



2017 ANNUAL REVIEW

Published October 2018



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

We are the result of our hard work. Our passion for what we do makes us pioneers in our sector.

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AIC 2017 Congress, Jeju, Korea

Nick has been elected Vice President for the 2014-15 term. He will become the Past President for 2018-19.



The AIC website is regularly updated and proceedings for all AIC Meetings dating back until the first AIC Conference in 1969 are now available on the website. A large thank you is due particularly to Jose Caivano and Frank Rochow for compiling this valuable research resource. The Journal of the AIC is also now available on the website thanks to the work of the editors Vien Cheung and Steve Westland plus AIC webmaster Jose Caivano.

On behalf of the AIC Executive Committee and AIC family, I would like to congratulate the Co-chairs Ingrid Calvo Ivanovic, Maria Rosa Domper, Paz Cox Irrarrazaval and the team at Asociación Chilena del Color who organised the outstanding programme for the AIC Interim Meeting 2016 in Santiago.

Highlighting the global significance of the AIC there were more than 100 oral and poster presentations from twenty-seven countries within Asia, Europe, North and South America, the Middle East and the Sub-Continent. AIC membership now stands at 27 regular members, 20 individual members and three associate members.

AIC 2017 continues the tradition of the AIC being a truly global organisation with 160 oral and 250 poster presentations with delegates from thirty-seven countries. Professor Jinsook Lee and her colleagues from the Korean Society of Color Studies have done amazingly well in organising a very successful AIC 2017 Congress in very trying circumstances.

NEW AND CURRENT INITIATIVES

1. AIC Student Paper Awards

The goal of the new AIC Student Research Awards scheme is to encourage students to present their work at the AIC meetings and to benefit from interaction with the international colour community. Applications must be substantially related to the subject of colour, but may be based in any discipline or mix of disciplines. Both research-based and practice-based work will be considered. The best six papers, as judged by the Award's panel will be published in a special edition of the Journal of the AIC and a financial reward funded by the AIC: 1st AUD1,000, 2nd AUD600 and 3rd AUD400.00. Plus, a complementary pass to the Conference banquet for the top six authors. The first awards will be presented at AIC 2018 in Lisbon, Portugal.

2. AIC Brand & Design Work Group Proposal

The Executive Committee is proposing that a design working group be established. This will comprise members that are knowledgeable in the fields of branding, print and web design and social media to ensure that all initiatives that involve decisions concerning the AIC

brand across all applications is consistent and adhere to developed standards.

3. Study Group on Arts and Design

This is an initiative from Professor Dr Maria João Durão. We are in an age of the hybrid and the crossover. A time when the combined forces of new media, postmodern thought and history have made it possible for artists to assemble various art techniques. Borders can at times be unclear in the contemporary Arts and Design practices; for example, in the domain of painting, the stretching of definitions is the actual substance of the work. But at the same time, the study of painting, sculpture and drawing from previous eras are also contemplated. Disciplines under the umbrella of the Study Group on Environmental Colour Design do not overlap with the Study Group, Arts and Design which includes the following disciplines: painting, sculpture, drawing, illustration, illuminated manuscripts. Photography, cinema, audiovisuals, virtual reality, digital printing, jewelry, fashion, textile, communication and graphic design. Also, product and industrial design such as furniture, automotive and aeronautic.

4. Future AIC Meetings

Future AIC meetings are scheduled in Lisbon, Portugal in 2018 hosted by Associação Portuguesa da Cor, in Buenos Aires, Argentina in 2019 hosted by Grupo Argentino del Color, Toulouse, France in 2020 hosted by Centre Français de la Couleur and the next Congress in Milan in 2021 hosted by Gruppo Del Colore – Associazione Italiana Colore. In June 2018, there will also be a special joint ISCC and AIC meeting to celebrate the Munsell Centenary. This will be held at the Massachusetts College of Art and Design in Boston.

5. International Colour Day

To increase awareness in colour in the wider community the AIC has been promoting the International Colour Day which falls on the March Equinox. This concept has been enthusiastically adopted by a number of the Regular Members. Our aim is to have UNESCO recognize the ICD but firstly we need all 27 Regular Members to take ownership of the ICD.

6. Co-operation with the CIE

The AIC membership wants to further grow the already close relationship we have with the CIE particularly in coordinating our meetings as we have done on Jeju island.

7. AIC Banking Arrangements

In May 2012 UBS Zurich, with whom the AIC banked since its establishment, advised the AIC Executive Committee that from June 2012 it was no longer viable for UBS to maintain the account due to the low value of its financial resource. UBS advised they would give us until the end of July 2012 to close the account. Funds were transferred from UBS to a new account with the St. George Bank in Sydney in August 2012. There are now two accounts: a day to day

Business Account and a Savings Account which earns some interest. To establish the account the AIC had to be registered in Australia as an organisation with at least one Officer of the AIC as a resident in Australia. The Executive Committee has reviewed the current banking arrangements and believes that to change country again will be very difficult. My term as an Officer of the AIC will expire at the end of 2019 and we need to have in place an alternative primary account holder who is resident in Australia.

The Colour Society of Australia has very kindly accepted that their current Treasurer at any given time can take on this role. For this protocol to be acceptable to the St. George Bank we will need to create an honorary position on the Executive Committee. We are proposing a new non-voting role for the CSA Treasurer and one which will remain in place until alternative banking arrangements are established.

8. On-line Attendance at the Executive Committee Meeting and Voting During the General Assembly

For the first time we have facilitated on-line attendance at the AIC Executive Committee meeting as a number of EC members were unable to attend in person, including myself for health reasons. We have also set up, subject to General Assembly approval, on-line voting for the EC elections and the above proposals.

9. New Initiatives for the Next Executive Committee

i. Reviewing the Statutes for Executive Committee nominations following the recommendations from the AIC Auditors and submitting these for approval by the Regular Members

ii. Reviewing the intervals between AIC Congresses.

None of the above projects would have been possible without the support of a great team i.e. Javier Romero Immediate Past President, Tien Rein Lee Vice President, Lindsay MacDonald Secretary/Treasurer, Jinsook Lee Chair AIC 2017, Maria João Durão Executive Committee Member, Gabriela Nirino Executive Committee Member, Leslie Harrington Executive Committee Member, Stephen Westland Editor-in-Chief JAIC, Vien Cheung Associate Editor JAIC, Jose Caivano AIC Webmaster. Paula Alessi Auditor and Mentor, Frank Rochow Auditor and Mentor plus the Chairs and Co-Chairs of the AIC Study Groups, Robert Hirschler, Verena M. Schindler, Katsunori Okajima, Manuel Melgosa, Dimitris Mylonas and Galina Paramei.

Lastly on behalf of the AIC Community, I would particularly like to thank Javier Romero. the current immediate Past President, for his remarkable commitment to the AIC since first becoming a member of the Executive Committee in 1998. An outstanding contribution.

Nick Harkness

President

Association Internationale de la Couleur

AIC 2017 PRESIDENT'S REPORT

by Nick Harkness



The Association Internationale de la Couleur (AIC) celebrates its Fiftieth Anniversary this year. The AIC was founded June 21st 1967 in Washington DC, USA during the 16th Session of the Commission Internationale de l'Éclairage (CIE). There were eight foundation members; USA - Inter-Society Color Council (Deane B. Judd), France - Centre d'Information de la Couleur (Yves LeGrand), Great Britain - The Colour Group (Robert W. G. Hunt), Spain - Comité Español del Color (Lorenzo Plaza), Sweden - Swedish Colour Group (Gunnar Tonnquist), Switzerland - pro/colore (Ernst Ganz), Japan - Color Science Association of Japan (Tamotsu Fukuda) and The Netherlands - Nederlandse Vereniging (J.L. Ouwettjes). The AIC currently has 27 Regular Members.

In 1975 the AIC at the bequest of Betty Judd in memory of her husband, established the Deane B. Judd Award to recognise outstanding work in the field of color science. The list of recipients, from Dorothy Nickerson [1900-1985] (USA) in 1975 to Françoise Viénot in 2015 represents the International elite of colour science researchers. The AIC has recently established a new award for excellence in research in Colour in Art, Design and Environment. The first of these awards will be presented in Jeju during the AIC Congress.

AIC Executive Committee elections for the Secretary / Treasurer and four ordinary members is held every two years.

// BEHIND THE SCENCE //

CURRENT
AIC EXECUTIVE COMMITTEE 2016-17



President
Nick Harkness
AUSTRALIA



Vice President
Tien-Rein Lee
TAIWAN



Past President
Javier Romero
SPAIN



Secretary | Treasurer
Lindsay MacDonald
UK



Ordinary Member
Maria João Durão
PORTUGAL



Ordinary Member
Leslie Harrington
USA



Ordinary Member
Jinsook Lee
KOREA



Ordinary Member
Gabriela Nirino
ARGENTINA

Auditors 2016-17



Paula Alessi
USA



Frank Rochow
GERMANY

The Vice President is also the incoming President for the next term

// BEHIND THE SCENCE //

INCOMING
AIC EXECUTIVE COMMITTEE 2018-19



President
Tien-Rein Lee
TAIWAN



Vice President
Vien Cheung
UK



Past President
Nick Harkness
AUSTRALIA



Ordinary Member
Paula Csillag
BRAZIL



Ordinary Member
Maurizio Rossi
ITALY



Secretary | Treasurer
Leslie Harrington
USA



Ordinary Member
Ralf Weber
GERMANY



Ordinary Member
Takahiko Horiuchi
JAPAN



Secretary | Treasurer
Leslie Harrington
USA

Auditors 2018-19



Berit Bergström
SWEDEN



Jose Luis Caivano
ARGENTINA

The AIC 2018-19 EC elections was held at the 2017 Congree in JeJu, Korea



ABOUT THE EC

The EC is composed of 8 positions. The Past President, President and Vice President, are consecutive positions. Therefore if you are elected Vice President you will be on the EC for 6 years. If you are interested in joining the EC, contact your member organization.

// GLOBAL MEMBERSHIP //

AIC REGULAR MEMBERS**ARGENTINA**

GRUPO ARGENTINO DEL COLOR
aike.fadu.uba.ar/sitios/sicyt/color/gac
María Paula Giglio (President)
María Eugenia Bravo (Secretary)

AUSTRALIA

COLOUR SOCIETY OF AUSTRALIA
www.coloursociety.org.au
Judith Briggs (President)
Glenys Thomson (Secretary)

BELGIUM

INTERDISCIPLINARY COLOUR ASSOCIATION
https://ica-belgium.org/
Janneke Hanenburg (President)
Filip Roscam (Secretary)

BRAZIL

ASSOCIAÇÃO PRÓ-COR DO BRASIL
www.procor.org.br
Paula Csillag (President)
Fabio Cuppo (Treasurer)

BULGARIA

COLOR GROUP BULGARIA
www.bgcolorgroup.org
Ralitza Gueleva-Tzvetkova (President)
Sofia Anguelova (Secretary)

CANADA

COLOUR RESEARCH SOCIETY OF CANADA
www.colourresearch.org
Doreen Balabanoff (President)
David Griffin (Vice President)

CHILE

ASOCIACIÓN CHILENA DEL COLOR
www.asociaciondelcolor.cl
Paz Cox Irrarrazaval (President)
Ingrid Calvo Ivanovic (Outreach)

CHINA

COLOR ASSOCIATION OF CHINA
www.fashioncolor.org.cn
Haisong Xu (President)
Yu Ma (Secretary)

CROATIA

HRVATSKA UDRUGA ZA BOJE
www.hubo.hr
Martinia Ira Glogar (President)
Ivana Ziljak Stanimirovic (Secretary)

FINLAND

SUOMEN VÄRIYHDISTYS SVY RY
www.svy.fi
Sini Vihma (President)
Harald Arnkil (Vice-president)

FRANCE

CENTRE FRANÇAIS DE LA COULEUR
www.cf-couleur.fr
Patrick Callet (President)
Barbara Blin-Barrois (Vice-President)

GERMANY

DEUTSCHER VERBAND FARBE
www.dfwg.de
Frank Rochow (Chairman)
Axel Buether (Vice-Chairman)

GREAT BRITAIN

THE COLOUR GROUP (GREAT BRITAIN)
www.colour.org.uk
Elza Tantcheva-Burdge (Chairman)
Jenny Bosten (Secretary)

HUNGARY

HUNGARIAN NATIONAL COLOUR C'TEE
http://mta.aic.mnb.uni-obuda.hu
Ákos Nemcsics (President)
Janos Zana (Secretary)

ITALY

ASSOCIAZIONE ITALIANA COLORE
www.gruppodelcolore.it
Maurizio Rossi (President)
Veronica Marchiafava (Secretary)

JAPAN

COLOR SCIENCE ASSOCIATION OF JAPAN
www.color-science.jp
Shin'ya Takahashi (President)
Katsunori Okajima (Liaison)

KOREA

KOREAN SOCIETY OF COLOR STUDIES
www.color.or.kr
Jinsook Lee (President)
Hyeryeoun Kim (Secretary)

MEXICO

ASOCIACION MEXICANA de INVESTIGADORES del
COLOR A.C.
www.amexinc.mx
Liliana Monroy Mendoza (President)
Carlos Trillas Salazar (Secretary)

THE NETHERLANDS

STICHTING KLEURENVISIE
www.kleurenvisie.nl
Kim Van Savooyen (Director)
Jan de Vletter (Secretary)

NORWAY

FORUM FARGE
www.forumfarge.no
Mette L'orange (President)
Marius Pedersen (Secretary)

PORTUGAL

ASSOCIAÇÃO PORTUGUESA DA COR
www.apcor.org
Margarida Gamito (President)
Maria Cristina Pinheiro (Secretary)

SLOVENIA

SLOVENSKO ZDRUZENJE ZA BARVE
www.szb.si
Sabina Bračko (President)
Jasmina Weis (Secretary)

**Our members represent
28 countries on five
continents.**

SPAIN

COMITÉ ESPAÑOL DEL COLOR
http://www.sedoptica.es/SEDO/color/index.htm
Juan Luis Nieves (President)
Esther Perales (Secretary)

SWEDEN

STIFTELSEN SVENSKT FÄRGCENTRUM
www.colourspot.org
Lena Anderson (Chairman)
Berit Bergström (Secretary)

SWITZERLAND

PRO/COLORE
www.procolore.ch
Sabeth Tödtli (Geschäftsstelle)
Verena M Schindler (Liaison)

TAIWAN

COLOR ASSOCIATION OF TAIWAN
www.color.org.tw
I-Ping Chen (President)
Tracy Hsieh (Deputy Secretary)

THAILAND

THE COLOR GROUP OF THAILAND
www.thaicolourgroup.org
Aran Hansuebsai (Chairman)
Uravis Tangkijviwat (Secretary)

USA

INTER-SOCIETY COLOR COUNCIL
www.iscc.org
John Conant (President)
Paula Alessi (Liaison)



// GLOBAL MEMBERSHIP //

AIC ASSOCIATE & INDIVIDUAL MEMBERS

ASSOCIATE MEMBERS

Color Marketing Group - CMG, USA
International Association of Color
Consultants/Designers, North America

INDIVIDUAL MEMBERS

Yulia Griber, Russia
Esther Hagenlocher, USA
Anishka Hettiarichchi, Sri Lanka
Ines Klemm, Switzerland
Natacha Le Duff, Germany
Leila Susan Munive, Peru
Jaishanker R Nair, India
Zena O'Connor, Australia
Kazim Hilmi Or, Turkey
Becky Ndidi Oyibo, Nigeria
Maria Papadopoulou, Greece
Rita Rao, Argentina
Alan R Robertson, Canada
Kevin Smet, Belgium
Mette Terkildsen, Denmark
Laura Tofts, Zimbabwe
Andrea Urland, Slovak Republic
Mark Wentworth, UK
Pietro Zennaro, Italy
Verónica Zybaczynski, Romania

AIC HISTORY

AIC was founded June 21, 1967, in Washington DC, USA, during the 16th Session of the CIE (Commission Internationale de l'Éclairage)

AIC Foundation Documents was signed in by these eight national color associations:

USA - Inter-Society Color Council
(Deane B. Judd)

France - Centre d'Information de la Couleur
(Yves LeGrand)

Great Britain - The Colour Group (Great Britain)
(Robert W. G. Hunt)

Spain - Comité Español del Color
(Lorenzo Plaza)

Sweden - Swedish Colour Group
(Gunnar Tonnquist)

Switzerland - pro/colore
(Ernst Ganz)

Japan - Color Science Association of Japan
(T. Fukuda)

The Netherlands - Nederlandse Vereniging voor Kleuren-
studie
(J. L. Ouweltjes)

If you would like to learn more about AIC please read,
The Early History of the Association Internationale de la
Couleur (AIC) by Gunnar Tonnquist, published in AIC Color
77, Proceedings of the Third Congress, Troy, New York, 10-15
July 1977 (Bristol, England: Adam Hilger, 1978), 13-32.



37 Countries

149 Oral Presentations

259 Poster Presentations

13th AIC CONGRESS JEJU, KOREA

Hosted by Korean Society of Color Studies



The 13th Congress of AIC was held at International Convention Center Jeju, located on the island of Jeju, Korea, from October 16-20, 2017. Under the topic "Being Color with Health," academic presentations regarding color given in various related areas ranging from health, environment, design, art, psychology, education, culture, lighting, and application.

A total of 591 people participated in the academic conference, with 250 delegates, 211 students, 98 exhibitors and invitees, and 32 accompanying persons. The participants came from 37 countries, with the number of attendees from each country as follows: South Korea (346), Japan (70), China (42), UK (26), Taiwan (18), US (12), Nigeria (11), Germany (7), Italy (5), Sweden (4), Thailand (4), Turkey (4), Belgium (3), Brazil (3), France (3), Portugal (3), Saudi Arabia (3), Spain (3), Canada (2), Colombia (2), Iran (2), Russia (2), Switzerland (2), Australia (1), Austria (1), Finland (1), Greece (1), Indonesia (1), Lithuania (1), Malaysia (1), Mexico (1), Netherlands (1), Norway (1), Pakistan (1), Poland (1), South Africa (1), Egypt (1).

A total of 571 abstracts were received from scholars from 43 countries attending this event. 107 reviewers from 29 countries handled the abstracts, approving 149 oral presentations and 259 poster presentations from 37 countries.

On October 16 (Monday), Master Hwang Su-ro from the Institute of Korean Royal Silk Flowers, who is an Important Intangible Cultural Asset in Korea, gave a keynote speech under the title "Royal Silk Flowers in Korea." The attendees also watched a video commemorating the fiftieth anniversary of the AIC. Musician sang traditional Korean songs and Gregorian chants during the opening ceremony, followed by members of the Busan National Gugak Center, who performed royal ceremonial dances, and interactive art designer, who put on a congratulatory performance.

On October 17 (Tuesday), Professor Jianming Song (China Academy of Art, China Fashion and Color Association) gave the keynote lecture under the title "Chinese Traditional Colors."

On Monday October 16, Master Hwang Su-ro from the Institute of Korean Royal Silk Flowers, who is an Important Intangible Cultural Asset in Korea, gave a keynote speech under the title "Royal Silk Flowers in Korea." The attendees also watched a video commemorating the fiftieth anniversary of the AIC. Musicians sang traditional Korean songs and Gregorian chants during the opening ceremony, followed by members of the Busan National Gugak Center, who performed royal ceremonial dances, and interactive art designer, who put on a congratulatory performance.

On Tuesday October 17, Professor Jianming Song (China Academy of Art, China Fashion and Color Association) gave the keynote lecture under the title "Chinese Traditional Colors."

On Wednesday October 18, the participants went on an excursion to Jeju Stone Park featuring a collection of the stone culture unique to Jeju Island. They enjoyed the historical and cultural space where the identity, local characters, and art of Jeju came alive.

On Thursday October 19, A magic show and folk Jeju performances were presented during the banquet.

In addition, "Color & Culture" exhibition was held to celebrate the fiftieth year of the AIC, with 28 AIC member countries displaying items that demonstrate the traditional colors of their native cultures. Furthermore, "Memory Photo Exhibition" was presented to remember the fifty years of AIC history.

We would like to express our appreciation for the participants and lecturers whose presence was a delight, in addition to the sponsors and exhibitors, as well as the staff who worked so diligently for the success of AIC 2017.



"Folk Painting Exhibition" displays the traditional colors & culture of Korea.



Royal ceremonial dance performance by members of the Busan National Gugak Center



Viewing of AIC's 50th anniversary video



Official banquet in Cliff Garden at Hyatt Regency Jeju



Keynote lecture by Master Hwang Su-ro: "Royal Silk Flowers in Korea"



Excursion to Jeju Stone Park



"As two circles form the eye with equal half or rainbow of color and black representing light and darkness, day and night, everyone feast one's eye on International Colour Day"

Logo designed by Hosanna Yau, Hong Kong.

14 countries participated in International Colour Day

ICD 2017 INTERNATIONAL COLOUR DAY

by Maria João Durão

The concept of an international day of colour was proposed to the AIC in 2008 by Professor Dr. Maria João Durão, Portuguese Colour Association Honorary President and was adopted as International Colour Day (ICD) by the AIC Executive Committee in 2009. March 21st was adopted because on this date night and day are approximately equal in length, symbolically relating to the complementary nature of light and darkness, expressed in all human cultures. An international competition for the logo design took place and the winner was announced at the AIC 2012 meeting in Taipei. The meaning of the logo is expressed by designer Hosanna Yau, from Hong Kong, as "two circles form the eye, with an equal half of rainbow colour and black representing light and darkness, day and night, everyone feast one's eye on the International Colour Day".



