CONTENTS

03  AIC President’s Foreword
04  AIC, International Colour Association
05  AIC 2017 Chair’s Preface
06  AIC 2017 Organizing Committee
09  Program Overview
16  Scientific Program
   Monday, 16th October ······························ 17
   Tuesday, 17th October ······························· 29
   Wednesday, 18th October ···························· 40
   Thursday, 19th October ································ 45
   Friday, 20th October ······································· 58
61  Keynote Speech
65  Award Lecture
68  Invited Lecture
75  Author Index
89  AIC 2017 Sponsors
90  AIC 2017 Exhibitors
I would like to welcome you to Jeju Island Korea for the AIC Congress 2017. AIC 2017 is an auspicious event as the Congress marks The Association Internationale de la Couleur’s (AIC) Fiftieth Anniversary. The AIC was founded June 21st 1967 in Washington DC, USA during the 16th Session of the Commission Internationale de l’Éclairage (CIE). There were eight foundation members: USA – Inter–Society Color Council (Deane B. Judd), France – Centre d’Information de la Couleur (Yves LeGrand), Great Britain – The Colour Group (Robert W. G. Hunt), Spain – Comité Español del Color (Lorenzo Plaza), Sweden – Swedish Colour Group (Gunnar Tonnquist), Switzerland – pro/colore (Ernst Ganz), Japan – Color Science Association of Japan (T. Fukuda) and The Netherlands – Nederlandse Vereniging (J.L. Ouwettjes). The AIC currently has twenty–seven Regular Members.

In 1975 the AIC at the bequest of Betty Judd in memory of her husband, the AIC established the Deane B. Judd Award to recognise outstanding work in the field of color science. The list of recipients, from Dorothy Nickerson [1900–1985] (USA) in 1975 to Françoise Viénot in 2015 represents the International elite of colour science researchers. This year’s winner of the Deane B. Judd Award is Professor Ronnier Luo whose name is synonymous with colour science. The AIC has recently established a new award for excellence in research in Colour in Arts, Design and Environment. The first of these awards will be presented in Jeju during the AIC Congress and I am delighted to advise that Professor Antal Nemcsics is the first recipient of this new AIC award.

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

During the AIC General Assembly, the Regular members will be electing a new Executive Committee which will take office from 1st January 2018 until 31st December 2019. The Regular members will also be voting on the following initiatives:

1. IC Brand & Design Work Group Proposal
2. New Study Group for Arts and Design
3. Future banking arrangements

Make sure that you participate and make sure your votes count.

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

Please do not forget to celebrate the International Colour Day. To increase awareness in colour in the wider community the AIC has been promoting the International Colour Day which falls on the March Equinox. This concept has been enthusiastically adopted by a number of the Regular Members. Our aim is to have UNESCO recognize the ICD but firstly we need all Regular Members to take ownership of the ICD.

Enjoy this colour spectacular on the beautiful island of Jeju, meeting again with long–time friends and making new friends in the global colour community.

Nick Harkness
President
AIC (Association Internationale de la Couleur)
AIC Executive Committee

President: Nick Harkness (Australia)
Past President: Javier Romero (Spain)
Vice President: Tien-Rein Lee (Taiwan)
Secretary/Treasurer: Lindsay MacDonald (United Kingdom)
Committee Members: Jin-Sook Lee (Korea), Maria João Durão (Portugal), Leslie Harrington (USA), Gabriela Nirino (Argentina)

Member Countries

Argentina: Grupo Argentino Del Color
Australia: Colour Society Of Australia
Brazil: Associação Pró–Cor Do Brasil
Bulgaria: Colour Group – Bulgaria
Canada: Colour Research Society Of Canada
Chile: Asociación Chilena Del Color
China: Color Association Of China
Croatia: Hrvatska Udruga Za Boje
Finland: Suomen Väriyhdistys Svy Ry
France: Centre Français De La Couleur
Germany: Deutscher Verband Farbe
Great Britain: The Colour Group
Hungary: Hungarian National Colour Committee
Italy: Gruppo Del Colore – Associazione Italiana Colore
Japan: Color Science Association Of Japan
Korea: Korean Society Of Color Studies
Mexico: Asociación Mexicana De Investigadores Del Color
Netherlands: Nederlandse Vereniging Voor Kleurenstudie
Norway: Forum Farge
Portugal: Associação Portuguesa Da Cor
Slovenia: Slovensko Združenje Za Barve
Spain: Comité Español Del Color
Sweden: Stiftelsen Svenskt Färgcentrum
Switzerland: Pro/Colore
Taiwan: Color Association Of Taiwan
Thailand: The Color Group Of Thailand
United States: Inter–Society Color Council

AIC Associate Members

North America: International Association of Color Consultants/Designers
USA: Colour Marketing Group

AIC Study Groups

Color Education (CE)
Chair: Robert Hirschler
Environmental Color Design (ECD)
Chair: Verena M. Schindler
Color Vision and Psychophysics (CVP)
Chair: Katsunori Okajima
The Language of Color (LC)
Chair: Dimitris Mylonas
Co–chair: Galina Paramei
On behalf of the 13th AIC Congress Organizing Committee, we welcome you to the beautiful Jeju Island. And I sincerely appreciate your participation in the long journey to attend the greatest color event of the global village.

Korea Society of Color Studies has prepared this Congress for 6 years since Korea was chosen to host the 13th AIC Congress under the decision of the AIC Executive Committee in the AIC Midterm Meeting which was held in Zurich, Switzerland in 2011.

Main theme of the AIC 2017 is ‘Being Color with Health’. ‘Health’ has the most important value of our generation. The meaning of ‘Health’ includes everything related with human life, science, psychology, and design as well. Every topic related to color is embedded under the twelve main topics. As follows: Color and Health, Color and Environment, Architectural Color Design, Color in Art, Color Psychology, Color Education, Color in Cultures, Color and Light, Color Science and Technology, Color in Product Design, Color in Communication and Color Application.

The Congress received about 572 Abstract submissions from 43 countries and the abstracts were reviewed and selected by the International Scientific Committee consisting of 107 experts from around the world. The total number of papers that will be presented in this Congress is 422 including 150 oral presentations, 257 poster presentations, 2 Keynote Speeches, 11 Invited Lectures, and 2 Award Lectures. In addition, there are 2 workshops with special programs. The Workshop I is ‘Color Psycho Dynamics – A blueprint for transformational living’ and Workshop II is ‘Korea–China Color Design Trend’.

This year is the 50th anniversary of AIC Foundation. To celebrate the 50th anniversary, we have prepared special events such as ‘Color and Culture Exhibition’ and ‘Brilliant Memories of AIC for last 50 Years’ during the AIC Jeju Congress. ‘the Color and Culture Exhibition’ introduces the color culture of each AIC member country and ‘Brilliant Memories of AIC for last 50 Years’ provides a forum that shows pictures and images reflecting AIC’s 50 years of history. Aside from this, we planned ‘Korean Folk Painting Exhibition’ as a special exhibition, which exhibit the works of folk painting artists that represent Korea. So it will be a good opportunity to understand the Korean traditional beauty.

This Congress is comprised of a lot of effort and time investment by the members of the Organizing Committee. I am confident that this Congress will be finished with success since this Congress was prepared with the generous dedication of Organizing Committee members. I would like to express my heartfelt gratitude to each one of the Organizing Committee.

I sincerely appreciate to the sponsors and organizations which generously supported for this event. I am confident that Korea’s color academia and industry will grow bigger in the future thanks to your deep interest and encouragement for the AIC 2017 Congress.

In this beautiful Jeju Island where is honored UNESCO’s Triple Crown, I hope all of you who attended this event will return with good memory and warm feeling. Also, I sincerely hope that you will make a good friendship in the global color community and create new ideas to further develop your color research.

