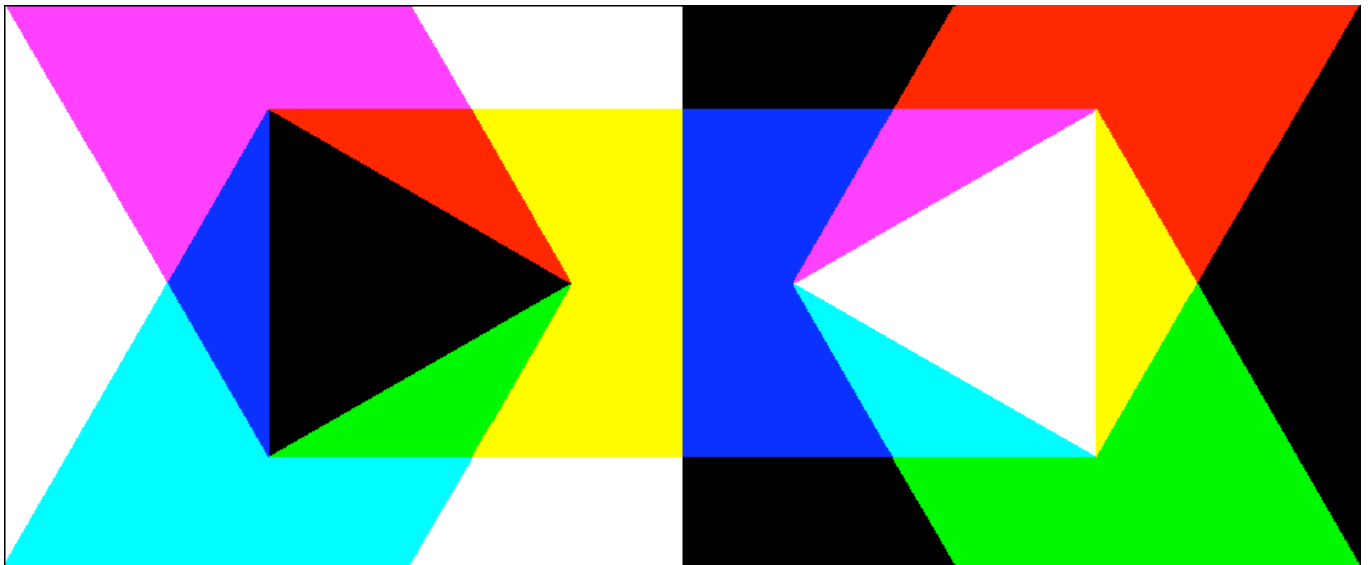




**ASSOCIATION INTERNATIONALE DE LA COULEUR
INTERNATIONALE VEREINIGUNG FÜR DIE FARBE
INTERNATIONAL COLOUR ASSOCIATION**

**NEWSLETTER
2009**



NO. 22

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EDITOR'S CORNER

With this Newsletter, we are returning to a one-year cycle. My AIC color highlights occurred in Stockholm at the mid-term meeting. Before the meeting, I spent the day at the Vasa Museum viewing the World's only surviving 17th century ship. The ship was affixed with incredible carvings, originally polychrome. There was a display of the pigments they identified and a reproduction of how these carvings might have appeared before the paint was removed by the ravages of time.



The Vasa, image taken from <http://www.vasamuseet.se/>.



Pigments identified by conservators used to color the Vasa.

My second colorful event was taking a course about the NCS system. It was a great opportunity to learn about this important color-order system in the location where it was developed.



Professor Berit Bergström at the NCS Colour Foundation.



Here I am performing my exercises.

A handwritten signature in black ink, which appears to be 'Roy S. Berns'.

Roy S. Berns
May 2009

PRESIDENT'S REPORT



Dear friends,

It is a pleasure for me to communicate again with you through this Newsletter 2009, which will be the last issue published during my term as AIC president.

In 2008 we had a very successful Interim Meeting in Stockholm, on the theme of “Color - effects and affects” which, according to my memory and the data I have, has been the AIC meeting with the highest number of participants and papers presented (excluding, of course, the full congresses), with around 46 oral presentations and 90 posters, and nearly 300 people. The organizing committee was chaired by our vice-president, Berit Bergström, who will become the next AIC president for the term 2010-2013, and Karin Fridell Anter, who was mainly in charge of the scientific program and edition of the book of abstracts and the proceedings, with the collaboration of Iman Kortbawi.

By mid March 2009, I received from Berit the sad news about the death of Anders Hård, who passed away on March 6 at the age of 86. I appreciated Anders very much, and I was very lucky to maintain various interesting conversations and exchange of letters with him, from which I always learned relevant things. Our last written communications, at the end of 2005, were about the Forsius diagrams, on which Anders provided me with a translation of the old Swedish text and a copy of the original Forsius’ manuscript. But the last time I met him personally was precisely at the AIC Interim Meeting 2008 in Stockholm, where we had a nice

conversation during a lunch. I will always remember Anders as a very passionate man.

For the next quadrennium 2010-2013 we have already approved most of the meetings and congress: the Interim Meeting 2010 in Mar del Plata, Argentina, on the theme “Color and food: from the farm to the table”, the Midterm Meeting 2011 in Zurich, Switzerland, on the theme “Interaction of colour and light in the arts and sciences”, and the full Congress 2013 in the United Kingdom. There is still a slot open for the Interim Meeting 2012, for which I invite regular members to send proposals. It would be nice to hold this meeting either in Asia or North America.

Since the previous Newsletter, two electronic bulletins were sent and posted on the web during 2008, and one more at the beginning of 2009. Also, an article about the AIC was added in the French Wikipedia, with the help of Verena M. Schindler. The last of our guidelines, on the use of the AIC symbol and name, was approved by the executive committee and published on the web, including the color specification of the AIC logo.

The AIC membership grew up with the incorporation of new individual members (Rita Rao and Pietro Zennaro, from Italy, Michel Cler, from France, Ole Ingolf Jensen Nyrén, from Sweden, Arne Valberg, from Norway, and Zena O’Connor, from Australia), and the International Association of Color Consultants/Designers (North American chapter) as associate member. From Brazil, a new color association, Pro-Cor, based in Sao Paulo, has been accepted into the AIC as a regular member, since the previous Brazilian Color Association ABCor ceased its activities. Welcome all to the AIC! I want also to point out that a national color association was created in Chile, which soon I hope will be incorporated into the AIC as a new regular member.

Please, keep in contact and feel free to send your comments, news and proposals. See you in Sydney 2009!

A handwritten signature in black ink, which appears to read 'José Luis Caivano'.

José Luis Caivano
AIC president

AIC ACCOUNTS

May 1st 2008- April 30th 2009

Opening Balance May 1st, 2008:

UBS	6.116,74	CHF
Cash	3.286,77	CHF
<hr/>		
Total	9.403,51	CHF

Incomes:

UBS	1.915,72	CHF
Cash	600,00	CHF
<hr/>		
Total	2.515,72	CHF

Expenditure:

UBS	2.143,79	CHF
Cash	0,00	CHF
<hr/>		
Total	2.143,79	CHF

Closing Balance April 30th, 2008:

UBS	5.888,67	CHF
Cash	3.886,77	CHF
<hr/>		
Total	9.775,44	CHF

Breakdown of major transactions in the period:

Income from members (USB):	1.910,62	CHF
Income from members (cash):	600,00	CHF
Bank interest:	5,10	CHF
Bank fees:	-136,40	CHF
2008 AIC Newsletter:	-2.007,39	CHF

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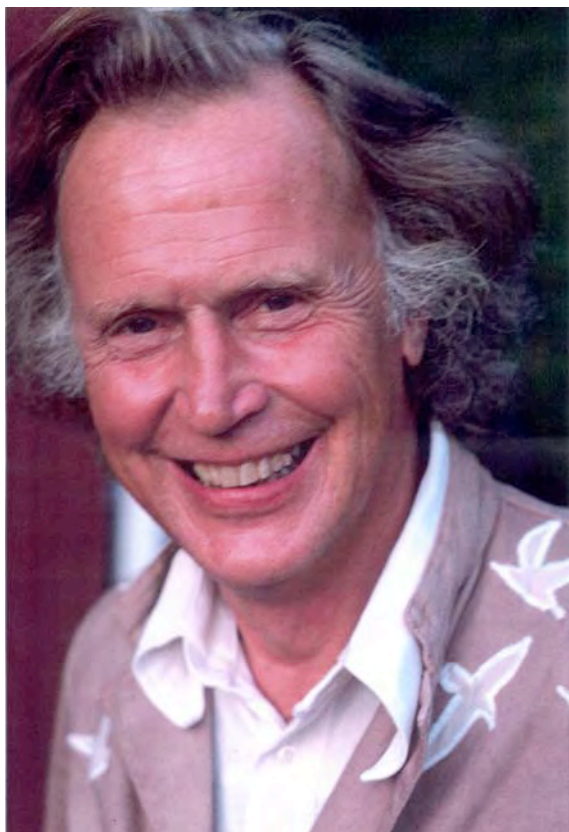
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IN MEMORIUM: ANDERS HÅRD



Doctor honoris causa and colour researcher Anders Hård passed away 6th of March 2009 at the age of 86 years old. The chief mourners are his four children with families.

In the early sixties he began research about how humans perceive colour. The aim was to develop a universal language to denote and describe colours. The unique approach – his phenomenological way of looking upon colours – made it possible for him to verify theories that Ewald Hering had published almost one hundred years earlier.

After several years of psychophysical research Anders Hård in collaboration with Gunnar Tonnquist and Lars Sivik were able to present a colour order and scaling system named the NCS – Natural Color System, and Colour Atlas illustrating the NCS system. The system became a national Swedish standard in 1979. Later it has been adopted as Norwegian, Spanish and South African national standards. Today NCS is the second most used colour system in the world. NCS has become the global language of colour, which was the dream of its inventors.

After the Scandinavian Institute AB was founded in 1978 he was working full time with colour research and

colour education. He continued to conduct interdisciplinary research on colour and spread knowledge about this subject to practitioners from a wide variety of fields. He was associate research professor at the environmental design department of the architectural section at Chalmers University of Technology. Research about colour did engage him far after he was retired.

Anders Hård was one of the initiators of the international colour research organisation AIC in the sixties, which had its first congress in Stockholm in 1969. He had his first paper about NCS at the Colour Congress in Luzern 1965 and since then he had lectured and given papers at most of the AIC Congresses and Midterm and Interim Meetings as long as he could. He arranged the most appreciated and memorable Forsius Symposium on Colour Systems and Environmental Colour Design in Kungälv 1983. During 1989 he also became Doctor of Honour at Chalmers University of Technology in Gothenburg.

For his scientific work, Anders Hård, together with Gunnar Tonnquist and Lars Sivik, received the most recognized prize in the colour world – the AIC Judd Award in 1997 with the words: Their decades lasting joint effort culminated in the NCS, the Natural Color System and its atlas. The research was characterized by the phenomenological analysis of the experience of color in the spirit of Hering.

He was curious and followed colour science to his death. He attended the AIC interim Meeting 2008 in Stockholm, and his latest work is published in the new book “Colour for Architecture today” by Byron Mikellides. Anders followed with interest the international expansion of NCS. Today we all at the Swedish Colour Centre Foundation feel sad he did not have the possibility to take part in the 30-years celebration which will be held at the International Colour Day 2009 on May 14th in Stockholm.

We keep his lifework in mind every day and today our thoughts will be with his family.

Mrs. Berit Bergström
Swedish Colour Centre Foundation
17 March, 2009

AIC 2008 STOCKHOLM, SWEDEN



An AIC Interim Meeting, “Colour – Effects & Affects,” was held June 15-18 2008 in Stockholm, Sweden.

The AIC Interim Meeting 2008 was hosted by the Swedish Colour Centre Foundation which is a regular member of the AIC and was one of eight signers of the AIC Charter document from June 21, 1967.

The meeting covered a wide range of topics and were specified as:

Different aspects of the effect of using colour in interior and exterior design like change of colour impressions depending on distance, light sources, colour combinations and interaction of colours etc.

Different aspects of how colours affect us like colour psychology, colour meaning, colour associations and colour emotions.

The Swedish Scientific Committee of nine members and the International Scientific Committee composed of 18 members from around the world handled the paper abstracts and the proceedings papers.

The venue, Hotel Rival, is a boutique hotel located in the heart of Stockholm, Södermalm. The hotel is shaped by the vision of its owner, Benny Andersson – a known songwriter and performer from the ABBA group – who wanted to recapture the glamour of the hotel from when it was originally opened as the Aston hotel in the 1930s.



Registration at the Hotel Rival.

The attendance was 264 registered participants, 33 accompanying persons from 34 different countries and from

all continents. There were 7 of our 9 sponsors represented in the exhibition next to the conference hall. CIE Division 1, Vision and Colour did hold their annual meeting June 14th and 15th at the Scandinavian Colour Institute; so many people could have the opportunity to attend the both meetings.

The opening ceremony started on Monday, June 15 with a welcome address from Berit Bergström, Conference Chair of AIC 2008, and Professor José Luis Caivano, the President of AIC declared the meeting as opened. The technical program was presented by Professor Karin Fridell Anter, Chair of the Scientific Program Committee.



Opening ceremony: (left to right) Berit Bergström, José Luis Caivano, and Karin Fridell Anter.

The opening ceremony was followed by two introductory lectures. The first speaker was Professor Gunnar Tonnquist with a presentation entitled “Colours – From Rays to Sensation” followed by Professor Karin Fridell Anter who introduced us to “The Colours of Stockholm”.



Professor Gunnar Tonnquist.

During the three days conference we could listen to presentations in the following different topics:

- Colour in interiors,
- Colour in architecture,
- Colour in landscape and urban space,
- Colour design for people with special needs,
- Light and colour,
- Colour design (products, textile, graphics, computer etc.),
- Colour appearance and visual illusions,
- Colour symbolism, associations, psychological and biological effects,
- Colour harmony and aesthetics,
- Colour in art and in culture, and
- Colour and education.