Maria João Durão
Honorary President, Associação Portuguesa da Cor -
International Colour Day coordinator



AUSTRALIA

To celebrate ICD 2017, the NSW Division of the Colour Society of Australia produced an exhibit at the National Art School, Sydney. The bulk of the works exhibited were produced by NAS students in the "Visual Dictionary of Colour" workshop. The student works were supplemented with some digital illustrations by Dr David Briggs and with a display of historical items from the NAS collection made available by NAS archivist Deborah Beck. There was an introductory talk by Dr Briggs on "Talking about Colour" at the opening on March 21 and the exhibit remained open through to Friday March 24. The Queensland and Western Australian Divisions held colour trivia quiz evenings. Both divisions have found that the colour trivia events are a great way to spread colour knowledge and these have now become annual events. These types of events attract attendees of all ages and, in particular, a younger group of participants.



BELGIUM

The Interdisciplinary Colour Association Belgium was founded in 2016. ICA-Belgium provides a platform to encourage interdisciplinary colour research and disseminates knowledge and studies in order to contribute to the development and challenges in the field of science, art, design and industry in relation to colour. She does this by organizing seminars, lectures, courses, forums, study groups and other. ICA-Belgium seeks close cooperation with existing national and international organizations. At the AIC-Congress 2017 in South-Korea, ICA-Belgium became the 28th member of the AIC. In the young existence of ICA-Belgium the board has organized a Colour Café and two symposia in 2017 and 2018. The COLOUR DAY 2017 symposium was a great success. With around 90 attendees from a wide range of colour disciplines, we had a full house at Designcenter Winkelhaak in Antwerp.

Oral Presentations Symposium:

- A sensorimotor approach to the philosophy of colour – Dr. Erik Myin
- In Living Colour: Studying the Evolution of Human Colour Preferences – Dr. Larissa Mendoza Straffon
- Lighting color quality evaluation based on memory colours of familiar objects – Dr. Kevin Smet
- The path to global colour trends – Filip Roscam



BRAZIL

The Brazilian Colour Association, ProCor celebrated the 2017 International Colour Day with a half day event in a 100 seat capacity, full auditorium, with the participation of colour related professionals, companies and students. The event had the sponsorship of ProCor member companies: LECHLER DO BRASIL, LUKSCOLOR TINTAS, SHERWIN WILLIAMS, SINTEGLAS ACRÍLICOS E COLAS ESPECIAIS, and XRITE PANTONE. Prof. Dr. Paula Csillag, President of ProCor opened the event, talking about the significance of the International Colour Day, followed by words of the Executive Director of SITIVESP (São Paulo Owners of Paints Industries' Union), Mr. Paulo Cesar de Aguiar. The first lecture of the event was about Colour in Japanese Culture, offered by Laura Carvalho, a ProCor member who did an art Project in Japan. After Laura's lecture, there was a panel with brief communications of the Brazilian participation in the AIC event in Chile in 2016, with presentations from: Clice Mazzilli, Milena Quattrer, Patricia Fecci, Paula Csillag, and Pedro Pinho. After the lectures a brunch was served, for fruitful networking!



CANADA

Colour Research Society of Canada CRSC organized the CRSC Spectrum Series: "Three Centuries of Colour". LEED Green Associate/Architectural and Design Representative, Benjamin Moore & Co.

The presentation by Gloria Rinaldi discussed colour use as influenced by societal, political, and technological histories. This was an overarching look at three hundred years of changing colour ideas, approaches and uses in diverse times and places. The seminar highlighted how architectural and interior design colour responds to and informs human life and culture. The lecture was followed by a tour of by our host Interface Carpet's beautiful and sustainable new Toronto showroom at 134 Peter Street, Suite 1602, Toronto, Ontario, Canada.

A meet and greet session with lovely food and drink completed the evening.

<http://www.interface.com/CA/en-CA/about/index>

<http://www.colourresearch.org>



SPAIN

On March we celebrated the International Color Day in Granada. Prof Alain Tremeau (from Université Jean Monnet, France) delivered a lecture entitled "3D and Multispectral Imaging". The event was organized by the Erasmus+ Joint Master Degree "Color in Science and Industry (COSI)" for our local students and the COSI intake 2. In October we organized a seminar entitled "Applications of color science in digital printing" in the framework of the Master in Photonics of the Polytechnic University of Catalonia, University of Barcelona, Autonomous University of Barcelona and Institute of Photonic Sciences in Barcelona. The seminar was given by Joan Uroz, Senior Color Engineer at HP Inc. (Sant Cugat, Barcelona). And two of the members of our committee participated by videoconference in the AIC'17 General Assembly, and were pleased to welcome the new AIC Executive Committee and board members.



CROATIA

On 21st March 2017, at the Technical Museum 'Nikola Tesla' in Zagreb, the Croatian Color Society co-organized with the University of Zagreb, the Faculty of Textile Technology celebrated the International Colour Day (ICD) for the fourth time. The one - day event held a professional - scientific symposium entitled 'From Whited to Coloured', and exhibitions under the same name. The lectures of the scientific and professional symposium, covered a wide spectrum of areas and themes related to color. After the welcoming speech by Prof. Ana Marija Grancaric, and an introductory presentation, the following lectures were held: "White Added Value", "Long in the eyes of physicists; in all aspects, colors and ranks", "Colors in Japanese Architecture", "Perception of Reality in Multimedia Environments", "Numerical Metamorphisms", "Principles of Evaluating Color Combinations", "Education: Color in Architecture - Exterior", "Informal communication of the colors of the symbol (logos) of the University of North in Newly Painted Space", "Creative Use of Light in Photography", "Words and Shapes in Colors", "Colors Reflection in Infrared spectrum," and "Color - a Trademark-Visual Identity". The exhibition included interactive multimedia presentations. The idea was to show concrete examples how wide is the color and intensity of the color as intersection and linkage, not only of different scientific areas but science in general, with art and design.



FINLAND

2017 was another a lively year for Suomen Väriyhdistys SVY ry (the Finnish Colour Association FCA). The Association celebrated International Colour Day, 21st March, by presenting the Iris Award 2017 to Inka Kivalo for her work as a textile artist. Ms Kivalo weaves tapestries, makes textile sculptures with animal and human forms and studies the dynamics of stripe patterns in her unique woollen scarfs. An intimate and personal relationship to colour defines Inka Kivalo's entire oeuvre.



KOREA

To celebrate the International Color Day (ICD) on March 24, KSCS hosted an ICD anniversary seminar and general meeting at Soongsil University on the theme "Technology and Analog Emotional Color" with the aim to consider the communication and emotional skills required to live in the fast changing age of technology through the lens of color. To celebrate this event, KSCS developed a smartphone application named "Technology and Analog Colors of the Everyday", and KSCS members were able to use this application to communicate each other's colors, analog and digital sensibilities. Jongmin Yoon, the Head of Geum Gang SP Architecture Institute, presented a lecture on "Space Technology and Color", and Yeongjin Lee, the CEO of Style Tech, gave a lecture on "Smart Apparel and Emotional Color".



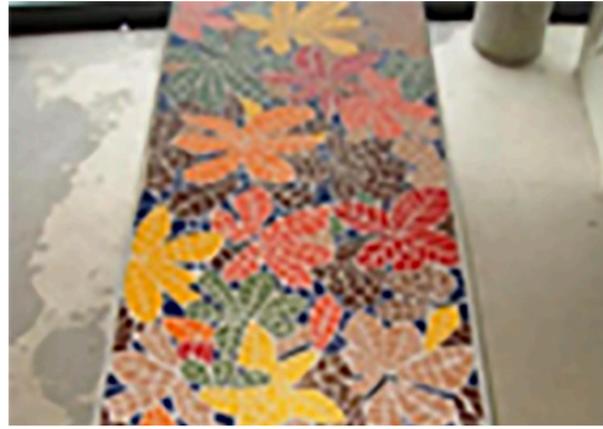
FRANCE

A colorful meeting was organized by the Centre Français de la Couleur in Bibliothèque Nationale de France in Paris (BnF). The title « La couleur dans l'art, la science et la technologie : Qu'appelle-t-on harmonie des couleurs? » permitted to gather interested members, but not exclusively of the Centre Français de la Couleur. Each speaker had to explain how the notion of «Colour harmony» is presented or evoked within the framework of a particular and recent book. 45 participants came to discuss with 7 authors members of the Centre Français de la Couleur of more or less recently published books. This event was the first the French Colour Group organized for the International Colour Day. A lot of subjects related to colour and appearance were successively presented in a very short time to offer the public a general view of the chosen book. A general presentation was made as introduction by our guest in BnF describing the characteristics of the famous book written by M-E. Chevreul about the simultaneous contrast law. The discussions ran around a set of definitions of what colour harmony could be today. A specific volume of *Primaires* (the Journal of our colour society) is under preparation, gathering all the presentations and a little bit more.



GREAT BRITAIN

The Colour Group (GB) celebrated the ICD at an exceptionally diverse evening meeting that began with a reception at which guests were able to network and exchange ideas. The meeting was held at the Great Hall of the City, University of London and was attended by about 90 people. The meeting was opened with a talk on the significance of the ICD and how it symbolically unites people in the world who are interested in all aspects of the subject of colour. The talk was given by Andrew Hanson from the National Physical Laboratory, Teddington. It was followed by five more talks with topics ranging from the studies of Josef Albers and their application in transparency and film colour (Philip O'Reilly - artist and maker), to an overview and analysis of the Indian words for colour (Valérie Bonnardel - Reader in Experimental Psychology, University of Winchester) to the use of colour in painting (Estelle Thompson - Head of Graduate Painting and Jo Volley - Deputy Director, both from the Slade School of Fine Art, University College of London), to discussion on the use of Ektachrome slide process by several North American photographers (Roger Woodiwiss - artist), to revitalising the urban environment using colour (Cath Carter - founder of Colour Your City). In accordance with the Colour Group (GB)'s tradition of encouraging the new generations of colour workers, the meeting concluded with the PechaKucha style presentation by seven visual communication students of the Royal College of Art that explored the question What is colour. The talks and presentations sparked many lively discussions which carried on long after the formal ending of the meeting, extending yet further the celebration of the enthusiasm for colour.



THE NETHERLANDS

On 21 March 'Stichting Kleurenvisie' the Dutch foundation for Colour, celebrated the International Colour Day in the building of Circl, a circular hotspot in Amsterdam. New members of the board were colour-pitching and each of them had invited an expert for a lecture about colour and/or circularity. All involved were pleased to see each other again in the well-attended meeting.

Ir. Pi de Bruijn, Architect, Founding partner of Architekten Cie, Amsterdam chairman and architect of Circl welcomed the audience together with Kim van Savooyen, interior- colour designer and executive director of the foundation.

Speakers of the pitches and lectures:

- Pitch: CircularStreetColours by ir. Clairette Gitz, architect/owner of Gitzarchitecten guest-researcher (PhD) at the University of Delft and also the moderator of the day
- Lecture: Thinking colour, construct identity by Dr. ir. Susanne Komossa Associate Professor of Architecture Chair of Architectural
- Pitch: Color &Me by Sandy Spaan: CMFG lead Horizontal programs HealthTech Trend lab | Material Innovation Philips Design
- Lecture: Colour & recycling within Philips, Marc Olof Dirksen, Project Leader Technology and Function Creation at Philips
- Pitch: Colour in the world by Dr. Marc Witbreuk, CFO/COO Scholz Benelux BV
- Lecture: In Concreto Colorato! By by Giulio C.E.Tomaello Managing Director/Owner at Tomaello - Architectonic Concrete & Terrazzo



NORWAY

Forum Farge, the Norwegian Colour Association, celebrated ICD in Oslo with a series of colour presentations, practice- and research based, hosted by The School of Architecture. This annual conference presented topics on design and architecture with a focus on materiality. The event was the second in a series of three with the same headline, Surfing Colour, which indicates a multidisciplinary approach within the colour field. The Key Note speaker was the icon within colour design, Jean Philippe Lenclos, from France. He talked about his lifelong engagement in colour (Atelier 3D Couleur), <http://www.a3dc.paris>, and his books on Geography of Colour. Other speakers were Svein Skipnes, architect from Trondheim and Saara Pyykkö from Aalto University (Fi) (PHD) who both presented their methods and projects for colour design in Architecture. Lisbeth Larsen, Colour director of Jotun AS paint industry, introduced international colour trends. Further: Sarah Leszinski showed her masterproject on interior colours for "Hurtigruten", Norwegian Tourist ships. Kiyoshi Yamamoto, artist, focused on innovative textiles and Bent Erik Myrvoll, artist and research fellow in mural techniques, showed several impressive fresco projects and his investigations into lime work. All were excellent, and it was exceptional to listen to Lenclos. About 100 people attended. We also arranged a lecture for Lenclos at Bergen University connected to this.



PORTUGAL

The Portuguese Colour Association celebrated the International Colour Day with the Seminar 'Heaven and Sea'. The event was preceded by an explanation of the ICD and its significance in international terms. For the Seminar three speakers were invited to explore connections between the colours of the sky and those of the sea, using image technologies. Presentations were made by two Portuguese photographers: Luís Quinta showed his photographs of underwater world and some effects that light has at great depths, and Margarida Dias, showed her photographs of atmospheric effects on colour on landscapes, as well as colour manipulations. João Pernão presented research projects on sky colours he had carried out with students of 'Light and Colour'-a curriculum unit he coordinates and teaches at the Lisbon School of Architecture, Lisbon University. Furthermore, he also presented and explained a variety of cyanometers that his students had created as part of the same project. The event was attended by scholars interested in the phenomena of colour and light in general. The topic on the 'sky and sea' colours captured the imagination of a considerable number of students in Architecture and Design of the Lisbon School of Architecture and ended with a discussion session.



UNITED STATES

The 2017 ISCC International Colour Day celebration was a webinar given by Dr. Mark Fairchild. The title of Mark's talk was "From Photon to Brain: The Perception of Color". This talk was fascinating as it traced the fate of a photon from the surface of an object to the point a color appearance is experienced in the brain. The overriding question was whether, given the total rate of photon emission by the Sun, we have enough left at the end for seeing a blade of grass, even in twilight. After a "back of the napkin" calculation and some information about L, M and S cone light absorption, the answer to the question was "yes". The photons are gone so what is next? As the book, From Neuron to Brain by John G. Nicholls et al. (5th Ed., Oxford U. Press, 2011) shows, next comes rod and cone phototransduction. It is important to mention that it is the metabolic energy stored in the unbleached photopigment, not the energy in the incident light, that is the primary source of energy that turns into heat (and perception). Then Mark discussed the spatial organization of visual receptive fields (excitatory center, inhibitory surround, or the reverse), and then transitioned to a complex functional map of the retina and lateral geniculate nucleus. Mark demonstrated certain visual effects that show the result of the complex neural processing. Mark ended by showing a picture of a cliff climber on a brick wall to illustrate metaphorically that our understanding is underway, but not complete yet.



// ARGENTINA //

GRUPO ARGENTINO DEL COLOR

ACG - Argentine Color Group

In the year 2017, the Argentine Color Group has realized events of scientific divulgation and of formation, among which are the following events:

COLOR IN THE ARTS MEETING

National Meeting of Color in the Arts 2017: was held on August 11 in the city of Quilmes, province of Buenos Aires, Argentina. It was organized by the GAC and the Municipal School of Fine Arts "Carlos Morel" and the articulation between both institutions was in charge of Osvaldo Krasnanski (<http://colorenlasartes.blogspot.com>). The event featured the conferences "Cesia in art" by José Luis Caivano and "Importance of laboratory practices and didactic dispositives for learning color and cesia in classrooms and art workshops" by María Paula Giglio, the panel of discussion "Rock paintings of Oyola, Catamarca: reds, whites and blacks on granite. Advances of the investigation" integrated by Lucas Gheco, Fernando Marte and Omar Burgos, the oral presentations of Salvador Melita, Leonard Echagüe and Dardo Bardier, among other authors and the presentations in posters in an Itinerant

Exhibition. At the same time, two workshops: Cesia in art (Quilmes), by José Luis Caivano, Hugo Salinas and María Paula Giglio, and Laboratory practices and didactic devices about color as significant in art, by Giglio.

NATIONAL MEETING OF COLOR

was held in in Mar del Plata on November 10 and 11 in the city of Mar del Plata, prov. from Buenos Aires, Argentina, Oorganized by the GAC and the Faculty of Architecture, Urbanism and Design of the National University of Mar del Plata, through the Extension Group from the Art (<http://colormdp.blogspot.com.ar>).

There were oral presentations, posters, two lectures by Salvador Melita and María Paula Giglio, and three workshops: 1) "Color in the audiovisual production" by Salvador Melita; 2) "Laboratory practices and didactic devices about color and cesia: An approach from morphology and appearance" by Giglio; and 3) "Color and three-dimensional matter. Morphology and syntax. An experience based

on the Ostwald system (free version)" by Giglio, with the collaboration of Carolina Díaz Azorín, Susana Arrachea, Gabriela Ramírez, María Marcela Vicente, Nadia Sirczman and Jeremías Folgado.

In the year 2017, there was also preparations for future events:

- ARGENCOLOR 2018: Santa Fe, province of Santa Fe, Argentina. Organized together with the Faculty of Architecture, Design and

Urban Planning of the National University of the Litoral, from the Research Secretariat and the Morphological Studies Center (<https://argencolor2018.wordpress.com/>). Contact: argencolor2018@gmail.com. Coordinator: Carlos Prause.

- AIC 2019: Autonomous City of Buenos Aires, Argentina. Organized with the International Color Association (<http://aic2019.org>).



From left to right: Rotating discs for cesia and color by José Luis Caivano and Hugo Salinas. Osvaldo Krasnanski, María Eugenia Bravo, Fernando Marte, Lucas Gheco and Omar Burgos



Darío Suárez, Carlos Zoppi, Salvador Melita, María Marta Mariconde, María Paula Giglio, Anahí López and members of the Organizing Committee, among others.



Left: Marina Porrúa and Salvador Melita. Right: María Paula Giglio



// AUSTRALIA //

Colour Society of Australia CSA

Our social media postings on Facebook and Instagram continue to attract visitors to our national CSA website and blog resulting in new members and increased attendance at our Divisional meetings across Australia, which have included site visits to paint and fabric showrooms, art galleries, and botanical gardens, presentations and workshops, certainly showing the huge variety of ways that colour surrounds us all in our professional and private lives.

*Sydney all lit up.*

Divisions hosted informative and lively seminars and workshops and we continue to work closely with educational facilities with an ongoing student awards program.

Long time CSA member Babette Hayes OAM, interior designer, journalist and author, was inducted into the Hall of Fame of the Design Institute of Australia, a befitting honour for one who has had a huge influence on design and style magazines, interior decoration and styling in this country from the late 1960s to today. <http://babettehayes.com.au> We continued to celebrate our 30th anniversary with events and dinners meeting with members old and new across each of our divisions, and a special celebratory dinner was held in Sydney with several of our founding members present.

Our long time CSA member Nick Harkness has completed his tenure as AIC President and we are grateful for the support and wisdom he has shown in this role.

*Marion Hall Best - Textile designs*

WESTERN AUSTRALIAN DIVISION

Hosted one of their very popular bush walks both identifying colour plates from nature and enjoying the wildflower gardens; and the following presentations from a broad spectrum of professionals involved in the world of colour such as a graphic artist, colour management and technology.

SOUTHERN DIVISION

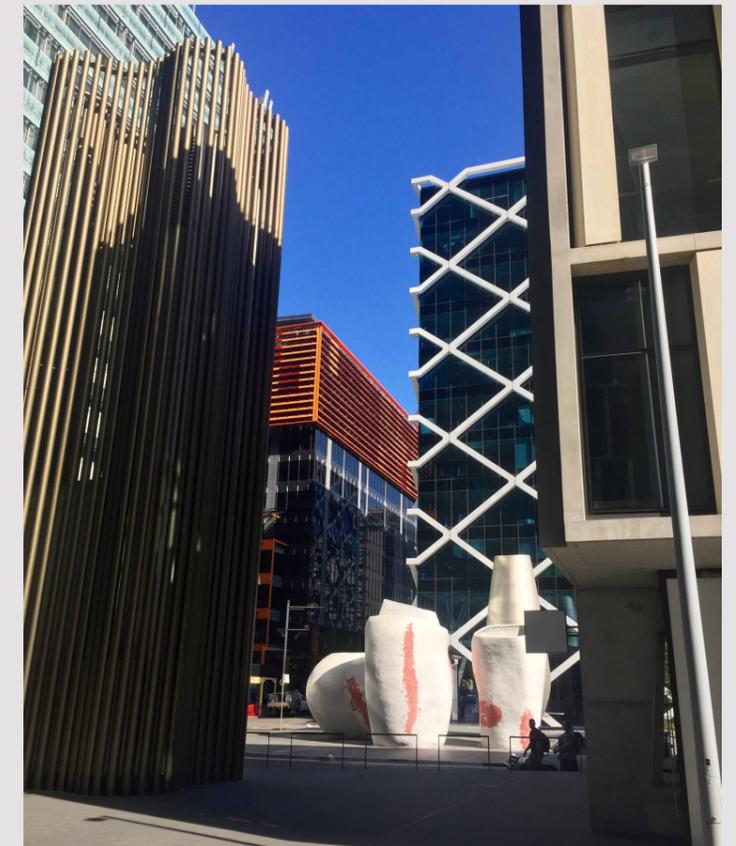
Victoria, South Australia and Tasmania, visited the major botanical gardens which focus predominantly on native flora; visited art galleries to view both local and international works, and the White Nights lighting show in the city. We also visited the Marimekko retrospective exhibition showing textiles and garments from the 1950s, 60s and 70s. This division is currently working hard on planning for the CSA conference 'Perception & Colour' which will take place in Melbourne in September 2018

NEW SOUTH WALES DIVISION

Has the largest membership group, hosted several well attended meetings. Topics ranged from the colour and design of Turkish tiles; the Colours of New England with spectacular images; a light installation artist involved in Vivid Sydney – a festival of lights and colour around Sydney Harbour. A webinar organised with the internationally known paintings conservator titled 'Colour Changes in Art: A Closer Look at Pigments and Dyestuffs from an Analytical and Historical Perspective' attracted online registrations from around Australia and across the world. A visit to the exhibition of Marion Hall Best, one of Australia's earliest and most influential interior designers was another successful event.