Jin-Sook Lee
Chair
AIC 2017 Organizing Committee
AIC 2017 Organizing Committee

Congress Chair
Jin-Sook Lee  Chungnam National University

Local Organizing Committee
Chair  Gyoung-Sil Choi  Ewha Womans University
Vice-Chair  Chang-Soon Kim  INNOPOLIS Foundation
Members  He-Sung Park  Ewha Womans University
Min-Kyoung Kim  KMK Color Institute
Young-Mi Kim  MCM Korea Business
Jang-Seok Kim  Hanbat National University
Seok-Hyun Lee  Chungang University
Eun-Mi Yu  Semyung University
Soon-Duke Kang  Dongeui Institute of Technology
Yung-Kyung Park  Ewha Womans University
Young-Shin Kwak  UNIST
Yoo-Sun Kim  Sahmyook University
Hea-Won Kim  Dongseoul University
Youn-Jin Lee  Hongik University
Jin-Hyun Park  JUNO Beauty
Kyung-Nam Lee  Daegu Gyeongbuk Design Center
Yeon-Ja Jung  Konkuk University
Young-Shin Choi  Chungnam National University
Ju-Heon Kim  Soongsil University
Hyang-Lan Kim  SAMHWA Paint Industrial Co., Ltd.
Jin-Kyung Paik  Inje University
Hyeon-Jeong Suk  KAIST
Bok-Shub Shong  Hanbant National University
Hye-Gyung Yoon  Yonsei University
Se-Lee Lee  Ewha Womans University
Jeong-Mi Lee  Induk University
Hye-Kyung Lee  SOHO & NOHO
Choong-Hyun Cho  Shingu College
Hyo-Jung Kim  Ewha Womans University
Tae-Sun Kim  Kyungil University
Ji-Soo Han  Sungshin Womens University
Ji-Soo Hwang  Korea Research Institute of Standards and Science
Hyun-Sun Kim  Kimhyunsun DESIGN
Su-In Kim  Jeonju University

Advisory Committee

Don Soh Park  
Yang Seob Lee  
Mann-Young Lee  
Gi-Chul Kim  
Young-Gull Kwon  
Kyung-Don Rhee  
YunSun Park  
Yoo Na Jeong  
Jooyun Kim

Ajou University  
Konkuk University  
Korea University  
Sejong Cyber University  
Kaywon University of Art & Design  
Shingu College  
Korea Color Design Institute  
Sangmyung University  
Hongik University Korean Institute of Spatial Design

International Scientific Committee

Miyoshi Ayama, Japan  
John Barbur, United Kingdom  
Bergit Bergstrom, Sweden  
Valerie Bonnardel, United Kingdom  
Sabina Bracko, Slovenia  
Jose Luis Caivano, Argentina  
Patrick Callet, France  
Ingrid Calvo, Chile  
Ellen Carter, USA  
Vien Cheung, United Kingdom  
Paula Csillag, Brazil  
Osvaldo Da Pos, Italy  
Motonori Doi, Japan  
Maria Joao Durao, Portugal  
Mark Fairchild, USA  
Margarida Gamito, Portugal  
Paul Green-Armytage, Australia  
Yulia Gribier, Russia  
Helen Gurura, South Africa  
Esther Hagenlocher, USA  
Aran Hansuebsai, Thailand  
Jon Hardeberg, Norway  
Nick Harkness, Australia  
Leslie Harrington, USA  
Markku Hauta–Kasari, Japan  
Javier Hernandez-Andres, Spain  
Keita Hirai, Japan  
Robert Hirschler, Brazil  
Takahiko Horiuchi, Japan  
John Hutchings, United Kingdom

Gabriel Marcu, USA  
John Mccann, USA  
Manuel Melgosa, Spain  
Yoichi Miyake, Japan  
Yoko Mizokami, Japan  
Shinji Nakamura, Japan  
Shigeki Nakauchi, Japan  
Akos Nemcsics, Hungary  
Juan Luis Nieves, Spain  
Gabriela Nirino, Argentina  
Peter Nussbaum, Norway  
Zena O’Connor, Australia  
Tomoko Obama, Japan  
Katsunori Okajima, Japan  
Hilmi Or, Turkey  
Naoyuki Osaka, Japan  
Li–Chen Ou, Taiwan  
Maria Papadopoulou, Denmark  
Yungkyung Park, Korea  
Jussi Parkkinen, Finland  
Carinna Parraman, United Kingdom  
Esther Perlaes, Spain  
Alessandro Rizzi, Italy  
Frank Rochow, Germany  
Maurizio Rossi, Italy  
Yamamoto Sari, Japan  
Tetsuya Sato, Japan  
Verena M Schindler, Switzerland  
Kevin Smet, Belgium  
Hyeon–Jeong Suk, Korea
Jisoo Hwang, Korea  
Taiichiro Ishida, Japan  
Eric Kirchener, Netherlands  
Ines Klemm, Switzerland  
Youngshin Kwak, Korea  
Natacha Le Duff, Germany  
Tien-Rein Lee, Taiwan  
Younjin Lee, Korea  
Ronnier Ming Luo, China  
Lindsay W. MacDonald, United Kingdom  
Yoshitsugu Manabe, Japan

Pei-Li Sun, Taiwan  
Vincent Sun, Taiwan  
Elza Tantcheva-Burdge, United Kingdom  
Shoji Tominaga, Japan  
Francoise Vienot, France  
Stephen Westland, United Kingdom  
Haisong Xu, China  
Hiroshisa Yaguchi, Japan  
Guanrong Ye, China  
Pietro Zennaro, Italy  
Veronica Zybaczynski, Romania
PROGRAM OVERVIEW

Program at a Glance
Workshop
Keynote Speech
Invited Lecture
Award Lecture
Cultural & Social Events
Special Exhibition
Exhibition
## AIC 2017 Program at a Glance