We also had a trans-disciplinary research session: Aspects of materiality

A number of papers were of good quality but did not fit into the conference theme. They were presented in a special poster session on Application of colour measurement and colour systems parallel to one of the seminars. The contributed papers around 125, were presented orally, in poster papers and in seminars.

Social events at AIC 2008 included a Welcome Reception on Sunday, June 14 at the premises of the Scandinavian Colour Institute AB, which also sponsored this event. On Monday evening the Stockholm City Council generously invited us all to a reception at the Stockholm City Hall. The City Hall is probably best known as the venue for the world-famous Nobel Banquet, which takes place on December 10 every year.



Stockholm City Hall.

On Tuesday the conference banquet dinner was held at Höglöftet, Skansen located on the island of Djurgården, a royal park near the centre of Stockholm.

The Closing Session featured suggestions of future AIC work and forthcoming AIC Meetings.

Professor José Luis Caivano, AIC President, thanked the Stockholm Organizing Committee for a successful AIC 2008 Interim Meeting in Stockholm.

The conference is documented in the Book of Abstract and the Book of Proceedings www.aic2008.org

FOR MORE INFORMATION

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Stockholm City Hall.

AIC 2009 SYDNEY, AUSTRALIA



The 11th AIC Congress to be held in Sydney from 27th September to 2nd October has received tremendous support from the International Colour Community. Two hundred and eighty eight Oral and Poster submissions have been received from 30 countries around the world across the full spectrum of colour studies. Eighty eight percent of the submissions are from International contributors.

OPENING KEYNOTE SPEAKERS

The Opening Keynote Address will be by Professor Justin Marshall, University of Queensland, and President of the Australian Coral Reef Society. Awards include UQ Vice Chancellors Excellence Award and the L'Oreal Art and Science Prize 2001.

Aboriginal Art: Invited Speaker Walangari Karntawarra, artist, musician and dancer was born in Alice Springs in 1961. He is of the Arrernte, Luritja, Walpiri, Yankuntjatjarra, Pintubi, Anmatjerre and Alyawarre peoples of the Central and Western Desert. Walangari sees his paintings as a form of communication between cultures. It was the legacy of his famous great-grandfather, Albert Namatjira and the inspiration of his grandfather Clifford Possum that encouraged him to paint. He has Bachelor of Arts and Bachelor of Education degrees and an Associate Diploma of Aboriginal Education.

REVIEW SESSION

There will be two new features at AIC 2009, the first is a Review Session covering the current state of the art in:

Colour Design the Environment: Invited Speaker Associate Professor Karin Fridell Anter Department of Architecture at the Royal Institute of Technology (KTH) in Stockholm

Colour Measurement: Invited Speaker Professor Roy Berns the Richard S. Hunter Professor in Color Science, Appearance, and Technology and Director of the Munsell Color Science Laboratory within the Center for Imaging Science at Rochester Institute of Technology, USA

Colour Vision: Invited Speaker Dr. Paul R. Martin Director of Research at the National Vision Research Institute of Australia and Professorial Research Fellow at the University of Melbourne.

SYMPOSIA

The second new feature comprises two Symposia:

Symposium 1: Good' colours, 'bad' colour where the focus will be on colour in art. Invited Speakers: Dr. John Gage, Fellow of the British Academy. He has taught history

of art at The University of East Anglia, Cambridge University and Yale. His book *Color and Culture* is a definitive work. Professor Roy Berns the Richard S. Hunter Professor in Color Science, Appearance, and Technology and Director of the Munsell Color Science Laboratory within the Center for Imaging Science at Rochester Institute of Technology, USA. Dr Maria Kubik, paintings conservator at the Art Gallery of Western Australia

Symposium 2: Appearance: phenomena and measurement. Learning from nature. Invited Speakers: Dr. Kevin Hellestrand PhD – Cardiologist and Underwater Marine Photographer. Ms. Chalisa Morrison, Senior Colour & Trim Designer, Toyota Style Australia, Melbourne, Australia. Ms. Gabi Kigle-Boeckler, Global Business Manager for BYK Gardner Germany responsible for the design and application of instruments for defining colour and appearance with focus on the automotive industry. Active member of international standard and industry organisations

AIC STUDY GROUPS

Colour Education: Chair Berit Bergstrom Vice President AIC. Invited Speaker: Associate Professor Galen Minah, Department of Architecture at the College of Built Environments, University of Washington, Seattle, Washington.

Environmental Design: Chair Verena Schindler – Co-Chair Dr. Leonard Oberascher. Invited Speaker: Professor Maria João Durão, Department of Drawing, Department of Architecture, Faculty of Architecture of Lisbon, Lisbon Technical University.

Visual Illusions and Effects: Chair Professor Osvaldo da Pos. Invited Speaker: Professor Akiyoshi Kitaoka Department of psychology at the College of Letters, Ritsumeikan University, Kyoto, Japan.

Color Perception of the Elderly: Chair Professor Katsunori Okajima. Invited Speaker: Professor Mitsuo Ikeda, Tokyo Institute of Technology, Kyoto University, and Ritsumeikan University in Japan. Currently he is the Sastrapichan Professor at Chulalongkorn University, Thailand

PAPERS

Following is a summary of the oral and poster papers received by topic:

Colour in Nature 7; Colour Physics 15; Colour Chemistry 7; Colour Vision 19; Colour Measurement 26; Applications Of Colour Science 10; Colour Imaging 41; Colour Psychology 43; Colour Communications 14; Colour Theory 14; Colour In Art, Design and the Built Environment 60; Colour in Clothing and Fashion 16; Appearance Measurement 10; Colour Education 6. The total is 288.

FOR MORE INFORMATION

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AIC 2010 MAR DEL PLATA, ARGENTINA



The Executive Committee of the Argentine Color Group (GAC, Grupo Argentino del Color) would like to invite you to the AIC Interim Meeting 2010, to be held in Mar del Plata, Argentina. The conference will be held September 29 to October 1, 2010.

CONFERENCE THEME

Color in food is a new theme for an AIC meeting. A variety of topics will be presented from technology to design, including architecture, biology, chemistry, engineering, physics, as well as social and economic aspects. related to the production and consumption of food, such as: colorimetry, color & appearance, advertisement, color technology, lighting, color communication, color instrumentation, commercial architecture, consumer expectations, color chemistry, color design, color preferences, color physics, packaging, color psychology, inasmuch as these aspects are related to food. The Argentine Color Group has the experience of having organized four national symposia about color in food so far: Buenos Aires 1982, 1984, Mar del Plata 2007, Resistencia 2009.

CONFERENCE VENUE



Downtown Mar del Plata.

Mar del Plata is a beautiful city at the shore of the South Atlantic Ocean, 400 kilometers to the South of Buenos Aires city. Being a tourist destination, it has plentiful of lodging facilities for all kind of budgets, a great variety of theaters, casino, and other attractions. Mar del Plata has a large harbor and important fisheries industries administrated mainly by an old Italian community that has been settled in the area since a century. Near Mar del Plata there is also a picturesque landscape area of hills, small mountains and lagoons.

ARRIVAL INTO MAR DEL PLATA:

By plane: arrival into Buenos Aires International Airport (Ezeiza), plus 1 hour connection to Bs.As. domestic airport (Jorge Newbery) and 1 hour flight to Mar del Plata airport.

By car: 4 hours from Buenos Aires to Mar del Plata, through Highway Nr. 2. By bus: 5 hours from Buenos Aires to Mar del Plata, through Highway Nr. 2.



Laguna de los Padres.

The conference will be held at Hotel Dos Reyes, downtown, 300 meters from the seashore.



The hotel is near this corner.

CONFERENCE COMMITTEE

General chair: Roberto Daniel Lozano (Color & Appearance SRL).

Scientific & papers committee: María del Pilar Buera (University of Buenos Aires), José Luis Caivano (Univ. of Bs.As. & National Research Council), Roberto Daniel Lozano (Color & Appearance SRL), María L. F. de Mattiello (National Research Council), John Hutchings (UK), Douglas B. MacDougall (UK), Angel Negueruela (Spain). AIC president and executive committee members by 2010. AIC study groups chairpersons by 2010. AIC Judd awardees and past AIC presidents. Other specialists on color and food to be invited.

General organizing committee: María Paula Giglio (Mar del Plata Univ.), Omar Burgos (President GAC), Cristina Manganiello (La Plata Univ.), Claudio Salvador (Leather Chemists Associat.), Carlos Prause (Litoral Univ.), Laura A. Quaintenne (Pampa Center), Emilia Rabuini (Pampa Center), Susana Geat (North-East Univ.), Anahí López (Technological Univ.), Salvador Melita (Cinema Univ.), Susana Cariola (Litoral Univ.), María Luisa Musso (Buenos Aires Univ.), Silvia Barrios (Buenos Aires).

FOR MORE INFORMATION

Prof. Omar Burgos
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AIC 2011 ZURICH, SWITZERLAND

The AIC Midterm Meeting will be held June 7 – 10, 2011 in Zurich, Switzerland, titled, 'INTERACTION OF COLOUR & LIGHT in the Arts and Sciences.'

CONFERENCE THEME

The theme deals with the interaction of colour and light in relation to different real and virtual platforms. The aim is to explore from a theoretical and practical point of view how the interaction of colour & light performs or is used to perform, how it plays a crucial role in the perception and conception of spaces and surfaces in different fields. Using terms and concepts, such as interaction and performance, and by privileging the materiality, mediality, and the interactive dimension of colour practices with light presentations will demonstrate how productive the Interaction of Colour & Light in real and virtual environments is. The fields of inquiry include design, art, media, architecture, theatre, dance, as well as education, colour science & technology, natural sciences, and psychology.

Keywords:

A-INTERACTION OF COLOUR & LIGHT IN SPACE

- 1-visual culture, design
- 2-interior architecture
- 3-architecture, urbanism
- 4-environment, landscaping

B-TEACHING INTERACTION OF COLOUR & LIGHT

- 1-instructional projects
- 2-methodology/theory
- 3-linguistics/literature
- 4-static and electronic media
- 5-multimedia

C-INTERACTION OF COLOUR & LIGHT: SETTING THE STAGE

- 1-museography
- 2-scenography
- 3-techniques of staging
- 4-theatre, body
- 5-dance, movement
- 6-concert, sound

D-LIGHT INTERACTING WITH COLOURED SURFACES

- 1-materiality
- 2-texture
- 3-transparency
- 4-translucency
- 5-reflection

E-INTERACTION OF COLOUR & LIGHT IN SCIENCE & TECHNOLOGY

- 1-colour science
- 2-colour measurement, reflectance, transmittance, absorbance
- 3-digital colour processing
- 4-colour appearance
- 5-colour in computer vision
- 6-colour in computer graphics
- 7-multimedia in colour imaging

F-PSYCHOLOGICAL ASPECTS OF COLOUR & LIGHT INTERACTING

- 1-colour psychophysics
- 2-colour perception
- 3-physiology

CONFERENCE HOST



The conference will be hosted by the Swiss Colour Association pro/colore (see Report under "Switzerland").

FOR MORE INFORMATION

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ARGENTINA

THE ARGENTINE COLOR GROUP

HISTORY

The Argentine Color Group (Grupo Argentino Color, GAC) was founded in 1980, and brings together institutions and individuals who share an interest in the study of color science and color applications. The goals of the Group are to encourage research on problems related to color, to promote the exchange of information with similar associations abroad, to manage a documentation center, and to integrate the different fields from which the study of color can be addressed: science, technology, design and education. There is also strong interest in the Group from the artistic community in the diffusion of their works. For further information, please visit our website:

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

EXHIBITION OF VISUAL ARTS 2008

With the participation of 25 artists who are members of the Argentine Color Group, and coordinated by Silvia Barrios, Daniel Delgado, Eugenia Bravo, and Omar Burgos, this exhibition was presented in various cities of Argentina along the year:

January: Municipal Center of Villa Gesell, Buenos Aires province.

February: Historical Museum of the Province of Buenos Aires Bank, at Buenos Aires city.

March: City Hall and House of Culture, Las Toscas city, province of Santa Fe.

April: White Hall, Municipality of Esperanza, province of Santa Fe.

May: Culture Hall, Secretary of Culture, San Salvador de Jujuy.

July: Provincial Museum of Arts, Santa Rosa city, province of La Pampa, and Culture House, Saliqueló, province of Buenos Aires.

August: Culture Hall, Tres Lomas city, province of Buenos Aires.

September: Secretary of Culture and Tourism, province of Tucumán.

October: Provincial Museum of Fine Arts, Santa Fe city, and House of Culture, Las Flores city, province of Buenos Aires.

November: Museum of Art "Juan Yaparí", Posadas city, province of Misiones.

ARGENCOLOR 2008, THE 9TH ARGENTINE COLOR CONGRESS

Was held from 1 to 3 October 2008 in Santa Fe city, at the School of Architecture, Design and Urbanism of the National University of Litoral. The main topics were: color in art and culture, color in food, color in architecture and design, color technology, color vision, and color education.

Participants from different Argentine provinces, as well as from Brazil, Chile, Mexico, Venezuela, and Italy presented 7 plenary lectures, 63 oral papers, and 16 posters.



Conference poster.