QUEENSLAND DIVISION

Hosted a very successful meeting at the State Planetarium on Mt Coot-ha where the group observed the colours of the universe. On site meetings with paint and textile suppliers where new products and ranges were demonstrated proved popular, and artists gave insights into their work.

*Sydney buildings ready for the Light Festival*



// BELGIUM //

Interdisciplinary Colour Association Belgium ICA

The Interdisciplinary Colour Association Belgium was founded in 2016. ICA-Belgium provides a platform to encourage interdisciplinary colour research and disseminates knowledge and studies in order to contribute to the development and challenges in the field of science, art, design and industry in relation to colour. She does this by organizing seminars, lectures, courses, forums, study groups and other. ICA-Belgium also seeks close cooperation with existing national and international organizations. At the AIC Congress in JeJu Island, South-Korea, ICA-Belgium became the 28th member of the AIC. In the young existence of ICA-Belgium the board has organized two symposia, 2017 and 2018, and a Colour Café in November 21, 2017.

The Interdisciplinary Colour Day Symposium on 21st of March 2017 was a great success. With a total of 90 attendees from a wide range of colour disciplines, we had a full house at Design Center Winkelhaak in Antwerp.

ORAL PRESENTATIONS

Symposium, 21 March 2017

- A sensorimotor approach to the philosophy of colour – Dr. Erik Myin
- In Living Colour: Studying the Evolution of Human Colour Preferences – Dr. Larissa Mendoza Straffon
- Lighting color quality evaluation based on memory colours of familiar objects – Dr. Kevin Smet
- The path to global colour trends – Filip Roscam.



Symposium, 21 March 2017

COLOUR CAFE

On ICA-Belgium's first Colour Cafe in November 2017, Jeannette Hanenburg reported on the AIC congress 2017, held in October at Jeju, South Korea, with focus on latest developments and research in colour & health. During a fun networking event she gave an overview of the speakers, exhibitions, workshops and other amazingly interesting information hot off the press. We ended the colour cafe with the fun card game Colournaming.

Because of the success of ICA-Belgium's first symposium in 2017 the second symposium, hosted by ENSAV La Cambre in Brussels on 21th of March, was extended from a half to a whole day with oral presentations and, for the first time, poster presentations. The symposium brought together

more than 100 attendees from a wide range of colour disciplines. Renowned national and international speakers shared their latest research and expertise on colour within the beautiful surroundings of the former Cistercian Abbey of La Cambre

With growing membership, ICA-Belgium is facing many exciting events in the coming years. With an artists summer talk, two Colour Cafés, a reading and a field trip we close 2018 in beauty. Embracing 2019 with ICA-Belgium's third symposium, field trips, and workshops, we look forward to the consolidation of ICA-Belgium as a full-fledged members platform for and by colour professionals from a wide range of disciplines.



First Colour Cafe was held in November 2017



// BRAZIL //

Associação ProCor do Brasil

PROCOR - Colour Association of Brazil

Associação ProCor do Brasil had a very intense and productive year in 2017. ProCor had an increase in number of members, not bad for an economic recession year in the country. Relevant companies SINTEGLAS and RENNER SAYERLACK became regular members, plus seven new individual members.

THE BRAZILIAN COLOUR DAY

Brazil celebrates also another day of colour, the Brazilian Colour Day, established on the Southern Hemisphere's Spring Equinox, on September 21st. This year, the celebration was held at ABRAFATI, Associação Brasileira dos Fabricantes de Tintas. ProCor offered a lecture about ProCor and about Colour Trends for the Paints Industry, for an audience of about 30 people.



2017 International Colour Day event

ABIHPEC CONFERENCE

On October, ProCor offered a lecture for the Cosmetics Industry, at ABIHPEC (Associação Brasileira da Indústria de Higiene Pessoal, Perfumaria e Cosméticos). The lecture was about ProCor and Colour Trends for the Cosmetics Industry for an audience of about 30 people.

All of ProCor events can be seen at <http://www.procor.org.br/category/noticias/>.



ProCor participated in July 2017, in the Serigrafia Sign Future Textil, a Fair and Forum of lectures related to the printing industry, with the participation of 30-thousand visitors. ProCor offered a lecture about ProCor and about Colour Communication. There were several interested people in the auditorium filled with approximately 100 people.

PROCOR IN JEJU, KOREA

ProCor participated in the 2017 AIC Meeting in Jeju, Korea. Prof. Dr. Robert Hirschler and Prof. Dr. Pablo Manye from ProCor were there. They both presented papers and Prof. Dr. Pablo Manye also participated in the Colours in Cultures Exhibition, with his paintings (bottom right). A retrospective mural on the history of the AIC was shown at Jeju, and Prof. Dr. Robert Hirschler was featured there, being one of the first AIC participants, in 1977.



Prof. Dr. Pablo Manye (left) and Prof. Dr. Robert Hirschler (right)



Prof. Dr. Pablo Manye



// CANADA //

Colour Research Society of Canada CRSC

REVIEW

In 2017 the Colour Research Society of Canada engaged in a future planning process. The CRSC Board Members worked with the Strategic Foresight and Innovation Graduate Program at OCAD University to develop a vision for the future, and continued to build membership, host colour events and to promote interest in colour studies across different disciplines and sectors.

January: Our Annual General Meeting, followed by a social event, Colour and Cocktails, held at Artbarn, Toronto – a hands-on experiential colour study workshop with professors/artists/colour educators David Griffin, PhD and Doreen Balabanoff, PhD.

April: member Gwen Tooth's exhibition, Indian Ocean Variations, took place at Propeller Gallery.

May: our annual Colour and Culture events, organized by VP Vivian Lo. Also in May, two members gave presentations at the conference Anime North, in Toronto. Also, Board Member Robin Kingsburgh's exhibition Resonance took place at Art Square Cafe & Gallery, Toronto.

August 16: Members took part in The Spirit of Indigo, (Group show), Propeller Gallery, Toronto.

September: President Doreen Balabanoff celebrated her PhD Convocation at University College Dublin, Ireland. Her dissertation is entitled: Light and Embodied Experience in the Reimagined Birth Environment.

November: Propeller Gallery, Toronto hosted an exhibition by member Janet Read: Embers of the Sky. CRSC had a booth at IIDEX–The Building Show, at the Metro Toronto Convention Centre. Among the selected speakers, CRSC President Doreen Balabanoff gave a lecture entitled Colour and Light in Reimagined Healthcare Environments. December the CRSC and Right Angle collaborated with Sun Glow Products of Canada (Toronto) to host an evening of presentation and discussion entitled Built Environment Aesthetics: Experiential Art and Architecture. David Craddock, Director, Built Environment Open Forum was the moderator. Gordon Grice, Right Angle Journal Editor, and architectural glass artist David Pearl (Toronto and Swansea, Wales) were the featured guest speakers. Pearl's work for the Toronto Transit Commission, at the new 407 Subway Station, uses brilliant colour and natural light to create an enlivening public space.

Members of the Executive Committee of the CRSC (2017): Doreen Balabanoff, President; Vivian Lo, Vice-President; Judith Tinkl, Secretary; Sharyn Adler Gitalis, Treasurer; Brian Funt, Candida Girling, Robin Kingsburgh and Joy Lim, Members-at-Large.



CRSC VP Vivian Lo and Secretary Judith Tinkl at IIDEX Toronto.

// FINLAND //

The Finnish Colour Association FCA

REVIEW

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EVENING SYMPOSIUM

The Association continued its tradition of holding an evening-long colour symposium in mid-November, a time of year when the light diminishes and the colours fade as winter sets in. The "Colour

Evening" took place at the Metropolia University of Applied Arts and Sciences in Helsinki on 14th November. The theme of the evening was Dimensions of Colour from Branding to Uniforms. PhD Maria Olkkonen gave a talk entitled 'Blue or Green? How memory and learning influence colour perception'. Creative Director and Co-founder, Anssi Kähärä from the design company Werklig talked about the new logo and brand identity for the City of Helsinki, (more at <https://www.werklig.com/works/city-of-helsinki/>). D.Soc.Sc. Juha Vuori presented a talk about the evolution of the colours of battle uniforms. About 30 people took part in the symposium, which generated a lively discussion.

INTERNATIONAL COLOUR DAY

Saara Pyykkö, secretary (and president 2018–) of the Finnish Colour Association, celebrated International Colour Day in Norway by taking part in Forum Farge's, the Norwegian colour association's seminar 'Surfing Colour' in the National Academy of the Arts in Oslo.

AIC 2017 CONGRESS

Member of the FCA, architect Kati Winterhalter took part as the sole Finnish representative in the AIC's Congress in Jeju during 16-20 October 2017. The Title of Kati's presentation was "Why is History-Related Colour Design so Complicated? The Factors Governing Colour Experience in an Historical Cityscape".



Inka Kivalo (centre), recipient of the Iris Award 2017, with FCA's president Sini Vihma (left) and vice-president Harald Arnkil (right)



// CHILE //

Asociación Chilena del Color CCA - Chilean Color Association

COLOR IN SANTIAGO'S TILES

The Baldosas de Santiago (Santiago Tiles) Project (Fondart), by researchers Bernardita Brancoli and Joyce Berstein from Universidad del Desarrollo, was completed in April 2017, with an exhibition at the Palacio de la Moneda Cultural Center, a tile manufacturing and polishing workshop, and a book release. This research addressed the recovery of designs, use patterns and colors in hydraulic tile floors found in old quarters of Santiago de Chile. The aim was to value the urban ornamental and heritage design of the Chilean capital city by inquiring about its history and acknowledging its aesthetic and functional values. The book can be downloaded here: <http://diseno.udd.cl/files/2017/03/DESCARGA-Baldosas-de-Santiago.pdf>

INNOVATION THROUGH COLOR: TECHNOLOGY AND MANAGEMENT

A Seminar was organized by Lina Cárdenas in October at the Pontificia Universidad Católica de Chile with international guests Renzo Shamey and Ann Laidlaw, who offered talks about the need to implement digital management protocols, among other related issues. The Seminar focused on providing tools regarding color technology management and basic principles, the effect of light and the development of palettes for those who make day-to-day decisions on the use of color in industrial products. Four workshops took place during the Seminar: Visual Assessment of Color (Renzo Shamey), Instrumental Assessment of Color (Ann Laidlaw), Illumination (Douglas Leonard) and Color Palette Development (Paz Cox).

INVITED LECTURER AT IUAV, VENICE ITALY

Ingrid Calvo Ivanovic was invited for two semesters to be a Color Lecturer at the Istituto Universitario

di Architettura di Venezia (IUAV), in Italy, to teach the course 'Color in Urban Life: Observation and Practice' for 120 undergraduate and postgraduate students of the Architecture and Design Programme. The course had a phenomenological approach to color, based on the direct experience of the students with the phenomena in the environment, their intuition and remarks of what is observed. Some of the color sessions included contents about 'Color Theory', 'Color Perception', 'Color Language and Meaning' and 'Color Application in Relation to the City', among others, and the realization of a color lecture at the museum Galleria Dell'Accademia di Venezia.

STUDY ON COLOR OF AN OLD QUARTER IN VALDIVIA

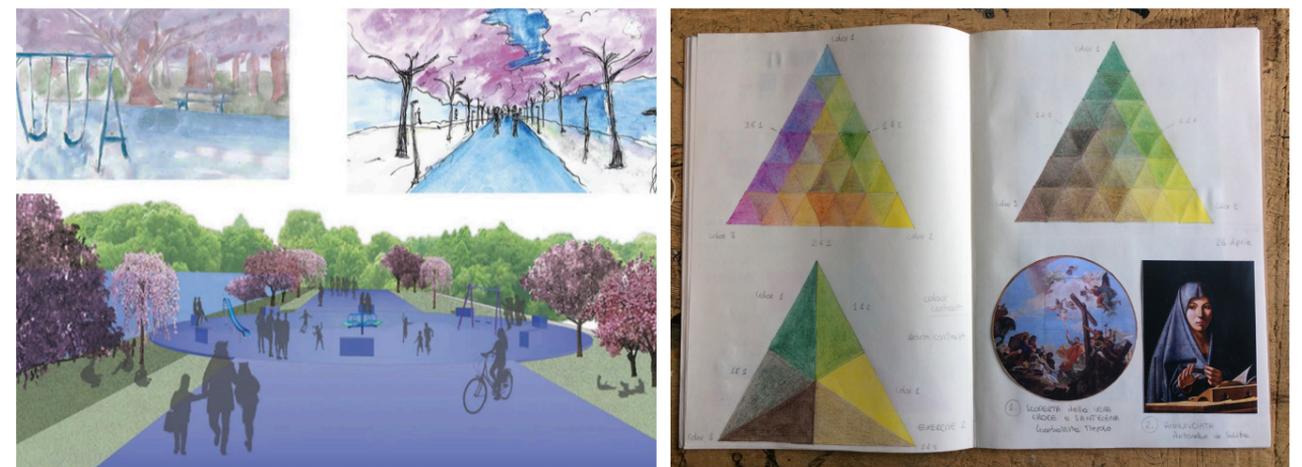
Eighty color course students of the Architecture School at Universidad Austral de Chile, led by Professor Elisa Cordero, conducted a color study and proposal in an old quarter in the city of Valdivia. The quarter was divided into 20 areas, each of which was studied by groups of four to six students. The task began with a chromatic study through sketches, interviews with neighbors, elevations of facades, and the quarter's history. Each group made a diagnostic and finally, a proposal to improve the area using color and vegetal materials.

COLOR IN THE NORTH OF CHILE

The City of Arica entrusted Universidad Austral de Chile with a project to collect ideas in order to improve three areas of the city's historic core. This project was conducted by the 5th Year Workshop of the School of Architecture, made up by 30 students. A color study was performed, in charge of Professor Elisa Cordero, based on spatial, social and historical aspects, which was used as input for new urban designs.



The book of the Santiago Tiles



Student's project at the Old Quarter in Valdivia

Book of color sessions with students at the IUAV



// CHINA //

中国颜色学会

CAC - Color Association of China

The Color Association of China is one of the committees of the Chinese Optical Society (COS), specialized for vision and color. As the National Color Association it joined AIC in 1986, together with the Division 1 (vision and color) of China Illuminating Engineering Society (CIES). Its objectives are to encourage the research of color science and its applications in different aspects, through seminars to exchange information and new technology about color.

COLOR SCIENCE & IMAGE TECHNOLOGY

On 10-14 August 2017 the biennial symposium on the topic of "Color Science and Imaging Technology" was held in Jilin University, Changchun city, along with the annual conference of the Chinese Optical Society (COS). This symposium involved two sub-topics, i.e., Light Source Color & LED Lighting and Material Color & Color Vision. The presented papers at the

sub-topic of Light Source Color & LED Lighting were related to color rendering index, IES color fidelity, spectral optimization of tunable LED white source, LED irradiation damage of traditional Chinese painting pigments, color measurement via multispectral imaging technology by LED active illumination, color quality evaluation of light sources, LED daylight simulator for vision evaluation, image quality assessment of HDR displays, comfort of indoor LED lighting, etc. Those at the sub-topic of Material Color & Color Vision included the keywords of visual comfort of human eyes for VR devices, color estimation based on brain waves, color constancy algorithm based on weighted color statistics, stealth effect of ocean ships based on spectral reflectance feature, color calibration of aerospace camera, image color reproduction impacted by object color metamerism, color variations with geometries for metallic coatings, colorimetric characteristics of the 'Great Wall gray', and so on.



The 2017 symposium of "Color Science and Imaging Technology" by the Color Association of China, along with the annual conference of Chinese Optical Society, on 10-14 August 2017 in Jilin University Changchun

PATCHWORK & HANDICRAFT EXHIBITION

The 2017 First China Shenzhen International Patchwork and Handicraft Art Exhibition was successfully held in Shenzhen Gallery on 10-13 May 2017, during which the 13th China (Shenzhen) International Cultural Industry Fair was run. This colorful art exhibition, undertaken by the Patchwork Color and Art Study Committee of China Fashion and Color Association, attracted a large audience to enjoy the excellent works and even to practice or show their handicraft accomplishments.



The 2017 First China Shenzhen International Patchwork and Handicraft Art Exhibition held on 10-13 May 2017 in Shenzhen

CROSS-BORDER INTERGRATION AND FASHION CREATION FORUM

During the 3rd National Week of Mass Entrepreneurship and Innovation opened on 15 September 2017 in Beijing, the 2017 Forum of Cross-Border Integration and Fashion Creations was conducted. The attendees of this forum came from different industries and fields like textile and garment, properties and construction, automobile, decorative design, cultural and entertainment, colleges and universities, educational counseling, planning and personal studio, etc.



The 2017 Forum of Cross-Border Integration and Fashion Creations in September in Beijing

NO.122 NEODOXY ACADEMIC SHARON

Sponsored by China Association for Science and Technology, the No. 122 Neodoxy Academic Sharon was successfully held on 12-13 October 2017 in Shanghai, with the theme of Injecting More Colors of Love into Pension Industry. The participants, based on individual work domains, presented their active thoughts to improve the pension industry from different perspectives including color. It is expected that, by means of color tools, novel ideas and approaches would be put forward and so new achievements could be born for the important social proposition of pension.



The No. 122 Neodoxy Academic Sharon, sponsored by China Association for Science and Technology, held on 12-13 October 2017 in Shanghai



// CROATIA //

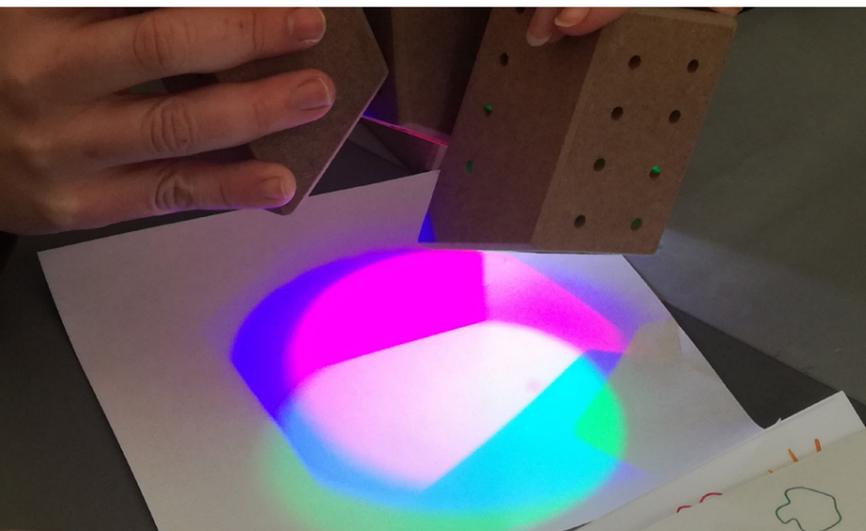
Hrvatska udruga za boje

CCS - Croatian Colour Society

REVIEW

The most significant activity of the Croatian Colour Society in 2017 is certainly the celebration of the International Colour Day 2017. Carefully prepared program with its interdisciplinary structure emphasized the role of colour in everyday life, science, art and design. As part of the one - day event, the professional - scientific symposium "Color in Science and Art" was held and also a spectrum of exhibitions and a workshop for children and adults under the name "From white to colored".

With this program the Croatian Colour Society succeeded to bring closer the concept of color and the importance of color in different aspects from scientific through artistic and aesthetic to the everyday, to a wide range of visitors of different professional orientations and different ages. The event was also supported by the Ministry of Science and Education of the Republic of Croatia, and contributed not only to the spreading the awareness and understanding of color



as a scientific and artistic area but already achieved STEAM approach to early scientific, technical and technological education and animation of preschool and school aged children.