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Program / Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>15th October</strong></td>
<td>14:00-16:00</td>
<td>Workshop 1 / #401</td>
</tr>
<tr>
<td>(Sunday)</td>
<td>16:30-19:30</td>
<td>Registration Open / Lobby</td>
</tr>
<tr>
<td></td>
<td>18:00-19:30</td>
<td>Welcome Reception / Ocean View, 5F</td>
</tr>
<tr>
<td><strong>16th October</strong></td>
<td>07:30-18:00</td>
<td>Registration &amp; Exhibition Open / Lobby</td>
</tr>
<tr>
<td>(Monday)</td>
<td>08:30-10:30</td>
<td>OS01 Art &amp; Culture 1 / Halla A</td>
</tr>
<tr>
<td></td>
<td>10:30-10:50</td>
<td>OS02 Design &amp; Communication 1 / Halla B</td>
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<tr>
<td></td>
<td>10:50-12:30</td>
<td>OS03 Environment &amp; Architecture 1 / Samda</td>
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<td>12:30-13:30</td>
<td>Coffee Break / Lobby</td>
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<td></td>
<td>13:30-15:10</td>
<td>Opening Ceremony &amp; Keynote Speech 1 / Tamna A, 5F</td>
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<td></td>
<td>15:10-17:10</td>
<td>OS04 Art &amp; Culture 2 / Halla A</td>
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<tr>
<td></td>
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<td>OS05 Design &amp; Communication 2 / Halla B</td>
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<tr>
<td></td>
<td></td>
<td>OS06 Environment &amp; Architecture 2 / Samda</td>
</tr>
<tr>
<td><strong>17th October</strong></td>
<td>08:00-18:00</td>
<td>Registration &amp; Exhibition Open / Lobby</td>
</tr>
<tr>
<td>(Tuesday)</td>
<td>09:00-10:00</td>
<td>Keynote Speech 2 / Halla A</td>
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<tr>
<td></td>
<td>10:00-10:20</td>
<td>Coffee Break / Lobby</td>
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<tr>
<td></td>
<td>10:20-12:20</td>
<td>OS07 Science &amp; Technology 1 / Halla A</td>
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<tr>
<td></td>
<td>13:30-15:10</td>
<td>Post Session 1 &amp; Coffee Break / Lobby</td>
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<tr>
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<td>15:10-18:00</td>
<td>Study Group 1. SGLC / Halla A</td>
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<tr>
<td><strong>18th October</strong></td>
<td>08:00-15:00</td>
<td>Registration &amp; Exhibition Open / Lobby</td>
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<tr>
<td>(Wednesday)</td>
<td>09:00-09:45</td>
<td>Award Lecture 1 / Halla A</td>
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<td>09:45-10:05</td>
<td>Coffee Break / Lobby</td>
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<td></td>
<td>10:05-12:05</td>
<td>OS10 Science &amp; Technology 2 / Halla A</td>
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<tr>
<td></td>
<td>12:05-13:00</td>
<td>OS11 Environment &amp; Architecture 4 / Halla B</td>
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<td>13:30-15:10</td>
<td>Post Session 3 &amp; Coffee Break / Lobby</td>
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<td></td>
<td>15:10-17:10</td>
<td>OS12 Color &amp; Health 1 / Samda</td>
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<tr>
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<td>18:00-20:00</td>
<td>Official Congress Banquet / Cliff Garden, Hyatt Regency Jeju</td>
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<tr>
<td><strong>19th October</strong></td>
<td>08:00-12:00</td>
<td>Registration &amp; Exhibition Open / Lobby</td>
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<tr>
<td>(Thursday)</td>
<td>09:00-09:45</td>
<td>Award Lecture 2 / Halla A</td>
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<td>09:45-10:05</td>
<td>Coffee Break / Lobby</td>
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<td>10:05-12:05</td>
<td>OS14 Color &amp; Health 3 / Halla B</td>
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<td></td>
<td>12:05-13:30</td>
<td>OS15 Color &amp; Health 2 / Samda</td>
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<td></td>
<td>13:30-15:10</td>
<td>OS16 Science &amp; Technology 4 / Halla A</td>
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<td></td>
<td>15:10-17:10</td>
<td>OS17 Color &amp; Light 1 / Samda</td>
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<td></td>
<td>18:00-20:00</td>
<td>OS18 Color &amp; Light 2 / Samda</td>
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<td><strong>20th October</strong></td>
<td>08:00-12:00</td>
<td>Registration &amp; Exhibition Open / Lobby</td>
</tr>
<tr>
<td>(Friday)</td>
<td>09:00-09:45</td>
<td>Award Lecture 2 / Halla A</td>
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<tr>
<td></td>
<td>09:45-10:05</td>
<td>Coffee Break / Lobby</td>
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<td>10:05-12:05</td>
<td>OS20 Psychology &amp; Education 2 / Halla B</td>
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<td>12:10-12:40</td>
<td>Closing Ceremony / Tamna A, 5F</td>
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</tbody>
</table>
Program Overview

Workshop Program

Workshop I. Colour Psycho Dynamics – A blueprint for transformational living
- Date and Time: 14:00-16:00 on October 15 (Sun), 2017
- Place: #401
- Organizer and Speaker: Mark Wentworth

Workshop II. Korea–China Color Design Trend
- Date and Time: 13:00-15:00 on October 17 (Tue), 2017
- Place: Halla A, 3F
- Chair: Young Mi Kim (Executive Vice President, MCM Korea Business, Korea)
- Speakers
  - Jianming Song (Professor, China Academy of Art, China)
  - Li Wei (Professor, Tsinghua University, China)
  - Zhou Xin (Editor, Researcher, DIC Color & Design. In, China)
  - Won–jung Choi (Researcher, Ewha Womans University Color Design Research Institute, Korea)
  - Jin Hee Lim (Lead Designer, LF DAKS LADIES Color Division, Korea)
  - Soo Jin Jang (Manager Color & Trim, Kia Design Center, Korea)

Keynote Speech

Keynote Speech I
- Date and Time: 10:50-12:30 on October 16 (Mon), 2017
- Place: Tamna A, 5F
- Speaker

Suro Hwang
President, Korean Royal Silk Flower Institute
Korea

Keynote Speech II
- Date and Time: 09:00–10:00 on October 17 (Tue), 2017
- Place: Halla A, 3F
- Speaker

Jianming Song
China Academy of Art, China Fashion and Color Association
China
Invited Lecture

08:30~10:30 on October 16 (Mon) at Halla B, 3F

Hyeon-Jeong Suk
(Korea Advanced Institute of Science and Technology (KAIST), Korea)
Creating the Viewing Experience of Color in Design Practice

15:10~17:10 on October 16 (Mon) at Halla B, 3F

Se-Lee Lee
(Chung-Ang University, Korea)
2018–2019 Color & Material Trend

09:00~10:30 on October 18 (Wed) at Samda, 3F

John Barbur
(City, University of London, United Kingdom)
Colour in Employment: A New Colour Grading System with Applications in Healthcare and Visually-Demanding Occupations

09:00~10:30 on October 18 (Wed) at Halla A, 3F

Haisong Xu
(Zhejiang University, China)
Image Quality Assessment on Mobile Devices

10:50~12:20 on October 18 (Wed) at Halla A, 3F

Lindsay MacDonald
(Association Internationale de la Couleur, United Kingdom)
Melanopsin and Colour Vision

10:50~12:20 on October 18 (Wed) at Samda, 3F

Anadi Martel
(International Light Association (ILA), Belgium)
Colour for Health: Update on the Latest Developments in Light Therapy

10:50~12:20 on October 18 (Wed) at Halla B, 3F

Shin’ya Takahashi
(Tokai Gakuen University, Japan)
The Possibilities and Limitations of the Psycho-behavioral Effects of Color

10:05~12:05 on October 19 (Thu) at Samda, 3F

Jeong-Tai Kim
(Kyung Hee University, Korea)
Regulating Artificial Light at Night for Protecting Health and Sustainability in South Korea

10:05~12:05 on October 19 (Thu) at Halla B, 3F

Tien Rein Lee
(Chinese Culture University, Taiwan)
A Modern Approach to Health in Conventional Chinese Color Thought
10:05–12:05 on October 19 (Thu) at Halla A, 3F

Hirohisa Yaguchi
(Chiba University, Japan)
Applications of CIE2015 Cone–Fundamental Based Colorimetry

14:55–17:10 on October 19 (Thu) at Samda, 3F

Yoshi Ohno
(CIE President, National Institute of Standards and Technology, USA)
CIE Research Strategy – Future of Color Quality Metrics for Lighting

Award Lecture

2017 AIC Deane B. Judd Award
- Date and Time: 09:00–09:45 on October 19 (Thu), 2017
- Place: Halla A, 3F
- Awardee: Ming Ronnier Luo (United Kingdom)

2017 AIC Colour Award in Art, Design and Environment
- Date and Time: 09:00–09:45 on October 20 (Fri), 2017
- Place: Halla A, 3F
- Awardee: Antal Nemcsics (Hungary)
Cultural & Social Events

Welcome Reception
Come and sample culinary delights from across Jeju Island, we welcome you to AIC 2017.
- Date & Time: 18:00~19:30 on October 15 (Sun), 2017
- Place: Ocean View, 5F

Opening Ceremony
Making the opening of the Congress, the Opening Ceremony will celebrate the gathering of participants around the globe.
- Date & Time: 11:00~11:30 on October 16 (Mon), 2017
- Place: Tamna A, 3F

Group Photo
Group Photo will be taken as the AIC Congress’ tradition dictates.
- Date & Time: 12:35 on October 17 (Tue), 2017
- Place: Lobby, 3F

Excursion
The Congress will conclude with an excursion to the most famous tour spot in Jeju island. Register and accompanying person can participate without additional registration.
- Date and Time: 14:30~19:00 on October 18 (Wed), 2017
- Place: Jeju Stone Park

Official Banquet
Featuring fascinating ‘Jeju Traditional Performance’, this official banquet will be a memorable night in an exotic atmosphere.
- Date & Time: 18:00~20:00 on October 19 (Thu), 2017
- Place: Cliff Garden, Hyatt Regency Jeju
- Admission Fee: USD 100

Closing Ceremony
Participants will have chances to look back what’s happened during the Congress.
- Date & Time: 12:30~13:00 on October 20 (Fri), 2017
- Place: Tamna A, 3F

Special Exhibition I.
The Exhibition Commemorating the 50th anniversary of foundation of AIC

- Exhibition I. Color & Culture
A special exhibition titled “Color and Culture” will be held during the 13th AIC Congress. The exhibition will provide an opportunity for each member country to bring their vision, concepts, and ideas in color and culture.

