@sc.chula.ac.th

UNITED STATES OF AMERICA



Inter-Society Color Council

The Inter-Society Color Council

The Inter-Society Color Council continues to meet its mission to advance knowledge of color as it relates to art, science and industry. Our three classes of membership, Member-Bodies, Individuals and Sustaining, help to contribute to our success. We currently have 19 Member-Bodies, 14 Sustaining Members and just over 600 Individual members.

Publications:

The ISCC publishes a Newsletter six times each year, offers copies of technical reports, *Color and Light* by Fred W. Billmeyer, Jr. and Harry K. Hammond III, *Demystifying Color* by Robert Chung, and *Proceedings – 9th Congress of the International Colour Association, AIC Color 01 – Rochester*.

In Memorium:

During the past year, we lost two of our most notable members, Dr Paul Tannenbaum and Dr Henry Hemmendinger.

Meetings:

We held two very successful conferences, a special topics meeting held in Philadelphia, *Industrial Color Solutions*, on the campus of Philadelphia University (formerly Philadelphia College of Textiles) in March and our annual meeting and Symposium on *Color & Appearance Instrumentation (SCAI)* in Chicago which was co-sponsored by the Federation of Societies for Coatings Technology.

Elections:

The membership of the ISCC elected three new Directors to the Board – Mr David Battle of GretagMacbeth, Mr Sy Commanday of Techmer PM and Dr Maria Nadal of NIST. They will each serve a three-year term of office.

Awards:

The ISCC presented the Godlove Award to Rolf G. Kuehni for his lifetime of contributions toward the deeper understanding of the determination of color differences and color tolerances.

The ISCC also presented our Dorothy Nickerson Service Award to Dr. Ellen Carter for her many efforts

at improving the Board of Directors by serving both as a member and as an officer, helping to establish the central office and being the liaison between the ISCC and the journal *Color Research & Application*.

Louis Graham and Evelyn Stephens were elected to honorary membership in recognition of their years of service to the Council and to its aims.

Project Committees:

#51 *Material Standards and Their Use in Calibration and Verification* – submitted a final draft report for approval by the Board of Directors. The report is a revision and expansion of the very successful report TC 89-1.

#52 *Comparative List of Color Terms* – is progressing slowly, collecting new English terms that are in use today in commercial color communication and reproduction .

#53 *Annotated “Webliography” of Color* was closed for lack of participation.

#54 *Color of Maximum Contrast* – Are beginning the process of writing their final report.

Future Events:

In 2004, the ISCC will hold two meetings. The first will be in Gaithersburg, MD, at the National Institute for Standards and Technology in May in cooperation with the Council on *Optical Radiation Measurements (CORM)*. The meeting will deal with all aspects of calibration, verification and certification for accurate colorimetry.

The second will be held in New York City at the Fashion Institute of Technology (FIT) on *Color and Design*. The meeting will cover all aspects of the use of color and appearance in design including apparel, graphic and packaging.

For further information, please visit our website: www.iscc.org.

COLOUR EDUCATION

The Study Group on Colour Education of the International Colour 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.

Aims:

- To exchange of knowledge and experiences among its members
- To stimulate teaching and research
- To inform members and others 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 during 2003:

Newsletters have been sent out during the year with news and information about coming AIC meetings and other colour seminars, colour studies, methods of teaching colour, new literature etc.

Our literature list has been updated regarding literature used in colour studies and papers about how to teach colour. This work that on-going.

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

During the AIC Midterm Meeting in Bangkok, Thailand, August 4-6, 2003, there was one oral paper presentation on Colour Education titled How to teach colour and encourage colour communication by Berit Bergström.

For next year I hope that all members can work for an even more active network, with a lot of contributions from everyone about what is going on in your country etc. The goal is that the Study Group shall be a natural worldwide network for colour education, and that can only happen when everyone is active.

Email and homepage:

The Study Group has the following e-mail address:
swedish.colour.centre@ncscolour.com

The Swedish Colour Centre has its own homepage where you can also find information about the AIC Study Group on Colour Education and the up-coming AIC meetings.

Homepage: www.fargcentrum.se

Members of the Study Group Colour Education:

Today there are 46 members and 22 nations are represented in the group. The members' list is not on our web site to avoid too much spam. It will be sent out continuously when new members are being introduced.