COLORINA WORKSHOPS

The Croatian Colour Society also regularly organizes an educational, interactive STEAM workshops called "COLORINA". The idea and workshop authorship is signed by prof. Ana Sutlović, University of Zagreb Faculty of Textile Technology, and also members of the Society Martinia Ira Glogar, Iva Matijevec, Ivana Ilicic, Valerija Ljubic and Dora Kos actively participate in the organization and performance of workshops. STEAM workshops named COLORINA have been organised and performed since 2012, in the frame of skills development projects of University of Zagreb Faculty of Textile Technology, Department of Textile Chemistry and Ecology. Since 2017, the COLORINA workshops is being conducted as the part of the official Croatian Colour Society activities.

In the year 2017, five COLORINA workshops were held. The aim of these workshops is to promote and increase the competitiveness in the field of textile technology, textile printing and textile dyeing and the development of awareness of the beauty of engineering and its importance for the development of society. The workshops were held in cooperation with the Technical Museum Nikola Tesla, the Ethnographic Museum in Zagreb and the National Museum in Zadar.

From the individual activities of the Croatian Colour Society members, we emphasize the active participation of Prof. Emeritus Ana Marija Grancaric on International Scientific Projects Knowledge Platform for Transferring Research and Innovation in



Footwear Manufacturing (K4F) and COST ACTION CA16227 - Investigation and Mathematical Analysis of Avant-Garde Disease Control via Mosquito Nano-Tech-Repellents, as Croatian Project Leader. During the 2017, among other accomplishments, she published two original scientific papers in journals Progress in Organic Coatings and Journal of Industrial Textiles.

Also, members of the Society Martinia Ira Glogar and Ana Sutlović, Associate Professors at University of Zagreb Faculty of Textile Technology in co-authorship with Iva Matijevec, Assistant at University of Zagreb Faculty of Textile Technology and Vesna Hajsan Dolinar participated with scientific papers and presentations at the International Conference of Education, Research and Innovation (ICERI 2017). Maja Strgar Kurečić, Associate Professor at the University of Zagreb Faculty of Graphic Arts and also member of the Croatian Colour Society, participated at three International Salons of Photography; 123rd Toronto International Salon of Photography "Toronto, Canad; 72nd Hong Kong International Salon of Photography and "PictorialHub 2017" International competition of art photography in Egypt. She also published a book "The Basics of Digital Photography".

A member of the Society, Koraljka Kovac Dugandzic, an academic painter and professor of textile design at the University of Zagreb, Faculty of Textile Technology, accomplishes numerous projects of cooperation of textile design students with the textile industry.

Costume Designer and Associate Professor of the University of Zagreb, Faculty of Textile Technology, member of the Society Ivana Bakal actively participates in 2017 in two international projects Innovative Costume of the 21st Century The Next Generation and Costume since 1990-2015 as a Custodian of the National Selection Exhibition. She signs significant costume designs for the Croatian National Theater and other Croatian theaters.

The painter and the engineer of the black metallurgy, Krunoslava Kuljis, has realized three independent exhibitions of watercolors on silk and a fashion show of clothes designed from hand-painted silk.

Designer Iva Magdić, member of the Society and also founder and owner of fashion studio Iva Art & Design Atelier also participated with solo fashion shows at Autumn Fashion Festival fashion and Design Week Zagreb, Croatia.

The Croatian Colour Society, although founded only 5 years ago, is rapidly developing and becoming a respected and recognizable platform for cooperation, knowledge and information exchange and encouragement of work and research within scientific, professional and artistic areas that imply color as one of the key aspects of the activity.





// FRANCE //

Center Francais de la Couleur CFC - French Colour Center

REVIEW

That summer Lionel Soulié and Michel Cler passed away. They were CFC members and friends for a long time. Lionel, then a young architect, participated in and co-organized the « Mondial couleur » meeting held in Monte Carlo in 1985; he was member of the Executive Committee of CFC. Michel was very involved also as architect in color effects at the building and urban level playing with natural light. He founded with his wife France Lavergne Ad Chroma (www.adchroma.com), a society whose objectives are very close to those of CFC. Renown members of AIC or CFC as Verena M. Schindler and Melanie Yonge are involved in Ad Chroma.

January 16th. First meeting with a movie presentation on the restoration and original polychromy of the Hennebique House in Sceaux (close to Paris).

January 19th. Invited talk by Marie-Pierre Servantie (académie de la couleur) on « Visual chromatic characterization of villages in the Vézère valley » at Art Centre in Issy-les-Moulineaux (close to Paris).

January 24th. Invited talk to the Caisse des Dépôts Research institute about crossed technological and social innovations, in Colour environmental stakes, Barbara Blin-Barrois, Paris, France.

March 13th-17th. ATHENS week at Mines-Paristech and ENSAD (« arts déco ») schools dedicated to colour with Yves Charnay and Patrick Callet.

March 21st. International Colour Day - a colorful meeting was organized in Bibliothèque nationale de France in Paris (BnF). For additoinal details refer to the ICD section.

March 29th. Invited talk given by Patrick Callet on « Structural colours and simulation » organized by students of École du Louvre (Mémoire vive society) at the university Pierre and Marie Curie, Paris.

April 19th. Invited seminar in the master on multimedia about polychromy and video, Patrick Callet, Paris-Diderot university.

May 6th. Exhibition at « La Piscine » in Roubaix where France Lavergne-Cler and Michel Cler presented their pioneer works in colour design in the framework of the Centre Pompidou 40th anniversary and special events.

May 24th. Scientific public meeting in Chevreur's office at MNHN « La couleur. De la 'matière première' aux usages culturels en Afrique » organized by CFC and MNHN.

September 4th-5th. Oral introduction and closing talks welcoming for AIC 2020. Oral presentations by Hélène de Clermont-Gallerande, Larissa Noury, Anne Varichon and Barbara Blin-Barrois at the XIIIth Conferenza del colore, Napoli, Italy.

September 11th-13th. Participation of Patrick Callet as expert in the Modeling and Understanding the Visual Appearance MUVApp meeting project at Gjovik, Norway.

September 13th-15th. 25th Color Imaging Conference, two oral presentations given by Patrick Callet at CIC25 in Lillehammer, Norway.

October 12th. Invited talk given by Patrick Callet at the public meeting on polychromy of medieval sculpture, Usson-en-Forez, France.

October 16th. Valérie Bonnardel, oral presentation and delegate for CFC AIC2017 in Jeju Island, Korea.

October 21st. Second annual CFC General Meeting.

October 26th. Invited talk at Institut d'optique, Patrick Callet, Saint-Étienne, France.

Novembre 9th - 12th. Main invited talk to Polydisciplinary Université of Ouarzazate, Marocco Solar Festival, color and new environmental deals, Barbara Blin-Barrois, announcement of the AIC2020 event.

November 29th. December 1st. Two oral presentations by Laurence Tardy and Etienne Trouvers and Patrick Callet at Polychromy conference in Ausonius institute, Bordeaux, France.

2017 / 2018. Coordinaton of scientific programmation for Interdisciplinary Colour schools, EDP2019 with CNRS, Anne Varichon, Michel Blay and Barbara Blin-Barrois.



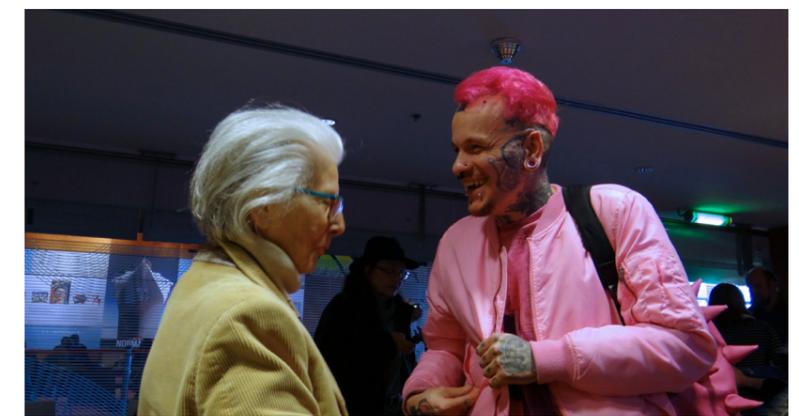
Historical chemicals at the Chevreur's lab in Paris (MNHN)



The french delegation composed of 4 CFC members (Larissa Noury, Hélène de Clermont- Gallerande, Nicolas Rolland, Barbara Blin-Barrois, Xavière Ollier, Lina Perdomo, Nathalie Touffu- Volcouve and Anne Varichon from left to right)



May 6th. Exhibition at « La Piscine » in Roubaix where France Lavergne-Cler and Michel Cler presented their pioneer works in colour design in the framework of the Centre Pompidou 40th anniversary and special events. From left to right : Hervé Bernard, Caroline Besse, Patrick Callet, Elizabeth Condemine, Philippe Chaudré



Jacqueline Carron, painter and one of the first historical members of CFC who participated in Mondial Couleur 85, talking with a young artist and recent member Kevin Bideaux

// GERMANY //

Deutscher Verband Farbe

DfwG - German Society of Color Science and Application

www.dfwg.de

www.din.de

www.deutsches-farbenzentrum.de

DEUTSCHE FARBWISSENSCHAFTLICHE GESELLSCHAFT (DfwG)

The 2017 annual conference of the DfwG was held 4-5 October 2017 at FOGRA, Forschungsinstitut für Medientechnologien e.V, Aschheim near Munich. Due to high hotel room rates boosted by other big events in the vicinity nearly all participants stood in a countryside hotel outside Munich and a bus shuttle to FOGRA was organized.



Frank Rochow (outgoing DfwG-Secretary) and Bernhard Hill (outgoing DfwG-President) retire at the 2017 DfwG annual meeting. Frank hands over a group picture, signed by all participants of the meeting to thank Bernhard for his service for DfwG.

The start in the morning of the first day was filled by meetings of the DfwG working groups "Multigeometry" with chairman Dr. Alfred Schirmacher of PTB, "Fluorescence" led by Dr. Claudio Puebla of Axiphos, "Colour Image Evaluation" with chairman Dr. Andreas Kraushaar of FOGRA and, "Basics of Colorimetry" led by Dr. Peter Bodrogi of TU Darmstadt.

The afternoon started with the official annual DfwG member assembly and election of the board members. The new DfwG-board was established: Dr.-Ing. Andreas Kraushaar (FORGRA, Munich) as President (replacing Prof. Bernhard Hill), Prof. Dr. sc. nat. Christoph Schierz (TU Ilmenau) re-elected as Vice-President, Dr.-Ing. Karin Bieske (TU Ilmenau) as Secretary (replacing Dipl.-Ing. Frank Rochow) and, Dr.-Ing. Carsten Steckert (Berlin) re-elected as Treasurer.

After the election the paper sessions started with "Colour Memory – Literature and Research from 1950s to 2016" by Sebastian Fischer, followed by "Colour Coordinates of preferred Whites – Results of a Visual Experiment" presented by Matthias Szarafanowicz.

The papers "Fundamental Criticism about the CIE-XYZ Standard Observer: Mathematical and Methodical Considerations" by Christian Greim and "About Geometries – Visual and Instrumental Considerations" by Werner Rudolf Cramer concluded the paper session of the first day.

After a bus transfer to the countryside hotel there was an evening gathering which gave time and frame for scientific and social networking while enjoying Bavarian food and beer.

The morning of the second day started with "Report from the AIC-Meeting 2016 in Santiago de Chile" by Frank Rochow and "TM 30-15: Examination on Colour Reproduction of White LEDs" by Karin Bieske, followed by Klaus Richter with his paper "Colorimetric Ergonomic Colour Picture Reproductions for eight Contrast-Situations according ISO EN DIN DIS 9241-306:2017".

The afternoon sessions were organized in cooperation with the "Farbworkshop 2017" of the German Color Group (GCG). Bernhard Hill presented "Colour Quality of a Multispectral Camera with integrated Filter-Mask: First Steps", Paul-Gerald Dittrich reported on "Colour Management with Smartphones" and Christian Dietz introduced "Rhopoint TAMS – Novel Evaluation of the Image of Surfaces".

The afternoon was filled with papers on "A sensory spectral Feedback-System for sophisticated Light-Applications" by R. Nestler, "Color preference and color fidelity for painting illumination with different colour temperatures with multi-channel-LED-systems" by Peter Bodrogi, "Color Management for graphic 3D-Prints: Characterizing 3D-Scanners" by Philipp Tröster and, "Color management for Backlit Applications" by D. Pitigoi.



The participants of the 2017 DfwG annual meeting gather at the entrance of the FOGRA Institute, Munich.

DIN - FNF

In 2017 the new standards include:

- DIN EN ISO 11664-5:2017-01 "Colorimetry – Part 5: CIE 1976 L*u*v* Colour space and u', v' uniform chromaticity scale diagram"
- DIN 5033-1:2017-10 "Colorimetry; basic concepts"
- DIN 6171:2017-02 "Surface colours for traffic signs and traffic installations"

Drafts included:

- DIN 5033-9:2017-06 "Colorimetry – Part 9: White-Standard for calibrations in colorimetry and photometry",
- DIN 6176:2017-07 "Colorimetric evaluation of colour differences of surface colours according to DIN99o formula" have been published.



// GREAT BRITAIN //

The Colour Group (Great Britain) CG(GB)

REVIEW

In 2017 the Colour Group (GB) hosted 461 attendees at 12 events. At our regular 1-day January colour vision meeting where, among 10 speakers, Rhea Eskew gave the Palmer lecture on mechanisms of colour detection, discrimination and appearance, and Anna Franklin gave the CRS-sponsored lecture on the origins of colour preference. We celebrated International Colour Day with an interdisciplinary event at City University, where there were a variety of talks on colour in art and science by 6 speakers: Andrew Hanson, Philip O'Reilly, Valérie Bonnardel, Estell Thompson, Roger Woodiwiss, Cath Carver, Sheena Calvert and Leah Fusco. Also in March the Colour Group (GB) hosted the second International Colour in Film Conference at the British Film Institute. This sell-out event featured keynote talks by Anke Mebold, Charles Fairall, Kathryn Millard and Heather Heckman, screenings of restored films and a workshop on Eastmancolor by Sarah Street. In April we hosted "The Colour Canon" at the Royal College of Art, where 5 arts and science speakers John Mollon, Alexandra Loske, Joyce Dixon, Roy Osborne and Stuart Durant presented on their chosen colour texts. In December, members were

given a tour of the national Science and media museum, seeing examples of their colour plates, prints and apparatus. In 2017 the colour group also sponsored events at six international conferences, including Optical Biomimetics, ICVS and the International Museum Lighting conference.

2017 TRUNER MEDAL RECIPIENT

The Colour Group (GB)'s Turner medal for 2017 was awarded to artist Michael Craig-Martin for his exceptional use of vivid colour palates applied to bold outline motifs. One Palmer award and three W D Wright awards were presented to enable early career researchers to attend conferences to present their work on colour. Three student poster awards were also presented in 2017, to Nathan Masters for work on brown algae presented at Optical Biomimetics, John Maule for work on adaptation to hue variation, presented at ICVS, and Lifang Wan, for work on colour constancy, also presented at ICVS. Awardees presented their research at the Colour Group (GB) Student Awards meeting in November.

LOOKING TO THE FUTURE

The future plans of the Colour Group (GB) include maintaining and developing collaborations and partnerships with other organisations concerned with light and colour, continuing to provide travel grants and student poster awards, launching a new student grant scheme to provide financial support for students and young researchers to attend events facilitating their professional development, and investigating the potential for creating a new research bursary scheme to support students to conduct six-week research projects in the field of colour.



Colour in Film
March 2017



Colour Canon
April 2017



National Science and Media Museum, Bradford
December 2017



Student Awards Meeting, November 2017

// HUNGARY //

The Hungarian National Colour Committee ICCPH

REVIEW

The Hungarian National Colour Committee was founded in 1969. It has maintained its activities until today and has produced numerous reports and organised exhibitions and series of scientific lectures for the general public in the colour fields of vision, environmental design, fine arts, measurement, colour and pattern harmony.

During the year 2017, there were many colour-related events. From 7 to 8 February, the VIII LED Conference was organised by Óbuda University and by the Hungarian Lighting Association. The event was opened by János Borsanyi the emeritus lecturer of Lighting Division of the Faculty of Electrical Engineering of Obuda University and by Janos Nagy chair of Hungarian Lighting Association. The conference topics were ranged from LED public lighting to bicycle LED lamp. Here are some titles form the conference program: Aging investigations of OLED (by Róbert Nagy, Péter Csuti, Ferenc Szabó); Electric shock protecting and LEDs (by



MKISZ exhibition entitled as Hungarian Geometry

József Nádas, Ferenc Novothny); LED experiences in public lighting (by Csaba Kovács); A LED H2020 project (by András Poppe); Indoor plant growing by LED illumination (by László Balázs); Bicycle lighting by LED (by Lajos Erbeszkom). Here, 20 lectures were presented, together with a range of LED-related industrial exhibitors.

6TH COLOUR SPECIALIST CONFERENCE

The 6th Colour Specialist International Conference (ICCPH2017) was organized in Pápa, in Hungary. The series of these conferences started in Budapest in 1976. The name of this conference was International Interdisciplinary Conference on Colour and Pattern Harmony, which event was placed in the Eszterházy palace from 21 to 23 May. The chair of the conference was Professor Ákos Nemcsics, the president of the Hungarian Colour Committee. The conference topic were the following: Colour and architectural environment; Systematization of colour; Colour and technology; Colour and art; Computational analysis of arts; Human and colour; Extended colour. There were eight keynote speakers, ten oral speakers and approx. twenty posters. Here are some lecture titles: Depicting the transcendent - The light symbolics of Hungarian modern church architecture (by Zorán Vukoszávlyev); Golden architecture on the contemporary age (by Pietro Zennaro), Wilhelm Ostwald's "Harmony of colours" (1918) and its mixed reception - a reassessment (by Karl Schawelka), Pápa and Gábor Winkler (by László Mezei), Colour harmony in the urban environment: discussions and revisions (by Beichen Yu), Interactive demonstration of colour harmonies and additive colour mixing (by István Szabó G.), Colour harmony in the architectural praxis (Árpád Szende), Colouring of the frescos of the arpadian age parish churches (by Ákos

Nemcsics, Antal Ürmös), Magic colours of the glass windows of the gothic chatedrals (by Antal Ürmös, Ákos Nemcsics), Archidea - architecture, painting, emotions (by Katarzyna Słuchocka), New color 'editions' of urban space in post-socialist societies (by Yulia A. Griber), Colour-check on websites of the Hungarian universities (by Cecília Sik-Lányi, Veronika Szűcs), Computer-based assessment of 6- to 7-year-old children's colour perception and interpretatio (by Alisa Tóth, Andrea Kárpáti).

CHAOS AND ORDER EXHIBITION

In city Szeged, on October 7 was opened an exhibition with title of Chaos and Order. The kurators of the exhibition were Ildikó D. Udvardy arthistoricant and Győző Sárkány graphic. The exhibition is placed in a beatiful art-nouveau palace, in the Regional Art Center (REÖK). On the exhibition, more members of our Committee participated: Éva Erdei Kvasznai, István Fekete, Gábor Homolya, Márta Kisfaludy, Attila Koppány, Ákos Nemcsics, János Óvári, Péter Rainer, Győző Sárkány, Zsigmond H. Serényi, Péter Ürmös Péter.

HUNGARIAN GEOMETRY EXHIBITION

In the Budapest headquater of Hungarian Association of Fine and Applied Art (MKISZ), an exhibition was opened on 10th November with title of Hungarian Geometry. The exhibition was opened by Márta Simonffy, the chair of MKISZ and by Sándor Balázs art writer. The exhibitors were László Balogh, János Dévényi, István Jamelszki, Mihály Kéri, Endre Lukoviczky Ákos Matzon, Antal Nemcsics, István Oroján, József Szathmáry, Zoltán Szlabey, Zsigmond H. Serényi.



Professor Antal Nemcsics, was awarded the AIC Award for Color in Art, Design and Environment (CADE)

CONGRATULATIONS PROFESSOR A. NEMCSICS

It was a great honor for our member, for Prof. Antal Nemcsics, he awarded -the AIC Award for Color in Art, Design and Environment (CADE). The award was passed on the 13th Congress of AIC in Jeju, in Korea (16-20 October). With regard to the elderly age, Prof. Nemcsics could not personally receive the award at the Congress. A colleague of us, Róbert Hirschler participated in the Congress collected the award for Professor Nemcsics.

NEW PRESIDENT

On 28th November, a committee meeting was held in the headquarter of the Hungarian Academy of Sciences. More of them, here was elected a new member of the committee presidency. The new election was necessary to the place of Prof. György Ábrahám, he is outgoing presidency member. Professor Andrea Kárpáti was unanimously elected as new presidency member. She works on the Centre for Science Communication, ELTE University. Her research topics are visual communication and art pedagogy.

WITH GREAT SARROW

Here was a great loss of the Hungarian lighting society, because Dr. János Borsányi died in his 85th year on 26th November.