- Exhibition II. Brilliant Memories of AIC for last 50 Years
To celebrate the 50th anniversary of the AIC, the Organizing Committee plans a history exhibition during the Congress. This exhibition will give a chance to share memories of the International Color Association (AIC) since its start in 1967.

- Exhibition Period: October 16 (Mon) – 20 (Fri), 2017
- Place: Lobby, 3F
Special Exhibition II.
Korean Folk Painting Exhibition

In Korean traditional folk paintings, we can feel the sensibility of our people that enjoyed the magical and symbolic meanings and the stories of nature, human being, and life. Korean traditional folk paintings is a culture that Koreans enjoyed by the royal palace to the common people and able to feel the aesthetics of Koreans.

- Exhibition Period: October 16 (Mon) – 19 (Thu), 2017
- Place: #301

Exhibition

AIC 2017 Exhibition booth will be operated in the lobby (3F) of the ICC Jeju according to the following schedule.

- October 16 (Mon), 07:30 ~ 18:00
- October 17 (Tue), 08:00 ~ 18:00
- October 18 (Wed), 08:00 ~ 15:00
- October 19 (Thu), 08:00 ~ 18:00
- October 20 (Fri), 08:00 ~ 12:00
SCIENTIFIC PROGRAM

Monday, 16th October
Tuesday, 17th October
Wednesday, 18th October
Thursday, 19th October
Friday, 20th October
Scientific Program

Monday, 16th October

Oral Sessions

OS01: Art & Culture I
08:30–10:30 / Halla A Hall

OS01-1 A Study of the Descriptive Color Word in the Chinese Tradition: Yellow’s Case
Hsueh-Fen Lin (Cheng Shiu University, Taiwan), Shu-Ping Feng (Kao Yuan University, Taiwan)

OS01-2 Soleil de minuit – the Spectral Design of 14 Glass Panels for the Montréal Metro
Adrien Gary Lucca (ENSAV La Cambre, Belgium)

OS01-3 A Study on Modern Art Expression of Cheeloo Colored Glaze
Li Liu (Zibo Vocational Institute, China)

OS01-4 Digital Restoration of Van Gogh’s Painting Field with Irises near Arles
Eric Kirchner (AkzoNobel Performance Coatings, Netherlands), Ivo van der Lans (AkzoNobel Performance Coatings, Netherlands), Frank Ligterink (Cultural Heritage Agency, Netherlands), Muriel Geldof (Cultural Heritage Agency, Netherlands), Art Ness Proano Gaibor (Cultural Heritage Agency, Netherlands), Ella Hendriks (Van Gogh Museum, Netherlands), Koen Janssens (University of Antwerp, Belgium), John Delaney (National Gallery of Art, USA)

OS01-5 Designing symbol color for regional revitalization – A study of black in Kagoshima –
Akiyo Makino (Kagoshima University Innovation Center, Japan)

OS01-6 Wabi and Sabi as the Background of Japanese Color Aesthetics: Pursuing the Special Qualities of Japan’s Color Sensibility
Kohji Yoshimura (Kansai Gaidai University, Japan), Yuko Yamada (Color Instructor and Illustratou, Japan), Stephen Shrader (Notre Dame Seishin University, Japan)

OS01-7 Improving Color Fidelity of Heritage Digital Copies through Representative Samples
Changyu Diao (Cultural Heritage Institute of Zhejiang University, China), Hong He (Zhejiang Institute of Metrology, China), Jinyin Mao (Cultural Heritage Institute of Zhejiang University, China), Zhemin Chen (Zhejiang Institute of Metrology, China)

OS01-8 How a 6-band LED and RGB Camera based Multispectral Imaging System Performed in COSCH Round–Robin Test
Raju Shrestha (Oslo and Akerhus University College, Norway)
OS02: Design & Communication I
08:30–10:30 / Halla B Hall

OS02-1,2 (Invited) Creating the viewing experience of color in design practice
Hyeon-Jeong Suk (Department of Industrial Design, KAIST, Korea)

OS02-3 The Distribution of Color Tones in CIELAB Space
Yu-Wen Huang (Tatung University, Taiwan), Wen-Yuan Lee (Tatung University, Taiwan)

OS02-4 Color Appearance in Oriental Minimalist Product Design
Yiju Chen (Yunlin University, Taiwan), Ching Liang Wang (Yunlin University, Taiwan)

OS02-5 Gender and Cultural Effects on Consumer Colour–Purchase Decisions
Luwen Yu (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Xinxiong Liu (Huazhong University of Science and Technology, China)

OS02-6 Comparison of Automotive Exterior Coating in Europe, Japan and South Korea according to Color and Texture Distribution by Gonio–photometric
Masayuki Osumi (Office Color Science Co., Ltd., Japan)

OS02-7 Colours in Signage Typography – Commercial Street, Bangalore
Narayanan Krishnaswamy (BRBNMPL, India)

OS02-8 Designers Perspective: Colour as a catalyst for improving accessibility?
Gyeonghwa Lee (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Bryan Matthews (University of Leeds, United Kingdom), Vien Cheung (University of Leeds, United Kingdom)

OS03: Environment & Architecture I
08:30–10:30 / Samda Hall

OS03-1 Developing a Method for Generating Colour Palette from Landscape Images
Jie Yang (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Kaida Xiao (University of Leeds, United Kingdom)

OS03-3 A Comparative Study on the Color Planning of Landscape planning in South Korea
MinJung Seo (University of Tsukuba, Japan)

OS03-4 Studies on Color in Residential Architecture for the Elderly
Ana Torres Barchino (UPV, Spain), Juan Serra Lluch (UPV, Spain), Jorge LLopis Verdú (UPV, Spain), Anna Delcampo Carda (UPV, Spain)
OS03-5 Smart Cities colors: the new intelligent cities in Asia and the new intelligent cities in Europe. Why are they different in their colors in the architectural color design? Ana Claudia Oliveira (CIAUD Portugal, Portugal)

OS03-6 An Analysis of the Scandinavian Colour Scales as a Tool in Colour Design Berit Bergström (NCS Colour AB, Sweden)


Opening Ceremony & Keynote Speech I

Keynote Speech I: Suro Hwang, Korean Royal Silk Flower Institute 10:50–12:30 / Tamra A Hall

Poster Session I

PS01: Art, Culture, Design, Communication, Environment 13:30–15:10 / Lobby, 3F

PS01-01 The Feasibility of Establishing Color Imagery Scales for Various Constructional Landscapes Wen–Guey Kuo (Chinese Culture University, Taiwan), Yu–Pin Li (Chinese Culture University, Taiwan), Yuh–Chang Wei (Chinese Culture University, Taiwan), Chih–Wen Cheng (Chinese Culture University, Taiwan), Wei–Min Fu (Chinese Culture University, Taiwan)

