



Inter - Society Color Council
Quarterly Newsletter
Summer 2022
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Venice Biennale
Photo credit: Javier Morales, @moro.folio

ISCC Board of Directors Corner

Anthony Calabria

Hello color enthusiasts! It's an honor to have been recently elected to the Board of ISCC. I hope sharing my experiences in this fascinating field will enable continued growth and excitement in the ISCC.

I came into this field through a lifetime interest in physics, optics, and photography. Whether watching light patterns dance on the walls when interacting with the chandelier pendants in my childhood dining room, or practicing dodge-and-burn techniques in photography class, there seemed to be endless opportunities to explore light and color.

In high school I dreamed of being a sports photographer. At my father's insistence, I entered the local KINSA (Kodak International Newspaper Snapshot Awards) photo contest and won \$250! At the awards dinner I learned about the excellent photography program at Rochester Institute of Technology (RIT) and decided that was my next step. While I continued to be interested in photography, my strengths in math and science pointed me more toward engineering fields, and I enrolled in RIT's interdisciplinary Imaging Science program that I learned of through its College and Careers program. This marriage between photography and science, between aesthetics and technology, has enabled a journey with some interesting twists and turns over the years.

When I was an undergrad, I struggled to see how this knowledge translated to the real world. A 6-month co-op working in the cosmetics industry at Estee Lauder provided the guidance I needed with an introduction to visualization technology, color gamut visualization, and custom color matching. This experience led me to color technology and eventually the Color Science program at RIT. So back to RIT for a few more years studying at the Munsell Color Science Lab.

Armed with a graduate degree in Color Science, I was given an opportunity to join Sun Chemical Ink in Carlstadt, NJ and use my knowledge to build tools and start solving problems in the graphic arts industry while learning about partnerships, project management and sales.

I then made a move to join the Color Technology team at Benjamin Moore Paints in the architectural paint industry. This team has a long history of innovation dating back to the early days of custom color matching in retail outlets. In addition to projects concerning color matching and quality, this experience introduced me to projects in automation, manufacturing, and Lean Six Sigma.

Following that experience, I joined the Color Technology team at Axalta Coating Systems where I've been spending a good amount of

time with automotive and industrial coatings. This is another team with a proud history of developing the tools and technology associated with the challenges introduced by effect pigments in these coatings. Most recently I'm leading teams focused on data modeling, sensing, and automation systems for a variety of applications.



Anthony Calabria

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A First Tribute to Danny C. Rich

Paula J. Alessi



Danny Clark Rich was taken from us too soon (April 23, 1951 – July 3, 2022). Tragically, he could not recover from his injuries sustained in a three-car accident on July 1, 2022. The obituary can be found at <https://www.legacy.com/us/obituaries/dailymemphian/name/danny-rich-obituary?id=35647000>

For most ISCC members, Danny was our rock. He knew the answer to most of the color questions that troubled us and his answers came with a very gentle, humble response. He was a learned scholar, coveted colleague and colorful friend to all ISCC members, young and old. His active involvement with AIC, CIE and ASTM means that his loss will be felt by all color enthusiasts worldwide. The national and international color world will never be the same without Danny C. Rich in it!

D is for his dedication to color research, colleagues, and friends

A is for his altruistic spirit using his vast color knowledge to help others

N is for his novel approaches to doing cutting edge color research that led to many patents

N is for the natural way that he represented color science in the USA and around the world

Y is for the yeoman's job that he did as an ISCC leader

Roy Berns and I will be writing an "In Memoriam" for the Fall ISCC Newsletter that honors the legacy of Danny Rich. If you have some memories or anecdotes you would like to share with our membership, please email them to Paula at geinhaus@frontiernet.net by **August 31**. We look forward to hearing from you with your stories to honor the memory of Danny Rich.

Paula J. Alessi



Colour Literacy Forum

Luanne Stovall

It is a pleasure to announce the launch of **The Colour Literacy Forum**, a joint partnership of the Inter-Society Color Council (ISCC), the International Color Association (AIC), the AIC Study Group on Colour Education, and Cumulus, the leading global association of art and design education and research that has over 350 member institutions from 63 countries.

