



AIC STUDY GROUPS

MAURIZIO ROSSI - POLITECNICO DI MILANO, ITALY

INGRID CALVO IVANOVIC - UNIVERSIDAD DE CHILE, CHILE

STUDY GROUP ON ARTS AND DESIGN

CHAIR: MARIA JOÃO DURÃO (PORTUGAL)
CO-CHAIR: DAVID BRIGGS (AUSTRALIA)
SG-AD@AIC-COLOR.ORG



Jeannette Hanenburg delivering her invited lecture at the SGAD Workshop, AIC2024, S. Paulo.



Jeannette Hanenburg in front of a wall painting at ASAS, Florianópolis, Brazil, that reads: "Juntos, fazendo a diferença na vida das pessoas" / "Together making the difference in people's lives"



ASAS Workshop applied Synaesthesia

The Study Group on Arts and Design held a workshop at AIC2024 Meeting in S. Paulo, Brazil, on September 17th, chaired by Maria João Durão, with an invited lecture delivered by Jeannette Hanenburg.

Jeannette Hanenburg's project, **Teaching Colour through Art Classes for young people in deprived areas of Florianopolis, in Brazil** was the theme that she explored with a focus on a workshop in which children learned and experienced how senses, and choosing colours, can be connected and be transferred to a piece of art. She went to ASAS in Brazil as volunteer for the third time and had the support of many helpers and translators, making the workshop an overall experience in education, love and friendship. These children come from underprivileged neighbourhoods and grow up in a world filled with violence, danger, and poverty. On top of that, they only attend school for half a day, consequently, they miss out on much-needed opportunities. Asas and Power2Fly empower these young people to grow and create meaningful futures.

In Jeannette's lecture, multiple images gave us an idea of the 3-day workshop- **Workshop applied Synaesthesia**-, in which children explored forms of associative synaesthesia, selecting and collecting colours and using them in a later project. With the associative synaesthesia, children felt a strong and involuntary connection between the stimulus and the sense that it triggers. The children were divided into three age groups, between 7 and 15 years, each further split into a morning and an afternoon session, resulting in a total of 18 one-hour workshops over the course of three days. Non-synesthetes can learn how to use senses to develop their unconscious feelings for colours and make colour choices accordingly.

We planned a **new series of online forums** in which two to three speakers from around the world will give presentations on a common theme, followed by a discussion among the speakers and the online audience. Our first forum will look at the application of XRF scanning and other non-invasive state-of-the-

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ASAS Workshop applied Synaesthesia – the sense of hearing

Poster: 20th Anniversary of the Colour
Lab-Lisbon School of Architecture



art methods of analysis in uncovering the technique and creative process of painters of the past and will be held on Zoom on **International Colour Day**, Friday March 21 in conjunction with the **Colour Society of Australia**. Our speakers will be Simon Ives, Painting Conservator at the Art Gallery of New South Wales in Sydney and Mareike Gerken, Applications Scientist μ XRF at the Bruker Corporation in Berlin.”

The SG Arts and Design organized in partnership with Portuguese Colour Association (APCOR), and the Research Group on Colour and Light of the Centre of Research for Architecture, Urbanism and Design (CIAUD) Lisbon School of Architecture, the event that celebrates the **20th Anniversary of the Colour Lab-Lisbon School of Architecture: Seminar LabCor-GI CorLuz: '(Im)materialities of Colour'**, January, 28, 2025. The programme is multidisciplinary, reflecting the

nature of the research projects developed in the two Colour Modules of ColourLab- EXPER•CROMA- Colour and Space Perception Module, and MED•CROMA - Colour Measurement and Analysis Module.

We invite you to continue to follow SGAD Instagram account (<https://www.instagram.com/aic.sg.arts.design/>) and keep up to date with art and design-related events. In addition, SGAD members who have artworks, design objects or art- or design-related projects or events that they would like to submit for posting on the SGAD Instagram account can send their proposed content to us in the form of one or more high-quality jpeg images (300 dpi) and a short description including hashtags in a text document.

We look forward to seeing you in person at AIC 2025 Congress in Taiwan!

STUDY GROUP ON COLOUR EDUCATION

CO-CHAIRS:

MAGGIE MAGGIO (USA) & ROBERT HIRSCHLER (HUNGARY)



AIC2024 Sessions on Colour Education, chaired by Maggie Maggio and Robert Hirschler.

In 2024 the SGCE focused its activities on the participation at the AIC Mid-Term Meeting in São Paulo and on the Colour Literacy Forums. Phase One of beta-testing for the Colour Literacy Project was completed and Phase Two of beta-testing was launched at the AIC meeting.

SGCE PARTICIPATION AT THE AIC 2024 MID-TERM MEETING IN SÃO PAULO, BRAZIL

Many SGCE members participated and presented papers at the highly successful event, which will be published in the forthcoming AIC2024 Proceedings.

During the conference on September 17, two focused sessions on “Colour Education” were held, chaired by **Maggie Maggio** and **Robert Hirschler**, where some members of the study group, scholars and post-secondary students presented their research projects and colour teaching methodologies. Additionally, on the same day, we organized a 90-minute Study Group meeting, which saw high participation from academics and students.

The SCGE meeting was conducted in two parts: first, **Luanne Stovall** and **Ingrid Calvo Ivanovic** provided updates on the Colour Literacy Project and invited attendees to join the *Post-Secondary Partners Network*, which will be implemented in the next phase of the project starting in 2025. In the second part of the meeting, Maggie Maggio led a card game session, which was greatly enjoyed by SG members who participated enthusiastically.

COLOUR LITERACY FORUMS - 2024 SERIES

In 2024, the Colour Literacy Project team organized four **Colour Literacy Forums**, as part of the *Colour in Context 2024 Series*. The series explored the intriguing and paradoxical nature of colour—both identifiable and ambiguous at the same time. This context-dependent quality of colour is deeply tied to a key epistemological question, making it one of the most debated topics in the philosophy of colour.