PS01-02 The Cabin Lighting Colour Preference of Chinese People WenWen Song (Tsinghua University, China), JunWei Wang (Boeing China, China)

PS01-03 Study on the Color Environment of Street Furniture in Samsan-ro, Ulsan, South Korea Sunyoung Shin (Hongik University, Korea), Gyoobaek Lee (University of Ulsan, Korea)

PS01-04 A Study on Senior Welfare Center Color Environment – Focused on Busan City – WonJi Kim (Pusan National University, Korea), SoYeon Yang (Pusan National University, Korea), TaeKyung Lee (Pusan National University, Korea)
<table>
<thead>
<tr>
<th>PS01-05</th>
<th>A Study on the Color Practice of Regional Architecture in Modern Scenic Pastoral Cities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ziyu Chen (China Academy Of Art, China)</td>
</tr>
<tr>
<td>PS01-06</td>
<td>Analysis on Color Environment Characteristics of Small City Parks’ Social Sports Facilities in Seoul·Tokyo</td>
</tr>
<tr>
<td></td>
<td>Junhyung Lim (Inje University, Korea), Jiyoung Oh (Inje University, Korea), Heykyung Park (Inje University, Korea)</td>
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<tr>
<td>PS01-07</td>
<td>A Study on The Color Change according to The Height of Building by The Daylight</td>
</tr>
<tr>
<td></td>
<td>Kye–Ok Shin (Korea National University of Transportation, Korea)</td>
</tr>
<tr>
<td>PS01-08</td>
<td>Study on Change Tendency of Exterior Color in Apartment Housing</td>
</tr>
<tr>
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<td>Seokhyun Lee (Chungang University, Korea)</td>
</tr>
<tr>
<td>PS01-09</td>
<td>Study of Nursing Home’s Color Environment according to Space Function</td>
</tr>
<tr>
<td></td>
<td>Yerim Choi (Inje University, Korea), Mulin Jeong (Inje University, Korea), Heykyung Park (Inje University, Korea)</td>
</tr>
<tr>
<td>PS01-10</td>
<td>Comparative Analysis on Characteristics of Color Uses for Outdoor Advertisement between before and after Signboard Improvement Project (Focused on Signboard Improvement Project in Ganghwa-gun, Incheon)</td>
</tr>
<tr>
<td></td>
<td>Mi–sun Lee (Korea Out of Home Advertising Center, Korea), Gyoung–sil Choi (Ewha Womans University, Korea)</td>
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<tr>
<td>PS01-11</td>
<td>Study on a Change Tendency of Exterior Color in Apartment Housing</td>
</tr>
<tr>
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<td>Seokhyun Lee (Chungang University, Korea)</td>
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<tr>
<td>PS01-12</td>
<td>Color Guidelines for Integrating Lake View into Detached Single Family House Complex</td>
</tr>
<tr>
<td></td>
<td>Hyun Sun Kim (Hongik University, Korea)</td>
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<tr>
<td>PS01-13</td>
<td>An Analysis of Colors and Chromas of LED Lighting for Improving Emotional Stability and Concentration in Youth</td>
</tr>
<tr>
<td></td>
<td>Kwang Hyun Choi (Chungnam National University, Korea), Ji Young Park (Chungnam National University, Korea), Moon Su In (Chungnam National University, Korea), Jin Sook Lee (Chungnam National University, Korea)</td>
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<tr>
<td>PS01-14</td>
<td>A Study on the Environment Color Planning of Water Resources Management – Case Study of Dongducheon City Rain Water Pump Station –</td>
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<td>Jung–Eun Lee (Chung–Ang University, Korea), Seok–Hyun Lee (Chung–Ang University, Korea)</td>
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<tr>
<td>PS01-15</td>
<td>A Study on Applying Four Seasons Color Theory of Personal Color to Space Image</td>
</tr>
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<td>Geoni Lim (Hongik University, Korea)</td>
</tr>
</tbody>
</table>
PS01-16  Planning of Memorial History Park using Abandoned Gyeongchun Line Site –Targeting Hwarangdae Abandoned Station–  
Youngdae Kim (Sahmyook University, Korea), MyungSun Kim (Sahmyook University, Korea), SonHyung Kim (Sahmyook University, Korea), HwanHee Lee (Sahmyook University, Korea)

PS01-17  Color Plan of Noryangjin Fish Market Section for Environmental Improvement  
DoKyung Kim (Sahmyook University, Korea), SaeRum Yang (Sahmyook University, Korea), DaMi Jung (Sahmyook University, Korea), SangEun Shin (Sahmyook University, Korea), YooSun Kim (Sahmyook University, Korea)

PS01-18  Suggestion of Nature–friendly Color Arrangement of Apartment Considering the View of Buramsan in Korea –Targeting Sangye Byeoksan Apartment in Korea–  
Subin Lee (Sahmyook University, Korea), Yujin Jung (Sahmyook University, Korea), Suera Choi (Sahmyook Environmental Green Design Research Institute, Korea)

PS01-19  Environmental Color in a Historical Cultural Space in an Urban Area : Focusing on the Nakwon Instrument Shopping Center in Korea  
Seunghyun Kim (Sahmyook University, Korea), Youngli Ko (Sahmyook University, Korea), Jiwon Kim (Sahmyook University, Korea), YooSun Kim (Sahmyook University, Korea)

PS01-20  Color Effect of Nature on Children’s Art Education through Food Ingredients  
Dahyun Lee (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

PS01-21  A Study on Accent Color Recognition by Color Properties  
Jung Hee Joo (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-22  Analysis of Dominant Colors and Color Scheme of Good Design Signboards in South Korea  
Minjung Seo (University of Tsukuba, Korea), Gyoungsil Choi (Ewha Womans University, Korea)

PS01-23  Color Guidelines for Bukchon Hanok Village on Alley Landscape –focused on Gamgodang–gil  
Yujin Choi (Hongik University, Korea), Sujin Han (Hongik University, Korea), YoungMin Song (Hongik University, Korea)

PS01-24  Color Analysis of Decorative Court Paintings in the "Late Joseon Dynasty"  
Yunmi Oh (Ewha Womans University, Korea)

PS01-25  A Study on Color Education for Creative Design Thinking  
Eunmi Yu (SeMyung University, Korea)

PS01-26  Spirituality of color in traditional colors focused on Obangsaek and Chakra for well–being and healing environments  
Hye–Gyung Yoon (Yonsei University, Korea)

PS01-27  A Study on the Analysis of Color Status of General Hospital Sign System  
Hyunjee Lee (Ewha Womans University, Korea), Changsook Kim (Ewha Womans University, Korea)
PS01-28 An Analysis of Brand Identity & Color Image on Blog
Nam-Il Kim (Chung-Ang University, Korea), Seokhyun Lee (Chung-Ang University, Korea)

PS01-29 The Color Analysis on the Case of 'Dansaekhwa' with Koreans' Color Sensibility –Focused on The Art Works of Dansaekhwa in 1970s to 1980s–
Dami Hong (Hongik University, Korea), Youjin Lee (Hongik University, Korea)

PS01-30 The Effects of Change in Color Scheme in Street Environment on Emotion of Pedestrians
Eunjung Jung (Ewha Womans University, Korea), Gyoungsil Choi (Ewha Womans University, Korea)

PS01-31 Color Effects in Floral Art Forms Arising from Rotary Motions in Kinetic Art Technique
Sung-ho Song (Korea University, Korea)

PS01-32 A Study on Nail Designs of Color Application Expessed in Fairy Tales
YeonHee Pyo (Kunkuk University, Korea), YeonJa Jung (Kunkuk University, Korea)