In support of the overall goals of the Colour Literacy Project, this international initiative is dedicated to building a new paradigm for 21st century color education at the university level, based on an interdisciplinary collaboration between the arts and the sciences. The inaugural forum took place on April 22 as an online event.

Background: In September of 2021, the Colour Literacy Project--University Level team was formed with team members Robin Kingsburgh, Harald Ankil, Ingrid Calvo Ivanovic, Maggie Maggio, Robert Hirschler, Jennifer Logan, and Luanne Stovall.

Over several months, the team worked to establish long term goals that include the following objectives:

- **Design a global awareness-raising campaign** focused on the role of an updated STEAM (Science, Technology, Engineering, Arts, Math) color education model at the university level. The purpose of the campaign is to effect systemic change in the way that color is understood and taught, based on state-of-the-art color research and applications in diverse industries.
- **Create a platform for university level educators, administrators and students** to share research and resources through forums that offer talks and presentations, panel discussions, workshops, short courses and symposia.
- **Build a comprehensive website** that provides updated educational materials, teaching tools and diverse discipline-focused color curricula.

21st century color represents a fundamental shift in our understanding of color and its role in our lives. Like a sea change, this paradigm shift can feel unpredictable and unsettling because – as we evolve, we are constantly re-evaluating entrenched notions about color to provide the most relevant, state-of-the-art education.

The team agreed that it is essential to bring together the education ecosystem at the university level, because systemic change takes place from the top-down and the bottom-up. Administrators are responsible for allocating funds

for new initiatives that support innovative curricula for faculty and provide impactful knowledge and skills for students. To build the next generation of color education, it is important to open new lines of communication between diverse disciplines in the arts and sciences, and connect the dots. This is a long-term global project, and we need all hands on deck!



Calvo Ivanovic's study was conducted as part of her doctoral research that proposed to develop a **Colour Design Training Itinerary (CDTI)** as a complete educational framework for the teaching and learning of color in diverse design disciplines. The study aimed to identify the main didactic strategies implemented and recognize the critical aspects needed for an innovative color training framework. The methodology was based on desk research and consultation with teachers, resulting in a comparative study of the syllabi of more than 100 color-based courses. Analysis of formal aspects include the course level, course duration, entry profile of the students, specific disciplinary area, type of institution and more. Among the elements of the didactic strategies that were analyzed were the learning outcomes, course content, teaching strategies and suggested bibliography.

After Calvo Ivanovic's talk, participants continued the conversation in breakout rooms focused on the question: What kind of support and resources are essential to implement an updated color curriculum at your university?

The plan for this year is to host four Colour Literacy Forums -- two in the fall and two in the spring. The September forum will present innovative solutions and lesson plans for teaching color online from three university professors from art, design, and science. Tentatively, the November forum will be a collaboration with Cumulus, taking place at the Cumulus conference in Detroit, Michigan -- and online. This forum will introduce the three pillars of the color perception triangle (light, objects, perceiver) with a focus on light. Stay tuned!

April 22 / Colour Literacy Forum:

Ingrid Calvo Ivanovic was the inaugural speaker for the April forum. Her presentation was An analysis of state-of-the-art colour teaching in design programs of higher education institutions around the world during the last decade.



AIC Online Conference June 13-16, 2022

Topic: Sensing Colour

Paula J. Alessi, ISCC Liaison to AIC

The Colour Research Society of Canada (CRCS) hosted the very successful online AIC 2022 Midterm Conference on Sensing Color in June. Kudos to the organizers for making this the best virtual conference that I have ever attended! Special thanks go out to the conference co-chairs: Doreen Balabanoff and Robin Kingsburgh and the conference program chairs: Robin Kingsburgh and Brian Funt.

The highlights of the conference were the keynote speakers and the special lecture. These presentations were outstanding as they featured 21st century information on all aspects of color. Listeners walked away with new and inspiring color perspectives. The question-and-answer sessions were also lively and invigorating!