Ákos Nemcsics: Born of blue, exhibited in REÖK palace in Chaos and order exhibition



// ITALY //

Gruppo del Colore - Associazione Italiana Colore GdC - Color Group - Italian Color Association

2017 ANNUAL CONFERENCE

The main event of the year that involves all the members of the Gruppo del Colore - Associazione Italiana Colore is the annual Conference. The 2017 edition was held at Università degli studi di Napoli Federico II on 4th and 5th September. It was organized as joined meeting with AIDI-Associazione Italiana di Illuminazione, Associação Portuguesa da Cor, Centre Français de la Couleur, Colour Group (Great Britain), Colourspot, Comité del Color, Deutsche Farbwissenschaftliche Gesellschaft, Forum Farge and Gropue Français de l'Imagerie Numérique Couleur.

Invited speakers were Prof. Ferenc Szabó (University of Pannonia), Maria João Durão (Universi-

dade de Lisboa) and Prof. Massimo Osanna (Soprintendenza di Pompei, Università degli studi di Napoli Federico II). During the Conference, there was the award ceremony of the third edition of the Premio Colore GdC assigned to Prof. Walter Gerbino for his research, teaching and publishing activities in the visual perception area.

Color does not exist. It is a stimulation in the observer brain: the mind can produce color even in the absence of external stimuli. So, if color does not exist, how is it possible to communicate it, use it, measure it and reproduce it? These are the fundamental questions to which the 2nd edition of the Master in Color Design & Technology, started in March 2017 and directed by Maurizio Rossi and Alessandro Rizzi under the patronage of our Association, tries to give answers.

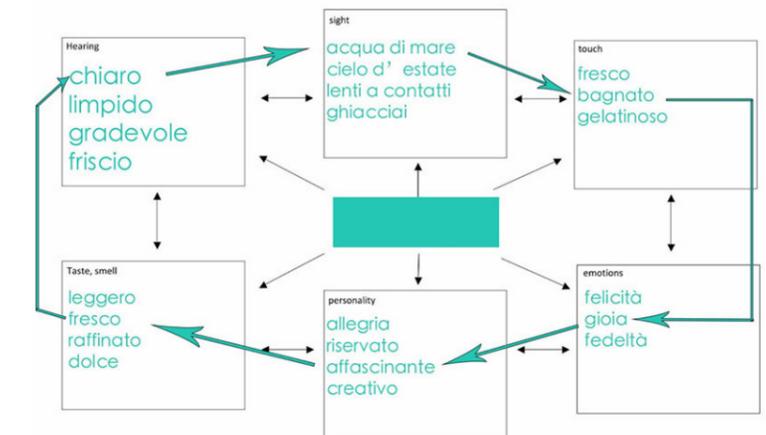
MEMBER ACTIVITIES

Members of our Association were involved in many activities relating to color, such as, Aldo Bottoli and Giulio Bertagna, who participate in the organization of the workshop "Un inedito laboratorio del fare e del pensare" about the redevelopment of inhabited spaces; Renata Pompas who organized the seminar Know and understand the Color and gave some open lectures: Fashion, textile and colors at the Silk Museum of Como, Chromatic resonances at the Brera Academy of Fine Art, Colours and Textile Design at the Master Color Design & Technology; Claudio Oleari and Francesca Valan participate in the meeting "Il Colore non è un gioco. Fisica e Design, il colore fra due mondi" which took place in Milan, during the "The art of the brick" exhibition with LEGO® sculptures by Nathan Sawaya; Lia Luzzatto, Lecturer in Colour Theory and Commu-

nications at the Raffles Fashion and Design Institute, at the Fondazione Accademia di Comunicazione and at the Luxury Lab Academy, in Milan. She has co-authored many books, the last of which is Colori e Moda (Colors and Fashion). During 2017 we also gave patronage to the "Poliefun-TST 2017. Trends in Surfaces Technology Colour consulting Day. Indoor Outdoor Spaces: new surfaces", organized by Department of Architecture of the Politecnico di Milano and to the Illuminotronica 2017 conference-exhibition and the Codega Award about lighting design.

COLOR CULTURE AND SCIENCE JOURNAL

In 2017, the Associazione Italiana Colore continued the publication of its half-yearly journal, named "Cultura e Scienza del Colore - Color Culture and Science" and freely available on-line for everyone, which include the most significant papers presented in the past editions of the Conferenza del Colore or unpublished papers.



Mind Map: it expresses the qualities of the visual medium through the linguistic medium by the member Lia Luzzatto



Prof. Walter Gerbino during his lecture for the ceremony of 'Premio Colore GdC 2017' award



A lesson of the 2nd edition of the Master in Color Design & Technology



// JAPAN //

日本色彩学会

CSAJ - Color Science Association of Japan

48TH ANNUAL MEETING

The 48th Annual Meeting of the Color Science Association of Japan (CSAJ) was held on 3-4 June at Bunka Gakuen University in Shinjuku, Tokyo chaired by Prof. Tohru Ohzeki. More than 260 participants attended and 65 contributed papers from various fields of color science and design were presented. In a special event on the first day (3 June), two invited speakers lectured on 100th anniversary of A.H. Munsell's death; 'Unknown truth of A.H. Munsell' by Prof. Akira Kitabatake and 'Hundred years of developing color systems and the present problem to be solved' by Dr. Masayuki Osumi. The CSAJ Presentation Encouraging Prizes were given to three students: Mai Isomi (Osaka City University) "Non-contact colorimetric measurement using dome illumination for free-form surfaces Part 2", Chisako Otsuka (Chiba University) "Conspicuity of facial pigmentation influenced by its distribution" and Yuki Tanaka (Chiba University) "Contribution of ipRGC to the Fluorescent Feeling".



Oral session at Annual Meeting 2017

STUDY GROUP MEETING

The Study Group Meeting 2017 was held on 25-26 November in Sugiyama Jogakuen University in Nagoya, Aichi, chaired by Prof. Takashi Hanari. More than 170 people attended, and 25 contributed papers were presented. Eleven Study Groups out of 12 Study Groups contributed to the meeting and the symposium entitled "For more deep understanding of Color Difference" was held. The CSAJ Presentation Encouraging Prizes were given to Yusuke Hishikawa (Kyushu University) "Influence of the number of distractors color on visual search performances cued by the S-cone stimulus values", Toshihiro Toyota (Industrial Research Institute of Shizuoka Prefecture) "Analysis of color evaluation for red wine of sommelier based on colorimetry" and Yuki Nakajima (Joshibi University of Art and Design) "Influence of nail color and light source on color appearance of skin color".

PUBLICATIONS

The CSAJ published six issues of the Journal of the Color Science Association of Japan in 2017. Seven original papers, two short papers and one research note were published.

UPCOMING MEETING

The 49th Annual meeting of the CSAJ will be held on 2-3 June 2018 at Osaka City University in Osaka. The Study Group meeting 2018 will be held on 24-25 November 2018 at Tokyo Kasei Gakuin University in Tokyo.

LOCAL CHAPTERS

Three local chapters in the Kanto, Tokai and Kansai areas worked actively and organized several meetings throughout the year. CSAJ's newly elected executives started on 3 June 2017: Shin'ya Takahashi (President), Kazuyuki Natori (Vice president) and Hideki Sakai (Vice president) with 12 trustees. Currently, CSAJ has 1,265 members.

AWARDS

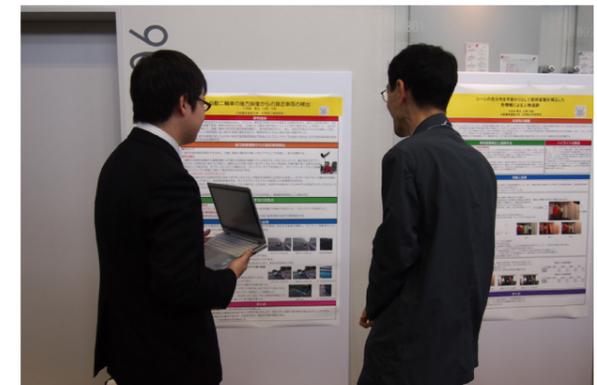
9th CSAJ Paper Award: Tadashi Yano (Panasonic Corporation) and Kenjiro Hashimoto "Preference index for Japanese complexion under illuminations", Color Research and Application, 41(2), 143-153, 2016.

19th CSAJ Research Encouraging Award: Kumiko Kikuchi (Shiseido Global Innovation Center) "A correction method for skin reflectance obtained with different spectrophotometers and its application: Changes in the skin color of Japanese women for 25 years", Journal of the Color Science Association of Japan, 40(6), 195-205, 2016.

21st CSAJ Award: Yasuhiro Nagata, for his longtime contribution to the association and influential research on color names and environmental color design.



Oral session at Study Group Meeting 2017



Poster session at Study Group Meeting 2017



Reception at Annual Meeting 2017



// KOREA //

한국색채학회

KSCS - Korea Society of Color Studies

Established in 1988, the Korea Society of Color Studies (KSCS) joined the International Color Association (AIC) in 1995, and after leading the 2000 AIC Interim Meeting in Seoul, the organization successfully hosted the 13th AIC Congress in Jeju Island, which is an official UNESCO World Heritage site. In the year 2017, KSCS has engaged in the following activities.

INTERNATIONAL COLOR DAY

To celebrate the International Color Day (ICD) on March 24, KSCS hosted an ICD anniversary seminar and general meeting at Soongsil University on the theme “Technology and Analog Emotional Color” with the aim to consider the communication and emotional skills required to live in the fast changing age of technology through the lens of color. For more details please refer to the ICD section.



2017 Korea Society of Color Studies General Meeting and ICD Celebratory Seminar



Technology and Analog Colors of the Everyday

ACADEMIC ACTIVITIES

Regarding the Society's academic activities in 2017, KSCS published four journals, held two academic conferences and two seminars, and hosted the 13th AIC 2017 Congress.

JOURNALS

The KSCS' journals, which are registered in the National Research Foundation of Korea, were published on the last days of February, May, August and November as scheduled, and 42 papers in various fields such as color technology, design and education were published after a rigorous evaluation process.

ACADEMIC CONFERENCE

KSCS also hosted academic conferences in which members gathered to discuss various topics, one of which was held on May 19 at Ewha Womans University on the theme of “Sustainability of Culture and Color”. At the conference, Songhwan Kong, the Brand Manager of Kolon RE;CODE, presented a lecture on “Values Beyond Fashion – Upcycling Fashion”, and in the fall, Byeongheon Kim, Adjunct Professor at Hanyang University, presented a lecture titled “Fragrance and Color Inspirations” at Konkuk University.

FUTURE CONFERENCES

2018 AIC Interim Meeting

Lisbon, PORTUGAL

Colour and Human Comfort

Organized by Associação Portuguesa da Cor/Portuguese Colour Association
September 25-29, 2018

www.aic2018.org



2019 AIC Midterm Meeting

Buenos Aires, ARGENTINA

Organized by Grupo Argentino del Color



2020 AIC Interim Meeting

Avignon, FRANCE

Organized by Centre Francais de la Couleur



2021 AIC Congress

Milan, ITALY

Organized by Gruppo del Colore



// THE NETHERLANDS //

Stichting Kleurenvisie: Het Netherlands Platform voor Kleur

The Netherlands Platform for Color

The Dutch Colour group “Stichting KleurenVisie” was well extended with new boardmembers*. With renewed energy and good representation for the several disciplines working with colour we can continue to host divers colour events and promote the cross-fertilization between those disciplines.

AWARD CEREMONY

The Stichting KleurenVisie award ceremony

20 years ago, experts spent a lot of effort and time in designing a deliberate play of colours for the Regenboogbuurt (translated this would be rainbow neighbourhood) residential area in Almere. Many residents and visitors would like to enjoy this special colour landscape. Colour gave this neighborhood the unique opportunity to “wear” it as something beautiful but is also very vulnerable. To stimulate the preservation of this colour plan we presented our Kleurenvisie prize to the foundation “behoud de regenboogbuurt” who are committed to maintaining it.

Floor van Dusseldorp, one of the colour advisers at that time held a lecture about 12 Colour propositions for urban planning. In addition to statements and explanations, the publication contains the necessary recommendations and practical examples of successful use of colour in urban development.

LE CORBUSIER'S FOURTH DIMENSION

The Cobra Museum showed the exhibition "Le Corbusier's fourth dimension". This unique exhibition showed the free visual practice with drawings, paintings, tapestries and objects of this

world-famous architect. KEIM, member of the Dutch foundation and manufacturer of mineral wall paints including the exclusive Polychro products in the colours of Le Corbusier painted the walls in this exhibition and invited Stephan Scholz from Les Couleurs Suisse for a lecture about le Corbusier's Architectural Polychromy colour palette.

NATURAL COLOURS

A symposium organised by the Textile committee with the focus on textile and natural dyes and humans natural urge to colour was held in at the Cutural Heritage Agency in Amersfoort. Twelve speakers made oral presenatations. Kim van



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Savooyen, Maarten van Bommel, Ana Serrano, Casper de Groot Art Ness Proaño Gaibor, Agnes Brokerhof, Linda Hanssen, Chrystel Brandenburgh, Nan Groot Antink, Marijke de Bruijne and Ista Boszhard & Laura Luchtman

SIKKENS PRIZE FOR HELLA JONGERIUS

Following Gerrit Rietveld, Le Corbusier and Donald Judd the Sikkens Prize, an award for ground-breaking work in the field of color use was awarded to Hella Jongerius. According to the Sikkens foundation her work as a productdesigner combines the traditional with the contemporary and the latest technologies with traditional elements to the industrial production processes. 'We are stuck to a system in which the chemical industry determines which colours are available. And in ten years time, those colours must still be the same. The result is a horrible flattening of the colour range'. Her mission is to show that there are alternatives. The exhibition 'Breathing Colour' financed with the price has been realized in collaboration with the Design Museum in London The mondrian lecture was given by renowned scientist in the field of conservation and color, Dr. Narayan Khandekar.



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BOARD MEMBERS

Executive Director: Kim van Savooyen, interior designer at KIM Colour guided design

Chairman: Ir. Pi de Bruijn, architect founding partner de Architecten CIE

Secretary: Clairette Gitz, architect of Gitzarchitecten and guest-researcher at the University of Delft

Treasurer: Sandy Spaan, Senior design consultant, colour, material, finishing Technologies en trends at Philips

Ad Pruyn, Professor of Consumer Psychology at University of Twente

Marc Witbreuk, CFO/COO Scholz Benelux BV

Jan de Vletter, former director housing development

Peter Jonquire, independent Architecture & Planning professional

// NORWAY //

Forum Farge Norway

Forum Farge, the Norwegian Colour Association, was founded on the 10th of April 2013. The purpose of Forum Farge is to stimulate research on all aspects around colour, to disseminate research-based knowledge about colour, and to facilitate applications of this knowledge to solve colour related problems within art, design, architecture, science and technology on a national level. The group became a member of AIC in 2014. More information about Forum Farge can be found on www.forumfarge.no

CONFERENCES

Arranged: The annual conference Forum Farge 2017, Surfing Colour II, was held in Oslo, Norway, hosted by The School of Architecture. Presentations at the conference included topics on design and architecture with a focus on Materiality. The keynote speaker was the icon within colour design, Jean Philippe Lenclos, from France. He talked about his life-long engagement in colour (Atelier 3D Couleur). Amazing! <http://www.a3dc.paris> and his books on Geography of Colour. Other speakers were Svein Skipnes, architect from Trondheim, Lisbeth Larsen, Colour director of Jotun AS paint industry, who presented international colour trends. Further: Sarah Leszinski UiB showed her masterproject on colours for Hurtigruten (Tourist ships), and Saara Pyykkö from Aalto University (Fi) showed her PhD research on Colour in Architecture. Kiyoshi Yamamoto focused on innovative textiles and Bent Erik Myrvoll, artist and research fellow in mural techniques, showed several impressive fresco projects. About 100 people attended. We also arranged a lecture for Lenclos at Bergen University.

Participation: Forum Farge was represented by Kine

Angelo at XIII Conferenza del Colore, Italy. The international conference, held in Naples on the 4-5 September, was organised by Gruppo del Colore. Alex Booker and Kine Angelo presented the paper: The impact of the industrial surface colour palette; tradition, ignorance and indifference examined through recent architectural projects in Trondheim.

RESEARCH ACTIVITIES

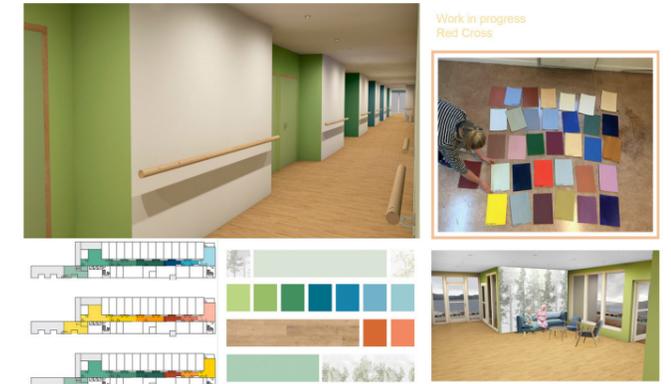
The Norwegian Colour and Visual Computing Laboratory (<http://www.colourlab.no>) is a research group within Department of Computer Science at the Norwegian University of Science and Technology (NTNU) in Gjøvik. Current research projects are MUVApp (Measuring and Understanding Visual Appearance Understanding). The goal is to gain new knowledge of how human beings perceive the visual



appearance of materials, objects, and scenes, and to develop new methodologies for measuring and communicating visual appearance and appearance-related material and object properties. Just recently, two new project proposals have been approved by the EU and both are in the Marie Curie ITN-ETN programme; CHANGE (Cultural Heritage Analysis for New Generations) and ApPEARS (Appearance Printing - European Advanced Research School).

Light & Colour Centre at NTNU, represented by Barbara Matusiak and Anne Kristin Myrseth had an artistic exhibition "Light becomes form" at Steinkjer kunstforening 25.11.-15.12. 2017 at the Commander's House in Steinkjer. Barbara Matusiak created among other things a reminiscence of a window by painting a wall in a green colour with the window imprint. She used the same nuance of green as on the roller curtain covering the true window. This created a special unity of the composition and invited to wondering about the change of colour depending on the light direction; from the front or from the back.

University of Bergen, Faculty of Art, Music and Design represented by Mette L'orange, Professor of Colour, has been engaged in research on colour and health / pilot projects for nursing homes in Bergen. This is within the framework of her artistic research: Colour between Art and Architecture, and has led to the establishment of a European study group/network on colour and health with: Helle Wijk Gothenburg University, Karin Fridell-Anter, colour researcher, Uppsala/Sweden, Ana Torres Barchino, Juan Serra-Lluch and Anna DelCamp-Carda from The University of Valencia. (Papers being presented in Lisboa 2018).



FUTURE EVENTS

Exhibition on The colours of Le Corbusier/Salubra. Mette L'orange. Oslo School of Architecture on 15 October. Evening seminar on Colour in Architecture in October 2018. Annual Conference on 21 May 2019.

The 9th Colour and Visual Computing Symposium 2018 (CVCS 2018) will take place at The Norwegian Colour and Visual Computing Laboratory Norway, on 19-20 September 2018. Keynote speakers: Professor Holly Rushmeier, (Department of Computer Science, Yale University), Associate Professor Marcelo Bertalmio (Information and Communication Technologies, Universitat Pompeu Fabra) and Professor Michael Felsberg (Computer Vision Laboratory, Linköping University).





// PORTUGAL //

Associação Portuguesa da Cor APCOR - Portuguese Colour Association

This year was almost completely occupied with the preparation of the Interim Meeting – AIC Lisboa 2018. The program was defined and launched, having been discussed, by video Conference, in the EC/AIC Meeting at the AIC 2017 Congress in Jeju, Korea. It was, also, officially presented at the Congress. This event was, also, presented at the XII Conferenza del Colore, in Naples, Italy.



MEMBER ACTIVITIES

The Members of the Portuguese Colour Association, in addition to actively collaborating in the organization of the AIC Lisboa 2018 Conference, continued to be represented by its members at the main forums of colour discussion throughout the world:

CONFERENCE

Margarida Gamito, President of Portuguese Colour association, participated on the 8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017, July 17-21), in Los Angeles/California/USA, with the oral presentation “Urban furniture’s chromatic planning methodology: Bucelas, a case study”.

João Pernão, as Vice-President, represented the Portuguese Colour Association at the IV Light Congress, held at Palácio de Mafra, organized by CPI-Portuguese Centre for Illumination. The theme of the Congress was “The light at the service of the human being”. He was, also, invited to write a chapter for the second edition of “Colour Design: Theories and Applications”, edited by Janet Best and published by Elsevier. The text, “Light and Colour in the Process of Teaching Architectural Design”, describe the author’ methodology and results as Light and Colour teacher at the Faculty of Architecture, Lisbon University. Also Miguel Aboim Borges, presented “Design strategies for inclusive environments”. In 2017, Miguel as also participated on the ergoUX – ERGONOMICS. DESIGN. USABILITY. USER EXPERIENCE Conference (Lisbon School of Architecture and FMH – Human Motricity Faculty, November 8-9, Lisbon), with the oral presentation “Waysensing: Orientation through the senses”.

Cristina Caramelo Gomes, the coordinator of LabCor (research project Colour of Ajuda Urban Space which aims to identify/define the identity of the place and how this parameter impacts on user experience), also participated in the congress AHFE 2017, presenting the papers “Three Times Smart – Smart Workplaces, Smart Lighting & Smart Glass” and “Ultraviolet Radiation in Sunlight and Artificial Lighting Systems: Are they alike?” to debate the impact of light on human health, wellbeing and performance.