PS01-33 Colors of the Public Art in Urban, Based on Seoul's Sculpture
YeonHong Son (Ewha Womans University, Korea)

PS01-34 Analysis of color images expressed in the movie 'La La Land' –Focus on the costumes of male and female protagonist–
Bora Hong (Wonkwang University, Korea), Sun Ah Kim (Wonkwang University, Korea)

PS01-35 Color Measure in the Fiction of Mo Yan’s Red Sorghum
Han Dan (Northeast Normal University, China), Hu Ming Hai (Northeast Normal University, China)

PS01-36 A Study on the Tekhelet in the Christian Old Testament
Yoona Jeong (Sangmyung University, Korea)

PS01-37 Analysis of Korea Color Research Trend Around Dissertation and Journals (1956–2016)
Seong Yun Jeong (Yonsei University, Korea)

PS01-38 History of Color Trend as 'Historical Functionalism' : Seeing Color Trend in Modern Aesthetics
Chan-hee Chang (KMK Color Institute, Korea)

PS01-39 A Study on Different Category of Pink by Different Languages_Focused on Korean and English
Jaehhee Heo (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-40 Impact of the Korean Wave on Beauty Market Trends in Malaysia
Yoomi Kim (University of Malaya, Korea), Loo Pay Lim (Berjaya University College of Hospitality, Malaysia)

PS01-41 Color Suggestion for Each Season for Vitalization of the Sales of Cactus Products
SangDuk Lee (Cactus & Succulent Research Institute, Korea), SeungMin Hong (Cactus & Succulent Research Institute, Korea), GeeYoung Lee (Cactus & Succulent Research Institute, Korea), SeungHyun Kim (Sahmyook University, Korea), YooSun Kim (Sahmyook University, Korea)
PS01-42  A Study on coloring Changeable Aspect of the latter Period of the Joseon Dynasty
JeeSun Lee (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

PS01-43  Study about the Characteristics of Hanji and Wasi through the Analysis of Dye, Extracted from the Peel of an Onion
Somi Ko (Sangmyung University, Korea), Sung Hae Kang (Sangmyung University, Korea)

PS01-44  A Study on the Harmony of Traditional Colors according to Difference of Shades
EunJi Yoo (Ewha Womans University, Korea), KyuRim Lee (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-45  Comparative Investigation into the Appearance of Lapis Lazuli and Royal Blue
Elza Tantcheva–Burdge (Independent Scholar, United Kingdom), Vien Cheung (University of Leeds, United Kingdom)

PS01-46  Color research of Korean traditional painting: Starting with ChoSunDynasty Folk painting
Ji–hoi Beak (KMK color Institute, Korea), Min–kyoung Kim (KMK color Institute, Korea)

PS01-47  Korean's Association Color of Europe · Asia · North America
Eunhye Seo (Ewha Womans University, Korea), Yungkyung Park (Ewha Womans University, Korea)

PS01-48  Analysis the Correlation between Gimhae Festival Poster Color and Urban Color Guidelines
MinJi Kim (Inje University, Korea), InKyu Choi (Inje University, Korea), EuiTay Jung (Inje University, Korea)

PS01-49  Study on Color Characteristic of Joseon Court Painting~ Focus on Court Jinchansang(進饌床) food decorative painting Sanghwa~concept
Sungwoo Choi (Dongguk University, Korea), Gyoungsil Choi (Ewha Woman's University, Korea)

PS01-50  A study on optimum glossiness by lightness of car interior hard–trim parts
Jung In Hong (Hyundai Motor Group, Korea), Myoung Suk Kim (Hyundai Motor Group, Korea), Tea Hwan No (Hyundai Motor Group, Korea)

PS01-51  Persona Development as a User–Centred Design Tool for Conveying Colour Information Needs in Design
Seahwa Won (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom)

PS01-52  Effect of Blue Color on the Reliability of Korean Low–Cost Airline Websites
Suhui Lee (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

PS01-53  Comparative Study on Visual Image Structure of Flower Products between Japanese and Thai People
Nana Moriyama (Meijo University, Japan), Kitirochna Rattanakasamsuk (Rajamangala University of Technology Thanyaburi, Thailand), Mikiko Kawasumi (Meijo University, Japan)
PS01-54  From Indoor Background to the Color Expression of Art and Emotion–Study and Practice of the Color of Wooden Floor  
Ziyu Chen (China Academy Of Art, China)

PS01-55  Study of Harmony for Exterior and Interior Color of A Compact Car  
Bomi Kim (Ewha Womans University, Korea)

PS01-56  A Study on ISSEY MIYAKE Brand with the Perspective of Cognitive Psychology (Paradigm)  
Kang Sung Hae (Sangmyung University, Korea), Ji Hye Huh (Sangmyung University, Korea)

PS01-57  2017–2018 Future Consumer and CMF Trend  
Hyo Jung Kim (Samhwa Paints, Korea), Hyang Ran Kim (Samhwa Paints, Korea)

PS01-58  A Study on the Product Design using Saekdong Pattern as Accent Color  
Kum–Hee Ryu (Hongik University, Korea)

Eunjou Yi (Jeju National University, Korea), Renzo Shamey (North Carolina State University, USA)

PS01-60  Study on Association of Sweetness by Two–color Combinations in Package Design  
Jaeryung Park (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-61  The Characteristics of Colors and Emotional Color Name of Eye Shadow Products  
MinKyung Kim (Hongik University, Korea), Younjin Lee (Hongik University, Korea)

PS01-62  A Study on Cosmetic Package Colors for the Silver Generation – Focusing on Wrinkle Treatment Cosmetics –  
Yelim Kim (Inje University, Korea), Hanna Park (Inje University, Korea), Jinkyung Paik (Inje University, Korea)

PS01-63  Study on the warm–cool sense of the textile material and color  
Jiyeon Oh (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-64  A Study of Color in Packaging Design for Korean Natural and Organic Beauty Products in Relation to Jeju Brand Image  
Moon Sook Kim (Dongseoul University, Korea)

Jiyoung Kwon (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-66  A study on seasonal color characteristics of blue denim materials  
Sojeong Bang (Ewha Womans University, Korea), Changsook Kim (Ewha Womans University, Korea)
PS01-67 Determination of Preferred Blue Lighting Color by Aesthetic Experiment and EEG Test
Seungjiae Lee (Samsung Electronics Co., Ltd, Korea), Ji–Hyung Lee (Samsung Electronics Co., Ltd, Korea), Seongkyun Kim (KAIST, Korea), Cheol–Young Kim (Samsung Electronics Co., Ltd, Korea), Keunbum Lee (Samsung Electronics Co., Ltd, Korea), Youngsuk Lee (Samsung Electronics Co., Ltd, Korea), Jaeseung Jeong (KAIST, Korea)

PS01-68 A Study on Visual Openness and Stability of Glass Wall in Work Space
Yoo Jin Chung (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-69 Research about the Influence of container Color on the functional image of Cosmetics –based on Industrial Skincare container Color
Seong–sun Cho (KMK Color Institute, Korea), Min–kyoung Kim (KMK Color Institute, Korea)

PS01-70 The Color Trend: natural change of color trend
Ansoo Lee (Chung–ang University, Korea)

PS01-71 A Study on Volumetric of knit material weave interval
Eunjung Kim (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-72 A Study on Color Characteristics of SPA Brands
Hanna Park (Inje University, Korea), Yelim Kim (Inje University, Korea), Jinkyong Paik (Inje University, Korea)

PS01-73 Color plan of Instagram Application Icon and UI
Saet Byul Kim (Sahmyook Environmental Green Design Research Institute, Korea), Su Min Kim (Sahmyook University, Korea), Yeon Mi Kim (Sahmyook University, Korea), Chae Eun Han (Sahmyook University, Korea)