The two parallel presentation sessions offered oral talks from either the technical side of color or the artistic side of color. The technical sessions were on Color Science, Color and Language, Color and Cultural Preferences, Color in Health and Design, Color Education: Traditional Color Theory including Historical Connections to New Innovation, and Color Education: Teaching Innovations and Methodologies. The artistic sessions were on Color Design, Color in Architecture, Color and Buildings, Art Inspiration and Materials, Environmental Color Design, Color in the Landscape, and Color in Aesthetics and Culture.

The short video presentations for the poster sessions were exemplary and illustrated a successful model that can be used at future AIC meetings featuring a virtual component.

Pheedloop was used as the event management software and for the most part, it worked beautifully! There were plenty of opportunities for virtual networking among participants and between authors and participants. So Pheedloop helped us have the best virtual experience possible. It was "the next best thing to being there."

It was refreshing to see so many students present oral and poster papers. Six students received Paper Awards. Two students received the Outstanding Student Paper Award from the Canadian National Committee of the International Commission on Illumination (CNC-CIE). The Colour Group of Great Britain awarded three students the Robert W. G. Hunt International Poster Award. Finally, the CRSC/AIC 2022 Sensing Color Award went to C.C. Hart of the International Association of Synaesthetes, Artists and Scientists.

Several workshops will be held both online and in-person in Toronto. Having participated in two of the virtual ones, I can say that these workshops were successful, useful and fun!

ISCC extends a warm thanks to CRSC for their outstanding AIC 2022 Mid-term Conference on Sensing Color.

Respectfully submitted,
Paula J. Alessi

ASTM Committee E12 on Color and Appearance

ASTM Committee E12 on Color and Appearance (E12) was formed in 1948. E12 meets twice a year, typically in January and June, with about 20 plus members attending two days of technical meetings. The committee, with a membership of approximately 160, currently has jurisdiction of 75 standards, published in the Annual Book of ASTM Standards, Volume 6.01 and has 11 subcommittees that maintain jurisdiction over these standards¹.

The scope of the E12 committee is to promote knowledge of color and appearance properties and characteristics, and to encourage the improvement and development of standards for describing and evaluating appearance properties².

This is achieved by:

- Stimulating and sponsoring research into color and appearance problems.
- Formulating terms, nomenclature, and definitions generally applicable for describing color and appearance.
- Developing, or coordinating with other technical committees to develop standards for measuring fundamental and general properties.
- Developing standard specifications for those attributes of color and appearance which are appropriate.
- Assisting other technical committees to improve color and appearance standards and specifications by advice, suggestions, and dissemination of information.
- Reviewing and recommending approval or revision of ASTM standards, existing or proposed, involving color and appearance factors.
- Serving, with the approval of the ASTM Board of Directors, as liaison agent between the Society and other organizations in matters concerned with factors of color and appearance.

Committee E12 most recently convened on June 9-10, 2022. Throughout the pandemic, in accordance with ASTM International directives, E12 committee meetings are conducted virtually with members participating via remote WebEx sessions.

Ordinarily, in-person meetings are often scheduled to coincide with an ASTM International Committee Week in one of several reoccurring locations; for example Atlanta, Houston or New Orleans. ASTM International Headquarters in West Conshohocken, PA or NIST (National Institute of Standards and Technology) in Gaithersburg, MD are also recurrent venues of choice.

To ensure fairness, productivity and efficiency, technical committee meetings are conducted in accordance with the Robert's Rules of Order. Motions are used to approve the agenda and minutes, place an item on ballot, establish a task group and adjourn a meeting³.

E12 meetings begin with the E12.90 Executive. There is a presentation of the Membership Report followed by the Staff Managers report. Each respective Subcommittee Chair is then called upon to provide a synopsis of forthcoming discussion items highlighting any standards alerts. Following are a series of administrative subcommittee reports (Liaison, Planning, Editorial and Awards) and concludes with a review of old and new business.