BOOKS PUBLISHED:

Color: architecture, design, arts, and culture [in Spanish], J. Caivano and M. López, (eds.), with a selection of papers and lectures presented at ArgenColor 2006, the 8th National Congress. Published by GAC and Nobuko, Buenos Aires, 2008. ISBN 978-987-24707-1-5

Color: science, technology, and education [in Spanish], J. Caivano and M. López, (eds.), with a selection of papers and lectures presented at ArgenColor 2006, the 8th National Congress. Published by GAC and Nobuko, Buenos Aires, 2008. ISBN 978-987-24707-0-8

NEW EXECUTIVE COMMITTEE OF THE ARGENTINE COLOR GROUP:

After the Assembly held in 2008, the executive committee is now composed of:

President: Omar Burgos (until September 2012)

Vice-president: Cristina Manganiello (until September 2010)

Secretary: Claudio Salvador (until September 2012)

Vice-secretary: Carlos Prause (until September 2010)

Treasurer: Laura Quaintenne (until September 2010)

Vice-treasurer: Emilia Rabuini (until September 2012)

Ordinary members: Susana Geat, Salvador Melita, María Luisa Musso (until September 2010); Anahí López, Susana Cariola, Silvia Barrios (until September 2012)

Auditors: Roberto D. Lozano, María Paula Giglio, Jorge O. Sánchez

CONTACT INFORMATION

Prof. Omar Burgos (GAC President)

Grupo Argentino del Color

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AUSTRALIA

COLOUR SOCIETY OF AUSTRALIA

HISTORY

The Colour Society of Australia was inaugurated in 1987 and has Divisions in New South Wales, Victoria, Western Australia, South Australia, Queensland and Tasmania. The membership is drawn from people whose work and interests involve colour.

Our objectives are:

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

ACTIVITIES

The highlight of the last couple of years was our very successful biennial conference "The Colours of Queensland" held on the Gold Coast in Queensland in 2007 and planned and executed by the Queensland Division. Activity in Western Australia and New South Wales is very evident. The Victoria Division hosted 5 meetings last year. In addition the individual State committees continued to organise successful monthly or bi-monthly technical and social meetings for the benefit of members and potential members.

Emphasis Nationally has been on planning for AIC'09. The Committee is working well and are very encouraged by the large number and diversity of papers being offered. For the first time the majority of these will be subject to formal academic refereeing.

PUBLICATIONS

SPECTRUM, the Journal of the Colour Society of Australia, is published three times a year and continues to be of exceptionally high quality. It contains information about events and developments within the Society and the international colour arena, as well as including the texts of

papers delivered at the national conferences and divisional meetings and encourages the submission of original material. Significant improvements to its appearance have occurred with the provision of Colourful Covers. Plans are in hand for Spectrum to go Newsletter style Digital and it will be published via email and the website from 2009 onwards to save increasingly expensive printing and postage costs.

INTERNATIONAL LINKS

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

We are delighted that the AIC invited us to host the 2009 Congress in Sydney, and look forward to welcoming many AIC delegates and guests to our shores then. Mr. Nick Harkness, Chair of the AIC'09 organising Committee, is on the Executive of the AIC.

EXECUTIVE COMMITTEE:

The National Executive of The Colour Society of Australia now resides in Victoria. The President is Mr. Derek Grantham (Vic), Vice-President Rex Hesline (from the Tasmania Division, hosts of the 2011 biennial conference), National Secretary Ms. Glenys Thompson and National Treasurer Dr. Peter McGinley. Ms. Annamarie Di Cara is Past President.

Significant progress has been made with the new National Website

(www.coloursociety.org.au) now up and running and receiving very favourable comments.

CONTACT INFORMATION

Ken Pidgeon

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BULGARIA, REPUBLIC OF

COLOR GROUP – BULGARIA (CGB)

HISTORY

The Color Group of Bulgaria pursues activities to implement its program for promoting and developing scientific knowledge in the field of color, color science and instrumental measurements.

ACTIVITIES

During the period, the following scientific and practical manifestations occurred:

1. In September 2008, the Second International Conference BALKANCOLOR 2 “Colors in All Directions,” organized by the Color Group of Bulgaria, was held in the International Home of Scientists “Frédéric Joliot-Curie” in the resort St. St. Constantine and Elena – Varna, Bulgaria. About 50 lecturers and attendees from Bulgaria and abroad (Argentina, Austria, Croatia, France, Germany, Hungary, Ireland, Poland, Serbia, Slovakia and USA) participated in the conference. Their lectures and posters were presented in the following sections: Color measurement, Color and Architecture, Color and Design, Color in Art, Color and Education, Color and Textile, Color Perception. A student plein-air with more than 20 participants from leading high schools of art in Bulgaria was also held, together with a competition for students (color projects and color exercises), as well as an exhibition of plein-air and free artworks and of traditional regional embroidery. Proceedings of science and cultural events organized by the Color Group of Bulgaria were also shown. The scientific forum ended by a round table, where actual problems connected with the theory of color, precise color measurements, the teaching of colors, etc., were discussed. Some significant problems related to the organizing of international meetings were also considered.

2. In October 2008, the Color Group of Bulgaria was one of the main co-organizers, together with the National Academy of Fine Arts, the Union of Architects in Bulgaria and the Union of Bulgarian Artists, of an unique event in the cultural life of Sofia and Bulgaria – the First Biennale of Bulgarian Design, held on the all four levels of the exhibition halls of the Union of Bulgarian Artists under the motto “The Art of Creating Quality of Life.” More than 300 authors participated in the Biennale, most of them young Bulgarian designers, and amongst them several members of the Color Group of Bulgaria, who are working as industrial designers. There were three sections in the Biennale:

Education, Concept and Product design. The scope of application of the exhibition comprised: Industrial design; Product design and Production tool design; Living environment design; Graphic design, Print design, and Web design. A competent international jury awarded more than 30 prizes. Special prizes were also awarded by the Union of Bulgarian Artists, the Union of Architects in Bulgaria, the Chamber of Architects, by companies and specialized magazines. The Grand Prix was awarded to Andrean Neshev for his book “Visual Cut – Bulgaria”, a visual identity of Bulgaria through the work of 22 designers, all working in the field of communicative design: posters, books, product design, illustration, architecture. The Biennale was accompanied by an international conference, where more than 20 lectures by professionals working in the field of design from four countries were presented. Dimiter Dobrevski, the President of Color Group – Bulgaria, presented a lecture on the topic “Color in Design”, which oriented the young attendants to the expressive power of color. The Biennale ended by the Night of Design, first of its genre in Bulgaria, where many design project were presented to the audience.

3. The Color Group of Bulgaria continued the work of its publishing team, which is the editor of the bulletin of CGB, of books and compact disks containing the proceedings of seminars and conferences, and of compact disks presenting the works of specialists, who are members of the Color Group of Bulgaria, and amongst them, the newest issue of the “Color library” Series: “Color feelings”, an electronic catalog of the works of the artist Svetla Hristova. Exhibitions of painters, who are members of the Color Group of Bulgaria, were often held.

CONTACT INFORMATION

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Secretary: Mariana Nenova

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FRANCE

CENTRE FRANÇAIS DE LA COULEUR

ACTIVITIES

This year was, to a large extent, devoted to consolidating the project launched in the previous years. Significant progress has been achieved, for instance:

February 8, 2008

Colors and Crafts in Montauban, South of France by Céline CAUMON (Communication Director) Director of the Academic institute "Color, Image, Design", Toulouse University (Le Mirail), with the participation of Annie MOLLARD-DESFOUR and Claudette BERSET.

March 10, 2008

Pearls: color structure appearance and modeling, one day workshop and lectures organized by Patrick CALLET about the exhibition "Pearls" at the National Museum of Natural History Paris, CFC and GDR CNRS (CNRS - Centre National de la Recherche Scientifique, National Science and Research Comity GDR Groupement de recherche – Thematic Research comity within the CNRS.) 2602 "Couleur et matériaux à effets visuels" Color and materials for visual purposes" (visit commented by Emmanuel FRITSCH, gemmologist, Jean Rouxel's Institute in Nantes. Alain BARONNET, of CRM CNRS in Marseilles, and the chief curator of the exhibition, Christian MILET); (Alain BARONNET: "le monde bio minéral des mollusques: de la coquille à l'atome"; (the bio-mineral world of molluscs: from shell to atom) Sylvain DUMAZET: "Computer modeling of the visual appearance of the pearls", and Christian MILET: "Principles of the "Pearls" exhibition).

March 24-29, 2008

Co-organization of the annual "**École de printemps**" (*Spring School*) in Roussillon, in partnership with CNRS and OKHRA, presentation of communications by several members of CFC (Barbara BLIN-BARROIS, Michel BLAY, Jen-Paul LECLERCQ, Patrick CALLET and Michel INDERGAND (which was President of our association during several years).

April 16, 2008

"Color and Colorimetry" CFC Science comity Meeting organized by (Robert SEVE) on, in partnership with the GDR Color of CNRS, Auditorium of the "National Research centre for restoration of the French museums", Le Louvre, Paris. Speakers: Robert SEVE (which was President of our association during several years), Daniel DUPONT and Michel INDERGAND (which was President of our association during several years)

July 10 -13, 2008

"Les Chromatiques" in Fos-sur-Mer **Purple issue**. Color festival, science fair and lectures: "Lights on the lost Colors" by Patrick CALLET and: "Purple Anthocyan and other pigments, colors as chameleons" by Claudette BERSET

Exhibitions, scientific lectures, and various presentations within a large exhibition and congress "Couleurs sur Corps" ("Colors on Bodies"), an event organized by CNRS with the assistance of many members of CFC: Annie MOLLARD-DESFOUR, Martine ROYER-VALENTIN, Adeline GRAND-CLEMENT, and Okhra.

PUBLICATIONS

"Primaire" (Primary) n° 167, June 2008; "Primaire" (Primary) n° 168, December 2008) version paper, like two "Letter color, the being color" support Internet (Celine CAUMON).

Works, reviews, articles of the various members of CFC, published in personal capacity but mentioning the membership of their authors to CFC.

"Sepia", Colors make-ups, created by Guy LECERF, Administrator of the CFC which was President of our association during several years. This number, like the preceding numbers, is made up many articles signed by members of CFC Céline CAUMON, Annie MOLLARD-DESFOUR, Claudette BERSET). ° Retrouver colors lost of lying by Patrick CALLET and Ariane GENTY. Review Pour la Science, (French edition of National Scientific) June 2008. ° The 5th volume of the "Dictionnaire de la couleur. Mots et expressions- XXe-XXIe s. Le Blanc" (Dictionary of Color. Words and expressions. XXe-XXIe s. The White" (Annie MOLLARD-DESFOUR). ... And always the participation of Robert SEVE, which was President of our association during several years coordinating AFNOR comity for standardization and responsible for Colorimetry Standard X 08-012.

Patrick CALLET takes the succession of Robert SEVE as associated Editor with the review "Color Research and Application".

Echoes in the press and medias:

The conference "Colors on Body", the publications or conferences of members of CFC have been widely reported by the media: Internet sites, Newspaper of CNRS, newspapers, radios, television (in particular Public Senate: Médecis library, "fashion", etc.)

OFFICERS

Annie MOLLARD-DESFOUR Director,
Patrick CALLET, Barbara BLIN-BARROIS, Vice-President.

GREAT BRITAIN

THE COLOUR GROUP (GREAT BRITAIN)

During the past year the Group has continued its monthly programme of meetings for members, with eight in London and three elsewhere in the UK. The venues included the prestigious lecture theatre at the V&A Museum in South Kensington, the newly refurbished Victoria Building at the University of Liverpool, and the Royal College of Art. In addition the annual vision science meeting was held at the Institute of Ophthalmology, but most meetings took place, as usual, at the City University in London.



At the V&A meeting the chairperson Elza Tantcheva (left) and speaker Rachel Turnbull, Paintings Conservator, answer questions on her talk 'Smalt – Brilliance of Colour in an Ephemeral Nature'.

Titles of topics covered at meetings included *When Vision Explores Art*, *Colour Conservation at the V&A* and *Design and Colour: Current Research and Future Directions*, the last held jointly with the Society of Dyers and Colourists at the Clothworkers' Court at the University of Leeds. A joint all-day meeting at the City University was entitled *Pupil Informatics: Pupil Response Mechanisms, Visual Performance & Clinical Applications*.

The Group's interest in colour education has been a major focus of activity during the year. Firstly, its programme of travel grants to assist postgraduate students to attend meetings and disseminate their work continued with the presentation of six WD Wright and two MacDonald-Green Awards. The eight selected students also presented their work to the Group in November and received feedback on their work and presentation style. A small prize was awarded to the presentation judged to be the best. This year, as the meeting was on November 5th, the date that commemorates the abortive Gun Powder Plot to blow up the Houses of Parliament, the prize was a box of fireworks – five dangerous-looking bright orange Sky Scraper rockets.

Secondly, to emphasise the importance of colour in all aspects of life, the Group felt that secondary school children should not be omitted from its programmes. Two Colour Group Teaching Fellows were duly appointed, whose duties are to deliver lectures on the wonders of colour to senior school students in Southern Scotland and South-East England. Over a thousand pupils have so far been involved and great interest in colour has been fostered as a result. The first duty of the two Fellows was to make their presentations to the Colour Group at a pre-Christmas meeting where their lectures were greatly enjoyed by members.



Teaching Fellow Prof Ron Douglas makes a point about stars.



Teaching Fellow Dr. Ben Craven demonstrates additive colour mixing.

The year 2008 has seen the delivery of two award lectures sponsored by the Group. In January at the Institute of Ophthalmology, London, the annual Palmer Lecture for 2008 was delivered by Professor Pieter Walraven (The Netherlands) entitled *The History and Theory of the Chromatic Stiles-Crawford Effect*.

During February, the Group's Newton Medal was awarded to Prof Roy S Berns (Rochester Institute of Technology, New York) who spoke about *The Use of Color Science in Art Conservation*.



Roy Berns (right) received the Newton Medal from the Group's Chairman, Prof Lindsay MacDonald.

Together with the Society of Dyers and Colourists (SDC), the Colour Group has formed a committee to plan the organisation of the 12th International Congress of the AIC to be held in the UK in 2013. Preparations are, of course, at an early stage and currently work is proceeding on assessing possible locations for the meeting and a competition for a suitable logo.