Verónica Comte, participated on the Round Table “Avances del Color en el Diseño” I Congreso Internacional, IV Encuentro Mexicano del Color. Asociación Mexicana de Investigadores del



BOARD MEMBERS

President Margarida Gamito
Vice-President João Pernão
Secretary Cristina Pinheiro
Treasurer Miguel Aboim Borges
Director Fernando Moreira da Silva
Director Rui Barreiros Duarte

Color – Amexinc. Faculty of Architecture, Ciudad de Mexico (May 2017).

Ana Paula Duarte, among other participations, completed her PhD, with the thesis “Reabilitação Arquitectónica, Sustentabilidade e Design” at the Lisbon School of Architecture, University of Lisbon.

Luísa Martinez, had a vast academic activity, among which are the oral presentation of “The influence of color in anthropomorphic food packaging: Purchase intention ad product attractiveness” (1st International Youth Marketing and Media Forum, IPAM – Universidade Europeia, Lisbon, Portugal, February 9); and, at the same University, was guest lecturer for the course Cultura, Ideologia e Mercado (Bachelor’s Degree in Marketiing).

Vitor Pedro, among several activities related with colour, concluded his MSc degree with the thesis “AGENTES DE ALVURA – Avaliar a influência dos Agentes de Alvura, ou Brilho Ótico, em amostras de substratos para impressão” at ISEC Lisboa – Instituto Superior de Educação e Ciências.

Susana Ribeiro organized a doctoral workshop Lab Color Sense, in 5th Encounter on Practices of Research in Arts Education, at the Faculty of Fine Arts/University of Porto. (Fevereiro 2017), and participated, as speaker, on ICOCEP – 1st International Congress on Contemporary European Painting in Porto, under the theme: “Painting Practice in Lab: Body Knowledge and Colour Thoughts” (April 2017).

Miguel Sanches, presented “COLORTRANSLATION–Comunicação dos dados de cor entre designers e produtores” at the

5th EIMAD - Encontro de Investigação em Música, Artes e Design (organized by Escola Superior de Artes Aplicadas/Instituto Politécnico de Castelo Branco, Portugal, February 2-4).

Zélia Simões, has been preparing two bilingual publications: Cor, Espaço Urbano, Arquitetura e Design (edited by Maria João Durão and Fernando Moreira da Silva), and Luz, Cor e Saúde (edited by Maria João Durão and João Pernão), that will be published by Caleidoscópio in partnership with the Portuguese Colour Association, CIAUD – Colour and Light Research Group and Laboratório da Cor.

ART EXHIBITIONS

by Portuguese Colour Association members

APCor member Ana Pais Oliveira, received the International Painting Award Focus-Abengoa, Sevilla (2017), besides being selected for the longlist of “The Solo Award 2016 – London Art Fair 2017”, promoted by Wilson Williams Contemporary Art Gallery (London). In 2017, Ana has also participated in several collective art exhibitions in Portugal and abroad, highlighting the exhibitions: Ar livre (Fórum de Arte e Cultura/ Espinho), A Cor é o assunto (Galeria S. Mamede, Lisboa). She had, also two individual exhibitions: Climbing tree houses (Galeria Emergentes, Braga, Portugal), and “o Bairro” (Forum de Arte e Cultura, Maia, Portugal).

Rui Barreiros Duarte, had a huge and varied colour activity, of which we can point out the illustrations to the exhibition “Exposição Pousadas’ Picture Perfect”, at Évora, Portugal, February 17.



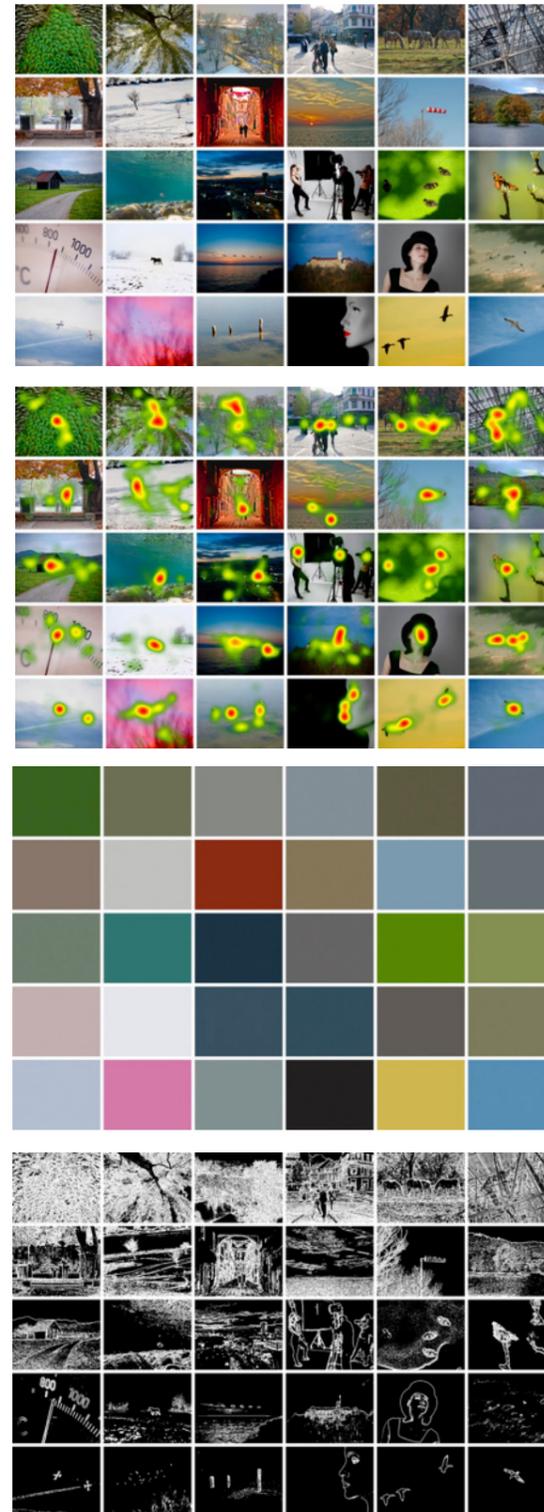
// SLOVENIA //

Slovenskemu združenju za barve SSC - Slovenian Society for Colours

In 2017, the members of Slovenian Society for Colours (SSC) were involved in multiple researches.

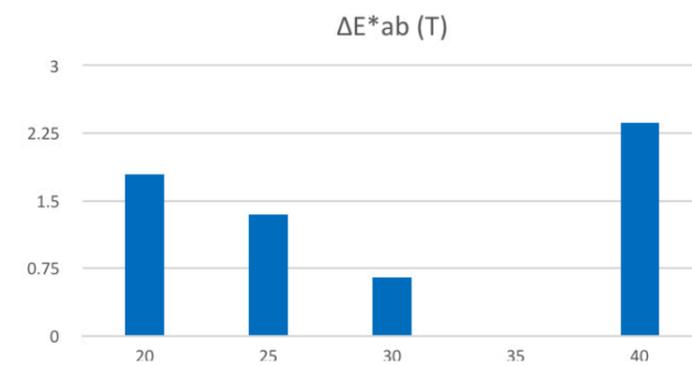
JURE AHTIK THESIS

Jure Ahtik from Faculty of Natural Sciences and Engineering (University of Ljubljana) successfully defended his PhD thesis »The correlation between objective and subjective digital photography quality assessment and its communication value« (mentor: Marica Starešinič). The aim of research was to determine communication value of images with the help of image quality assessment (subjective testing, eye tracking, mathematical objective measures and colour differences). Assessment was based on a testing image database that was developed for this purpose. Database includes 30 photographs with 28 different manipulations. Photographs were chosen based on their detail and colour diversity. It was determined that higher sharpness, lower contrast and lower saturation have little influence on image quality and on the other hand, higher contrast, change of lightness and lower sharpness have big influence on it. A strong correlation between results gathered with subjective method and ones gathered with an eye tracking method was calculated, but the correlation with other objective methods is less significant. Important result of the research is also development of two new methods, one is for subjective quality assessment and the other for analysing data gathered with the method of eye tracking. Main field of Ahtik's thesis was photography which makes it the first of its kind on the Faculty of Natural Sciences and Engineering.



SKIN COLOUR MEASUREMENTS

During the last few years, we started with investigations in the field of skin colour measurements. Human skin is a complex and unpredictable organ whose colour is in science objectively evaluated by using different colour measurement methods. Results of measurement are affected by many factors, the impact of which is not fully defined yet. Some factors directly determine the colour of the skin, are dependent upon the individual and cannot be controlled. The emphasis of our research (E. Jevnikar, D. Javoršek, S. Bračko, *Tekstilec* 58 (2): 121-134 (2015); D. Javoršek, E. Jevnikar, S. Bračko, *Advances in medicine and biology* 111: 109-128 New York: Nova Science, 2017) was on the second group of factors, which refer to the measurement conditions and are variable and adaptable. We examined the impact of the number of consecutive measurements, the selection of a body part, location of the selected area within a specific part of the body, the size of the measuring aperture and the temperature on skin colour. The appropriateness of different instruments and repeatability of the results were also assessed.

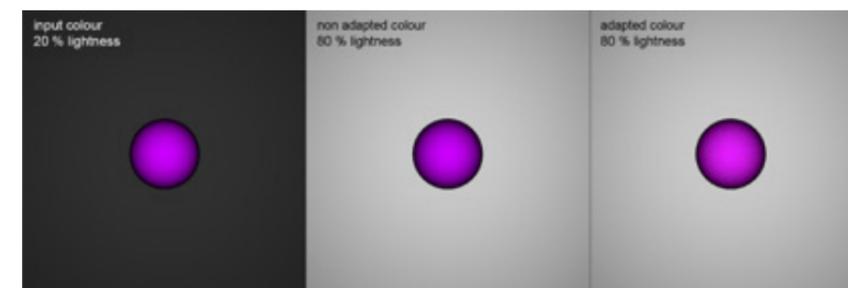


Calculated colour difference (ΔE^*_{ab}) on skin compared with colour at 35 °C.

Input colour on darker background, non adapted colour on lighter background and adapted colour (CIECAM02) on lighter background.

COLOR RENDERING IN 3D COMPUTERS

Nika Bratuž, Helena Gabrijelčič Tomc and Dejana Javoršek presented a research about colour rendering in 3D computer generated graphics and colour appearance model CIECAM02. The article (*Tekstilec* 60 (2): 97-106 (2017)) included an overview of colour spaces used in 3D computer generated graphics, review of colour reproduction and materials, shading algorithms and selected modern technologies for achieving solid visualisation. In their article they confirmed that color appearance model CIECAM02 can be used in 3D space and its use grants better color matching when changing background.



Input colour on darker background, non adapted colour on lighter background and adapted colour (CIECAM02) on lighter background.



// SPAIN //

Comité del Color Sociedad Española de Óptica

CEC - Color Committee Spanish Optical Society

REVIEW

In January 2017 our Comité del Color welcomed its new President Prof. Juan Luis Nieves (University of Granada, Granada) and Vice-President Prof. Meritxell Vilaseca (Polytechnic University of Catalonia, Barcelona). The Committee maintained its customary activities participating in different events around color and preparing the upcoming events for 2018-19. Particularly we are already preparing the organization of the next XII National Color Conference to be hosted in Linares (Jaen) in 2019.

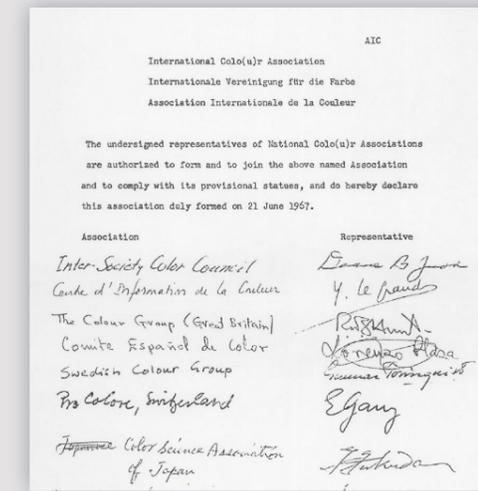
RESEARCH

Finally, we would like to draw attention to the research about the characterization of ageing in indigo-dyed and painted samples for damage assessment in artworks, developed at the Color Imaging Lab in Granada. Blue color appearance is

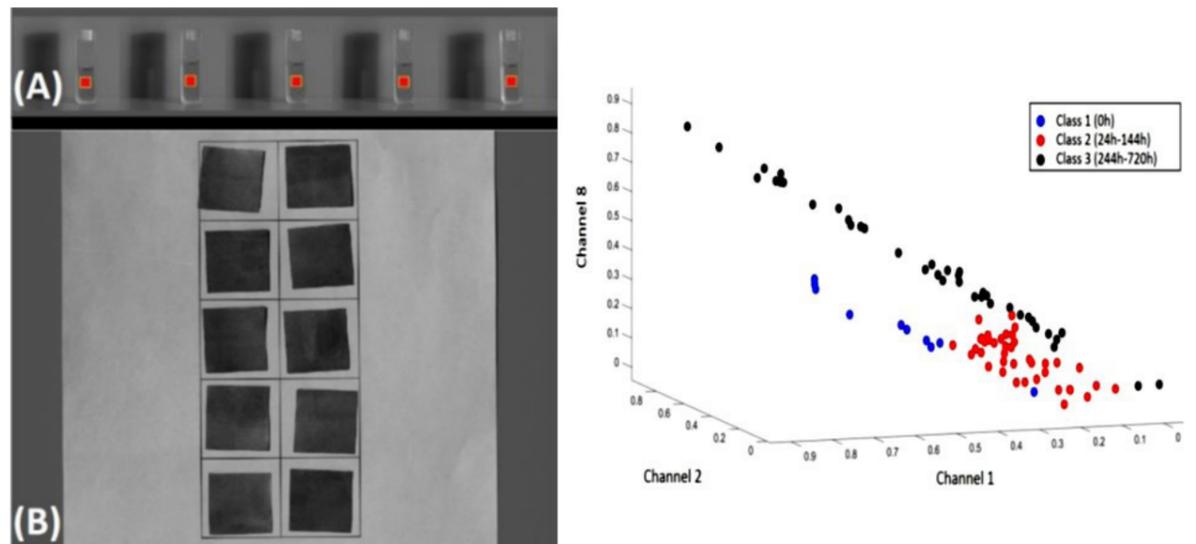
emblematic of indigo due to its nature because it can be considered as pigment or colorant. A comparative study between standard samples and samples aged in a controlled climate chamber under extreme conditions of humidity, temperature and light was carried out. The multispectral imaging in the visible and near infrared (NIR) spectral ranges was used to identify the evolution of degradation of indigo blue. The results showed that it was possible to achieve very high accuracy in the automatic classification (an SVM classifier) of the ageing phase of indigo samples both in liquid form and in solid form deposited on paper. A comparative study between the results obtained the analytical techniques and multispectral images supported a good correlation between the classification based in spectral data and the electrophoretic and spectroscopic data. The method emphasizes the feasibility of using a spectral camera as a non-invasive technique for characterizing the ageing phase of indigo samples.

ANTONIO DE LA CRUZ CASTILLO

Unfortunately that was a year of sorrow for us because our honorary member Antonio de la Cruz Castillo, a highly renowned representative of Spanish's color science community, passed away. He is considered a pioneer in the introduction of the experimental colorimetry in Spain after the Second World War, becoming the facto advisor of the first PhD Thesis defended in Spain about the Differential Colorimetry topic. He was the first Secretary of the Color Committee of Spain, and it is noticeable its participation in the foundational letter signed by the eighth national committees that declared the International Colo(u)r Association duly formed on 21st June 1967 in Washington, D.C.



Letter supporting the creation of AIC 50 years ago



Indigo (a) liquid and (b) paper samples, and classification groups examples



COSI intake 2 group photo celebrating the International Color Day at Granada

INTERNATIONAL COLOUR DAY

On March 21, 2017 we celebrated International Color Day in Granada. Prof Alain Tremeau (from Université Jean Monnet, France) delivered a lecture entitled "3D and Multispectral Imaging".



// SWEDEN //

Svenskt Färgcentrum

SSF - Swedish Colour Centre Foundation

AWARDED COLOUR (Prisad Färg)

Awarded Colour is an ongoing and the most important project within Swedish Colour Centre Foundation. It is a colour design competition for newly graduated and students of design, architecture, visual communication and art in Sweden.

Prisad Färg will put colour in focus and has been founded:

- to create a deeper interest in and awareness of the significance of colour
- to highlight how we can use colour
- to show good examples of colour use

Prisad Färg 2017:

The theme was HE, IT, SHE AND COLOUR and the competition task was to create a colour design from a global, social and critical anti oppressive perspective. Isabel Tresse, HDK, Göteborg was awarded 1st prize for her proposal SOM OM (AS IF). The prize ceremony of Prisad Färg 2017 was held at the Stockholm Furniture & Light Fair in February 2018.

We want to increase the knowledge of colour and make use of colour as an important element in the design process and create multiple tasks for design- and architecture students to highlight the interest and importance of colour. We have a network of teachers in almost all of the design- and architects schools in Sweden with the goal to raise the interest of colour education both for students and teachers. We meet once a year in a colour workshop for inspiration and exchange of experience.



The winners of Prisad Färg 2017 in the Stockholm Furniture & Light Fair.

In March we celebrated the International Colour Day with a Trend Talk "Colour Futures 2017" by Per Nimér, Design Manager at Akzo Nobel.



International Colour Day in March

MEMBER'S MEETINGS

In January we visited the exhibition "Nordic Light" at the Nordic Museum.

In April we had a presentation and study visit at Scandic Haymarket hotel. The hotel is inspired by the Art deco style from 1920 with a lot of glamour and fantastic colours from that time.

In May we arranged our spring excursion to the Chinese Pavillion in Drottningholm. "One July evening in 1753, Queen Lovisa Ulrika was surprised with a fantastic birthday present. In the far section of Drottningholm Palace Park, King Adolf Fredrik had secretly had a summer palace built in the Chinese style." At that time, all things Chinese were the latest fashion. The Chinese Pavilion, together with Drottningholm Palace and its grounds, is on UNESCO's World Heritage List.

In September we could listen to a talk by Jesper Nyrén, artist with focus on colour, light, and vision. He has done numerous exhibitions and artistic designs for public spaces. He works with a lot of color, patterns, shapes, and fields.

In October we arranged a guided tour to NKS, the new university hospital, which have a rich offering of both site-specific art and individual works which are placed both inside and outside.

In November we had our annual meeting at the newly opened Museum of furniture studies. The Museum's private collection currently consists of around 700 items, of which 500 are on display. The collection includes furniture by eminent Nordic and international designers from the end of the 19th century until today, with over 250 designers represented. It also features items of applied art that are representative of various different periods.

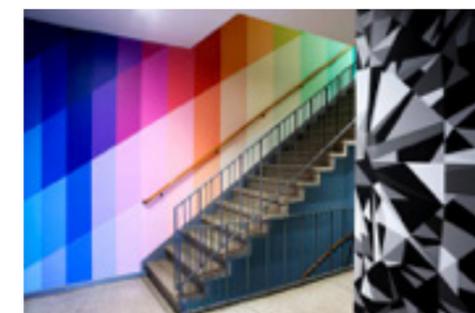
Submitted by Berit Bergström, Secretary, Swedish Colour Centre Foundation, www.colourspot.org



Nordic Light exhibition in January



Hay Market Hotel in May



September meeting. Wall decorations "Refraction" by Jesper Nyrén. Foto: Carl Kleiner



The Annual meeting

// SWITZERLAND //

Schweizerische Vereinigung für die Farbe

Pro/Colore

In 2017, pro/colore celebrated its 25th anniversary. The association's long history was greatly celebrated at a special event in Glarus. In 2017, 166 members supported pro/colore including individuals as well as firms and institutions, who count as single members. A summary of the events organized in 2017 is listed below.

26TH ORDINARY GENERAL ASSEMBLY

The 26th pro/colore Ordinary General Assembly was held on March 24th at the factory Chocolats Halba in Wallisellen. Marcel Baumann, Head of Innovation and Development, gave a talk about the production process and the use of natural food colours followed by a tasting of the manufacturer's products. Afterwards some members visited the exhibition Lüssi und Baumann – Farbwerke at the Obere Mühle in Dübendorf.

25TH ANNIVERSARY CELEBRATION

The second event on June 9th launched the 25th anniversary celebration of pro/colore in the Canton of Glarus. Invited by Jakob Kobelt-Jenny of the Swiss textile company Daniel Jenny & Co., pro/colore members visited the textile printing and weaving factories in Ennenda and Haslen, as well as the company-owned museum guided by former director of the museum Ruth Kobelt, who shared some absolutely beautiful books with textile swatch collections with amazingly vivid colours. Next there was a presentation by textile designer Sara Bartels and Hans Blesi, CEO, Mitloedi Textildruck AG. During the wonderful anniversary dinner, pro/colore board member and event organizer Alfred Nick looked back on pro/colore's long history. He gave special thanks to past pro/colore Presidents Bernhard Bärtsch and Ernesto Bergantini, who were present at the event, as well as to Vreny Haag, who helped organize the event, not to mention to all participants.