Photos of the SCGE meeting held during the AIC Midterm Meeting in São Paulo, Brazil.

Forum #7

We celebrated **International Colour Day** with the first Forum of the series titled 'Colour in Context, Part 1', on March 22, by featuring two presentations:

- **Valteri Arstila** (Professor of Theoretical Philosophy, Department of Behavioural Sciences and Philosophy, University of Turku), spoke about *The identity and ambiguity of colour from a philosophical perspective*
- **Harald Arnkil** (CLP Team Member, Visual artist, Colour researcher & Author *Colours in the Visual World*) explained why *Colours are contextual*.

Forum #8

We explored '**Colour in Spatial Contexts**', through the topic of *The Interaction of Colour and Light*, on June 13 by featuring three presentations:

- **David J. C. Briggs** (Colour Society of Australia), *Colours of objects and colours of illumination*
- **Sylvia Pont** (Delft University of Technology), *Lighting colours and colouring light*
- **Kine Angelo** (Norwegian University of Science and Technology), *Light and colour in urban colour composition*

Forum #9

We explored '**Colour in Historical Contexts**', through the topic of *Colour through Time: Histories, Meanings, Practices*, on November 8, featuring three presentations:

- **Patrick Baty** (author, *The Anatomy of Colour; Nature's Palette*), *Werner's Nomenclature of Colours*
- **Spike Bucklow** (author, *The Alchemy of Paint*), *Lapis Lazuli and Some Meanings of a Blue*
- **Judith Mottram** (Lancaster University, UK), *Why History Matters in Colour Education and Practice in Post-Compulsory Higher Education*

STUDY GROUP ON COLOUR EDUCATION

CO-CHAIRS:
MAGGIE MAGGIO (USA) & ROBERT HIRSCHLER (HUNGARY)



COLOUR LITERACY FORUM #8

A virtual platform featuring presentations and interactive conversations focused on updating and expanding 21st century colour education at the university level

The Interaction of Colour and Light

A Zoom Event
Thursday, June 13, 2024
10am - 11:30am US Eastern Time

Organized by the AIC-ISCC Colour Literacy Project with:

AIC Color Council Cumulus Association

THE TALKS & SPEAKERS

COLOUR IN CONTEXT SERIES, PART 2

Talk 1: Colours of Objects and Colours of Illumination
Dr David J. C. Briggs (Colour Society of Australia)

Talk 2: Lighting Colours and Colouring Light
Dr Sylvia Pont (Delft University of Technology)

Talk 3: Light and Colour in Urban Colour Composition
Kine Angelo (Norwegian University of Science and Technology)

REGISTRATION AT:
www.colourliteracy.org



COLOUR LITERACY FORUM #9

A virtual platform featuring presentations and interactive conversations focused on updating and expanding 21st century colour education at the university level

Colour Through Time: Histories, Meanings, Practices

A Zoom Event
Friday, November 8, 2024
11am - 12:30am - US Eastern Time

Organized by the AIC-ISCC Colour Literacy Project with:

AIC Color Council Cumulus Association

THE TALKS & SPEAKERS

COLOUR IN CONTEXT SERIES, PART 3

Talk 1: Werner's Nomenclature of Colours
Patrick Baty (author, *The Anatomy of Colour; Nature's Palette*)

Talk 2: Lapis Lazuli and Some Meanings of a Blue
Spike Bucklow (author, *The Alchemy of Paint*)

Talk 3: Why History Matters in Colour Education and Practice in Post-compulsory HE
Judith Mottram (Lancaster University, UK)

REGISTRATION AT:
www.colourliteracy.org



COLOUR LITERACY FORUM #10

A virtual platform featuring presentations and interactive conversations focused on updating and expanding 21st century colour education at the university level

The Cultural Palette: Colour's Role in Identity, Gender and Society

A Zoom Event
Friday, December 6, 2024
11 am - 12:30 pm - US Eastern Time

Organized by the AIC-ISCC Colour Literacy Project with:

AIC Color Council Cumulus Association

THE TALKS & SPEAKERS

COLOUR IN CONTEXT SERIES, PART 4

Talk 1: Lives in Colour: Pioneering Women in Colour History
Alexandra Loske (Royal Pavilion; author: *Colour - A Visual History*, *The Book of Colour Concepts*, among other books)

Talk 2: Blue Jeans: An Exercise in Contrast
Carolyn Purnell (author, *Blue Jeans*, *The Sensational Past: How the Enlightenment Changed the Way We Use Our Senses*)

Talk 3: "It's a Girl!" What Pink Reveals About Colour, Gender and Childhood in the 20th and 21st Century
Dominique Grisard (University of Basel, Switzerland, author: *Gendering Terror*, *Violent Times. Intersectional Gender Perspectives*)

REGISTRATION AT:
www.colourliteracy.org

Forum #10

The last Forum of 2024 was about 'Colour in Cultural Contexts', through the topic of *The Cultural Palette: Colour's Role in Identity, Gender and Society*, on December 6, featuring three presentations:

- **Alexandra Loske** (author, *Colour - A Visual History*), *Lives in colour: Pioneering women in colour history*
- **Carolyn Purnell** (author, *Blue Jeans*), *Blue jeans: an exercise in contrast*
- **Dominique Grisard** (University of Basel, author *Gendering Terror*), *"It's a girl!" What pink reveals about colour, gender and childhood in the 20th and 21st century.*

The Forums have been recorded and are available at <https://colourliteracy.org/colour-literacy-forum>.