HUNGARY

HUNGARIAN NATIONAL COLOUR COMMITTEE

BRIEF HISTORY

The Hungarian National Colour Committee has been founded in 1969. Its expert committees are as follows: Colour Classification, Coloured Vision, Colour Representation, Colour Measurement, Colour Environment Design, Colour Psychology, Colour Training, Colour Application. From 1980 on it operates within the framework of the Hungarian Academy of Sciences as an International Committee. From 1982 on some of its expert committees have founded independent societies. Hungarian National Colour Committee takes an active role in the life of AIC, from its foundation on: in 1 quadrennial cycle there was a Hungarian vice chairman, in 2 cycles there were 2 Hungarian members of the Executive Committee, there are members in all AIC Study Groups, and for 1 cycle we gave the chair for the Colour Education Study Group. AIC Midterm Conferences have been organized by us 3 times. The 7th Congress of AIC has been organized by us in Budapest.

EXECUTIVE COMMITTEE

Chairman:

Prof. Antal Nemcsics (Chair of Colour Science MTASzE)

Secretary:

Dr. János Zana

Members:

Prof. János Schanda (Chair of Society of Informatics MTAVEAB)

Mr. László Miskei (Chair of Color and Light Foundation SzFNA)

Prof. László Neumann

Prof. Ákos Nemcsics

Mr. Béla Tilless (Chair of Society of Fine Arts and Applied Artists MKISz)

Mrs. Ildikó Rozsovits

Mr. Árpád Szende (Chair of Colour Dynamics (ÉTESz)

Mrs. Ágnes Stáhl (Chair of Society of Coloristics (MKEK)

Prof. György Ábrahám

MEETINGS

Lux et Color Veszpremiensis, Veszprém, Pannon Műszaki Egyetem (Pannon University of Polytechnics), November 6. Chairperson of Organisatory Committee: Prof. János Schanda. Topics: color identification, information technology, investigation of light sources, color reproduction. Number of participants: 73.

Harmonia és Környezet Szimpózium, (Symposium of Harmony and Environment) Budapest, Hall of the Association of Hungarian Artists and Applied Artists, Oktober 30.. Chairperson of Organisatory Committee: Mr. László Miskei. Topics: He is harmonic townscape. Harmony and disharmony in the built up environment. The harmony of spaces is inner. Color design methods. Number of participants: 78. The papers are published on CD.

FUTURE ACTIVITIES

- Organisation and management of contextual negotiations related to post graduate color education and education for doctoral candidates held by different universities.

- Organisation of conferences for domestic audience.

CONTACT INFORMATION

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ITALY

ASSOCIAZIONE OTTICA ITALIANA

BRIEF HISTORY

Since the late 1960s, the Italian Optical Association (AOI) is the AIC Italian member body. As a non-profit cultural association, the AOI's task is providing information about the state-of-the-art of light and images, both in research and application, as well as conferences occurring around the world. The spectrum of interests of the AOI is very broad, though in this report, it is limited to color science, color vision and related applications. Now, by monitoring the national situation across the past half-a-century, the AOI has been documenting not only the scientific and technical progress, but also the evolution of the attitudes of the involved people, by trying to adapt to the ineluctable changes of the concept of a "cultural, non-profit association."

EDUCATIONAL ACTIVITIES

Requests of bibliographical informations are regularly fulfilled (L.Ronchi) and courses are organized in various parts of Italy (c/o the AOI President, S.Villani) concerning vision, color vision and its applications such as Architecture, Optometry, and Ophthalmology. During the past two years, particular attention has been devoted to the new approaches to the visual process of complex, natural, real images. Now, by request, the history of the visual process is being dealt with by paying particular attention to color vision and to the perception of blue.

RESEARCH ACTIVITIES

A new Study Group, "Color communication and related languages," has been organized (Coordinator, J. Sandford). People who are interested in contributing, please send your personal opinions, bibliographical references and related experimental data, on the following aspects of color language: spoken language, technical language, the language of visual artists and written language (or "the palette of the writers"). The progress of this Study Group will be published on the Journal "Luce e Immagini."

MEETINGS

Various Italians attended the Interim AIC Meeting of the AIC, "Colour- Effects and Affects", 15-18 June Stockholm, Sweden, as it appears from the Book of Abstracts and from the subsequently distributed Proceedings. Three Italians also attended the PICS08 (Progress in Colour Studies, 14-17 July 2008, Glasgow, UK), which was also attended by numerous AIC people, from various parts of the world. The Italian participation is expected at the Interim CIE meeting and at the "Light and Lighting" conference with special emphasis on LEDs, solid state lighting, and medical aspects of lighting, 27-29 May 2009, Budapest, Hungary.

FUTURE ACTIVITIES

Verena M. Schindler is expected at a meeting of experts of UIA in Florence, in April, for two talks: one at a broader level on the news about environmental design, entitled "Chromatic Urbanscape" the other, more specifically,

concerning color in contemporary architecture and landscape entitled "Coloured Surfaces – Architecture Expanded Field: An inquiry into Colour Application in Switzerland's Contemporary Architecture."

Silvia Rizzo, next March, will contribute to a meeting at the Faculty of Architecture of the University of Genova, and, in particular, she will present the recent publication of "Color and Design Between Communication and Production," edited by S.Rizzo and includes numerous experts such as Porter, Graffino-Rossi, Zennaro, and Cogorno.

Jodi Sandford is completing a color naming, object/concept association test of the Italian color names blu, azzurro and celeste, and she continues investigating color/color word processing, antagonistic embodied categorization and framing color terms. After having participated to a first volume entitled "The Excentric Blue" she is issuing a second volume concentrated on the linguistic and psycho-linguistic aspects of blue. As a result of her doctorate thesis "Language and Perception of Colors: A Cognitive Study," by fall 09, her monograph on embodied color semantics will appear in English.

Maria Chiara Pozzana, Director of the Landscape and Garden Study Center, is completing her book on "Color in Florence: History and Present Status."

R.Pompas and L. Luzzatto's book, "Colore e Colori" is being printed by the publisher "Il Castello."

L.R. Ronchi is issuing a bibliographical review, "Luminance Contrast, Chromatic Contrast, Feature Contrast – History and Operational Aspects."

RECENT PUBLICATIONS

The Journal LUCE, which contains, in particular, detailed informations about AIC meetings, is regularly issued and distributed, free of charge, by request.

As far as the bibliographical reviews of educational flavour are concerned, (also distributed, free of charge, at request) let us quote:

L.R.Ronchi - "The Visual Process of Color in the XXI Century" (104 pages, in Italian), Fond. G. Ronchi, Florence, Vol.91, (2007), and

L.R.Ronchi and J. Sandford - "The Excentric Blue – An abridged historical review" (68 pages, in English), Fond. G.Ronchi, Vol.97, (2008).

ACTIVITY REPORTS RECEIVED FROM SOME ITALIAN EXPERTS, REGULARLY ATTENDING THE AIC AND RELATED COLOR MEETINGS

(in alphabetical order)

Lia LUZZATTO is teaching courses since the year 2000 in theoretical and color communication at the Accademia di Comunicazione di Milano (Via Savona, 112 a), including courses in art direction, graphics, copyrighting and new languages. At the Accademia de Lusso, (Via Montenapoleone 5, Milano) she is holding Master Courses.

Attending the meeting of the Italian Group of Color, Como, September 2008, she presented a talk entitled “Color Configuration,” where color communication is related to the use of rhetorical figures. At AIC08, in Stockholm, she presented a philosophical communication, “Truth and Perception.” At the ASIM (International Marketing Association) she presented “Color Between Two Realities: Perceptual Differences Between Analogical and Digital Color.” Invited by the Lions Club, she presented “Perceptual and Emotional Aspects of Color”

Alessio PLEBE is the leader of a group at the Dept. of Cognitive Science, Messina, by Vivian La Cruz, PhD student at the same Dept. and Marco Mazzone at the Laboratory of Cognitive Science, University of Catania. The main research interest of the group, as far as color is concerned, is the fundamental question about color perception in humans. In particular, the group is trying to investigate the specificity of color vision in humans, with respect to other living beings, because of language and how many lexical items related to color affect color concepts. The methodology of the development of computational models of the convergence between visual and linguistic processing paths in the cortex aims at exploring the emergence of color concepts in pre-linguistic and linguistic phases of early human development. Since 2004, the group has been working in developing realistic models of the ventral cerebral visual pathways using biological plausible artificial cortical map architectures coupled with a simplified auditory system. This is the basis for the current work on color, in which the chromatic channels are processed by a map replicating the biological ventral occipital area, and the auditory input processes color names. In the paper entitled “Color and Color Adjectives in the Cortex,” presented at the PICS 08 in Glasgow, UK, the simulated development of color perception associated with color names, in English, Berinmo and Himba were compared

Renata POMPAS at AIC 2008 dealt with the cultural modification of the symbolic meanings of the color “Blue” in the West divine, wordly and transcendental: Divine as the image of the celestial seat of the gods; wordly as the political sign (intended initially as the royal blue, then as republican blue, then as blue workers and finally as the color of the transgender jeans); transcendent as the post divine return of a transcendent meaning in some important arte works from Yves Klein to Derek Jarman, from science fiction movies to Bill Viola digital art. Color was the subject of Pompas’ didactic activity in 2008. In the lectures on textile collection creation, held as part of the “Culture and Design of Fashion” course at the University of Florence, Pompas taught and developed the subject of the chromatic palettes in the history of fashion. At the International seminar “DIMI: Design Innovation Made in Italy, connecting India and Italy through Design” – organised by POLI-Design, University of Milan for 30 graduated Indian designers – Pompas taught and developed the subject of Made in Italy and its colors.

Silvia RIZZO presented the theme “contemporary aspects in the relation between color and architecture” at the meeting of the Gruppo del Colore Italiano, 17-19 September 2008 at Como. Moreover, at the AIC 08 she dealt with color design within the human landscape context and child color, including a tribute to Werner Pantone. These were in addition to her institutional teaching activity at the Klee-Barabino High Art School, Genova.

Jodi SANFORD is a University Researcher Professor in English and Applied Cognitive Linguistics at the Università degli Studi di Perugia, Perugia, Italy. Her specific research interest rotates around cognitive color semantics

Attending the European Visual Perception Conference, EVCP 2007, at Arezzo, she presented (with Paolo Montesperelli and Steve Buck), “Visual Perception, Cognition and Language, Embodied Motivation and Negative Aspects of Color Metaphor/ Metonym.” Next she participated in PCIS 08 at Glasgow, UK and presented her research “Cool, Warm, Dark, Light or Afterimage: Dimensions and Connotations of Conceptual Color Metaphor/Metonym.” Generally speaking, her studies include cognitive linguistic color semantics and conceptual metaphor theory; these models have been applied in corpus analysis of universals and cultural specificities (English, Italian, Greek, Polish, Albanian) and in psycholinguistic research in mental processing of color and color term polisemy through the use of qualitative and quantitative analyses (Direct RT and Inquisit Software). For the sake of space constraints, the report of Sanford activity stops here, by omitting her contributions at the University of Washington-Seattle, and her work in architecture, graphic arts, design fashion, and visual arts as colorist.

CONTACT INFORMATION

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JAPAN

THE COLOR SCIENCE ASSOCIATION OF JAPAN (CSAJ)

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MEETINGS

The 39th annual meeting of the CSAJ was held at Fukuoka Institute of Technology (Fukuoka) on May 17-18, 2008. Participants in the meeting numbered about 210. Seventy-four papers were presented from various fields of color science, design and its applications. The invited lecture was given by Dr. Kiyoshi Toko (Kyushu University) on "Metamerism on Taste and Research of KANSEI."

Symposium on Color information in Nagano was held at Nagano University (Ueda, Nagano) on Sep. 12-13, 2008. Participants in the meeting numbered about 190. There were four invited lectures, and fifteen papers were presented.

Color Forum Japan 2008 was held at Kogakuin University (Tokyo) on Nov. 25-27, 2008. Forty-two papers were presented.

AWARDS

2008 CSAJ Award:

Tsuneo Kondou (Honorary Professor of Osaka University of Arts)

2008 CSAJ Best Paper Award (New):

Kenjiro Hashimoto, Tadashi Yano, Masanori Shimizu and Yoshinobu Nayatani, "New method for Specifying Color-Rendering Properties of Light Sources Based on Feeling of Contrast", CRA, Vol.32, No.5

2008 CSAJ Research Encouraging Award:

Shinya Takahashi (Nagoya University) and Takashi Hanari (Sugiyama Jogakuen University)

CSAJ Presentation Encouraging Awards 2008:

Mariko Yano (Chiba University).

STUDY GROUPS

CSAJ has 11 study groups: Color Design, Environmental Color, Illusion, Teaching Materials for Color Education, Personal Color, Colorimetry, Color Vision, Color in Image, Whiteness, Safety Color and Environmental Color Design for Daily Living.

PUBLICATIONS

Journal of the Color Science Association, volume 32, number 1-4 and Supplement, 2008 were published.

CSAJ News was published bimonthly.

MEXICO

THE MEXICAN ASSOCIATION OF COLOR RESEARCHERS

ASOCIACIÓN MEXICANA DE INVESTIGADORES DEL COLOR, AMEXINC

BRIEF HISTORY

Mexico is recognized around the world as a colorful country. Its people, food, clothes, houses, music and handicrafts express a richness of chroma. Yet, at present, there is no group of persons dedicated to enhancing this particular feature of Mexican culture.

The Mexican Association of Color Researchers (*Asociación Mexicana de Investigadores del Color*, AMEXINC), the only association of its kind in Mexico, was established May 2005 in Mexico City. Its main purpose is to research, teach, and promote knowledge about color throughout the Mexican Republic. At present there are visual artists, psychologists, physicists, graphic designers, and preschool teachers, among others, collaborating with AMEXINC. Indeed, this association is not only for academic researchers; it is open to all people with passion for color. AMEXINC was accepted as an AIC member in 2007.