The membership is free, and is available for every person/organization who/which scientifically or practically deals with colour in colour education and contributes to the realization 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 e-mail list and to have presented a paper or poster at an AIC meeting

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 COLOR DESIGN (ECD)

ECD activities at the AIC Midterm Meeting 2003 in Bangkok, Thailand:

Two of the four study groups of the AIC held specific sessions in the Bangkok meeting: Environmental Color Design, and Color Perception of the Elderly.

In the ECD session, chaired by Leo Oberascher, the following papers were presented:

- L. Luzzato and R. Pompas: *Artificial environment, cyber space and new colours projects*
- M. Billger: *Experience of light, colour and space in reality compared to virtual reality*
- T. Inagaki and S. Iijima: *A study on evaluation of the interior atmospheres and the choice of behavior with effects of lighting, color and gloss*
- K. Sakahara: *A color image in a shopping street: the case of 'Tanuki-Koji' in Saporò*
- J. Caivano and M. López: *The rhetoric of black, white and red: reasonability and aesthetics to persuade with color*

The posters under the ECD heading in the program were:

- M. Miyamoto: *Effects of light sources and colors of interior elements on atmosphere in the living room*
- T. Ishida and J. Sakai: *Evaluation of psychological images associated with colors as an aid for architectural color decision*
- S. Yamamoto: *Color of signs at large-scale railway stations in Japan*
- S. Rizzo: *Appearance in the time dimension of color and the environment*

In addition, other ECD members presented papers or posters in other sessions: Galen Minah, Berit Bergström, Vojko Pogacar, Osvaldo Da Pos, Leo Oberascher, Lucia Ronchi, and Paul Green-Armytage. In total, 9 ECD members attended the Bangkok meeting. However, it was a pity that, beyond the ECD oral session, we did not have time for a more or less informal discussion on the matters of the Study Group.

Participation of ECD members in Urban Color and the Environment – Between History and Contemporaneity, International Congress:

(reported by Silvia Rizzo)

For the first time in Italy, on May 23 2003, at Palazzo Ducale in Genoa, this international congress took place

under the patronage of Genoa, European Capital of Culture. Silvia Rizzo was the curator of the congress.

The congress suggested a revaluation of colors in historical sites, as a specific stylistic element connected to the topics of restoration for the preservation of original decorations. Also, this congress provided a comprehensive view of the relation between color and the environment. Starting from an overview of historic Genoa, already known as “Genua Picta”, issues and research work that took place in other nations were synergically analyzed. The role of color in contemporary times was considered, involving wider perception spaces related to our world of senses. The final aim is to establish a more harmonious relation connected to existential issues, without neglecting the conflicts of reality.

Among other speakers, the following ECD members participated in this congress: Karin Fridell Anter (Sweden), Fanny Tosca (Greece, former ECD member), Susan Habib (Turkey), and Silvia Rizzo (Italy).

ECD e-mail 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). At present, this list has 183 subscribers.

ECD web site:

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

The website includes some documents and articles, links of interest, and the list and addresses of ECD members. At present, the Study Group has 39 members from 20 different countries.

José Luis Caivano (chairman)
jcaivano@fadu.uba.ar

Leo Oberascher (co-chairman)
ecd@leoncolor.com

VISUAL ILLUSIONS AND EFFECTS

Activities:

The main goal of the Study Group is to promote a deeper understanding of visual illusions, especially those dealing with the perception of color, so as to make easier their application in everyday life. Scientific meetings like that held in Bangkok are precious occasions to collect people working in this specialized area and to share new acquisitions in the field of color illusions. After some preliminary organizational agreements, a number of papers and demonstrations were presented at the AIC 2003 Midterm Meeting, dealing more or less explicitly with the topic of visual illusions and effects.

The list of visual effects which can be considered as illusory is partly well known, and its length is continuously growing. Nevertheless some specific phenomena are not always explicitly recognized as illusory, although a long tradition of scientific research has contributed to their specification and comprehension. This is clearly the case of many contributions at the meeting which were dealing with the classical subject of illusions. A short overview will show how wide is this kind of research presented in Bangkok.