UPDATES ON THE COLOR LITERACY PROJECT

This year, the Colour Literacy Project (CLP) website, curated by **Robin Kingsburgh**, expanded to include a dedicated section with exercises and resources for teachers.

Throughout 2024, the project continued its collaboration with partner schools to beta-test the exercises for foundational colour education. Four partner schools actively participated in this phase:



Workshop in Bunbury (a small city south of Perth).
Contributed by Paul Green-Armytage



Explaining additive and subtractive mixing during a workshop at the Fluminense Federal University, Niteroi RJ, Brazil. Photo: Gisela Monteiro.

- **St. Teresa RCP Elementary** in Irlam, England (coordinated by Colette Harrison);
- **Dongmaojie Elementary and Shazitang Elementary** in Changsha, Hunan, China (coordinated by Huang Qian);
- **DaVinci Middle School** in Portland, Oregon, USA (coordinated by Edin Cook);
- **Morristown Beard School** in Morristown, NJ, USA (coordinated by Peter Donahue).

The next year will bring the beginning of phase two of the project, CLP 2.0. The end of CLP 1.0. marked the launching of the **CLP Post Secondary Partners Network (PSPN)**. The CLP Partners Network is conceived as a cohort of post-secondary teachers (college, university, and professional training, among others) partnering with the CLP to beta test the materials and resources at the upper level of education, to provide feedback about the implementation of the exercises, and to share their innovative exercises, projects, and materials to contribute to the CLP Resource Library. Two PSPN Orientation Sessions were conducted in November 2024, and more than 30 teachers have signed up to be part of the Network. CLP 2.0 will see the growth, consolidation, and dissemination of the results of the PSPN action.

Beta-testing of educational materials will continue in CLP 2.0, incorporating feedback from post-secondary

educators and expanding collaborations with new international schools and institutions. This phase will focus on refining existing resources and ensuring they meet the diverse needs of all levels of top-down/bottom-up educators and learners worldwide. Future long-term goals include adapting the website and teaching materials into multiple languages and making the project more accessible to non English-speaking audiences. This initiative aims to facilitate wider dissemination, particularly in regions such as Asia and the Southern Hemisphere, to name a few. More academic dissemination and a comprehensive social media strategy will also be developed to strengthen the CLP's digital presence, engage a broader audience, and foster an active online community. Furthermore, the CLP will seek to establish knowledge alliances with academic and research institutions to apply for international funding and research grants. By securing financial support, the project can ensure its long-term sustainability, allowing it to continue expanding and evolving to meet the challenges and opportunities of 21st-century colour education.

ACTIVITIES OF SGCE MEMBERS AROUND THE GLOBE

In addition to the online Forums and the AIC2024 Midterm Meeting, study group members were active around the globe, with **Paul Green-Armytage** conducting workshops in Australia and China; and **Gisela Monteiro** in Brazil, among other activities.

STUDY GROUP ON COLOUR VISION AND PSYCHOPHYSICS

CHAIR: SHOJI SUNAGA (JAPAN)

SECRETARY: CHANPRAPHA PHUANGSUWAN (THAILAND)

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

ACTIVITIES

- Currently, the number of members of the SG is 102 from 16 countries.
- We are hosting the SG homepage using the following website: <http://www.okajima-lab.ynu.ac.jp/CVPSG/> (the URL will move to a new URL soon).
- We are planning to make a new website.
- SG members reported some interesting research related to the SG.

RECENT RESEARCH TOPIC

For accurate colour reproduction, an observer's cone spectral sensitivity must match the standard observer's cone fundamentals. When this difference appears in the colour difference on color reproduction, it is called observer metamerism. Recently, the development of wide gamut colour displays has made this observer metamerism a problem. Observer metamerism is particularly prominent in anomalous trichromats

because their cone spectral sensitivity differs from that of the standard observer's cone fundamentals and wide gamut colour displays employ a narrow band spectral distribution of the primary colors [1, 2]. Inoshita et. al. * reported observer metamerism in this wide gamut colour display. Their study is introduced here.

Inoshita et. al. used two viewing booths as the apparatus (Figure 1). One of 16 colour chips illuminated by the D65 fluorescent illumination was presented in one booth. The additive mixture colour field consisting of a red, a green, and a blue was in the other booth. The colour chip and the colour field were surrounded by the gray background with a white band, respectively. The colour field was behind of the gray background and was observed through the window on it. The peak wavelengths of the RGB monochromatic lights were 630 nm, 533 nm, and 463 nm, respectively, with a narrow half bandwidth of 10 nm (Figure 2). One protanomalous trichromat (PA1) and two deuteranomalous trichromats participated (DA1 and DA2) in the experiments. One (DA2) of the deuteranomalous trichromats, who was a severe deuteranomalous trichromat, failed the Panel D-15 test whereas the others passed it. The observer's task was to adjust the luminance and the chromaticity of the additive mixture colour field to match the colour chips. The chromaticities of matched colours shifted along the protanopic or deuteranopic confusion lines for each anomalous trichromat. The matched colours shifted to converge toward the centre of confusion colours for the protanomalous trichromat (PA1, Figure



Figure 1: The apparatus and the stimuli used in the experiment

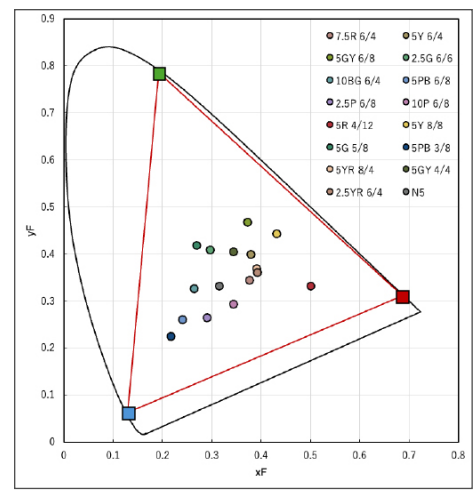


Figure 2: The chromaticities of 16 test colour chips and the colour gamut of the additive mixture colour field.