ACTIVITIES

Since its beginning, AMEXINC has organized several talks to non specialized audiences in bookstores and university auditoriums; some notes of these talks are available online (amexinc.org.mx). Around 1200 attendees have participated in approximately 25 forums where members of the association participated at conferences. In printed media, the most recent example is Ortiz's work – a research in which she demonstrates interesting relationships between geometric forms (circles, squares, triangles) and basic colors: "*Forma y color*" (Form and color), Ortiz G., *Trillas ed.* México, 2009. Her book can be found in many bookstores in Mexico. Some of the association member's books will soon be published. The most important communication media for the association is the Internet. In AMEXINC's web site you can find interesting information about color in Mexican culture: colorful handicrafts, archeological sites, nice towns, great artists, strong Mexican icons and much more. It has a permanent section about colors meanings, a virtual color museum, and updates each month with meaning of a gem. Furthermore there are news about color, links to interesting sites and a useful section to learn more about color. Anyone who wants to be frequently updated with information of the website can sign up for free in order to receive AMEXINC's monthly newsletter. This web site is visited for many users every day, from both Mexico and other countries. The success of this effort in media communication is mainly for three reasons: 1) it is written in Spanish language, a language with few available information about new color topics; 2) it shares to global community a little of Mexican way of life, and 3) is periodically updated and always something new is uploaded; this last one point is valid for all web pages.

MEETINGS

This year, AMEXINC is organizing its first meeting: 1er Encuentro Mexicano del Color, The First Mexican Color Meeting to be held on September 10 – 12, 2009 in Mexico City. Participations are expected from several areas and special Argentinean guests will go to Mexico to share their work. The best works will be included in the proceedings to be published as a book. The official language is Spanish. The meeting includes a photographic contest named "Mexican's colors" which is an opportunity to show unpublished colorful images of Mexico. The deadline for abstracts and photo submission is May 30, 2009. More information at:

www.encuentromexicanodelcolor.com

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CONTACT INFORMATION

For more information, please visit our web page:
<http://www.amexinc.org.mx>

PORTUGAL

THE PORTUGUESE COLOUR ASSOCIATION

BRIEF HISTORY, ACTIVITIES, AND TESTIMONY OF THE PRESIDENT

The *Associação Portuguesa da Cor-APCOR* was created in the context of the Faculty of Architecture-Lisbon Technical University Master Course “Colour in Architecture”, in 2003. Still at an embryonic stage, this footprint – that is also a historical landmark – ties the core activities of the APCOR to research and education as a means to further knowledge. That is why the most endemic feature of the APCOR resides in its capacity to nourish activities leading to serious study and trustworthy communication with the communities that colour connects with.

In 2008, projects developed by the APCOR are either purely speculative, or empirical, or otherwise integrative of both theory and praxis. Colour plans were made for original architectural and urban structures or to rehabilitate a historic centre, quarter, or interior. In the classroom, theoretical teachings of colour were integrated at different levels of education within various fields and disciplines. Experimentation was made with devices and prototypes and used as didactic and pedagogical material. Technological aspects were addressed on how chromatic interactions of visibility establish interfaces between web design and the user, or how colour may express itself in fashion design. Signage, orientation and identification studied from a design standpoint at urban scale met with concerns that relate colour, legibility and aged vision in the field of visual communication and inclusive design. Questions that involve mapping neural activations and connections of colour and clothing inspected neuroscience findings relative to emotions and visual perception, aspects that disclose a different array of propositions when the body is dislocated from its gravitational axis. In architecture, the study of the material and immaterial components extended from the contemporary to historic places to reveal the relevance of colour in the creation of a sense of place and collective belonging. A phenomenological awareness to light, space and architecture provided meaning to a territory where philosophy and architecture are bound in concepts of “shelter” and “care”. Other proposals integrated symbology metaphor and analogy in the context of variables such as space-time, light-colour, shadow-reflection, movement-materiality, bionics, and biomimetics.

Colour is a transdisciplinary field and its lexicon testifies to that by reflecting a large spectrum of meanings. However when each discipline raises questions, a chain of thought and findings shifts the established boundaries, as a galaxy of potential fields waiting to germinate into new encounters. In all modes of sensibility and experience, colour has a transformative power on the visible realm. It is with a feeling of wonder and joy that I realise how ‘chromogenous’ dwellers on the mysteries of colour have become.

Prof. Dr. Maria João Durão

COLOUR EDUCATION

2008 was another fruitful year for the contribution of our members to colour education at various levels ranging from

secondary school to university, for undergraduate programmes as well as master and doctoral degrees.

Master of Colour in Architecture Margarida Gamito held the teaching responsibility and coordination of “*Chromatic Analysis*” at IADE- *Escola Superior de Design*. Master of Colour in Architecture João Pernão taught “Light and Colour” at the School of Architecture of FAUTL. Master of Colour in Architecture Zélia Simões taught “Form and Colour”, at ISEC - Institute of Education and Sciences and Communication Design in ESTAL - School of Technologies and Arts of Lisbon. Master of Colour in Architecture Cristina Pinheiro held teaching activity at IADE-*Escola Superior de Design* on the subject of “*Chromatic Analysis*”. Master of Colour in Architecture Helena Soares lectured “Colour, Light and Matter”, ESAD - School of Art and Design in Matosinhos and “Colour” at Secondary School D.Dinis, in St. Tirso. Prof. Dr. Manuel Pais Clemente lectured on the mechanisms of sight and perception at the Faculty of Medicine, University of Porto. Prof. Dr. Maria João lectured “Anthropology of Vision”, for the Master Course in Design, FAUTL and presented a proposal to coordinate the “Programme of Advanced Studies in Colour in Architecture and Design”, leading towards Doctoral Studies, approved by the Scientific Council of the FAUTL.

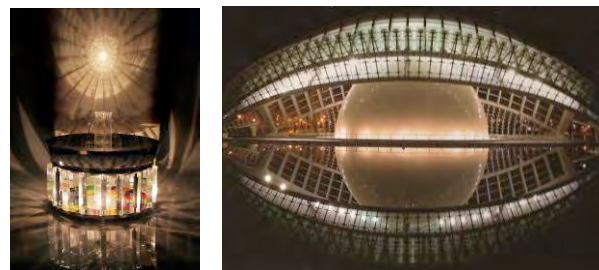
ACADEMIC RESEARCH PROJECTS

Colour Studies of the Historic Centre of Porto



Helena Soares was awarded the degree of Master in Colour in Architecture of the FAUTL, 2008 with this project and the dissertation “THE COLOURS OF PORTO” (supervisor: Maria João Durão; co-supervisor: Jean Philippe Lenclos)

Art, Science and Technology in the Conception and Representation of the Architectural Work of Santiago Calatrava



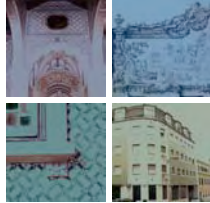
Post Doctoral Programme in Architecture by Prof. Dr. Maria João Durão. Advisor: Prof. Dr. Marcus Ormerod, University of Salford, Manchester, UK. Co-advisor: Prof. Dr. Rivka Oxman, Technion Institute of Technology, Haifa, Israel.

Post-doctoral grant award *FUNDAÇÃO PARA A CIÊNCIA E TECNOLOGIA*

Colour as Shelter: Architecture as Care

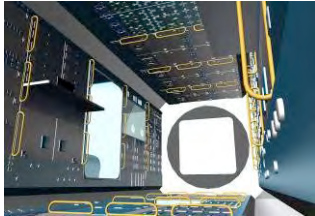
Doctoral Programme in Philosophy by Diana Soeiro. Advisor: Prof. Dr. Maria Filomena Molder, Faculty of Social and Human Sciences, UN.; Co-Advisor: Prof. Dr. Maria João Durão, Faculty of Architecture, UTL. Doctoral grant award *FUNDAÇÃO PARA A CIÊNCIA E TECNOLOGIA*

Colour Perception in Ceramic Cladding: A Cross-Cultural Study on Colour Perception in Urban Environment



Team: Carla Lobo (principal investigator), Maria João Durão (coordinator); ESAD- Escola Superior de Arte e Design, Revigrés.

Colour In Weightlessness



Team: Maria João Durão (coordinator); Robin Guerreiro. U.S. Destiny Laboratory Module, International Space Station colour simulations.
<http://spaceflight.nasa.gov/station/assembly/elements/uslab/>

Ergonomy of Web Colour



Ana Louro was awarded the degree of Master in Design of the FAUTL, 2008 with this project and the dissertation “ERGONOMY OF WEB COLOUR: INTERFACE VERSUS USER” (Supervisor: Maria João Durão)

The Light and Colour Box



Team: João Pernão (principal investigator); Maria João Durão (coordinator); students of the discipline “Luz e Cor”, Faculty of Architecture, UTL.

Colour in the Conception of a Design Collection



Team: Sandra Isabel Gomes Rodrigues (principal investigator). Maria João Durão and Inês da Silva Araújo Simões (coordinators); Faculty of Architecture, UTL.

Colour Plan–Urban Rehabilitation of the Alagoas Quarter In Régua, Ihru



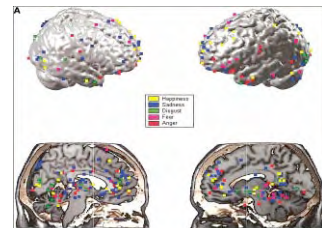
Team: José Aguiar, Maria João Durão (coordinators) João Pernão, Helena Soares (investigators)

Device for Perceptual Colour Measurement



Team: João Nuno Pernão (principal investigator); Maria João Durão (coordinator); Faculty of Architecture, UTL.

Colour and Emotion Studies Using Functional Magnetic Resonance fMRI



Doctoral Programme in Design by Ana Couto. Supervisor: Prof. Dr. Maria João Durão, Faculty of Architecture, Technical University of Lisbon; Co-supervisor: Prof. Dr. Manuel Pais Clemente, Faculty of Medicine, University of Porto.

CONFERENCE PRESENTATIONS AND PUBLICATIONS

COLOUR - EFFECTS AND AFFECTS. SWEDISH COLOUR CENTRE, STOCKHOLM (15-18 June, 2008).
Book of Abstracts and Proceedings AIC 2008

“AMBIENT MUTATIONS THROUGH LIGHT AND COLOUR” (Ana Filipa Santos)

"COLOUR IN DESIGN EDUCATION AND PRACTICE: THE RESEARCH PROCESS" (Margarida Gamito & Maria João Durão)

"COLOUR, TEXTURE AND AESTHETIC PREFERENCE" (Manuela Soares)

"COLOUR IN URBAN IMAGE REVITALIZATION: PAIÃO - BRANDO, A "SQUAT" NEIGHBORHOOD IN LISBON'S BORDER" (Sandra Caldas, Luis Bissau, Zélia Simões).

"NEW MATERIALITIES OF LIGHT AND COLOUR IN SPATIAL ALLEGORIES" (Zélia Simões & Maria João Durão).

"PERCEPTUAL COLOUR VARIATION ON SURFACES DUE TO DIFFERENT OBSERVING CONDITIONS: AZULEJOS (GLAZED TILES) AS CASE STUDY" (Carla Lobo & João Pernão).

"PORTO: CHROMATIC HARMONIES AND CULTURAL IDENTITY" (Helena Soares & Maria João Durão).

"THE COLOUR MANAGEMENT IN SOCIAL HOUSING, LISBON XXI CENTURY" and oral presentation in the seminar "EXAMPLES OF ARCHITECTURAL COLOUR AND THE CONCLUSIONS TO BE DRAWN BY THEM" (Cristina Pinheiro)

PUBLICATIONS – VARIED

Durão, Maria João, "Body in Weightlessness: Cartography of a Sentient Place". ARTiTEXTOS 07. Dec. 2008.

Durão, Maria João, "DRAWING ON THE EPHEMERAL: A PROCESS INVOLVING THE CREATION OF A SPACE DESIGNER-DESIGNED BIRDHOUSE", *Proceedings ICDHS 2008-Another Name for Design: Words for Creation*, Osaka University, Center for the Study of Communication-Design and Japan Society for the Promotion of Science.

Durão, Maria João "EMBODIED SPACE: A SENSORIAL APPROACH TO SPATIAL EXPERIENCE", Space, Propulsion & Energy Sciences International Forum, Von Braun Centre, AL., pub.2009 *American Institute of Physics*. www.ias-spes.org

Fernandes, Maria Verónica & Durão, Maria João, "A COR NA PAISAGEM: SALINAS DO SAMOUÇO E MINAS DE S.DOMINGO". ARTiTEXTOS 06, Jul. 2008.

Mesquita, André, "COR, UM SISTEMA EFÊMERO: A TEORIA CROMÁTICA DE CORBUSIER E A SUA APLICAÇÃO NA "UNIDADE DE HABITAÇÃO" DE MARSELHA", *Semanário Sol, Revista CUBO*, 013, 2008.

Pinheiro, Cristina. "COLOURS OF COLOUR", published in the on-line journal ARTECAPITAL, http://www.artecapital.net/arq_des.php

Simões, Zélia & Durão, Maria João. "CONTEMPORARY ARCHITECTURE: REAL AND VIRTUAL NARRATIVES", *Proceedings ICDHS 2008-Another Name for Design: Words for Creation*, Osaka University, Center for the Study of Communication-Design and Japan Society for the Promotion of Science.

Soeiro, Diana. "Review on: Anne Harrington, "THE CURE WITHIN - A HISTORY OF MIND-BODY MEDICINE", WW Norton, 2008" in *Metapsychology Online Reviews*, Philosophy of Psychiatry – Division of Arts and Humanities - The School of Arts and Sciences - Dowling College, New York. <http://metapsychology.mentalhelp.net/>

Soeiro, Diana, "Review on: Helmut Wautischer (ed.), "ONTOLOGY OF CONSCIOUSNESS-PERCIPIENT ACTION", MIT Press, 2008 in *Metapsychology Online Reviews*, Philosophy of Psychiatry – Division of Arts and Humanities - The School of Arts and Sciences - Dowling College, New York, pub. 2009. <http://metapsychology.mentalhelp.net/>

CONFERENCES AND WORKSHOPS – NATIONAL AND INTERNATIONAL

COLOURS 2008 – BRIDGING SCIENCE WITH ART: "COLOUR STUDIES FOR THE URBAN REHABILITATION OF ALAGOAS QUARTER, PESO DA RÉGUA", Colégio do espírito Santo, University of Évora, July, 2008 (João Pernão, José Aguiar).