Following a definition of illusion given by the chairman of this Study Group at the AIC 1997 Conference in Kyoto, illusory are those objects that change their appearance more or less dramatically as a consequence of changes in the context, in a wide sense. With reference to this aspect, some papers are centered on the changes in lightness and chromaticness of a test patch as a function of the presence and the number of the surrounding walls [1] or the illumination condition of the room where it is observed [2] and the illumination level [3].

Simultaneous color contrast is a more specific phenomenon considered illusory by tradition: there are many different explanations of this effect, ranging from chiefly physiological interpretations to more psychological approaches. In one case local interaction between neurons would be responsible for the effect; while in the second case, clearly put forward by Musatti in the fifties [4] in the line of the double representation theory of the Gestalt tradition, contrast would be the result of a perceptual removal of a common component from all the colors of a surface seen under the same illumination. This removal obeys a classical Gestalt principle expressed by Musatti as the tendency to maximum simplification. The largest area in the field determines the intensity and the color of the subtracted illumination: surface colors then appear modified in the opposite direction of the color of the perceived

illumination. This concept is interestingly very close to the RVSI proposed by Ikeda and co-workers [5] who in addition show that the 3D organization of the surround is much more effective than the 2D classical demonstrations in increasing the contrast strength, i.e. the illusory change in color appearance.

Although strictly connected to the previous considerations, the work by Takashima [6] centers its attention on the continuity aspect shown by color contrast and color assimilation. The two illusory color changes depend on complex interactions of objective and subjective conditions: color, size, viewing conditions and attitude. The work confirms and extends those proposals according to which analytical and detailed observation leads to contrast, while an overall view of the whole figure leads to assimilation. What is interesting in this work is the role of the observer in the perceptual result: also the observer is part of the context.

Changes in the mode of appearance of a target from surface color to light source depend not only on the intensity of radiations reaching the observer's eye from it, but also on the level of illumination perceived in the surrounding environment [7, 8] and color constancy is better if the target appears more luminous than what would be expected if it were just reflecting the environmental illumination [9].

One might consider Virtual Reality Simulation as illusory or non-veridical because, at the level of pure perception, we cannot in principle distinguish between the natural and the artificial object. Unfortunately for designers, current V.R. is not so compelling, and a number of limitations need to be overcome [10]. One argument against the theories which focus their attention on illusions is that, in the natural environment and with natural behavior by the observer, illusions do not exist at all (or are drastically reduced). A theoretical problem concerns the distinction between the natural and the artificial (or non-natural): why looking through lenses (for instance TTL in a traditional camera) would be more natural than looking at a LCD display (as in a modern digital camera)? This distinction, in turn, would determine whether wearing colored goggles produces such an alteration of the perceived environment that the phenomenon should be considered a sort of illusion. Two contributions [11, 12] study the relationship between natural vision, impaired vision, and vision through lenses, with the assumption that the optical devices can simulate either correct or impaired vision: the argument is still whether or not artificial optical devices necessarily involve illusions. Probably they do not.

VISUAL ILLUSIONS AND EFFECTS CONTINUED

One more paper [13] deals with an explicitly recognized illusion, the AMBEGUJAS, which is an ambiguous reversing figure with three or four different perceptual organizations. The illusory aspects of the phenomenon consists in the various perceptual configurations under which the same figure appears, which show different surface colors and different illuminations depending on the perceived 3D organization. The study shows that the Gestalt principle of maximum simplicity is at work also here in reducing the number of perceived colors to two instead of four (reduction in the objects) at two different illuminations (high and low in one case, warm and cold in another case). Also in the case of perceived colored illumination there is a tendency to a maximum simplification (a further reduction in the illumination): only two surface grays are perceived (instead of four chromatic regions), and the light tends to appear as neutral as possible (both the warm and the cold colors lose their saturation). The desaturation which the colored illumination shows in the experimental conditions is about 20% of the corresponding surface color, but increases very much with prolonged observation. A different physiological mechanism from the normal light adaptation seems to be at work as colors appear immediately very saturated after spatial reversal.