PS01-74 Comparison and Analysis of Regional Characteristics and Elements of Floral Design in Seoul and Busan
NaYeon Jung (Sahmyook University, Korea), JunYoung Lee (Sahmyook University, Korea)

PS01-75 A Study on Properties of Focal Colors Recognized through KS Basic Color Names
Won–Jung Choi (AmorePacific Corporation, Korea), Gyoung–sil Choi (Ewha Womans University, Korea)

PS01-76 A study on the Range of the color to be recognized as a Bluish–green and Greenish–blue
Yunjeong Jeong (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS01-77 A Study on Safety Sign Color Standards in Construction Sites: Comparison between Korea and Other Countries
Ye–Eun Jang (Ewha Womans University, Korea), June–Seong Yi (Ewha Womans University, Korea), Sungjo Hwang (Ewha Womans University, Korea), MinYoung Hong (Ewha Womans University, Korea), Hyunbin Kang (Ewha Womans University, Korea)

PS01-79 Color Congruency between Text and Graphics Improves Reading Fluency and Comprehension
Pei–Chen Wang (Chinese Culture University, Taiwan), Tsuei–Ju Hsieh (Chinese Culture University, Taiwan), Da–Lun Tang (Tamkang University, Taiwan)
PS01-80  A Study of Color Laws and Guidelines in Traffic and Road Facilities  
EunKyung Shin (Ewha Womans University, Korea), GyoungSil Choi (Ewha Womans University, Korea)

PS01-81  A Study on the Universal Environmental Color Plan for the Color Vision Defectives  
EunBae Moon (Chungwoon University, Korea)

PS01-82  A Study on the Exhibition design and Color Image Plan in National Children Museum – Focus on the Buyeo Children’s Museum –  
JungHwa Song (Kaywon University, Korea)

PS01-84  A study on associative colors and symbols on accessories shown in historical TV dramas –with a focus on 'Jang Ok-Jung, Live in Love.'  
Minkyoung Kim (Konkuk University, Korea), Yeonja Jung (Konkuk University, Korea)

PS01-85  A Study on Emotional Color Image Expression of Up-cycling Brand  
GokMi Kim (Yonam College, Korea)

PS01-86  Researching the Colors of Cosmetics Package Design, Focusing on Domestic Brands that Export to China  
Yeonwon Suh (Chung-Ang University, Korea), Seokhyun Lee (Chung-Ang University, Korea)

PS01-87  Color And Emotional labor – Study on Hair Salon Worker  
Yeun-Hee Chang (JUNO Hair, Korea), Jin-Hyun Park (JUNO Hair, Korea)

PS01-88  A Study on the Local Characteristics Through Colors Expressed Outside the Multi-Family Housings at New Cities in Gyeonggi Province  
JinHee Choi (Sangmyung University, Korea)

Oral Sessions

OS04: Art & Culture II  
15:10–17:10 / Halla A Hall

OS04-1  Spectral Image Reconstruction of Chinese Ink and Wash Painting Based on Self–training with Multispectral Imaging  
Peng Xu (Zhejiang Univ., China), Jueqin Qiu (Zhejiang Univ., China), Haisong Xu (Zhejiang Univ., China), Zhengnan Ye (Zhejiang Univ., China)

OS04-2  A Study on Hangul and Obangjeongsaek that appear on Hunminjeongeum  
EunBae Moon (Chungwoon University, Korea)

OS04-3  Colour Culture: An Introduction  
Johnny Jie Xu (Loughborough University, United Kingdom), Xueqing Zhang (Tongji University, China)
OS04-4 From White to Magenta
Ana Marija Grancaric (University of Zagreb, Croatia), Martinia Ira Glogar (University of Zagreb, Croatia), Lea Botteri (University of Zagreb, Croatia)

OS04-5 Investigating Cultural Differences In Colour–Word Associations Using Internet Image Search
Yun Chen (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Qianqian Pan (University of Leeds, United Kingdom), Luwen Yu (University of Leeds, United Kingdom), Jie Yang (University of Leeds, United Kingdom)

OS04-6 Color and its relation to the female figure in the cinema
Pedro Felipe Pinho Souza (Unicamp, Brazil), Anna Paula Silva Gouveia (Unicamp, Brazil)

OS04-7 Using color–coding method to teach music for children
Yi–Ting Kuo (Jen–Teh Junior College of Medicine, Nursing and Management, Taiwan)

OS04-8 The Pursuit of Perceived Density found in Colors Favored by Japan
Sungmi Oh (Joshibi University of Art and Design, Japan), Hyunjung Kim (Yonsei University, Korea)

OS05: Design & Communication II
15:10–17:10 / Halla B Hall

OS05-1,2 (Invited) 2018–2019 Color & Material Trend
Se–Lee Lee (Ewha Womans University, Korea)

OS05-3 Differences in ColorNaming between British and American English Speakers
Dimitris Mylonas (University College London, United Kingdom), Lindsay W. MacDonald (University College London, United Kingdom), Lewis D. Griffin (University College London, United Kingdom)

OS05-4 Gender Differences in Russian Colour Naming
Yulia A. Griber (University of Smolensk, Russia), Galina V. Paramei (Liverpool Hope University, United Kingdom), Dimitris Mylonas (University College London, United Kingdom)

OS05-5 Colours as Trademarks – Clarification and Limitations
Paul Green–Armytage (Curtin University, Australia)

OS05-6 Turkish Colour Naming on the Net
Begüm Ulusoy (Atılım University, Turkey), Lewis D. Griffin (University College London, United Kingdom), Dimitris Mylonas (University College London, United Kingdom)

OS05-7 Combination of Two Colours in Human Vision
Elodie Chandernagor (Art Consultant, Singapore)
OS05-8  Colour Influence of Input Button on User's Pressing Motivation, Visual Attraction, and Preference – Analysis Using Paired Comparison
Yoshikazu Mizutani (Kyoto Institute of Technology, Japan), Saori Kitaguchi (Kyoto Institute of Technology, Japan), Tetsuya Sato (Kyoto Institute of Technology, Japan)

OS06: Environment & Architecture II
15:10-17:10 / Samda Hall

OS06-2  Urban Color Expressing the Spirit of the City by Chinese color system
Jinghong Wang (China Central Academy of Fine Arts, China)

OS06-3  Environmental Colour Design: A Survey on Colour in Urbanism and Architecture
Verena M Schindler (Independent Scholar, Switzerland)

OS06-4  Urban Color Assessment Based on Spatial Perceive: A Case Study on Changzhou Xinbei District
Jiangbo Wang (Nanjing Technology University, China), Aiping Gou (Shanghai Institute of Technology, China)

OS06-5  Can Color be a Bridge of Modern and Tradition — A Practice on Changzhou Xinbei Urban Color Plan
Aiping Gou (Shanghai Institute of Technology, China), Jiangbo Wang (Nanjing Technology University, China)

OS06-6  Romanian Urban Collage: Colour–Architecture–Politics
Veronica Maria Zybaczynski (Ion Mincu University of Architecture and Urbanism, Romania)

OS06-7  Colour Studies in the Urban Environment: Reviews, Summaries and Challenges
Beichen Yu (The University of Edinburgh, United Kingdom)
Scientific Program

Tuesday, 17th October

Keynote Speech II

Keynote Speech II: Jianming Song, China Academy of Art, China Fashion and Color Association
09:00-10:00 / Halla A Hall

Oral Sessions

OS07: Science & Technology I
10:20-12:20 / Halla A Hall

OS07-1 Verification of MacAdam Data
Jing Liang (Zhejiang University, China), Ronnier Luo (Zhejiang University, China), Maria Georgoula (University of Leeds, United Kingdom), Nianyu Zou (Dalian Polytechnic University, China)