CONFERENCE AND WORKSHOP: 5 Miradas de color en la Arquitectura Sustentable, 4º Encuentro Internacional de Color y Arquitectura, Ciudad de México, org. COMEX: Presentation "Conceitos multidimensionais de sustentabilidade: as suas aplicações à cor na arquitetura". (Maria João Durão)

ICDHS 2008-Another Name for Design: Words for Creation, OSAKA: "CONTEMPORARY ARCHITECTURE: REAL AND VIRTUAL NARRATIVES" Osaka University, CSCD – Center for the Study of Communication-Design and JSPS - Japan Society for the Promotion of Science, Osaka, 24-28 October 2008. (Zélia Simões)

URBAN REHABILITATION OF THE CITY OF PORTO: "REABILITAÇÃO DA COR URBANA", org. Ordem dos Arquitectos SRN, 7 November, 2008 (Luis Bissau).

SEMINARS – ACADEMIC

ESAD – Escola Superior de Arte e Design, Matosinhos "The colour we think we see / A cor que pensamos que vemos", May, 2008 (João Pernão)

IADE- Escola Superior de Design, Lisbon, "Colour in Urban environment", in curricular unity - Chromatic Analysis, 11-02-2008 (Cristina Pinheiro).

IADE – Escola Superior de Design, Lisbon, "Colour Applied to Design" in curricular unity - Chromatic Analysis, 7/07/2008 (Margarida Gamito).

HONORARY MEMBERS _REPORT

Professor Emeritus Architect Byron Mikellides held academic responsibilities in the education of colour at Oxford Brookes University. He edited the book COLOUR FOR ARCHITECTURE TODAY (Taylor & Francis) and presented it at the AIC 2008 Meeting in Stockholm where his presence was very much appreciated by the members of the APCOR. Designer and Professor Jean-Philippe Lenclos dedicated his time to painting and writing a book on colour that we look forward to reading. Professor Frank Mahnke published the book COLOR COMMUNICATION IN ARCHITECTURAL SPACE and lectured colour at the IACC seminars. Professor Catedrático Luís Badosa taught colour relationships in art classes at the Universidad del Pais Vasco highlighting the relevance of light by showing how the soul and spirit of a painting is captured in its luminosity. He explored the themes of the sacred and spirituality in the context of symbolic expressions of colour in art and architecture, while his activities extended to the organization

of exhibitions on Industrial Heritage and the editorial responsibilities of FABRIKART. Professor Emeritus Architect Pancho Miranda Guedes started organizing the retrospective exhibition of his work of architecture, painting and sculpture to take place at the Museu Coleção Berardo in Lisbon (18th May 2009) and receives the *Laurea Honoris Causa* awarded by the Lisbon Technical University on the 18th February 2009.

CONTACT

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INTERNATIONAL DAY OF COLOUR AND LIGHT: A PROPOSAL

In the General Assembly Meeting of 19 April 2008 a member of APCOR, Prof. Dr. Manuel Pais Clemente, suggested the creation of a day for the celebration of colour on an international and world scale. The idea was received with great enthusiasm by the Assembly. The proposal was presented to the AIC Executive Committee at the AIC 2008 Interim Meeting in Stockholm by the President of the APCOR, with the document that can be downloaded from <http://www.aic-colour.org/internationalcolorday.pdf>.

“COR” EXHIBITION OF THE ASSOCIAÇÃO PORTUGUESA DA COR - APCOR

Ordem Dos Arquitectos Srs, Fautl Lisbon, 7 May, 2009.

In 2008 Architect Luís Bissau promoted the Exhibition and Seminar "COR", currently in preparation. The event exhibits the work on colour carried out by the members of the APCOR and runs parallel to seminars where research is presented in a forum that encourages debate and closer contact with the developed ideas. Report of the event will be published in 2009 APCOR Newsletter.

President: Maria João Durão
Vice-President: Luís Bissau
Secretary: João Pernão
Treasurer: André Mesquita/Ana Couto
Director: Margarida Gamito

Audit Committee- Chairman: António Bica; Directors:
Helena Soares; Luisa Marques
Officers of the General Meeting- Chairman: Filipa
Vasconcelos; Secretaries: Cristina Pinheiro; Verónica Conte

APCOR image and graphic design: Helena Soares
APCOR Website editorial coordination: Luis Bissau
Web design: Zélia Simões; Web translation: Ana Filipa
Santos/ Diana Soeiro

SLOVENIA

DRUSTVO KOLORISTOV SLOVENIJE SLOVENIAN COLORISTS ASSOCIATION

BRIEF HISTORY

The Slovenian Colorists Association (SCA) is concerned with staff education, seminar organization, distribution of monographs, participation in international conferences and activities, and solving member's problems.

IN REVIEW

During the year 2008 the Slovenian Colorists Association (SCA) held Executive Committee meetings, meetings of the Education and Research Commission and the Commission of International Cooperation. They also held an Editorial board meeting and discussed and carried out various activities in the program 2008. Those were: regular activities, organisation of the expert meeting Colour and Design, and international and domestic activities.

REGULAR ACTIVITIES

Staff education,
Organisation of the expert meeting Colour and Design,
Distribution of the monograph Intedisciplinarity of Colour,
Parts I and II,
Participation at international meetings,
International activities,
Preparation of the elections of the SCA executive board,
Solving membership problems, and
SCA homepage maintenance.

ORGANISATION OF THE EXPERT MEETING ENTITLED COLOUR AND DESIGN, SEPTEMBER 2008

The main activities were conducted for the preparation of the expert meeting. The organization committee (S. Jeler, G. Fužir Bauer, T. N. Hočevár, M. Jenko, A. Majcen Le Marechal, V. Pogačar, A. Skrbinek, F. Holer and D. Legat) prepared a programme that was divided into four fields of interest: colour and architecture, colour in art, colour and graphics, and textile and clothing design. It included 12 lectures of slovenian scientists and experts. The programme also included many exhibitions and workshops. There were 110 participants, mostly students from University of Maribor and University of Ljubljana. Slovenian Colorists Association published a proceedings book of lectures in printed and electronic versions.

INTERNATIONAL AND DOMESTIC ACTIVITIES

SCA renewed the activities of the SCA Commission for international cooperation. Members are active participants of many international symposia and other foreign events.

SLOVENIAN COLORISTS ASSOCIATION

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

SWEDEN

STIFTELSEN SVENSKT FÄRGCENTRUM SWEDISH COLOUR CENTRE FOUNDATION

HISTORY

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

The task of the Swedish Colour Centre Foundation today is:

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

COLOUR – EFFECTS AND AFFECTS



The AIC Interim Meeting 2008 was hosted by the Swedish Colour Centre Foundation; this was the main activity during this year.

The meeting covered a wide range of topics related to the effects of using colour in interior and exterior design and how colour affects us. The Swedish Scientific Committee of nine members and the International Scientific Committee composed of 18 members from around the world handled the paper abstracts and the proceedings papers.

The venue, Hotel Rival, is a boutique hotel located in the heart of Stockholm, Södermalm. The hotel is shaped by the vision of its owner, Benny Andersson – a known songwriter and performer from the group ABBA – who wanted to recapture the glamour of the hotel from when it was originally opened as the Aston hotel in the 1930s.

There were 264 registered participants and 33 accompanying persons from 34 different countries on all continents.

The opening ceremony started on Monday, June 15 with a welcome address from Berit Bergström, Conference Chair of AIC 2008, and Professor José Luis Caivano, the President of AIC declared the meeting as opened. The

technical program was presented by Professor Karin Fridell Anter, Chair of the Scientific Program Committee.

The opening ceremony was followed by two introductory lectures. The first speaker was Professor Gunnar Tonnquist with a presentation entitled “Colours – From Rays to Sensation” followed by Professor Karin Fridell Anter who introduced us to “The Colours of Stockholm”.

During the three days conference we could listen to presentations in the following different topics: Colour in interiors and in architecture, Colour in landscape and urban space, Light and colour, Colour design for people with special needs, Colour appearance and visual illusions, Colour symbolism, associations, psychological and biological effects & Colour harmony and aesthetics, Colour in art and in culture, Colour and education, Colour design (products, textile, graphics, computer etc.). We also had a transdisciplinary session, Aspects of materiality. A number of papers were of good quality but did not fit into the conference theme. They were presented in a special poster session on Application of colour measurement and colour systems parallel to one of the seminars. The contributed papers, around 125, were presented orally, in poster papers and in seminars.

Social events at AIC 2008 included a Welcome Reception on Sunday, June 14 at the premises of the Scandinavian Colour Institute AB, which also sponsored this event. On Monday evening the Stockholm City Council generously invited us all to a reception at the Stockholm City Hall. The City Hall is probably best known as the venue for the world-famous Nobel Banquet, which takes place on December 10 every year. On Tuesday the conference banquet dinner was held at Högloftet, Skansen located on the island of Djurgården, a royal park near the centre of Stockholm.

The Closing Session featured suggestions of future AIC work and forthcoming AIC Meetings.

Professor José Luis Caivano, AIC President, thanked the Stockholm Organizing Committee for a successful AIC 2008 Interim Meeting in Stockholm.

The conference is documented in the Book of Abstract and the Book of Proceedings www.aic2008.org

MEMBERS' MEETINGS

In March, this year's first meeting, we did a study visit at the “Studio of perception” at University College of Arts, Crafts & Design in Stockholm together with Professor Ulf Klarén, and heard a very interesting talk about colours and the interaction between colours; a number of interesting colour phenomena were displayed.

In April there was a presentation about color and typography. Magnus Gärde has written a guide book for the typographers of tomorrow: How to work with colour as a graphic designer on computers of today.

In October we visited an exhibition and discovered one part of the Swedish cultural history at “Nordiska Museet”, Sweden's largest museum of cultural history. This time it

was an exhibition of Folkloristic art between 1750 – 1850. We had a lot of colours at that time.

This year's last meeting was the annual meeting in the Swedish Colour Centre Foundation. After the annual reports we always listen to an interesting colour talk. This year we could listen to professor Kerstin Wickman, a specialist in the history of design and arts and crafts. She focused on the colours used in the time periods round 1900, 1920 and 1950.

COLORSPOT

The demands of the contemporary colour-user evolve quickly and we live in an age where information must be free, up to the minute, relevant and inspiring. Colorsport www.colorsport.org is a new hub for all people interested in the progression of colour use, colour news, opinion and concepts. Colorsport is also intended as a meeting place

where users can share discussion, penetrate topics, analyse concepts and interact with one another. Updated regularly by its team of dedicated bloggers and with a finger firmly on the pulse of the modern colour world, Colorsport is the place to find the latest developments in this crucial international language of colour.

Colorsport is a development from the Swedish Colour Centre Foundation.

CONTACT INFORMATION

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Secretary

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SWITZERLAND

SWISS COLOUR ASSOCIATION, PRO/COLORE

The Swiss Colour Association pro/colore aims to serve as an interdisciplinary and professional platform for dealing with colour across disciplines including colour design, dyes, colour reproduction, colour communication and other fields where colour is applied. Colour plays an important part in different sectors of the economy and in public life such as in graphic design, architecture, industry, and textiles.

TRANSNATIONAL NETWORKING

In October 2008 pro/colore participated at the event "Color Understanding – Status Quo and Trends," a yearly international colour symposium organized by the German colour association *Deutsches Farbenzentrum*. At the opening session pro/colore President Ernesto Bergantini presented the Swiss Colour Association to the audience. In addition, AIC Delegate Verena M. Schindler presented the project AIC 2011. Head Office Eveline Staub and Member of the Executive Board Susanne Bösch were also present. Besides the pleasure of attending many interesting lectures and workshops, social and professional networking enhanced future collaboration.



From left to right: S. Bösch, E. Staub, E. Bergantini, V.M. Schindler.

UPCOMING INTERNATIONAL EVENT

Pro/colore will be hosting the AIC Colour 2011 Midterm Meeting in Zurich, described elsewhere in the Newsletter.

COLOUR COURSES IN ZURICH

In 2008, colour courses were introduced, jointly organized by pro/colore and the Swiss Textile College (Schweizerische Textilfachschule, STF). Instructors were Ernesto Bergantini and Ralf Studer. The theme was focused on "Le Corbusier Colours, a Painting Course." Due to a strong response, the course was offered three times. Also, a seminar on "Intersubjective Colour Perception" has been set

up jointly, beginning in January 2009. Through the pro/colore and STF collaboration, the option of free membership for one year was made possible for students of the STF, followed with a reduced membership fee for the second year.

2008 EVENTS

On March 3rd, the first event was organized for members and interested people. Alexander Brust, Head of the America Department of the Museum of Cultures (Museum der Kulturen) guided the group through the special exhibition "RED – Hot on the trail of a colour." Located in Basel, it is the largest museum of ethnology in Switzerland. Emphasizing intercultural comparisons, the exhibition's goal was to explore the significance of red in human societies. Accordingly, 300 unique objects transformed the exhibition space into spectacular scenery in powerful red, taking the visitor on a fascinating journey around the world, from daily life experiences and beyond to the dazzling world of belief and ancestors. Thereafter, the aperitif was also held in red and hot, inspiring the participants to animated discussions.



RED – Hot on the trail of a colour.

The second event took place on May 28 in the Art Museum (Aargauer Kunsthau) in Aarau. Franziska Dürr, Head of the Museum Education Department, explained the works of art through the trained eye of a colour expert, pointing at the immense variety of colour expressions throughout the centuries. Her investigations did not start with the exploration of motifs and significations but focused on different modes of applying colour on a painting and how they affect our perception – a new and pleasant experience for many participants. Ms. Dürr also discussed the question as to why green was used for the glass walls of the spiral staircase, an architectural element of the notable extension in 1998-99 and 2001-2003 by renowned architects Herzog & de Meuron. The green colour gives the museum entrance a mysterious appearance. Conceived as an exterior space, the public stairway runs through the interior of the building, connecting the street level with the roof terrace and the city park beyond.