- [1] Yamauchi R., Shinoda H. and Ikeda M. *Importance of enclosing a space by walls for constructing the recognized visual space of illumination*
- [2] Janchidfah N., Punggrassamee P., Shinoda H. *Color Appearance Mode Change of CRT Monitor*
- [3] Shin JC., Matsuki N., Kikuchi K., Yaguchi H. and Shioiri S. *Toward mesopic color reproduction*
- [4] Musatti C. 'Les phénomènes d'égalization entre surfaces chromatique'. In: Meyerson I. (ed.), *Problèmes de la couleur*. Paris, ESVPEN, 93-104.
- [5] Cunthasaksiri P., Shinoda H., and Ikeda M. *Space recognition: New account for simultaneous color contrast on a center-surround configuration*
- [6] Takashima M. *The Manner of Viewing in Lightness Contrast-Assimilation Comparison between Color Experts and Naive Observers*
- [7] Thiangthangtum Y., Ikeda M. and Shinoda H. *Recognition of the space illumination as the main determinant of the border of the color mode change*
- [8] Yamaguchi H., Shinoda H., and Ikeda M. *Space Brightness of Non-Uniformly Illuminated Space Measured by Border Luminance*
- [9] Phongbangly S., Ikeda M., and Shinoda H. *The*

Color Constancy of Light Source Color Mode on a Mobile Phone Display

- [10] Billger M. *Experience of Light, Colour and Space in Reality compared to Virtual Reality*
- [11] Ikeda M, Obama T, Kusumi A, Shinoda H. *Color appearance of color charts observed with a cataract experiencing goggle*
- [12] Kusumi A., Ikeda M. and Shinoda H. *Duality of Color Perception with Colored Eyeglass for Different Color Appearance Modes*
- [13] Da Pos O., Bergström S.S. – *Desaturation of the perceived illumination in the ambegujas display*

The next important AIC conference is planned to be held in Granada in 2005. People interested in presenting papers concerned with color illusions are invited to contact the chairman of the Study Group, O. da Pos: osvaldo.dapos@unipd.it

Website:

A web page has been prepared for the internet where people interested in color illusions can put their observations, works, and proposals dealing with visual illusions and effects:

http://www.psy.unipd.it/%7Edapos/visual_illusions/

The main goal of the page is to discuss theoretical issues concerning visual illusion in general and color illusions in particular, together with actual and practical examples.

25.01.2004
Osvaldo da Pos

COLOUR PERCEPTION OF THE ELDERLY

Activities:

News of the study group's activities were emailed to members.

A symposium for the study group on Color Perception of the Elderly was included in the program for AIC2003 Bangkok. One keynote paper, six oral papers and two poster papers were presented there.

The hardware for the mailing list system for the Study Group has been built and now the software is being set up. Hopefully, it will work within a month.

Chairperson:

Katsunori Okajima

CIE Division I Liaison Report



CIE Division 1 met jointly with CIE Division 2 this year in Tokyo, Japan from June 9th to June 11th. Since CIE Divisions 1 & 2 activities are so closely related, it is always very stimulating, informative and useful to hold joint meetings. The joint session focused on three very important subjects, which will be summarized here.

1. Safety aspects of Light-Emitting Diodes (LEDs)

This session was chaired by Werner Horak from Siemens AG. Two major LED standards exist:

- a. IEC 60825-1 for lasers, but LEDs are included because the document says one can substitute "LED" at each location "laser" is mentioned
- b. CIE S009:2002 Photobiology Safety of Lamps & Lamp Systems.- This CIE standard limits the values for spectral distribution, size and location of apparent source, and angular subtense (from 200 mm). This standard also specifies measurement conditions as average radiance (with 3 mm aperture at 500 lx but not less than 200 mm). The hazards which need to be dealt with are retinal blue light and retinal thermal radiation (eye sunburn). Most work will be done in Dr. Kamoto's Technical Committee, TC2-58 which also contains members from Division 6.

It is hoped that LEDs will be removed from IEC document, which will effectively move LED regulation to the CIE standard.