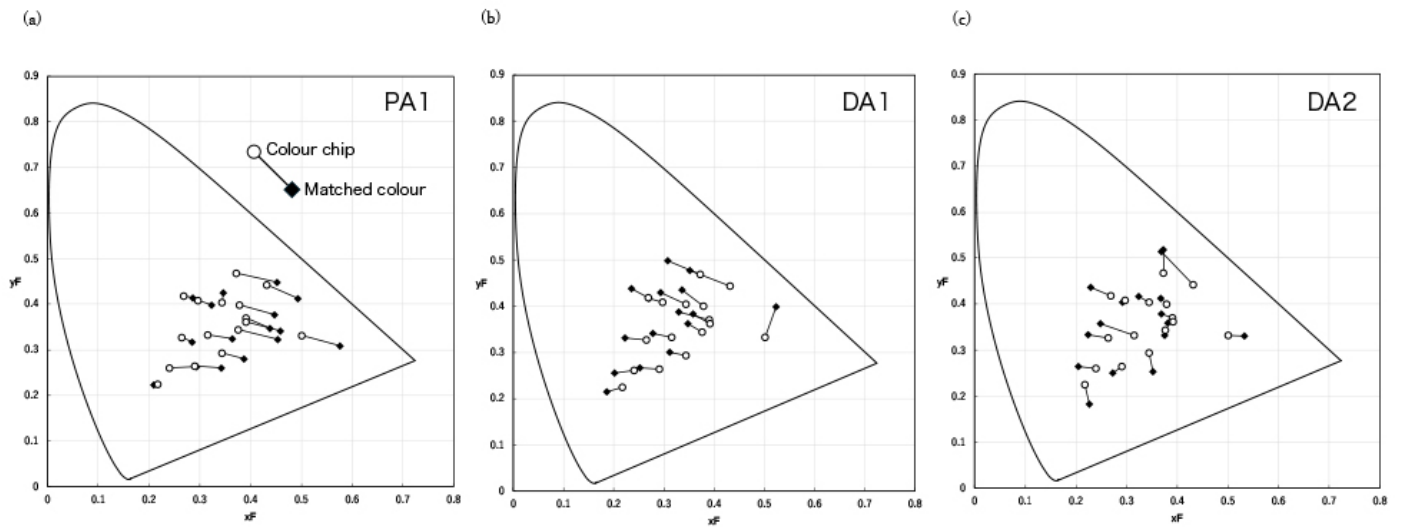


Figure 3: The chromaticities of matched colours for (a) PA1, (b) DA1, and (c) DA2.

3a). For the deuteranomalous trichromat (DA1, Figure 3b) who passed the Panel D-15 test, the matched colours shifted to diverge from the centre of confusion colours. However, for the severe deuteranomalous trichromat (DA2, Figure 3c), although the matched colours to the greenish colour patches shifted to diverge from the centre of confusion colours, those to the reddish colour patches shifted to converge toward it. These results suggest that the tendency of colour shifts due to observer metamerism depends on the degree of anomalous trichromacy. Although the ITU recommends the wide colour gamut display system [3], it may arise a serious problem on the colour appearance of anomalous trichromats.

* This study is presented at the ICVS 2024 (Ljubljana, Slovenia, July 5-9, 2024) by Inoshita et.al. (Kyushu University, Japan).

References

- [1] Ramanath, R. (2009). Minimizing observer metamerism in display systems. *Color Research & Application*, 34(5), 391-398.
- [2] Sunaga S. et al. (2018). Observer metamerism in wide color gamut display for anomalous trichromats, *Proceedings of the 4th Conference of Asia Colour Association*, 236-240.
- [3] ITU-R. (2017). Image parameter values for high dynamic range television for use in production and international programme exchange, Recommendation ITU-R BT.2100-1.

FUTURE EVENTS

The 8th Asia Color Association Conference, at Chulalongkorn University, Bangkok, Thailand, November 13-16, 2024.

STUDY GROUP ON ENVIRONMENTAL COLOUR DESIGN



CHAIRS: VERENA M. SCHINDLER (SWITZERLAND)
JUAN SERRA LLUCH (SPAIN)
WWW.AICECD.ORG



Colorful Landscape / Vibrant City - Seminar Poster designed by Beichen Yu.

COLOURFUL LANDSCAPE / VIBRANT CITY

Underpinned with examples ranging from the mid-18th century to the most recent times, the seminar entitled “*Colourful Landscape / Vibrant City*” explored theories and trends in landscape and urban design in which colour is a leading conceptual element.

Mira Engler, Emerita Professor of Landscape Architecture at Iowa State University, inquired into ‘*Colour Concepts in Landscape Architecture: From Camouflage to Activism*’. She critically engaged in analysis and discussion of colour in landscaping. Although she argued that landscape architects have largely remained silent about colour, she provided insightful evidence and stunning examples. Thereby, garden festivals, installations in public gardens, social and political activism as well as botanical, technological, material, aesthetic, lighting and digital innovations have been crucial for a rapid and spectacular development of colour over the last two centuries.

The presentation by **Zena O’Connor** on ‘*Linking Heritage and Contemporary: Managing Heritage Values with Contemporary Colour Palettes*’ discussed colour palettes as a tool for dealing with highly contrasting architectural styles to enhance the overall visual aesthetics and amenity of an urban landscape. Using a digital methodology, a series of colours (in terms of hue, value and saturation) is produced that can be rearranged into colour-scheme options for façades for practical application.



SG ECD Meeting at AIC 2024 São Paulo, including the three presenters in the centre surrounded by participants.