WORKSHOP IN BASEL

On September 28th, pro/colore held a workshop at the philosophicum im Ackermannshof in Basel, which had been jointly organized with the Deutsches Farbenzentrum e.V. DFZ. After an introduction by DFZ President Axel Buether, several talks by members of both associations were presented. Artist Jörg Niederberger showed his impressive work as a colour designer for architecture. Barbara Diethelm, Lascaux Colours & Restaura, talked about special colours with intense and unusual effects as applied in an office building. Thomas Klug, Keimfarben AG, was concerned about normative standards. And, Haus der Farbe presented their colour course programme. After lunch, Timo Rieke, professor for colour design at the University of Applied Sciences and Arts Hildesheim HAWK chaired a workshop preparing the DFZ Conference 2018 Colour in Crafts, Design and Architecture.

After an enjoyable evening walk along the Rhine, members visited the interactive show Experiment Farbe at the Voltahalle guided by exhibition organizers Matthias Rang and Nora Löbe. Truly fascinating scientific experiments ranged from exploring colourful shadows to colour phenomena caused by turbid media and experiencing huge projections of spectral colours. On the subsequent two days, members could attend a symposium on Goethe's colour theory held at the same venue.



Impressions of the exhibition Experiment Farbe at the Voltahalle in Basel. Photo: Marius Guirard

SWISS RADIO & TELEVISION TOUR

The fourth and last event of the year was organized by pro/colore board member Hanspeter Alder and took place on November 7th at Swiss Radio and Television SRF in Zurich. Reto Hunziker, SRF Head of Décor, explained colour schemes and interior design conceived by the technology and production centre TPC Switzerland AG. Of great interest were demonstrations on how to create amazing effects with different materials, lighting, and innovative technology by Roger Isenring, Head, Painting Division.

During 2017, six board meetings were on the agenda. pro/colore expresses sincere and warm gratitude to its members for their loyal and continued interest and to all participants who contributed to making the events a fabulous success! Detailed information on the events is available in the Lettera on the download page at www.procolore.ch.



Visit to Daniel Jenny & Co. Photo: Marius Guirard



A look behind the curtain at the studios and ateliers of tpc. Photo: Marius Guirard



// TAIWAN //

中華色彩學會

CAT - Color Association of Taiwan

REVIEW

2017 is a very fulfilling year to members of Taiwan Color Association (CAT). In this year, we had intensive collaboration with governmental and industrial partners, including the Industrial Technology Research Institute of Taiwan and Taiwan's representative color industries such as printing, textile, and display technology. Our goal is to establish and promote the very first official certification for recognizing color as a specialty in current professional assessment system. The color experts in CAT have been involved in editing teaching material, providing training courses and developing certification exams in the forms of written or operating. Besides the abundant preparation works for color profession certification, we held an annual member gathering and a conference addressing the study field of color, material and finishing (CMF). We also celebrated 321 International World Color Day, and participated AIC 2017 conference in Jeju, Korea. What a fruitful year!



Meeting 2017 / 03 / 17

The first expert meeting on preparing the iPAS Certification of Color planning and management. The committee members were from industry, academics and the ministry of economics in Taiwan. A consensus regarding the scope and functional role of the color certification was reached in this meeting.



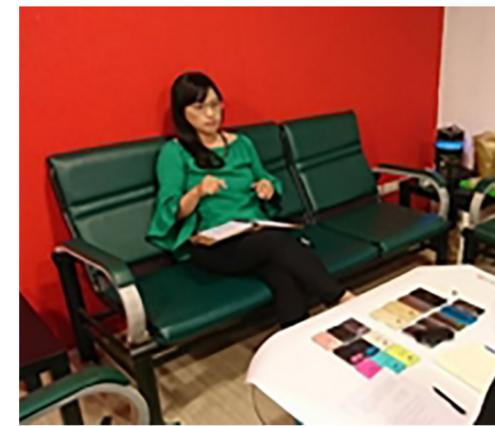
Meeting 2017 / 07 / 16

The editor and writers meeting on refining the teaching material for preparing the certification.



ICD 2017 / 03 / 21

The CAT celebrated International Color Day by spreading photos with the logo of Color Day in social media.



Interview 2017 / 07 / 22

The interview with the industrial color expert, the senior CMF designer SF Gao. During 2017 the CAT members had constructive interactions with various color industries by interviewing industrial experts and visiting their workspaces.



Election 2017 / 05 / 08

CAT held the seventh election and Professor I-Ping Chen was elected to be the President.



AIC 2017 Jeju, Korea

CAT members attended the AIC 2017 in Jeju, Korea. From left to right are professor WG Kuao, professor TJ Hsieh, CAT President IP Chen, AIC President TR Lee, professor PL Sun, and professor YM Ou.

// THAILAND //

The Color Group of Thailand CGT

REVIEW

The effort is still ongoing by the Color Research Center (CRC) of Rajamangala University of Technology Thanyaburi to encourage universities in Southeast Asia to get interest in the color science. In 2017, its staff visited Vietnam and Myanmar and Gadjah Mada University of Indonesia to deliver lectures and to organize a workshop how to use color measuring instruments, which was cooperated by a staff from Konica Minolta Singapore office. Prof. H. Yaguchi of Chiba University joined to the team. The lecture was given at Faculty of Agricultural Technology and active discussion was made how to apply the color science to agriculture. This year, 2018, the team went to National University of Laos, in Vientian, Laos. The team was consisted of Dr. C. Phuangsuwan, the CRC director, Dr. U. Takitjiviat, the vice dean of the faculty of Mass Communication Technology, Dr. W. Wuthiaotasan, Dr. K. Ratanakasemsuk, and Prof. M. Ikeda. They



Workshop at Gadjah Mada University

gave lectures about the color appearance, color effect on our life, the color perception by deaf, the color management, and the visual information processing, respectively. A special guest speaker this time was Prof Y. Yamauchi of Yamagata University, Japan, who presented on the evaluation of OLED. The lecture was given at the faculty of engineering and was well accepted and three staffs promised to present papers at the 4th Asia Color Association (ACA) conference to be held in Chiang Mai, Thailand, in December this year.

Such lecture tour was also conducted in Thailand as well. They went to Rajamangala University of Technology Srivichai at Songkhla province, south of Thailand. Audiences for these lectures were mostly students. This year they plan to visit Rajamangala University of Technology Isan, a university in the northeastern part of Thailand.

Color Science subject in Thailand is still not worldwide among Universities and Colleges but it is definitely developing and growing and has a good future potential. In an international session of the 49th conference of Color Science Association of Japan held at Osaka City University in June this year, nine papers were presented by staffs and students of the Color Research Center.

UPCOMING 4TH ACA CONFERENCE

Staffs of CRC are currently very busy for preparation of the 4th ACA. As one of the objectives of the ACA Conference is to hold conference economically, thus young researchers and students can attend without much financial difficulty. The conference will be held at Khum Phucome Hotel in Chiang Mai which offers reasonable rate with much cheaper than the regular fare. Congratulations to the CRC staff to

know that there are so far 120 papers submitted to the office. Among them about 50 papers are from Thailand, as a big number. Other papers come from the Color Science Association of Japan (about 40 papers), 19 papers from China, 5 from Taiwan, 3 from Indonesia and 1 from Iraque. Certainly, the color science is growing up in Southeast Asian countries.



Prof. Yamauchi



CRC With staffs of National University of Laos



CRC lecture at Gadjah Mada University in Indonesia



// UNITED STATES //

Inter-Society Color Council ISCC

MEETINGS

The 2017 ISCC Annual Meeting was a joint meeting with the Council for Optical Radiation Measurements (CORM) at Rensselaer Polytechnic Institute (RPI) in Troy, New York from July 30 – August 2. Approximately forty participants attended a very successful, informative and intimate conference. Information related to light in health and safety issues was discussed as well as changes to LED light sources in roadway lighting. There were six sessions at this conference: Display Metrology, Solid State Lighting (SSL) Technology and Metrology, Work of Emerging Professionals, Optical Properties of Materials, UV Radiometry and Current Research at National Metrology Institutes. Dr. Mariana Figueiro presented the research that has been done at the Lighting Research Center at Rensselaer Polytechnic Institute related to measuring and applying circadian



The Blue Hole

light. This research showed how light can be used to improve wellbeing for nursing home and dementia patients, shift workers and school aged children. On the last day, a tour of RPI's Lighting Research Center was provided to attendees of the conference. The 30,000-square foot facility is home to a wide array of research projects from how lighting can help with traffic and emergency vehicles to plant health and lighting solutions for eldercare patients in the home.

WEBINARS

ISCC's very successful online seminar series continued in 2017. It began with a webinar given on International Colour Day, March 21, 2017 by Dr. Mark Fairchild from the Munsell Color Science Lab at Rochester Institute of Technology. His presentation was entitled "From Photon to Brain: The Perception of Color". The second webinar was given on September 27, 2017 by Dr. Anthony Stanton from Carnegie Mellon University. The title of Tony's presentation was "Color in Digital Cinema". Both webinars were very successful attracting attendees from academia and industry, as well as across the United States and Europe. These webinars are free and open to anyone around the world. Each one lasts 60 minutes. Some of these presentations are available online. If you are interested in learning more about our webinars, please go to <https://iscc.org/SeminarSeries>. If you join our LinkedIn online community, you will get notices about the webinars.

PUBLICATIONS

The ISCC News was published quarterly in 2017. Dr. Michael Brill's Hue Angle columns featured such fascinating topics as "Nuances of Blue Vision" written by an anonymous author, "Recollections of a Vanishing Art" written by High Fairman referring to the practice of visual identification of colorants by their curve shapes, "Does a Mantis Shrimp have a Real Color Space?" and "The Medium Shrinks the Message: New 4-Color Optical Data Storage" both by Mike Brill. Carl Jennings from the University of Hawai'i continued his column entitled "Refractions: Seemingly Random Musings on Color" to pique our curiosity on such color topics as "Women Who Created a Chromatic World: Mary Gartside and Emily Noyes Vanderpoel", "There is a Word for That: What Nail Polish Can Teach Us About Color", "The Shape of Perception: The Art of James Turrell" and "Gray Matters: How Gray Changes How We Think". We also enjoy an entry from Ellen Carter who shares "In This Issue" for Color Research and Application. Another quarterly entry is "A Blast from the Past" written by Paula J. Alessi, which reminisces on valuable historic content from ISCC newsletters that were published 50 years ago. Two special feature articles in our 2017 series were a conversational interview given by Maggie Maggio as she asked Roy Osborne about his Books on Colour 1495 – 2015: History and Bibliography and an article, "Solar Eclipse Taken with a Smart Phone Camera", by Zhiling Xu on the historic total solar eclipse that took place throughout the United States on August 21, 2017. ISCC is pleased to offer our entire newsletter archive online at <https://iscc.org/Newsletter> from the years 1933 – 2016.



CORM and ISCC joint meeting members

AWARDS

The 2017 ISCC Nickerson Service Award was presented to Mr. John Conant, our Past President. John's steady stewardship and management of technical details have helped the ISCC thrive throughout his tenure of service in many positions on the Board of Directors. The most prestigious ISCC award, the Godlove Award, for long term contributions in the field of color was presented to Dr. Ellen Carter in August of 2017. Ellen has been a color scientist and consultant for such companies as Sherwin Williams and Konica Minolta. She has always been very active in ISCC starting with chairing the very strategic Project Committee 22 on Materials for Instrument Calibration and issuing the first report from that committee, serving on the Board of Directors and as ISCC President. Ellen is also very active in CIE Technical Committees as well as serving as Associate Director for Color in CIE Division 1 on Vision and Color. She is also an active member of ASTM, CORM, DCC, OSA, IS&T and CIE/USA. The aspect of Ellen's career for which she is best known is her role as the Editor in Chief of the journal, Color Research & Application. She has been the Editor of the journal since 1990. Dr. Carter had to deal with several large and controversial topics as well as many other small battles. The quality of the journal speaks to Dr. Carter's leadership and her ability to attract articles that cover the range of interest of the members of the ISCC.



Ellen Carter (middle) receiving the Godlove Award



**SG - CE has
210 members from
39 countries**

The cyanometer, constructed by the students of the Integrated Master in Architecture at Lisbon University, measuring the blueness of the sky

SG CE

COLOUR EDUCATION

Chairman: Robert Hirschler (Hungary and Brazil)

The most important event in 2017 was undoubtedly the AIC Congress in Korea, on the island of Jeju.

SGCE members gave valuable presentations on colour education: Esther Hagenlocher (Teaching Color), Ralf Weber (Space-Color-Light - Teaching Color in Interior Architectural Design), Douha Attia, Aber Alawad and Vien Cheung (Investigating Colour in Interior Design Education), Tien-Rein Lee (Towards Industrial and Academic Standards to Promote and Attest Color Knowledge), Paula Csillag, Ana Lucia Lupinacci and Robert Hirschler (Overview of Colour Education in Brazilian Universities) and Pablo Manyé (Chromology: Transdisciplinary Proposal of a New Science of Color Born from Pedagogical Experiences).

At the SG meeting Professors Alessandro Rizzi and Maurizio Rossi gave an interesting account on the Master program in Color Design and Technology at the Politecnico di Milano. The 2nd edition of the Master in Color Design and Technology, organized by Associazione Italiana Colore with the Politecnico di Milano and directed by Maurizio Rossi and Alessandro Rizzi started in March 2017.



The work by students of Renata Pompas and Lia Luzzatto on the colours of Palermo on the occasion of the 2017 International Colour Day



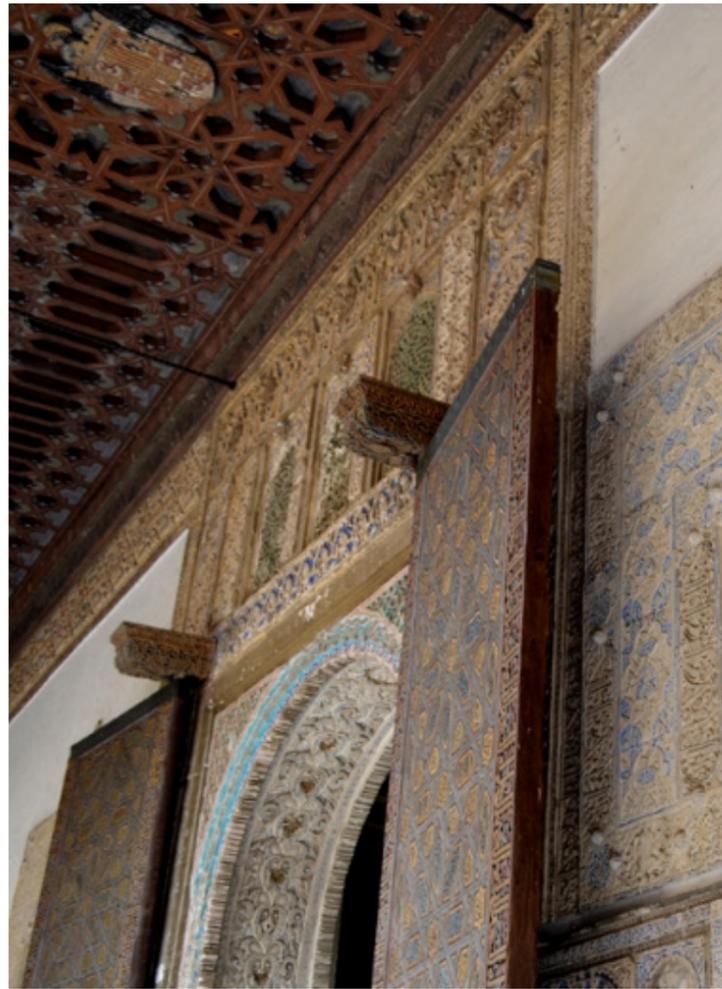
Students participating at the Master program in colour Design and Technology at the Politecnico di Milano

Renata Pompas and Lia Luzzatto, on occasion of the International Colour Day, asked to students of the Milan Academy of Communication Foundation, to celebrate it interpreting the colours of Palermo (Sicilian Italian city), declared "2018 Italian Capital of Culture". The students selected the most popular historical expressions on art, food and fashion - from the Phoenicians to Romans, Byzantines, Saracens and Normans - showing they colour influence into the contemporary Sicilian culture.

Jeannette Hanenburg, board member and co-founder of the Belgian Interdisciplinary Colour Association ICA gave a three-day colour course, called Art-Classes, to children in Brasil. The goal was to teach them that with just a few colours they could create many more colours, and also that they could express emotions through colours. At the end of the course the students made their own art-work.



Group of students at the Art-Classes three-day colour course in Florianopolis, SC, Brazil



**SG CVP has
90 members from
16 countries**

Figure 2: Plasterwork on the south-eastern wall of the Courtyard of the Maidens, Real Alcázar, Seville (Spain), where we can note that the original blue polychrome persists

SG CVP

COLOR VISION AND PSYCHOPHYSICS

Chairman: Katsunori Okajima (Japan)

Secretary: Manuel Melgosa (Spain)

The purpose of this Study Group (SG-CVP) is to discuss basic and practical studies on colour vision, colour appearance, colour discrimination, brightness perception of colours, colour preference and application tools for planning and testing universal colour designs, and to share useful information among the members. We deal with topics from colour vision model to universal colour design including colour perception of the elderly.

Activities:

1. Currently, the number of members of the SG is 90 from 16 countries.
2. We are planning to hold our meeting at AIC2019.
3. We are hosting the SG homepage using the following Internet site: <http://www.okajima-lab.ynu.ac.jp/CVPSG/>.
4. SG members published/presented some related papers to the SG. CIECAM02 (CIE Publication 159:2004) is the colour appearance model currently recommended by CIE, allowing viewing-dependent transforms from CIE tristimulus values to perceptual attribute correlates, and vice-versa. However, because of different flaws found in CIECAM02, CIE JTC 10 (D1/28) is working to propose a new colour appearance model



Figure 1: The 10 most harmonious (rows 1 and 2) and 10 most disharmonious (rows 3 and 4) two-pieces garments combinations in a vicenarian and a quinquagenarian model, respectively, from assessments made by male observers younger than 45 years

for colour management systems, which may be partly based on the model proposed in C. Li, Z. Li, Z. Wang, Y. Xu, M.R. Luo, G. Cui, M. Melgosa, M.H. Brill and M.R. Pointer, "Comprehensive color solutions: CAM16, CAT16 and CAM16-UCS", *Color Res. Appl.* 42, 703-718 (2017).

Mesopic vision is another hot topic currently considered by CIE. In C. Gao, Y. Xu, Z. Wang, M. Melgosa, M. Pointer, M.R. Luo, K. Xiao and C. Li, "Improved computation of the adaptation coefficient in the CIE system of mesopic photometry", *Opt. Express* 25, 18365-18377 (2017), new values of parameters a and b have been proposed for the CIE system of mesopic photometry MES2 [CIE Publication 191:2010], because from the original values, sometimes the CIE model has no solution or multi-solutions. In addition, a Bisection-Newton method is proposed to optimize convergence.

A panel of 56 Chinese observers with different ages and gender assessed the color harmony in two-pieces garments (jackets-trousers), considering a vicenarian and a quinquagenarian style (Figure 1). The experimental results were reported in M. Huang, G.

Cui, M. Melgosa, P.A. García, H. Liu, Y. Liu and M.R. Luo, "Color harmony in two-pieces garments", *Color Res. Appl.* 42, 498-511 (2017), proposing mathematical models and analyzing some of traditional color-harmony principles.

The performance of different protective treatments (consolidants) applied to traditional Islamic plasterworks under natural ageing conditions was analyzed in the paper F.J. Collado-Montero, A.I. Calero-Castillo, M. Melgosa and V.J. Medina, "Colorimetric evaluation of pictorial coatings in conservation of plasterworks from the Islamic tradition", *Studies in Conservation*, <https://doi.org/10.1080/00393630.2018.1460924>. This work started from analyses of the original remains in the Courtyard of the Maidens of the Real Alcázar in Seville, Spain (Figure 2), a World Heritage Site, and analyzed indoor and outdoor ageing (1 year) of a set of 56 test specimens produced with materials and techniques similar to the original ones. The conservation of decorative elements in this kind of monuments is currently proving difficult due to successive interventions, including re-polychroming, whitewashing, and aggressive cleaning, which have led to disintegration.