2. Colour rendering issues for LEDs

Historically we began with a spectral band method, then changed to a method based on test samples of which there were several: a) Nickerson, b) Osram, c) Phillips, d) Compromise 8 + 6. For CIE Technical Committee (TC) 1-33, the test samples were the Macbeth Colour Checker Chart. The discussion points center around one fundamental question; would we use a colour difference method? If so, which space should be used for the colour difference metric? Another important question to be resolved is what should the reference source be? Should it be

D65 or some other correlated colour temperature? Three to five different sources have been mentioned as being important. If the colour rendering indices are to be averaged, what type of averaging should be used; linear or quadratic? Should there be a correction for direction dependence? Often times there are concerns beyond rendering like clarity, gamut, flattery, discrimination, categorical colour naming, and colour harmony. Division 1 should be very explicit about defining colour rendering. Dr. Peter Bodrogi commented that there is a need for a general ranking among LEDs and other types of light emitters/sources. Dr. János Schanda said we should keep the current CIE Colour Rendering Index, Ra, and start a new rating of appearance for a lit room. We might offer colour rendering for appearance or mesopic adaptation applications and there could be many others. Dr. Micheal Pointer reminded everyone of his 1986 paper applying a colour appearance model for colour rendering.

3. Mesopic Photometry

This session was led by Liisa Halonen, who chairs CIE TC 1-58. We need both foveal and peripheral situations for mesopic photometry. The questions to be answered are: is $V(\lambda)$ okay?; and is it possible to establish performance based mesopic photometry? Next, a description of the European program, MOVE, was given. MOVE uses different experimental techniques but evaluates common parameters in order to develop to a Multi Mesopic Model (MMM). The luminance levels are 0.01, 0.1, 1, 10 cd/m². The eccentricity is either 0 or 10 degrees. The target size is 2 degrees and 0.3 degrees. The three questions asked are 1) detection or contrast threshold, 2) speed of performance (reaction time), and 3) recognition. Following the description of MOVE, there was a discussion of performance-based versus brightness-based photometry. The problem with the brightness-based approach is that brightness doesn't bridge the gap since it doesn't work in the scotopic region. Thus, we probably should separate out brightness. Dr. Ken Sagawa commented that neither $V(\lambda)$ nor $V'(\lambda)$ take into account colour and that is important also. It is also important to deal with the topic of conspicuity. Bear in mind that equivalent luminance should be used in these applications.

There are two sections to CIE Division 1; a Vision Section and a Colour Section. The Colour Section of Division 1 is of most interest to AIC so its activities will be summarized here.

Technical Committees in the CIE Division 1 Colour Section

- TC1-27 Specification of colour appearance for reflective media and self-luminous display comparisons – This TC found that the CIECAM-type colour appearance model worked well for hardcopy/softcopy image comparisons featuring viewing conditions that differed in chromaticity, but that the CIECAM-type colour appearance model did not work as well for hardcopy/softcopy image comparisons featuring viewing conditions that differed in chromaticity and luminance. This work was transferred to CIE Division 8, TC8-01, and was used to develop modifications to the original CIECAM colour appearance model. A report is being written.
- TC1-38 Compatibility of tabular spectral data for computational purposes – Draft 8 of the report is being circulated. If approved, the report should be ready for ballot soon.
- TC1-44 Practical daylight sources for colorimetry – A very extensive report was written for the CIE Division 1 Activity Report. The final technical report is currently being written. It will exclude the issues of fluorescence, which should become the topic of another committee.
- TC1-48 Revision of CIE Document 15.2 Colorimetry – CIE Publication 15.3 is out for ballot with some comments. It should be published soon. A question was raised as to whether 15.3 should be a book published by the CIE, which would make it more readable. No final decision was reached on this.
- TC1-52 Chromatic Adaptation Transform – The final report ballot was approved with some comments. The comments will be taken into consideration and the report should be published soon.
- TC1-53 A standard method of assessing the quality of daylight simulators – The report came back from international ballot with many comments. Drs. Zwinkels and Hirschler worked hard to help resolve the comments. The modified report has gone back to CIE Central Bureau to go out for a second vote.
- TC1-55 Uniform colour space for industrial colour difference evaluation – This committee is mainly watching what practices are currently being followed in industry.
- TC1-56 Improved Colour Matching Functions – The work that is going on in this area is being collected by the Chair.
- TC1-57 Standards in colorimetry – This committee is waiting for the work of some other TCs to finish (i.e. TC1-38, 1-48, etc). CIE Division 1 has received a lot of concern from ISO and IEC, so liaisons between CIE and ISO and IEC have been established within this committee. The first standard was sent out for comment and within a one year time period, no comments were received. Standard 2 and hopefully 3 will be ready by next meeting in May 2005.
- TC1-61 Categorical Colour Identification- Very little work is going on here. The applications may not clearly be defined. The Division Director, Sharon McFadden offered to become involved to see if she could help.
- TC 1-62 Colour rendering of white LED light sources – The committee met in Tokyo. They agreed to write a report showing the failures of the current method for computing Colour Rendering Index, and then they will propose a new TC to develop a new metric for all lights when the technical report is completed.
- TC1-63 Validity of the range of CIEDE2000 – When considering the whole range of industrial colour differences from threshold to large, CIE DE2000 may not always be valid. The committee plans on taking threshold data from Gegenfurtner, Holtsmakr-Valberg, Richter, Rosemann, and Yaguchi. The committee will take large colour difference data from such colour order systems as Munsell, OSA, NCS, RAL CIELAB or experimental results based on these systems. The CIEDE2000 validity test will also include data used by TC1-55 in the range from 0 to 5 CIELAB units.
- TC1-64 Terminology for vision, colour, and appearance – This committee met in Tokyo and they decided to continue working on the following terms: absolute colorimetric coordinates, colour appearance models, colour gamut, colour gamut boundary, and incomplete adaptation. They decided that the following new terms are needed: CIE standard spectral luminous efficiency functions, visual performance, blind spot, central vision, peripheral vision, CIE 1960 uniform-chromaticity scale diagram, isotemperature line, contrast, legibility, Maxwellian view, pseudoisochromatic plates (and other vision deficiency terms), retinal illuminance, conspicuity (visibility), Abney phenomenon, andBezold Brucke phenomenon
- TC1-65 Visual Appearance Measurement – This committee met in Tokyo. The chair has circulated one