Green spiral staircase in the Art Museum (Aargauer Kunsthaus).

GENERAL ASSEMBLY

On the same day, May 28th, the General Assembly was held in Aarau in the cultural centre “Roschtiger Hund.” Before starting the assembly a reception was served in the courtyard.

In 2008, two members of the Executive Board resigned from their positions: Markus Christen, Philips AG Lighting Switzerland, and René Oeschger, Swiss Association of Painters and Plasterers, because they also changed their jobs. In autumn 2008, Simone Läuchli, Head of Education Coordination of the Swiss Association of Painters and Plasterers (SMGV) was appointed a member of the pro/colore Executive Board.

As well, Kirsten Domdey, Interior Decorator, Sto AG Switzerland, resigned on her own request. Her successor, unanimously elected, is Susanna Anastasia Bösch, Colour Designer FA/BEF and owner of “farbe himmelblau”.

EXECUTIVE BOARD

The Executive Board include the following members:

Ernesto Bergantini, Textile Designer (President)
 Susanna A. Bösch, Colour Designer, farbe himmelblau
 Christian Engi, Textile Designer and Colour Design
 Instructor, Engi Design
 Verena Felder, Designer, Felder Gestaltungen
 Simone Läuchli, Head of Education Coordination, SMGV
 Ueli Wagner, Architect, HNW Architects
 Brigitta Weber, CEO, Hurter Wallcoverings AG
 Daniel Pfeffer, Head Marketing Services, CRB

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UNITED STATES OF AMERICA

INTER-SOCIETY COLOR COUNCIL (ISCC)

BRIEF HISTORY

The ISCC is the principal professional society in the field of color in the United States. The Council was founded in 1931 with the goal of advancing the knowledge of color as it relates to art, science, and industry. There are three classes of ISCC membership: Individual, Member-body, and Sustaining. There are currently 15 Sustaining Members, 18 Member-Bodies and approximately 550 Individual Members. The ISCC website is www.iscc.org.

PUBLICATIONS

The ISCC publishes a newsletter six times each year. It also offers the following technical reports: *Color and Light* by Fred W. Billmeyer Jr. and Harry K. Hammond III; *Demystifying Color* by Robert Chung; *Guide to Material Standards and Their Use in Color Measurement* (ISCC TR-2003-1), and a *Commemorative CD and limited edition Pin* from the ISCC's 75th Anniversary.

MEETINGS

The Inter-Society Color Council had a very successful Annual Meeting and Expert Symposium in 2008 held in Baltimore, MD on September 14-15 co-chaired by Cameron Miller of NIST and Carl Andersen of the FDA. The Annual Meeting was centered on the theme of "The RGB's of Color" and the Expert Symposium on "The Perception and Measurement of Safety Colors". The Annual Meeting began with a special presentation called Color Flashback that explored the history of color science. Kim Galloway discussed the comprehensive artifacts of Ralph Stanzola, his lifetime work, and the Industrial Color Technology Course that he presented throughout his five decade career.

Additionally, the ISCC held a Special Topics meeting on November 15th in Portland, Oregon following the Color Imaging Conference with the theme of "Black and White, the most important colors in imaging application and in the graphic arts field."

UPCOMING EVENTS

The ISCC is pleased to be holding its Annual Meeting in conjunction with the 25th Anniversary of the Munsell Color Science Laboratory at R.I.T in Rochester, NY. The Annual Meeting will be held on June 7th at RIT followed by a special symposium hosted by the Munsell Color Science Laboratory celebrating their 25th anniversary on June 8th. A student poster session is planned after the presentations, as well as an education session featuring the various aspects of the application of color order systems to the diverse interests of the ISCC attendees.

AWARDS

The ISCC presented the 2008 Macbeth Award to Harold Van Aken who is recognized for his role in the design, development and commercialization of the NetProfiler® technology used to automatically document and correct the operational differences between groups of color measurement instruments and the process aims for those instruments.

ELECTIONS

Joining the ISCC Board in 2008 were Mr. Henri DeBar from IsoColor, Inc., Dr. Barbara Martinson from the University of Minnesota, and Dr. David Wyble from RIT Munsell Color Science Laboratory.

IN MEMORIAM

A long-time supporter of the ISCC, Jean Bourges passed away in 2008. Jean was a past Chair of the ISCC's Interest Group Three, Art, Design & Psychology. Jean received the prestigious PIA/GATF Naomi Berber Award in 2003 for the outstanding woman in graphic arts, authored several books and was working on "A Color Primer" for the early grades.

CONTACT INFORMATION

Dr. Maria Nadal
ISCC President 2008-2010
Maria.nadal@nist.gov

ASSOCIATE MEMBER

INTERNATIONAL ASSOCIATION OF COLOR CONSULTANTS/DESIGNERS – NORTH AMERICA

BRIEF HISTORY

The International Association of Color Consultants/Designers – North America, IACC-NA is the first Associate Member of AIC, joining during 2009. The IACC-NA is a chapter of the IACC (International Association of Color Consultants/Designers). It is an organization of color professionals specially trained in the functional application of color and the human response. The stated mission of the IACC-NA is “enhancing the human experience through the beneficial use of color in design.”

The IACC is one of the oldest color associations in the world, and the only one that accredits architects, interior designers, environmental designers, color psychologists, marketing specialists and so forth, to carry the title of IACC Qualified Color Consultant/Designer (with Diploma).

The IACC was founded in Hilversum, Holland in 1957, with the participation of approximately 50 architects, designers, educators and scientists from 12 countries. The motivating force was the understanding by that group that many design dilettantes hid behind the unprotected professional name of color consultant/designer: that there existed an acute shortage of true professionals and an absence of competent training in the field.

The IACC's first President, Dr. Heinrich Frieling, founder of the Color Psychology Institute of Germany, was given the assignment of creating an interdisciplinary training program leading to an IACC Diploma. Frieling proceeded in collaboration with experts from the field of architecture, interior architecture, environmental psychology and art. The IACC training program commenced in 1958 and was initially known as the Independent International College for Color and Environment of the IACC. The name was later changed to IACC Academy - Salzburg Seminars for Color and Environment. Since 1988, Frank H. Mahnke is the International President of the IACC and the Director of the IACC Education/Accreditation Programs conducted worldwide.

In 1991, the IACC Education/Accreditation Program was established in North America, in San Diego, California, for all English-speaking people in the world. The IACC-NA was founded in 1993.

The task of the IACC-NA chapter is twofold: the accreditation through the IACC educational courses or the title of "associate member" if strict IACC qualification standards have been met, and International representation of the profession by :

- Promoting an understanding of the necessity for sensible color design;
- Recognition and incorporation of the professional standard of Color Consultant/Designer, Color Psychologist, Color Scientist, with the objective of creating a consolidated professional standard;
- Advancement and recognition of the profession of color consultant/designer - through the furtherance of professional training, general enhancement of the professional level, and the seeking of elevation of professional standards; and
- Protecting the professional designation of IACC Qualified Color Consultant/Designer.

The North American IACC chapter has approximately 100 members who come from different countries in the world, united by their use of the English language: United States, Canada, United Kingdom, South Africa, Puerto Rico, Portugal, Malaysia, Japan, Austria, and Ethiopia.

INTERNATIONAL EXHIBITION IN SALZBURG

In September 2008, the work of many IACC-NA members was part of the IACC International Exhibition during the celebration of its 50th anniversary. The Anniversary Celebration, held in the library of the older section of the University of Salzburg, Austria, was attended by over 110 international IACC members and other individuals representing a wide variety of industry professionals and other color associations.

IACC-NA ANNUAL MEETING

The IACC-NA annual meeting will take place on May 2nd, 2009, at Park City, Utah. For general information please contact Brianna Adams at brianna.adams@mynohs.com, or by telephone at 801.631.3891.

WEBSITE

<http://www.iaccna.org>

CONTACT INFORMATION

Lise Michaud, IACC-NA Secretary, secretary@iaccna.org,
Marcia Walter, IACC-NA President, president@iaccna.org

REPORT FROM THE AIC STUDY GROUP ON COLOUR EDUCATION

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

PROJECTS AND ACTIVITIES

The study group has its own Newsletter with news and information about coming AIC meetings and other colour seminars, colour studies, methods of teaching colour, new literature etc. Members are very welcome to contribute to this newsletter.

We also have a literature list which is continuously updated regarding literature, reports and research papers regarding how colour is used in colour studies and about how to teach colour.

Our list of literature used in colour education is divided into the following groups:

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

A Bibliography of Books on Colour 1500-2000: 2,500 Titles in English & Other European Languages by Roy Osborne has also been forwarded to all members.

AIC INTERIM MEETING 2008 SESSION: IDEAS, INSPIRATION AND EXAMPLES

During the AIC Interim Meeting 2008 in Stockholm, Sweden, June 15-18 we had a special session on Colour education and we also had a short members' meeting for the Study Group on Colour Education. The session chair was Galen Minah. The following papers and posters were presented:

Oral paper no 077: Colour fidelity in art reproductions and popular images, *C. Sik-Lányi, A. Sik, G. Sik & J. Schanda*.

Oral paper no 086: A play on words: The aura of color charts, *Marcia R. Cohen*.

Oral paper no 098: Teaching colour wheels and complementary colours, *Robert Hirschler*.

Poster no 036: Colour in design education and practice: The research process, *Margarida Gamito & Maria Durão*.

Poster no 125: Do designers have right to personal colour preference? Objective and subjective and subjective factors

in colour education for designers, *Agata Kwiatkowska-Lubanska*.

Poster no 137: Colour: Truth or deception?, *Lia Luzzatto*.

Poster no 005: Network for the curricular design of formative modules in colour vision science area. Alfa project, *Natividad Alcón & Juan C. Soriano*.

Poster no 127: Color and graphic design course: An exploration of color schemes for a book cover, *Sylvie Pouliot*.

EMAIL

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

MEMBERS OF THE STUDY GROUP ON COLOUR EDUCATION

The Study Group has now 66 members, and 30 nations are represented in the group. The member list is not on our web site to avoid excessive spam. It will be sent out continuously when new members are being introduced.

The membership is free, and is available for every person/organization who/which scientifically or practically deals with colour in colour education, contributes to the realization of the aims mentioned above to support the Study Group generally. The requisites for being incorporated as a new member of the Colour Education Study Group are to subscribe and participate in the e-mail list and to have presented a paper or poster at an AIC meeting

CHAIR

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REPORT FROM THE AIC STUDY GROUP ON ENVIRONMENTAL COLOUR DESIGN



The Study Group on Environmental Colour Design (ECD) is an international group of scientists, urbanists, architects, artists, designers, historians, psychologists and other professionals with a specific interest in color as a means of environmental design and its effects on human emotion, cognition and behaviour.

ECD MEETING 2008 IN STOCKHOLM

During the AIC 2008 Interim Meeting "COLOUR – EFFECTS AND AFFECTS" in Stockholm, Sweden, an informal meeting of the ECD Study Group - together with the Study Group on Colour Education - was held on Wednesday, June 18th, 11.40-12.00am. More than one hundred persons attended the meeting. The discussion included the following issues:

1. ECD Website

The ECD website www.aic-colour.org >> Study Groups >> ECD, in English and French, including the newly created logo, was launched in May 2008. It is edited by the chair, and generously hosted by the Paris based non-profit association *ad chroma*.

You'll find on the ECD website information about the history of the study group, its aims, announcements of its events, a description of on-going research projects, a membership list, information on becoming a member and a subscriber of the colour mailing list and newsletter, as well as a link to the bibliography assembled by the former chair José Luis Caivano.

2. Subtopic: Synesthesia

Juan Carlos Sanz* suggested that the ECD Study Group begin a discussion on 'Synesthesia as a Basis of Color Design,' arguing that the increasingly multi-sensorial environments of daily life conceived on the basis of multimedia performance are having an impact on the designers' work since the mid 1990s. Synesthesia, a term from the Ancient Greek compounded from *syn* (together) and *aisthesis* (sensation), is a neurologically based phenomenon. In his oral presentation, José Luis Caivano distinguished between genuine synesthesia and pseudo-synesthesia.

3. Selected Bibliography

The colour bibliography compiled by José Luis Caivano has more than 4,000 entries; therefore the attendees of the meeting suggested creating a selected bibliography focused on Environmental Colour Design.

4. Summaries of Books

The suggestion was made to include not only the bibliographical reference of specialized books but summaries as well. This would help members decide which book would be helpful for a specific professional activity.

5. Some Questions on the Teaching of Environmental Colour

Doreen Balabanoff brought up a whole range of questions by e-mail in advance of the meeting which included:

- How can we challenge and change traditions in teaching architecture/3D design to allow more discourse on the powerfully important issues of colour and light in the built environment?

- There are many areas of interest beyond aesthetics or style that environmental colour design and light studies could address: health (mental, physical, spiritual, ecological), nature/culture, social and programmatic user needs/issues (including sustainability and accessibility).

- Can digital technologies help us teach our students about the built environment, which rooted in a specific location, is nonetheless a time-based medium influenced by the solar cycles, both daily and annual? What sort of exercises/projects are useful? How can colour studies be involved as core curriculum in this domain during and beyond first year studies?

- New approaches to natural and artificial lighting are important aspects of contemporary architectural environments. How can we incorporate this subject matter into the mainstream of architectural/design education?

Contributions of ECD Members



Members of the AIC Study Group on Environmental Colour Design were directly involved in the organization of the AIC Meeting 2008 in Stockholm: (left to right): Thomas Hård, Berit Bergström, Karin Fridell Anter, Monica Billger.