Beichen Yu dealt with a highly topical subject ‘Towards Urbanisms of Colour: Exploring New Colour Trends in Landscape Architecture’. Her talk was truly informative as she analyzed the use of saturated or bold colours in the urban environment over the last twenty years. In her research, she did not focus on the context but on individual projects or, in terms of Gestalt psychology, not on the ‘background’ but on the ‘figure’. She argued that the reasons for this colour phenomenon, where the ‘Instagrammable spots’ become the coolest moments of a city trip, is the introduction of social media and thus the changing interaction between users and urban space. She claimed that a new kind of cosmopolitan lifestyle and the globalisation of colour expressions in branding have boosted the semiotic role of colour.

The seminar was organized on the initiative of **Beichen Yu** together with the SG ECD chairs, **Verena M. Schindler** and **Juan Serra**, and the Universitat Politècnica de València, Spain, on the occasion of the International Colour Day.

SG ECD MEETING AT AIC 2024 BRAZIL

During the AIC 2024 Midterm Meeting in São Paulo, Brazil, an SG ECD meeting took place on 17 September.

It was a unique occasion to meet in person three influential book authors.

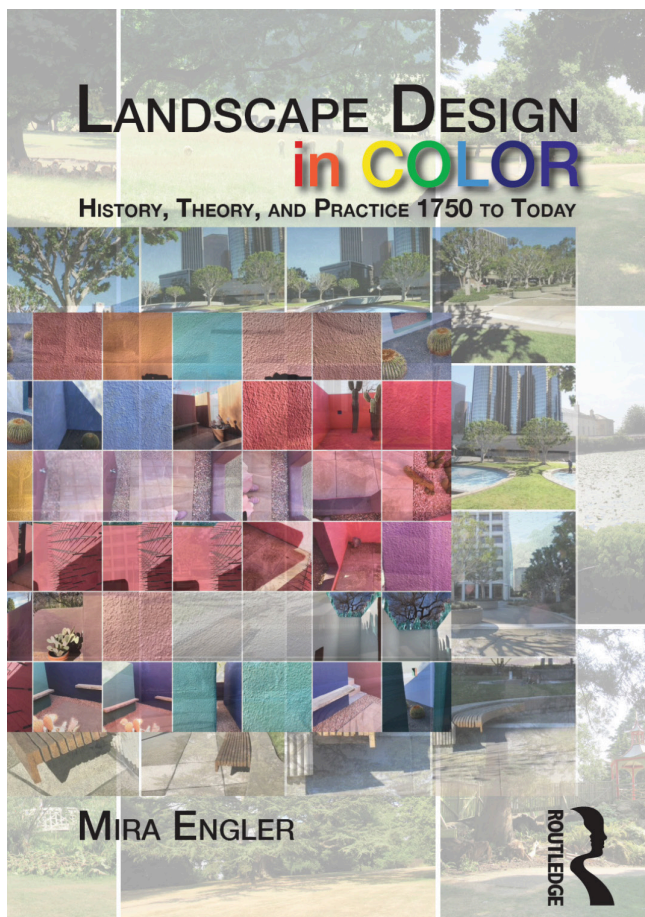
Mira Engler discussed her highly recommended book on *Landscape Design in Color: History, Theory, and Practice 1750 to Today* (Routledge, 2023). Colour in the landscape has been influenced not only by landscape and garden designers but primarily by architects and artists. Botanical and technological developments, commercial and industrial design as well as cultural forces such as consumerism, fashion and trends had an impact on colour expressions ranging from complementary colour concepts and artificial lighting to the use of digital projections.

Gareth Doherty, editor of *New Geographies 03: Urbanisms of Color* (Harvard University Press, 2010), presented the volume containing a collection of twenty-six articles. One of them is a paper by SG ECD member Jianming Song (with co-authors Yin Di and Yifan Li) on the colours of Macao.

Juan Serra presented his book *Color for Architects* (Princeton Architectural Press, 2019). The book not only deals with the basics of colour and perception theory, but also contains exercises. Using examples,

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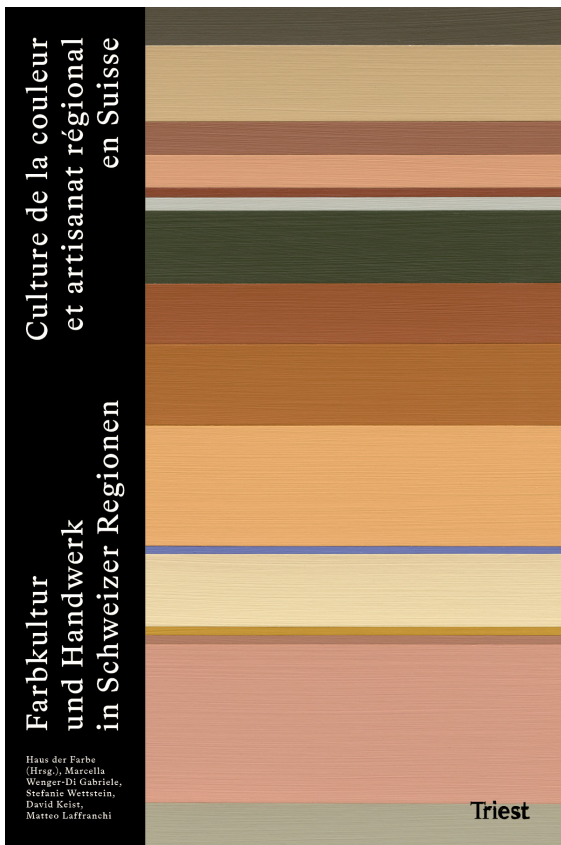
Mira Engler (2023) Landscape Design in Colour.

colour concepts of renowned buildings are analyzed and colour harmonies for architectural projects are discussed. The indispensable digital tools for architects are described in the third part of the book, for example, how to calibrate a monitor, edit digital photographs and print them in the correct colours.