CIE Division I Liaison Report CONTINUED

document and received responses from the committee members. This committee has two corresponding members and a liaison member. The document will be the basis of a technical report, which can be used as the foundation of where the committee can go.

Reporterships in the CIE Division I Colour Section

- R1-11 Cognitive aspects of colour -The report has been refereed and needs some revision of the summary and comments before publication.
- R1-32 Emotional aspects of colour – The reporter has made literature studies regarding pathways in the brain involved during stress and hence emotions.
- R1-33 Colour difference evaluation – A written report was appended to the minutes of the meeting, interested parties can read it at the Division 1 website.
- R1-34 Indoor lighting – There was much interest from some ISO committees. The reporter, János Schanda, sent a report and recommended the formation of a Technical Committee. There are two possibilities; one is using D65 modified by window glass as a basis, or the second is to collect indoor light spectra. Given these two possibilities, a unanimous vote approved closure of this reportership.

New Work Items

When approved by the CIE Board of Administration, the following new technical committees and reporterships will be formed in Division 1:

1. New Reportership -R1-35 (V) Irregularities in $y_{bar}_{10}(\lambda)$
Terms of Reference: To document the irregularities in $y_{bar}_{10}(\lambda)$ and, if necessary, to recommend the formation of a Technical Committee to consider possible modifications.
Reporter: Pieter Walraven NL
2. New Reportership – R 1-36 (V) Action spectra for glare
Terms of Reference: To summarize the literature on the subject and make a recommendation for terms of reference for a technical committee.
Reporter: Judith Fekete HU

Here is some background as to why this reportership is important. We know that halide lamps create more glare than traditional incandescent headlamps on automobiles. In the next five years, LED lamps will also come. We should be prepared. It is something

other than $V(\lambda)$. Is it discomfort glare and not disability glare? It would be the job of the reporter to establish whether it is discomfort or disability glare.

3. New Reportership R1-37 (V) Definition of the visual field for conspicuity
Reporter: Nana Itoh JP
Terms of Reference: To summarize the literature on the visual field for conspicuity and make a recommendation for terms of reference for a technical committee.
4. New Technical Committee TC 1-66: Indoor Daylight Illuminant
Chairman: Janos Schanda HU
Terms of Reference: To prepare a CIE recommendation on an Indoor Daylight Illuminant and a corresponding Indoor Daylight Source, considering the needs of the partner international standards organization.