Photo: Verena M. Schindler

Although Environmental Colour Design doesn't appear as a topic in the conference programme, many members contributed to the AIC programme with oral presentations and posters: Saadet Akbay*, Malvina Arrarte Grau, María Mercedes Ávila, Ulrich Bachmann, Ana Torres Barchino*, José Luis Caivano, Vien Cheung, Michel Cler, Elisa Cordero Jahr*, Osvaldo da Pos, João Carlos de Oliveira Cesar*, Maria João Durão*, Clara Froger*, Brian Funt, Aran Hansuebsai, Leslie Harrington, Aulikki Herneoja*, Robert Hirschler*, John B. Hutchings, Maud Hårleman, Yasuyo G. Ichihara, Agata Kwiatkowska-Lubanska*, Anat Lechner, Juan Serra Lluch*, Mabel A. López, María Luisa Musso, Lia Luzzatto, Manuel Melgosa, Galen Minah, Vojko

Pogacar, Margaret A. Pope*, Emilia Rabuini*, Klaus Richter*, Silvia Rizzo, Javier Romero, Lucia Ronchi Rositani, Jada Schumacher*, Elza Tantcheva, Justyna Tarajko-Kowalska, Angela Wright, the co-chair Leonhard Oberascher, and chair Verena Schindler.

Berit Bergström, Karin Fridell Anter, Monica Billger, and Thomas Hård were directly involved with the organization of the AIC Interim Meeting 2008.

Full papers are available at [>>Congresses](http://www.aic-colour.org)

NEW MEMBERS

We are glad to announce that 15 new members (*) from Argentina, Australia, Brazil, Chile, Finland, Germany, Hungary, the Netherlands, Poland, Portugal, Spain, Turkey, and the USA joined the ECD Study Group in Stockholm.

OUTSTANDING MEMBERS

In 2008, Paul Green-Armytage (Australia) and Antal Nemcsics (Hungary) were awarded Outstanding Membership status.

Dr. Paul Green-Armytage, a member of the Organizing Committee of the 11th Colour Congress in Sydney, has been actively involved in the ECD Study Group. In the late 1980s he gathered together with Leonhard Oberascher, Lars Sivik, and Werner Spillmann to establish new objectives for the ECD Study Group that are still valid today.

Professor Dr. Antal Nemcsics in 1981, on the occasion of the Fourth AIC Congress in Berlin, proposed the creation of a study group for colour dynamics. It was then consolidated at the AIC Interim Meeting in Budapest in the following year, as the “Study Group on Environmental Colour Design (ECD).” Thanks to his initiative the ECD Study Group was created in 1982.

In 2008, Professor Nemcsics was awarded an Order of Merit, the Officer’s Cross, from the Hungarian Republic on March 15, the Hungarian national day. He was granted this prestigious award – one of the rarest of honours, and in the colour field even more so – for his work in developing the Coloroid colour system (a national standard today), for his contributions to environmental colour design, which include introducing the concept of colour dynamics and colour harmony, establishing an index of colour preference, working on aspects of town planning and public buildings, as well as for his fine art work and his life-long work in education. Congratulations to him.

CHANGED MEMBERSHIP REQUIREMENTS

During the Executive Committee on Sunday, June 15th, the requirement of having attended an AIC meeting at least in the last four years to be a member of the ECD Study Group was removed. As a result, a person who participates once via an oral presentation or poster at an AIC meeting or congress may be a member.

CHAIR

Verena M. SCHINDLER (Switzerland)
AIC Study Group on Environmental Colour Design
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Many members of the Study Group on Environmental Colour Design contributed to the AIC programme 2008 with oral presentations and posters: Top row (left to right): Michel Cler (France), Osvaldo da Pos (Italy), Lars Sivik (Sweden), José Luis Caivano (Argentina), Malvina Arrarte Grau (Peru); Second row: Lucia Ronchi Rositani (Italy), Ulrich Bachmann (Switzerland), Vojko Pogacar (Slovenia), Verena M. Schindler (Switzerland); Third row: Justyna Tarajko-Kowalska (Poland), Emilia Rabuini (Argentina), María Luisa Musso (Argentina), Agata Kwiatkowska-Lubanska (Poland); Fourth row: Elisa Cordero Jahr (Chile), Maria João Durão (Portugal), Mabel A. López (Argentina); Bottom row: Maud Hårleman (Sweden), John B. Hutchings (UK), Galen Minah (USA), Leonhard Oberascher (Austria). Photo: Verena M. Schindler

REPORT FROM THE AIC STUDY GROUP ON VISUAL ILLUSIONS AND EFFECTS

WHY A STUDY GROUP ON VISUAL ILLUSIONS

Visual illusions are so attractive that nowadays many people considerable time studying them and inventing new illusions for their own and others' fascination. Visual illusions are exploited in many ways both in art and in industry, and many publications find their fortune in their illusory appeal. People are even willing to pay for admiring illusion exhibitions.

HISTORY

The International Association of Colour (AIC) has within its scopes the task of spreading and promoting the study of colour in all its multi-faceted aspects. Among the visual illusions in general, colour illusions play a specific role as colour is the core of all vision. Inside the AIC, the Study Group on Visual Illusions and Effects was established in 1993 in Budapest with the aim of promoting studies and uses of colour illusions.

COLOUR ILLUSIONS AT THE AIC MEETING IN STOCKHOLM 2008

Colour contrast is one of the most frequent sources of colour illusions, and it was no wonder that at the AIC Meeting in Stockholm most papers dealing, more or less explicitly, with colour illusions, were focused on this subject, summarized below. Also reported are a few other topics that were discussed at the meeting.

Simultaneous Contrast and Intraocular Glare: Opposing Image Dependent Mechanisms in Appearance. Alessandro RIZZI and John McCANN

The paper by A. RIZZI and J. McCANN was particularly relevant because it tried to explain the role of contrast by relating this effect to that of light scatter in the eye: scattering reduces the luminance range of the retinal stimulation by increasing the luminance of the darker areas, and contrast would be an imperfect cancellation of intraocular scatter.

The starting point of the work was the realization that optical scatter increases the retinal luminance, but simultaneous contrast makes these higher luminance areas look darker. In a number of experiments the authors show that increasing the dynamic range of the target has little effect on the range of appearance, and the combination of intraocular glare and simultaneous contrast results in changes in the relationship between stimulus luminance and appearance. While on the one side the amount of white in the background increases glare by reducing the dynamic range of the retinal image, on the other side the same white increases the image contrast, counterbalancing glare. Contrast would be therefore an imperfect way to correct intraocular scatter.

Subjective Contrast between Chromatic Patch and Achromatic Background under Several Colored Lights. Masami KONO, Haruyo OHNO, Naoya HARA, Kotaro TAKAHAMA, Takashi HIRAGA and Shigeharu TAMURA

The results of this work showed that, in the perception of contrast between coloured objects and an achromatic background, narrow band coloured lights removed the role of the chromatic component so that perceived contrast only depended on luminance differences. Perceived colour contrast is measured by choosing a pair of achromatic samples whose visual difference can be easily related to their luminance difference. In this paper the role of chromatic components in determining the general perceived contrast is explicitly recognised as ineffective when illumination is given by a narrow band source. Nothing is said about colour appearance: it should appear monochromatic, that is varying along one dimension only. The use of coloured lights therefore not only changes the perceived contrast of a chromatic surface against an achromatic background, but deeply modifies its colour appearance. The set of perceptive variations undergone by the surface colours when differently lit can be considered an illusion, as the same object changes in appearance although remaining physically unmodified.

The Contrast of Complementary Colours as a Resource in Painting. Angela GARCIA-CODONER, Ana TORRES-BARCHINO, Jorge LLOPIS-VERDÚ, Juan SERRA-LLUCH

The authors acknowledged J. Albers, W. Kandinsky and P. Klee for their fundamental role in improving the theory of complementary colours in painting. Indeed the work is addressed essentially to the role, and actual use, of complementarity in paintings, rather than to the colour contrast produced by complementary colours. Through an accurate analysis of the colours in classical masterpieces, and of their chromatic aspects and spatial relationships as well, it seems possible to follow the continuity of the complementarity tradition along the history of figurative art. From this study the authors derive the conclusion that the interplay of contrasting colours occurring when complementary colours are combined in a composition produces three relevant effects: the perception of chroma is emphasized, the organization of the composition is achieved without recurring to geometrical laws, and the single colours in the complementary pair are accentuated. The relationship of colour contrast with illusion in these cases is quite weak, as the contrast effects cannot be recognised easily.

How size can affect colour perception. Osvaldo DA POS, Annarita RAPANÀ, Alessandra GLIRO

Often a colour illusion occurs when the "same" colour of an object appears different in unexpected situations. The surprise of finding the colour of the walls in a house different from the colour of the sample chosen in an atlas is rather common, and can be considered a true illusion. A number of researchers are studying this phenomenon because of its relevance the real life. In this contribution the authors show not only that colorimetrically identical colours

can appear different as a function of the angular size of the covered area, but also as a function of the perceived size of the coloured object. This means that the area of a wall can project a small angular stimulus in the retina, but at the same time it can appear quite large, much more than another fronto-parallel surface with the same angular size. Experimental results have shown that size differences modify the colour of a surface (essentially its lightness) both in the case of angular and perceived differences [this case can be considered a reversal of the more common effect of colour on spatial arrangement when, for instance, colour variations in a surface provoke its apparent spatial tilting]. The interesting aspect of the phenomenon is that illusions can derive from a purely subjective difference in size, and not only from physical changes of the objects.

Spatial Colour Effects Across Three-dimensional Form: The Tilt Effect. Sara MOORHOUSE

A different kind of visual illusion is produced by some spatially combined colours that introduce a visual distortion in the perspective of 3D objects. The interesting aspect of the results is that the objects change their 3D appearance as a function of the direction of sight and the colour combinations.

The spatial alterations produced by coloured stripes seem to obey the old principle that highly saturated hues appear larger than less saturated hues and “warm colours advance and cool colours recede,” together with the fact that yellow seems to optically spread more than blue, although not always the observed effects can be explained in that way. It remains unclear regarding the role played by different chromatic and spatial factors in deforming the 3D object (a bowl), and the phenomenon needs further investigations.

Why illusions? Osvaldo da Pos

The chairman of the Study Group on Visual Illusions and Effects presented a series of the most common phenomena producing colour illusions. The author investigated the role of contrast, assimilation, transparency, surface-illumination interaction, and after-effects, which underlie the great majority of colour illusions, to show with many examples that illusions are such only when the same object (or event, or even area in the visual field) appears remarkably different in different viewing conditions.

CHAIR

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REPORT FROM THE AIC STUDY GROUP ON COLOUR PERCEPTION OF THE ELDERLY



PURPOSE

The purpose of this Study Group (SG) is to discuss and share information on the basic and practical studies about the colour perception of the elderly, such as colour appearance, colour discrimination, brightness perception of colours, colour preference, and application tools for planning and testing universal colour designs.

ACTIVITIES

- A symposium of our study group in AIC2009 will be held. We are inviting Dr. Mitsuo Ikeda (Japan) as the keynote speaker.
- The chairman and the secretary of the SG were invited as guest speakers at several kinds of academic conferences and meetings in Japan, Germany and Slovenia.
- The homepage of the SG (<http://www.cpesg.org>) is running properly. However, we have to move the website within a few months because of a server problem. Now we are seeking the new server for our website.

MEMBERSHIP

Currently, the number of members is 65 from 14 countries.

FUTURE ACTIVITIES

- We will move our website and enrich the homepage contents.
- We will expand our activity in "Colour Universal Design" field.
- We are making the symposium program at AIC2009 in Australia.

CHAIR

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REPORT FROM CIE DIVISION 1

CIE Division 1 met in Stockholm, Sweden at the Swedish Color Institute from June 15 – 16, 2008. This was the first meeting of the term with Dr. M. R. Luo as Director. Fifteen countries were officially represented with voting members present. The division reviewed their accomplishments throughout the past year. There have been two publications by Division 1 since the last meeting:

1. CIE Standard S 014-4/E:2007 *Colorimetry - Part 4: CIE 1976 L*a*b* Colour Spaces* has been published in September 2007.
2. The book *Colorimetry: Understanding the CIE System* is now available from Wiley.

TECHNICAL COMMITTEES

One new committee was formed:

Technical Committee: Real Colour Gamut (C) Terms of Reference: To recommend a gamut representative of real (non-fluorescent) surface colours and defined by associated spectral reflectance data.
Chairman: Changjun Li CN

REPORTERSHIPS

New reporterships that formed include:

Reporter: Evaluation of Whiteness (C) Terms of Reference: To review the current status of whiteness measurement and recommend future requirements. Reporter: Joanne Zwinkels CA.

The establishment of this reportership was requested by Joanne Zwinkels as part of her liaison with ISO/TC6/WG3. The WG had met during the week prior to the Division meeting and a need for clarification of, and perhaps change in, the use the CIE Whiteness formula had become apparent.

Reporter: Hue Angles of Elementary Colours (C) Terms of Reference: To review the current literature on elementary (unique) hues for potential imaging applications. Reporter: Thorstein Seim NO.

The establishment of this Reportership was requested as part of the liaison with ISO/JTC1/SC28 Office Equipment.

There was some discussion as to whether a reportership should be formed to assess the intra- and inter-observer variability of unique hue judgements, based on some recent work. It was agreed that the researcher should be encouraged to publish the work and then the establishment of a reportership can be considered.

FUTURE MEETINGS

Possible venues for the next meeting of the Division in 2009 were: Budapest, Hungary as part of the CIE Mid-Term meeting May 2009 or

Sydney, Australia: in conjunction with the AIC Congress in September / October 2009. A vote showed that country members present were evenly split making it necessary to ballot all country members by email.

The result of the email ballot that ended on 18 July 2008 showed that the preferred meeting location was Budapest, Hungary. Thus the next meeting of CIE Division 1 will be held in Budapest, Hungary in association with the CIE Midterm Meeting and associated conference in May-June 2009. The CIE Division 1 Main Meeting will be held in Budapest on 2 June 2008.

MORE INFORMATION

The entire set of minutes from this Division 1 meeting are available on the website at www.cie.co.at/div1.

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