ONGOING PROJECT

In 2024 the Special Collection on Environmental Color Design Research of the journal *Color Research and Application* has been enlarged with three articles:

- **Francesca Valan**, Pietro Paglierani (2024): Connecting the new to the past: The Color-Material-Finish design approach applied to the Fortezza da Basso. *Color Research and Application*. 2024; 49(4): 384-400. <https://doi.org/10.1002/col.22923>
- **Esra Küçükkılıç Özcan**, Kasım Çelik (2024): Environmental color analysis and facade color design in a street rehabilitation: Adana, Kayalıbağ. *Color Research and Application*. 2024; 49(5): 433-448. <https://doi.org/10.1002/col.22926>



Haus der Farbe, ed. (2024) Farbkultur.



ark 4 (2024) Special issue on colour design.

- **Katia Gasparini** (2024) Urban Color Plan: The case study of the Ledro Valley (Italy). *Color Research and Application*. 2024; 49(6): 618-634. <https://doi.org/10.1002/col.22947>

Scholarly articles can be submitted on the journal's website: [https://onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)1520-6378.environmental-color](https://onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1520-6378.environmental-color)

PUBLICATIONS BY SG ECD MEMBERS

- Haus der Farbe, Ed. (2024), **Stefanie Wettstein**, et al. *Farbkultur und Handwerk in Schweizer Regionen. Culture de la couleur et artisanat régional en Suisse*. Zürich: Triest Verlag.
- **Alexandra Loske** (2024) *Mary Gartside c.1755-1819: Abstract Visions of Colour*. London: Paul Holberton.
- ark - Finnish Architectural Review 4 (2024) Colour. It includes 'Short Syllabus in Colour Research', an inspiring article by **Saara Pyykkö**.

New SG ECD members joining in 2024 include:

- Alexandra LOSKE (UK)
- Amber SCOTT (US)
- Anamaria REZENDE (BR)
- Faten HUSSEIN (TN)
- Gareth DOHERTY (US)
- Jaeun CHO (KR)
- Lauren Nicole GONÇALVES DUARTE (BR)
- Lina SCHMIDT (DE)
- Maria Fernanda PILOTTO BRANDI (BR)
- Monica TAVARES (BR)
- Monique DENONI (BR)
- Natalia NAOUMOVA (BR)
- Nicole HARTMANN (CH)
- Sharon AVITAL (IL)
- Shigeki NAKAUCHI (JP)
- Sonia VAN DE HAAR (AU)

STUDY GROUP ON THE LANGUAGE OF COLOUR



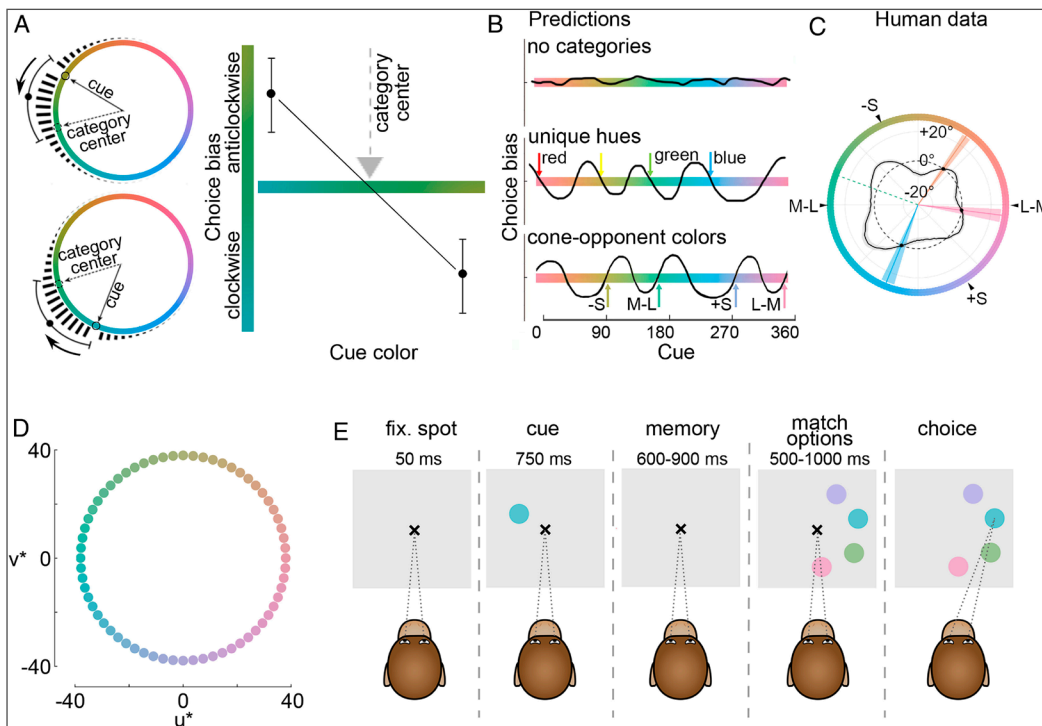
CHAIR: A. PROF. DIMITRIS MYLONAS (UK)
CO-CHAIR: PROF. GALINA PARAMEI (UK)
WWW.LANGUAGE-OF-COLOR.AIC-COLOR.ORG

The purpose of the AIC Study Group on the Language of Colour (SGLC) is to share information on and discuss studies on psycholinguistics, computational linguistics, semantics and semiotics of colour names, and the relation of these to perception of colour and its underpinning cognitive and neural mechanisms. Currently the SGLC has 225 registered members from 63 countries. Social networking platforms of the SGLC in X (@aic_lc) and Facebook (@languageofcolour) have currently 993 and 571 followers respectively. Our new LinkedIn group is growing fast with 67 member at <https://www.linkedin.com/groups/12923723/>

In 2024, SGLC members made key contributions to our field.