Future meetings

2005 – The next meeting of CIE Division 1 will be in Leon, Spain, May 16 and 17, 2005. This meeting will follow the AIC 10th Quadrennial meeting from May 8-13, 2005 in Granada, Spain.

2006 – The 2006 CIE Division 1 meeting will be in Canada, either in Toronto or Ottawa in conjunction with the ISCC Annual meeting, with the topic of celebrating the 75th Birthday of the CIE Standard Observer and the 75th Anniversary of the ISCC.

2007 – CIE Quadrennial meeting will be in Beijing, China.

For more information on CIE Division 1, please visit the website at

<http://www.bio.im.hiroshima-cu.ac.jp/~cie1>.

Respectfully submitted,
Paula J. Alessi, AIC Liaison to CIE Division 1
Ellen Carter, USNC CIE Division 1 Alternate

CIE DIVISION 2

CIE Division 2: Physical Measurement of Light and Radiation

Division 2 is one of the seven CIE technical divisions. Its terms of Reference are: To study standard procedures for the evaluation of ultraviolet, visible and infrared radiation, global radiation, and optical properties of materials and luminaires; and to study optical properties and performance of physical detectors and other devices required for their evaluation.

Annual Meeting:

Last year CIE Division 2 has held its annual meeting in San Diego on the occasion of the CIE Quadrennial Conference. The main news close to AIC interests can be summarized as follows (A more complete report can be found at <http://cie2.nist.gov>, the web site of CIE Division 2.):

I. New Publications.

Two new publications have been produced by Division 2 during the last period: One is CIE Publication 149:2002 *The use of Tungsten Filament Lamps as Secondary Standard Sources*, and the other is *Intercomparison of Measurements on HPS lamps* that will be published in the CIE Collection.

2. Technical Committees and reporters.

Among the activities of the technical committees of this Division can be noticed the following:

- Visual Gloss. A report has been produced by Dr. M. Pointer. He remarks that standardized methods for calculating gloss in several industrial standards do not give numbers that correlate well with visual impression. So, he recommends more work in this topic, but it will be done by a new Technical Committee in Division 1: Visual Appearance Measurements, rather than in Division 2. The report is available in the web site.
- Geometric Tolerances for Color Measurements (TC2-39). The intention 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. This TC's work is close to its end. It is expected a draft for balloting within Division 2 before the end of this year. This document is expected to fill the gap existing regarding geometry specifications in spectrophotometric measurements.

- Characterization of the performance of tristimulus colorimeters (TC2-16). This TC intends to produce a report recommending methods for assessing the performance of tristimulus colorimeter heads for measuring chromaticity coordinates. A draft of a document will be distributed soon for balloting.
- Multi-Geometry Color Measurements of Effect Materials (TC2-53). The intention of this TC is to write recommendations for the color measurement of effect materials. The work plan consists of: comparison of the DIN and ASTM standards on multigeometry color measurement, preparation of an educational section to combine most interests and recommendations from the educational section for the next meeting.
- Evaluation of Colorimeter Spectral Responsivity (R2-28). This reportership is intended to review new methods for assessing the 'quality-of-fit' of the spectral responsivity of colorimeters, particularly for use with new sources such as LEDs.
- Characterization of imaging luminance measurement devices (R2-29). This reportership is intended to prepare a proposal for a new TC to prepare recommendations on the characterization and calibration of CCD-based imaging photometers. The main conclusion at present is that imaging luminance measurement devices are complex systems, and CIE 69 is not sufficient to characterize them. There is some interest from industry to have some guidelines on how to characterize such devices.

3. New Technical Committees and reporterships.

A new TC has been established to prepare a CIE/ISO Standard on retro-reflectance measurements, chaired by Cameron Miller (USA). Alan Robertson will chair another new TC to include D50 as a CIE Standard Illuminant (revision of CIE S014-2). This comes from a request from people working in paper and graphic arts industries. Finally, Kohtaro Kohmoto will chair another new TC to prepare recommendations for measuring radiance and luminance of LEDs. In addition to that a new reportership was established for visual appearance measurement, to monitor the work of Division 1 on visual appearance measurement, which will include potential new measurement areas.

Joaquin Campos