Subcommittees address specific segments within the general subject area and scope of E12. Each technical subcommittee provides a report on balloted results since the last meeting – negative ballot votes are discussed and actioned. The status of standards under the jurisdiction of each technical subcommittee is reported. Standards may require no action (current); require review (4 years since last ballot action/revision); or require ballot for re-approval, revision or withdrawal (5 years since last ballot action/revision). New Standard and Reinstatement Work Items (not currently on ballot) and Task Group Reports (other than work items) are also brought forward for discussion.

E12 meetings conclude with E12 Main which recaps the proceedings and confirms subcommittee actions. Items requiring E12 Main and/or E12.90 Executive approval are also reported.

Any interested individual can participate on Committee E12 through ASTM membership.

You can access membership information at the following website: <https://www.astm.org/get-involved/membership.html>

Committee E12 technical subcommittee structure

E12.01 Terminology
E12.02 Spectrophotometry and Colorimetry
E12.03 Geometry
E12.04 Color and Appearance Analysis
E12.05 Fluorescence
E12.06 Display, Imaging and Imaging Colorimetry
E12.07 Color Order Systems
E12.10 Retroreflection
E12.11 Visual Methods
E12.12 Gonioapparent Color
E12.13 Photoluminescent Safety Markings

Committee E12 administrative subcommittee structure

E12.90 Executive
E12.92 Liaison
E12.93 Precision and Bias
E12.94 Planning
E12.95 Publications
E12.96 Editorial
E12.97 Awards

¹<https://www.astm.org/get-involved/technical-committees/committee-E12>

²<https://www.astm.org/get-involved/technical-committees/committee-e12/scope-e12>

³<https://sn.astm.org/?q=how/robert%E2%80%99s-rules-tool-nd18.html>

2022 Annual Meeting

The 2022 ISCC Annual Meeting will be held virtually on Monday October 24, starting at 2pm eastern time. The specific agenda will be announced in September or early October, along with connection details. We do know now that the meeting will take three parts:

The first hour will be the 2021 Godlove Lecture, a presentation by RIT researcher Mark D. Fairchild, (title TBD). [note to Editor: yes, 2021]

After a short break, we will move into the formal reports from the Board, as required by the By-laws. This will include input from the general audience as time permits.

Once the official proceedings are completed, we will adjourn and open an informal "Colorful Cocktails" Zoom meeting for a fun social event to end the day.

Colorfully yours, and respectfully submitted,

Dave Wyble
ISCC President



Color Research and Application

Volume 72, Number 4

Jodi Baker

Color Research and Application has been the principal forum for the publication of research articles, reviews, and editorials on the science, technology, and application of color since its foundation in 1975. It is my honor and privilege to have become the new Editor-in-Chief (EiC) from the beginning of 2022. The founding EiC, Fred Billmeyer, edited the journal for 11 years from 1976, and Rolf Kuehni, edited it for 3 years from 1987. My immediate predecessor, the remarkable Ellen Carter, has edited, guided, nurtured, and led Color Research and Application as EiC for an extraordinary 31 years. Ellen has overseen the transition from print-only copies of the journal and postal editing to online manuscript submission, editing, and publication—a transition that has been accompanied by numerous changes of staff at the publisher. Ellen has been instrumental in expanding the journal to where it is today. She has increased the number of endorsing societies from the founding three to the thirteen we have today, and has built a vibrant network of associate editors, editorial board members, authors, reviewers, and of course, readers. This represents a huge and prolonged amount of work for which we owe Ellen an enormous debt of gratitude. Thank you, Ellen!

Ellen now becomes an Emeritus Editor of the journal—I hope she will continue to guide the journal and me.

Along with the change in EiC, we have made some changes to the journal's editorial structure. The

principal change is the introduction of a group of Senior Editors, who oversee the review of submitted manuscripts and thus act as handling editors. The new structure is to be made up of:

Editor-in-Chief

The EiC acts mainly as the distributing editor. After an initial review, appropriate submissions are passed to a Senior Editor for the assignment of referees and subsequent editing. Senior Editors then make recommendations about each submission to the EiC.