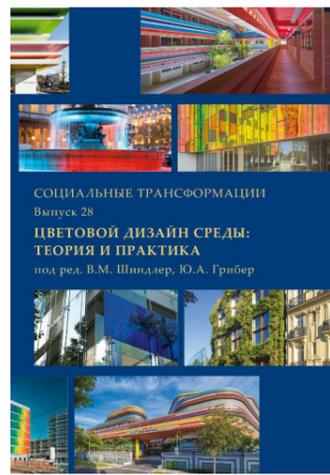
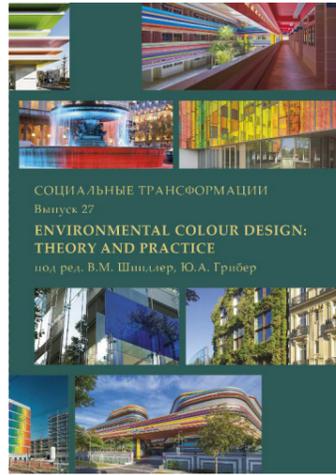


Jinghong Wang: Nan Liu Shao Village Plan, Hebei Province, China

New SG ECD members joining in 2017 included:

Pablo Manyé (BR)
Joy Jee Yoon Lim (CA)
Jinghong Wang (CN)
Ibrahim Elhady (EG)
Chrysi Fyttopoulou (GR),
Mário S. Ming Kong (PT),
Beichen Yu (UK),
Luan Nguyen (BE),
Xueqing Zhang (CN)

and as an honorary member
Prof. Jianming Song (CN)



Environmental Colour Design: Theory and Practice (Collection Social Transformations), Smolensk State University Press, Vol. 27, in Russian, Vol. 28

SG ECD

ENVIRONMENTAL COLOUR DESIGN

Co-Chair: Verena M. Schindler (Switzerland)

Co-Chair: Yulia A. Griber (Russia)

http://www.ad-chroma.com/index.php?article_id=21&clang=1



Good news! Beginning in 2017, Dr. Yulia Griber, Professor at Smolensk State University (RU), is co-chairing the Study Group on Environmental Colour Design.

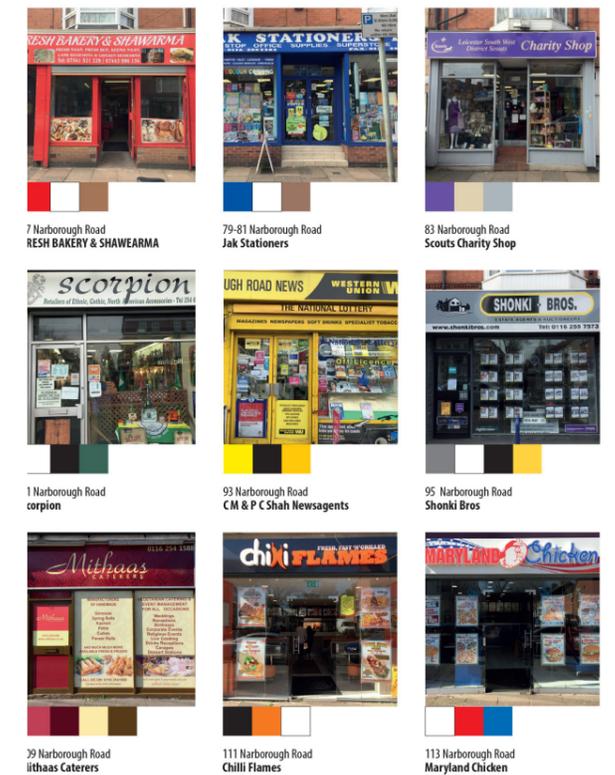
In 2017, we were delighted to celebrate the study group's 35th anniversary in a very special way by publishing a collection of twelve papers entitled Environmental Colour Design: Theory and Practice (Collection Social Transformations), Smolensk State University Press, Vol. 27, in Russian, Vol. 28. The book was presented during the ECD Meeting at AIC2017 in Jeju, Korea, followed by five talks. Johnny Jie Xu (UK) talked about "Colour Identity of Place: A Case Study of Narborough Road, Leicester, UK" including short interviews. Two talks discussed colour in China: Jinghong Wang (CN) gave interesting insights about "Colour: The Regional Style Language and Its Application," and Aiping Gou (CN) about "The Practice and Confusion in Chinese Urban Color Plan." Beichen Yu (UK) talked about "The Relationship Between Colour and the Urban Environment." Pedro Felipe Pinho Souza (BR) showed us exciting material on "Mise-en-scène: Colour in Dramatic Space" drawing attention to how in movies the colour of the environment can be completely manipulated and adapted to the intended content. Entailing the raising of several issues, the ensuing discussion was lively. Participants



Aiping Gou: Changzhou Xinbei Urban Color Plan, China

inquired into how many colours can be seen in an urban environment and how this relates to different levels, e.g., close or distant. Every city level has its own specific colour structure. Most important seems to be the interaction of colour and space at the level of users and how colour—its presence or absence—affects people. Another concern dealt with how colours should be used to design completely new cities that do not have tradition, history, or a spirit of the times. Another topic that was explored entailed what colours can be used to create a balance between nature and the built. An unsolved problem was how to record colours in big cities. Other interesting issues concerned questioning what principles should be applied to distinguish different city areas in urban design and planning: Should these principles be functional (industrial, residential) or relate to geography (e.g., mountains, rivers)? What colours and shades should be suggested for different zones? And, considering the context of cultural heritage, can colour be changed? Indeed architecture with a long history usually reveals itself to have many colour layers. More generally, the discussion pivoted around the question: What is environmental colour design today? Digital technologies have completely changed the perception of colour. Creating, perceiving, and thinking colour are important not only in real space, but also in models, renderings, and visuals. How can new technologies create new emotions, new chromatic atmospheres? How should urban screens and advertisements be integrated into urban space? A further question that was discussed entailed looking back to ask if environmental colour design had changed. There were affirmative responses: It has changed in that colour is more flexible today. The possibilities and choices are far greater. As well, a further change is the focus: the experience of colour is important. Environmental colour design is closely related to visual ergonomics in that it is intended to create a specific atmosphere and bring life to space and place. The digital and interactive performance of colour, however, is the most important change.

In January, a Special Issue on Colour and Light, edited by Verena M. Schindler, was published in JAIC, Vol. 17, including eleven papers by ECD members.



Johnny Jie Xu: Narborough Road, Leicester, UK



*SG LC has
160 members from
45 countries.*

*Twitter // @aic_lc
472 followers*

*Facebook // @languageofcolour
823 follows*

Dimitris Mylonas presenting their research on colour naming at AIC 2017

SG LC

LANGUAGE OF COLOR

Chairman: Dimitris Mylonas (UK)

Co-Chairman: Galina Paramei (UK)

<http://language-of-color.aic-color.org/>

The purpose of the AIC Study Group on the Language of Colour (SGLC) is to share information on and discuss studies on psycholinguistics, semantics and semiotics of colour names and relation of these to cognitive (neuro)science of colour perception. Key topics are colour cognition, colour naming, categorisation, colour memory, colour semantics and semiotics, and cross-cultural differences.

On our website we share latest news on the development of research on the language of colour and the related resources. Among these, we are delighted to host the French GPEM/PV work revisited' by Robert Sève 'NAMING THE COLORS: Color names designation from the colorimetric values'. New resources are welcome.

At the latest SGLC meeting at the 13th AIC Congress in Jeju, South Korea, 16-20 October 2017, three members of the SGLC - Valérie Bonnardel (UK), Dimitris Mylonas (UK) and Ivar Jung (Sweden) presented their work related to colour and language.

Valérie presented her research on word-colour associations in Indian populations. Three structures were extracted from the data related to natural objects, concepts and artificial objects corresponding to archetypical, socio-cultural and idiosyncratic associations respectively.

Ivar talked about his research on cross-cultural colour associations of 26 words in relation to the NCS colour samples. The words in question were of different categories and level of abstractedness, some more overtly related to colours (e.g. 'warm' and 'cold'); other words implying affective connotations (e.g. 'sorrow' and 'happiness'), while still other having idiosyncratic subjective meaning (e.g. 'me' and 'others').

In comparison, the 'edutainment' presentation of Dimitris was very different from a conventional talk format: symposium attendees were captivated by the 'Colours of Babel', a colour naming—matching card game, which explores recipient-design strategies in colour communication.

In addition, in the main programme of the congress, Yulia Griber (Russia), Begüm Ulusoy (Turkey) and Dimitris Mylonas presented their research on colour naming in Russian, Turkish and American English vs. British English respectively. The proceedings will become available at the official website of AIC.

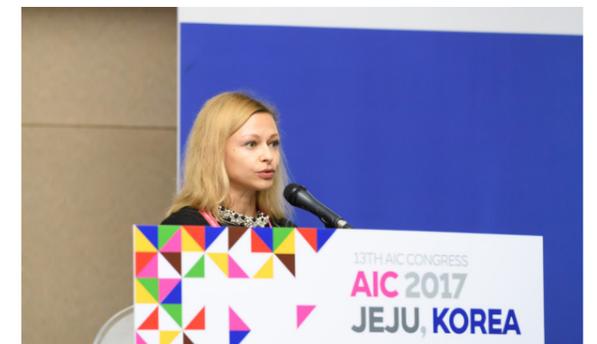
Further, as a result of collaboration between members of the SGLC recently several journal articles were published:

- Bimler D. & Bonnardel V. (2018). Age and gender effects on perceptual color scaling using triadic comparison. *JOSA A*, 35, B1-B10.
- Bimler D. & Uusküla M. (2018). Individual variations in color-concept space replicate across languages. *JOSA A*, 35, B184-B191.
- Paramei G.V., Gibber Y.A. & Mylonas D. (2018). An online colour naming experiment in Russian using Munsell colour samples. *Color Res. Appl.*, 43, 358-374.

The next SGLC meeting will take place at the ISCC-AIC Munsell Centennial Symposium, 11-15 June 2018, Boston, MA, USA. At it, Edward Gibson (MIT) will give a talk related to his et al.'s recent article 'Color naming across languages reflects color use' (*PNAS*, 2017).



Begüm Ulusoy presenting their research on colour naming at AIC 2017



Yulia Griber presenting their research on colour naming at AIC 2017



Members of SGLC playing the 'Colours of Babel' card game at AIC 2017

// REMEMBERING //

**IN
MEMORIAM**

Every year we remember those that we have lost but have left behind thier contributions to the color world.

by Roy Osborne

Yvonne Duplessis (1912-2017)

French writer and researcher, former chair of the Centre d'information de la couleur, Paris. After obtaining a bachelor's degree at the Sorbonne, she completed a higher-studies diploma in philosophy in 1938 on the subject of 'The colour of non-visual sensations'. She developed an interest in the symbolism of Surrealism, out of which came her doctoral thesis, 'Routes to surreality', submitted in 1945, which became the basis for her book, *Que sais-je?* (18 editions in 11 languages). In 1956, she began experiments on the interactions of non-visible colour radiation with the motor reactions of the body, later confirmed as dermo-optical sensitivity by Abram Novomeysky of the Moscow Institute of Psychology. Duplessis subsequently published *La Vision parapsychologique des couleurs* (1974), translated a year as *The Paranormal Perception of Colours*. She died in Paris aged 105.

William Howard Gass (1924-2017)

American novelist and professor of philosophy, who published an extended essay, *On Being Blue: A Philosophical Enquiry*, in 1991, described by Brian Dillon as 'a catalogue containing blue things, desires, concepts and usages' concerning 'his obsession with lists – blue jeans, blue stockings, blue movies ... melancholia and sex.' Gass studied at Ohio Wesleyan University, Delaware, and Cornell University, Ithaca. He later taught at Purdue University, West Lafayette, and Washington University, St Louis. He received numerous literary awards, and died on December 6, 2017.



William Gass (1924-2017)

Shirley Anne Koller (1921-2017)

American artist, curator and teacher specialising in colour theory. She studied at Cleveland Institute of Art and Case Western Reserve University, Ohio, and the American University in Washington, where she became a long-time resident of the Watergate Building. She was the last and one of the lesser known of the city's 'Color Field Painters' – Paul Reed having died in 2015. She taught primarily at the Northern Virginia College, Alexandria, as well as being an active contributor to the Artists' Equity Association and the American Association for the Advancement for Science (retiring at the age of 90). She latterly made colourfully painted sculptures, one of which was installed at Washington's Ballston Metro station (1990-92). Koller died in Providence, Rhode Island, on September 25, 2017. symbolism of Surrealism, out of which came her doctoral thesis, 'Routes to surreality', submitted in 1945, which became the basis for her book, *Que sais-je?* (18 editions in 11 languages).



Shirley Koller (1921-2017)

Tom Norman Cornsweet (1929-2017)

Tom Norman Cornsweet (1929-2017), American cognitive psychologist and inventor, known for his studies of visual perception and the development of ophthalmic instruments, including those for eye-tracking. He is perhaps best known for the Cornsweet (or Craik-O'Brien-Cornsweet) illusion, where the lighter side of a vertical division appears even lighter, and the darker side appears even darker. He first examines the effect in his *Visual Perception*, of 1970. Where several vertical divisions are repeated, Josef Albers (1963, Chapter 15) likens it to the fluting of a Doric column. Exaggerations of the illusion are also seen in Seurat's 1880s drawings and Klee's 1920s watercolours. Cornsweet studied at Cornell University, Ithaca, and Brown University, Providence. He was later professor of psychology at the University of California, Berkeley and Irvine, and at Stanford Research Institute. He died on November 11, 2017.



Donald Holden (1931-2017)

Donald Holden (1931-2017)

Californian-born realist painter who studied at the Art Students League and Columbia University, New York, and Ohio State University, Columbus. He later worked at Philadelphia College of Art and the Metropolitan Museum, and then as arts editor at *Fortune* magazine and at Watson-Guptill Publishers, where he published his *Whistler's Landscapes and Seascapes* (1969) and *The Color Book: A Comprehensive Guide* (1981, under the pseudonym *Wendon Blake*). Examples of his watercolours are in over 40 public collections. Holden died in Irvington, New York, on April 25, 2017.



Calvin Samuel McCamy (1924-2017)



Julian Stanczak (1928-2017)

Julian Stanczak (1928-2017)

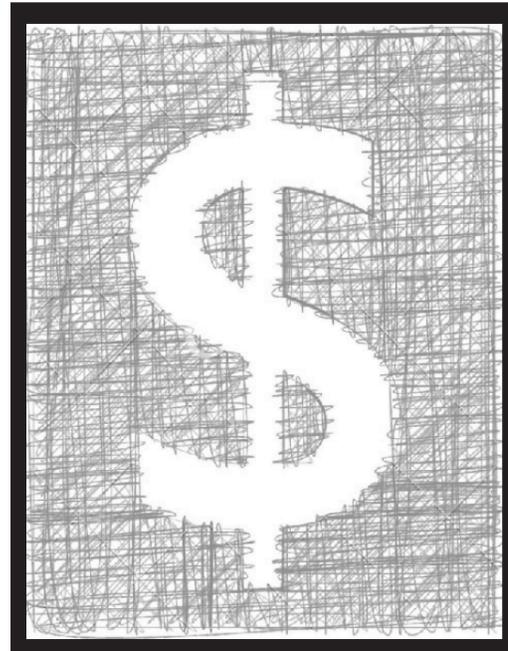
Polish-American painter and printmaker who studied at Cleveland Institute of Art, Ohio, and with Josef Albers at Yale University. In 1940 he lost the use of his right arm as a consequence of incarceration in a Siberian labour camp, before escaping and joining the Polish army-in-exile in Iran. He lived in London briefly before moving (in 1950) to Cleveland, later teaching at Cincinnati Academy of Art and then Cleveland Institute of Art. A highly inventive colourist, his paintings were entirely about subtle colour contrasts and illusions. A year before MOMA's *The Responsive Eye* exhibition (1965), Stanczak's first major New York show coined the term 'Optical Paintings' in its title. He died in Seven Hills, Ohio, on March 25, 2017.

Calvin Samuel McCamy (1924-2017)

The ISSC lost a dear friend and industrial color expert. Cal exemplified a tradition of precision and excellence in everything he did. He edited the National Bureau of Standards' *Precision Measurement and Calibration: Image Optics* (1972), and designed Macbeth's *ColorChecker Color Rendition Chart*™, used internationally to evaluate color imaging systems of all kinds. He aided the FBI with its analysis of the Zapruder photographs in their investigation of the assassination of President John F. Kennedy. He led the way in color standardization for the American National Standards Institute, the American Society for Testing and Materials, the International Commission on Illumination, and the International Organization for Standardization. Cal will be missed dearly; he died aged 93 on November 12, 2017, in Frederick, MD.

// FINANCIAL REPORT //

FINANCIAL REVIEW FOR 2017



Reconciliation statements of AIC bank and PayPal accounts for year 1-Jan-2017 to 31-Dec-2017

Prepared by the AIC 2016-17 Treasurer, Dr Lindsay MacDonald. All figures are in Australian dollars (AUD). Approved by AIC 2018-19 Auditors Berit Bergström and Jose Luis Caivano.

2017 Financial Status

AIC has three operating accounts: Business, Business Savings and PayPal.

TOTAL FUNDS for 2017 // AUD \$32,386.85

PayPal (Australia)

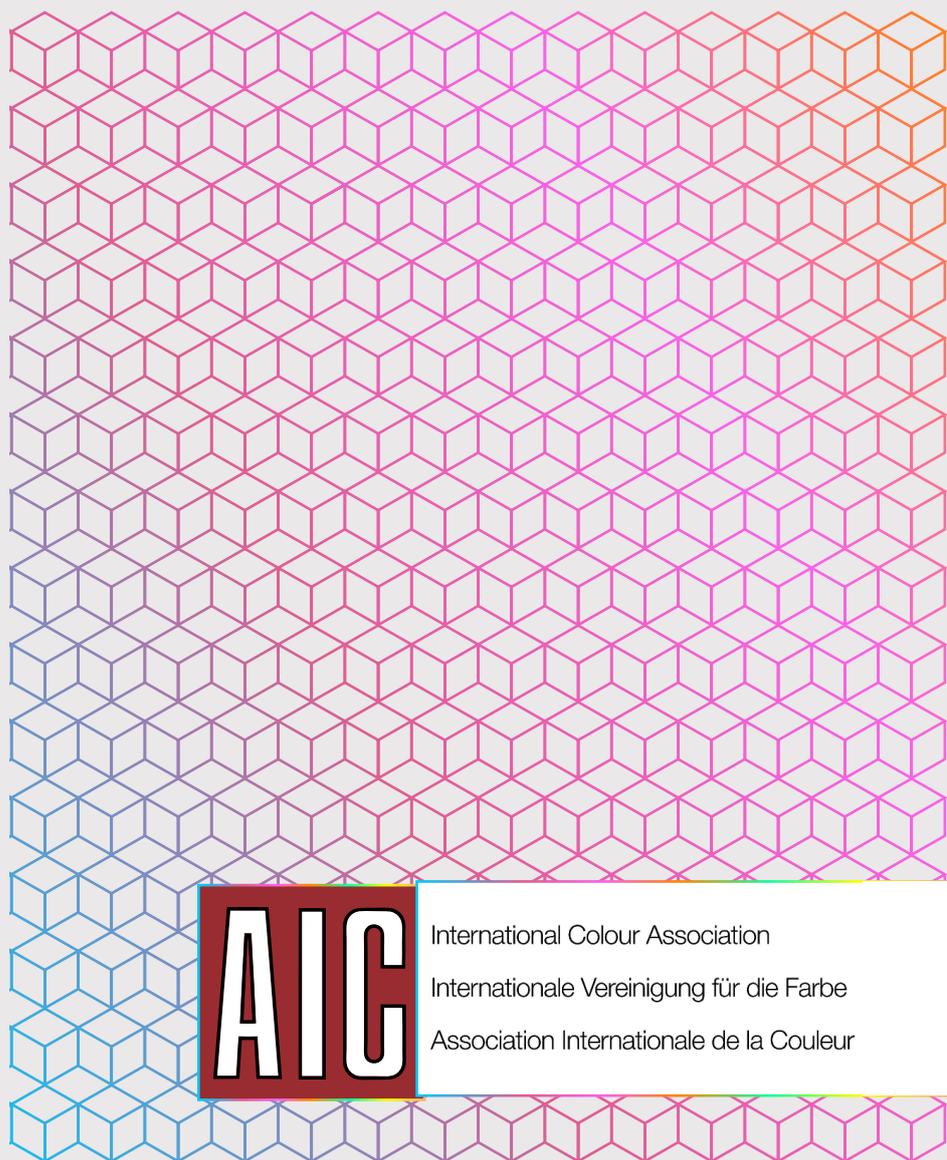
Opening Balance on 1st January 2017	685.59	
Income from members	+3,001.61	
Service Fees	-84.78	Transaction fee 3%
Expenses payment for document scanning	-947.22	DokuFactory EUR €609.22
Payment for AIC Wiki site hosting	-312.18	Helmut Leitner EUR €200.00
Payment for AIC website hosting	-143.54	1&1 Internet USD \$104.05
Closing Balance on 31st December 2017	AUD \$ 2,199.48	

St George Bank Freedom Business Current Account (Australia)

Opening Balance on 1st January 2017	7,979.16	
Income from members	+4,366.00	
Transfer to Savings Account	-4,000.00	Two payments of AUD \$2,000
Printing of Annual Report	-529.25	Print Domain UK GBP £267.00 + fees
Expenses payment for scanning	-235.88	DokuFactory EUR €121.45 + fees
Account Service Fees	-120.00	12 months @ AUD \$10/month
Closing Balance on 31st December 2017	AUD \$ 7,460.03	

St George Bank Business Access Saver Account (Australia)

Opening Balance on 1st January 2017	18,639.01	
Total Credits	+123.33	Bank interest (monthly)
TFN Withholding Tax	-35.00	Government tax
Transfer from Current Account	+4,000.00	Two payments of AUD \$2,000
Closing Balance on 31st December 2017	AUD \$ 22,727.34	



AIC

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