Notable publications are listed below.

- Garside, Daniel J., Audrey L. Y. Chang, Hannah M. Selwyn, Bevil R. Conway. 2024. "The origin of color categories." *Proceedings of the National Academy of Sciences of the U.S.A.*, 122(1): e2400273121. <https://doi.org/10.1073/pnas.2400273121>
- Sinkeviciute, Akvile, Julien Mayor, Mila Dimitrova Vulchanova, Natalia Kartushina. 2024. "Active language modulates color perception in bilinguals." *Language Learning*, 74(S1), 40–71. <https://doi.org/10.1111/lang.12645>



Nonverbal paradigm to recover colour categories in nonhuman primates compared to human colour category data. Garside et al. 2024.

- Griber, Yulia A., Tatiana Samoilova, Abdulrahman S. Al-Rasheed, Victoria Bogushevskaya, Elisa Cordero-Jahr, Alexey Delov, Yacine Gouaich, James Manteith, Philip Mefoh, Jimena Vanina Odetti, Gloria Politi, Tatyana Sivova. 2024. "Playing" with color: How similar is the "geometry" of color harmony in the CIELAB color space across countries?" *Arts*, 13(2): 53. <https://doi.org/10.3390/arts13020053>
- Bogushevskaya, Victoria. 2024. "A study in scarlet: Cultural memory of the tropes related to the color red, female countenance, and onstage makeup in the Sinophone world." *Semiotica*, 261, 209-225. <https://doi.org/10.1515/sem-2023-0186>

Furthermore, Dimitris Mylonas, Galina Paramei and Jules Davidoff are co-editors of the Special Collection on Color Cognition launched in June 2023 in the journal *Color Research & Application*, Wiley: <https://onlinelibrary.wiley.com/page/journal/15206378/homepage/color-cognition>

We invite members of the SGLC to submit their articles for publication in the Special Collection.

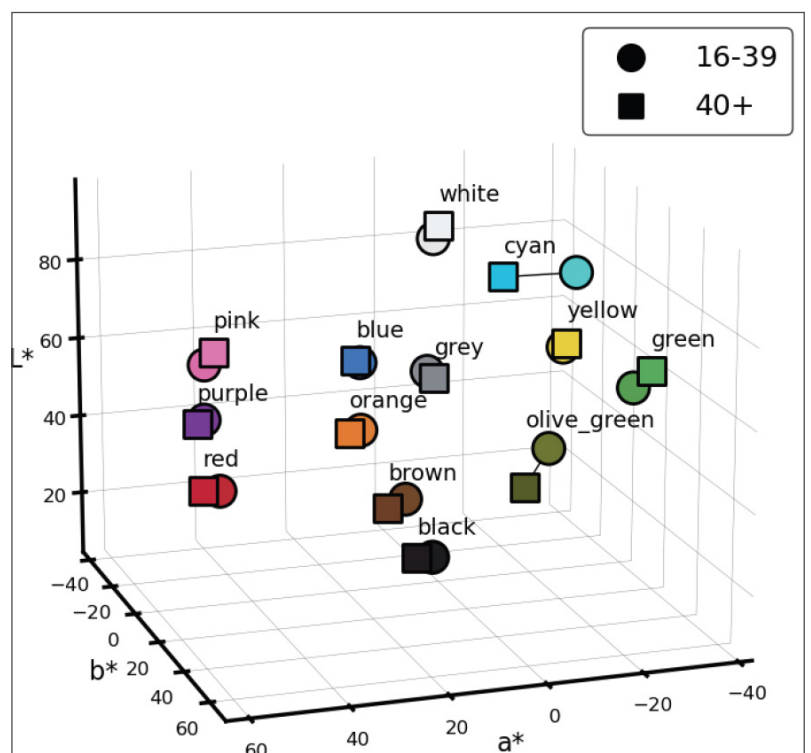
In 2024, the Special Collection was expanded by 5 publications of members of the SGLC:

- Minoru Ohkoba, Tomoharu Ishikawa, Kota Kanari, Shoko Hira, Sakuichi Ohtsuka, Miyoshi Ayama, "Color representations of normals and congenital red-green color deficiencies based on differential scaling of color-names and color-naming experiments".
- Humberto Moreira, Leticia Álvaro, Julio Lillo, "Color blindness and semantic knowledge: Cognition of color terms from elicited lists in dichromats and normal observers".
- Camilla Simoncelli, Philippe Gréa, Maria Kihlstedt, "From color naming to color perception: Cross-linguistic differences of the chromatic information processing in monolingual and bilingual speakers".
- Wakui Elley, Dimitris Mylonas, Serge Caparos, Jules Davidoff, "Categorical color perception shown in a cross-lingual comparison of visual search".
- Epicoco Déborah, Christine Mohr, Mari Uusküla, Michael Quiblier, Maliha Bouayed Meziane, Eric Laurent, Giuffa F.M. Spagnulo, Domicela Jonauskaitė. "The PURPLE mystery: Semantic meaning of three purple terms in French speakers from Algeria, France, and Switzerland."

Several members of the SGLC gave presentations at the 27th Symposium of the International Colour Vision Society held on 5th-9th July 2024 in Ljubljana, Slovenia,

STUDY GROUP ON THE LANGUAGE OF COLOUR

CHAIR: A. PROF. DIMITRIS MYLONAS (UK)
CO-CHAIR: PROF. GALINA PARAMEI (UK)
WWW.LANGUAGE-OF-COLOR.AIC-COLOR.ORG



Centroids of basic and non-basic colour terms for two age groups (Sinkeviciute et al.).