Senior Editors

Instead of the EiC acting as sole editor, we have appointed an impressive group of Senior Editors, who are subject specialists, to act mainly but not exclusively within their diverse areas of expertise. Senior Editors are responsible for assigning reviewers and making recommendations to the Editor-in-Chief about whether a paper should be revised, accepted, or rejected.

Editorial Board

We continue to maintain an Editorial Board. As before, members serve in an advisory capacity and will offer advice to improve the quality and visibility of the journal as well as reviewing submitted manuscripts at the invitation of Senior Editors.

International Advisory Board

The members of the International Advisory board are appointees of their endorsing color societies. They represent the interests of those societies and of the countries in which the societies are based. The Advisory Board, like the Editorial Board, provides a pool of expert referees and gives guidance and advice to the journal and the Editor-in-Chief. Advisory board members can also serve as Senior Editors.

We hope these changes will allow the journal to continue along the successful path plotted by Ellen over the past 31 years. Our goal is to continue to improve the overall quality of publications in the journal, nurture and build in our core areas within color research and application, and expand into new areas, such as in basic color and color vision research.

I look forward to working with the entire editorial and publishing team, as well as our authors and readers, on the colorful adventure ahead. The Table of Contents for the April 2002 are listed below for your reference.

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Calendar 2022

Aug 18 – 20	IES 2022 Annual Conference New Orleans, LA https://www.ies.org/events/annual-conference/
August 24 -25	Color Management Workshop at AATCC technical Center https://aatcc.org/workshops/
September 9-10	SCAD 2022 Annual Conference Newport Beach, CA https://scadent.org/events/newportbeach-2022
September 23	ASPRS Geobyte Webinar Allen Coral Atlas: A New Technology for Coral Reef Conservation https://my.asprs.org/ASPRSMember/Events/Event_Display.aspx?EventKey=G-B20220923&WebsiteKey=9126ee3f-e9e1-43bd-a00c-0cfa63182579
Oct 4 - 6	AATCC 2022 Textile Discovery Summit Hilton University Place Charlotte, NC https://aatcc.org/summit/
Oct 10 – 13	IES Street & Area Lighting Conference 2022 Dallas, TX https://www.ies.org/events/street-area-lighting-conference/
Oct 16 – 20	Frontiers in Optics + Laser Science Rochester, NY https://www.frontiersinoptics.com/home/
Oct 18- 20	NAPIM Fall Technical Conference 2022, Oak Brooks Hills Resort and Conference Center, Oak Brooks, IL https://www.napim.org/fall-technical-conference
Oct 26-27	AATCC Textile Testing Workshop AATCC Technical Center 1 Davis Dr, RTP, NC 27709 https://www.aatcc.org/aatcc-events/ttw/
Nov 10-11	CMG International Summit Tucson, AZ https://colormarketing.org/event/2022-international-summit-november/
Nov 13-17	CIC 30 Color & Imaging Conference Scottsdale, AZ https://www.imaging.org/site/IST/Conferences/Color_and_Imaging/IST/Conferences/CIC/CIC_Home.aspx?hkey=d2cf3f19-87b4-4164-8274-c40180e9dfa7

Nov 14-16	Council for Optical Radiation Measurements(CORM) and US National committee of CIE (USNC) anual meeting and conference https://cormusa.org/news-events/
Nov 15 - 17	AATCC Research Committee Meetings 1 Davis Dr RTP, NC 27709 and Virtual https://www.aatcc.org/aatcc-events/research/
Dec. 7-8	AATCC and Printing United Alliance Digital Textile Printing Conference Durham, NC https://aatcc.org/conferences/

Sustaining Members

Sustaining members of the ISCC are organizations who support the mission and goals of the ISCC through financial or other support. With our member bodies, Sustaining Members also provide a critical connection to the color community. If you feel your company or organization should support the ISCC in this way, please contact the office for more information about member benefits.



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