Galina Paramei and Dimitris Mylonas at AIC 2013 in Newcastle upon Tyne, UK.

as part of the Colour Cognition session. Among these were presentations by:

- David L. Bimler, “Which is more basic, ‘light’ or ‘neon’? English color-term modifiers examined with color-survey data”
- Akvile Sinkeviciute, Heather Ferguson, Dimitris Mylonas, “Ageing and colour language in English speakers” (supported by the WD Wright Award from the Colour Group GB)

January 2025 marks a significant milestone as we celebrate 10 years as Chairs of the Study Group on the Language of Colour (SGLC) within the AIC. Over the past decade, we have focussed on expanding the membership, maintaining our custom website and social media presence, organising SGLC sessions at the annual AIC meetings, and authoring annual reports. We also actively participated in organising international conference *Progress in Colour Studies* (PICS 2016, London, and PICS 2022, Tallinn), as well

as in preparing collective monographs based on the PICS presentations (published by John Benjamins) and serving as co-editors of the aforementioned Special Collection on Color Cognition.

While we remain committed to promoting the language of colour, we believe it is time to step down in January 2025 to allow fresh ideas and perspectives to drive this work forward. The existing website (available at: <http://language-of-color.aic-color.org/>) of our study group will be archived, but the dedicated page on the AIC website will continue to be used.

We sincerely thank the AIC Executive Committee for their trust and support over the years and look forward to the announcement of our successors.

Thank you again for the privilege of serving this vibrant colour community.

Dimitris & Galina

STUDY GROUP ON COLOR IN GAMES AND TOYS

CHAIRS: ALESSANDRO RIZZI (ITALY)
ANDREA SINISCALCO (ITALY)

In February 2024, the AIC executive committee approved the formation of the AIC Study Group on Color in Games and Toys. The page of the study group has been published on the AIC website (<https://aic-color.org/sg-cgt>), and the group made its official debut during the AIC mid-term meeting in September in São Paulo, Brazil.

The AIC Study Group in Games and Toys focus on analysing colour in gaming contexts, with particular emphasis on games, video games, and toys. Its goal is to bring together researchers, experts, and enthusiasts in the field to explore the role and impact of colour in these applications in greater depth.

The group's primary activity involves examining how colour choices influence the gaming experience, exploring the psychology of colour in toys, and analysing how colour palettes can stimulate creativity and support learning processes in both children and adults. Special attention is also given to accessibility for colour-blind users.

The group serves as a platform for professionals from various fields to exchange ideas, opinions, findings, and best practices related to the use of colour in play. The group is new and expanding and invites anyone interested in these topics to join (sg-cgt@aic-color.org). The Study Group organised a special session on Colour in Games and Toys in the mid-term meeting AIC2024, which was held in September in São Paulo,

Brazil (<https://aic2024.org/>). Five papers presented issues related to board games and video games in the session.

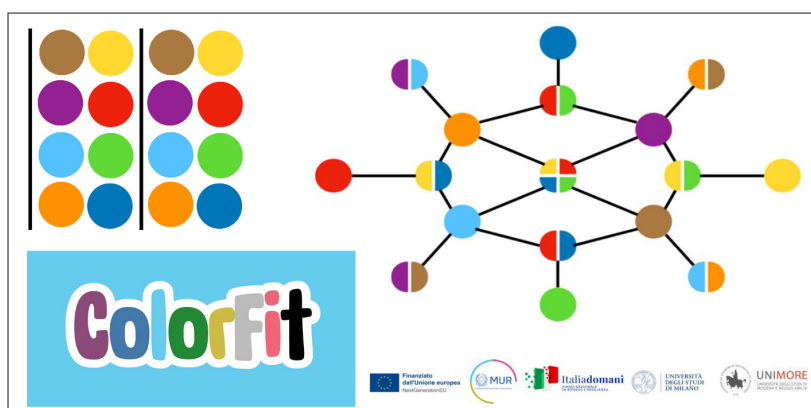
The study group also organised a special session on colour in Games and Toys during the Color Conference CdC2024 of the Associazione Italiana Colore (Italy), which was held online in November (<https://www.gruppodelcolore.org/portfolio-articoli/online-2024/>). Three papers focused on colour in board games and role-playing games were presented in this session.

Another ongoing activity of the study group revolves around a financed project of the Italian government. The Italian Ministry of University and Research has funded a project called Game4Ced (Gamification for colour blindness early detection), which aims to design board games to be used in primary school classes to discover, as soon as possible, the presence of colour-blind children and, at the same time, to raise awareness among teachers about what colour blindness is and how to manage it in the classroom.

In detail, the project Game4CED combines board games and research on colour blindness with the objectives of 1) developing a board game as an educational instrument for colour blindness early detection, 2) increasing people's awareness of colour blindness, and 3) Improving inclusivity. This project belongs to the human well-being strategic theme since it provides new tools for teachers and educators to create a more inclusive school practice. In particular, teachers will be involved in the development and use of project tools.



Alessandro Rizzi, one of the Chairs of the AIC Study Group on Color in Games and Toys speaks during the dedicated special session at AIC Midterm Meeting 2024 in São Paulo, Brazil.



Images taken from the ColorFit board game, developed in the frame of the Game4Ced, Gamification for color blindness early detection, granted by the Italian Ministry of University and Research (MUR PRIN PNRR, CUP Master G53D2300721-0001)

One of the main goals is the development of ColorFit, a new board game for children that can be used to detect colour blindness early and preemptively.

ColorFit development is performed after analysing the most diffused games and the accessibility metrics derived from the study of board games' inclusivity. The diagnosis of colour blindness in children leads to a better understanding of this condition, improved well-being, and decreased risk of discrimination.

ColorFit print&play file can be downloaded from here: <https://boardgamegeek.com/boardgame/427602/colorfit>