OS07-2 A Colour Rendering Index for Dichromats
Brian Funt (Simon Fraser University, Canada), Hamidreza Mirzaei (Simon Fraser University, Canada), Xiandou Zhang (Hangzhou Dianzi University, China)

OS07-3 Image quality evaluation based on Sigmoid function by the modified Color Distribution Index (mCDI)
Hou-Chi Chiang (National Chiao-Tung University, Taiwan), Yuan Ouyang (Chang Gung University, Taiwan), Jyun-Wei Jhuang (National Chiao-Tung University, Taiwan), Ting-Wei Huang (National Chiao-Tung University, Taiwan), Yung-Jhe Yan (National Chiao-Tung University, Taiwan), Mang Ou-Yang (National Chiao-Tung University, Taiwan)

OS07-4 Fast Segmentation-based Tone Mapping Operator
Jakkarin Singnoo (University of the Thai Chamber of Commerce, Thailand)

OS07-5 BRDF Measurement and Color Appearance Simulation based on iccMAX Framework
Wei-Chun Hung (NTUST, Taiwan), Pei-Li Sun (NTUST, Taiwan)

OS07-6 Colour Vision Properties of Surface Colours based on complementary Optimal Colours
Klaus Richter (Berlin University of Technology, Germany)
A New Uniform Colour Space for Comprehensive Image Applications
Ming Ronnier Luo (Zhejiang University, United Kingdom), Muhammad Safdar (Zhejiang University, Pakistan), Youn Jin Kim (Huawei, China)

Preliminary Examination for Colorimetry of Removed & Re-transfused Blood and Skin of Hemodialysis Patients
Yuki Akizuki (University of Toyama, Japan), Futoshi Ohyama (Tokai University, Japan), Tomomi Iizuka (Tokai University, Japan), Tomoko Kutsuzawa (Tokai University, Japan)

Teaching Color
Esther Hagenlocher (University of Oregon, USA)

Space | Color | Light – Teaching Color in Interior Architectural Design
Ralf Weber (Dresden University of Technology, Germany)

Investigating colour in interior design education: an observational study about colour in the first design stages
Douha Attiah (King Abdulaziz University, Saudi Arabia), Abeer Alawad (King Abdulaziz University, Saudi Arabia), Vien Cheung (University of Leeds, United Kingdom)

The Implication of Interpretive Inquiry for Empirical Studies on Color Meaning: A Symbolic Interactionist Approach to Color Perception in Healthcare
Jain Kwon (University of Georgia, USA)

Research about preference of wallpaper in Japan and a Korean girl student
Tomoko Obama (Shizuoka University of Art and Culture, Japan), Nobuhoshi Kanai (Hoseo University, Korea)

Why is History Related Colour Design so Complicated? The Factors Governing Colour Experience in a Historical Cityscape
Kati Winterhalter (Aalto University, Finland)

Color Characteristics Analysis for the Color Development of Architectural Color Guide
Min–Gi Kim (KANGNAM JEVISCO CO., LTD, Korea), Joong–Ho Hwang (KANGNAM JEVISCO CO., LTD, Korea), Na–Ra Kim (KANGNAM JEVISCO CO., LTD, Korea), Hyo–Sun Choi (KANGNAM JEVISCO CO., LTD, Korea), You–Jin Choi (KANGNAM JEVISCO CO., LTD, Korea), Eun–Hee Han (KANGNAM JEVISCO CO., LTD, Korea)
OS08-8 The Effect of Microorganisms Drench on the Leaf Color of Golf Course Grass –Targeting Jeju Ecoland–
JongHwan Song (GreenBio–Agro Company, Korea), Misuk Lee (GreenBio–Agro Company, Korea), SeongHee Moon (he Won Company, Ecoland Golf and Resort, Dept. of Course Management, Korea), YooSun Kim (Dept. of Environmental GreenDesign&Horticulture, Sahmyook University, Korea), SangEun Shin (Sahmyook Environmental GreenDesign Research Institute, Korea)

OS09: Color Application
10:20–12:35 / Samda Hall

OS09-1 Colour Harmony in Clothing, Skin Tones and Hair Colours for Applications of Online Shopping
I–Han Liu (National Taiwan University of Science and Technolo, Taiwan), Li–Chen Ou (National Taiwan University of Science and Technolo, Taiwan)

OS09-2 Developing a model for predicting whiteness of human face
Binghao Zhao (University Science and Technology Liaoning, China), Qianqian Pan (University of Leeds, United Kingdom), Zhifeng Wang (University of Science and Technology Liaoning, China), Yang Xu (University of Science and Technology Liaoning, China), Changjun Li (University of Science and Technology Liaoning, China), Stephen Westland (University of Leeds, United Kingdom), Kaida Xiao (University of Leeds, United Kingdom)

OS09-3 Development of a Skin Color Evaluation Method Based on Hyperspectral Imaging Using Erythema and Melanin Indices
Mamiko Kikuchi (Kao Corporation, Japan), Takanori Igarashi (Kao Corporation, Japan), Hirayuki Sato (Kao Corporation, Japan), Tsutomu Fujimura (Kao Corporation, Japan)

OS09-4 Investigation of facial attractiveness using a facial image database
Binghao Zhao (University Science and Technology Liaoning, China), Qianqian Pan (University of Leeds, United Kingdom), Yang Xu (University of Science and Technology Liaoning, China), Zhifeng Wang (University of Science and Technology Liaoning, China), Changjun Li (University of Science and Technology Liaoning, China), Stephen Westland (University of Leeds, United Kingdom), Kaida Xiao (University of Leeds, United Kingdom)

OS09-5 The Impact of Skin Colour on Facial Impressions
Mengmeng Wang (University of Leeds, United Kingdom), Ming Ronnier Luo (Zhejiang University, China), Kaida Xiao (University of Leeds, United Kingdom)

OS09-6 Influence of Knowledge about Clothes and Sensation Modalities on Texture Evaluation of Beige Textile
Jing Liang (Zhejiang University, China), Ronnier Luo (Zhejiang University, China), Maria Georgoula (University of Leeds, United Kingdom), Gui hua Cui (Wenzhou University, China)
OS09-7 The Relationship between the Scenario of Wedding Party and Wear Color
Hung Ruei-Ju (Tatung University, Taiwan), Sato Tetsuya (Kyoto Institute of Technology, Japan), Lee Wen-Yuan (Tatung University, Taiwan)

OS09-8 Colour application comparison between luxurious and retail brand's window displays
Douha Attiah (King Abdulaziz University, Saudi Arabia), Hye-Won Lim (University of Leeds, United Kingdom)

OS09-9 Description of The History of Chanel Lipstick Colour Through An Analysis Of Colour Charts
Helene De Clermont-Gallerande (Chanel PB, France), Nicolas Rolland (Chanel PB, France), Patrick Doucet (Chanel PB, France), Julie Deydeir (Chanel, PB, France), Anne Varichon (Culture Couleur, France), Barbara Blin-Barrois (Culture Couleur, France)

Workshop II

WS02: Korea–China Color Design Trend
13:00–15:00 / Halla A Hall

Poster Session II

PS02: Education, Health, Architecture, Application
13:30–15:10 / Lobby, 3F

PS02-01 Facial Skin Color Variability in Korean Women
Kyungah Choi (KAIST, Korea), Hyeon-Jeong Suk (KAIST, Korea)

PS02-02 Aura Colours
Chrysi Fytopoulou (Irida, Greece)

PS02-03 The Colors of Digital Textbook UI Design Elements for Smart Learning
KeunYoung Ahn (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

PS02-04 Comparison of Brain wave Characteristics consequent on Red Color Stimulus
Heewon Lee (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)

PS02-05 A Study on the Color Characteristics Applied to Waldorf School Classroom in Healing Views
Dong Jun Shin (Hongik University, Korea), Joo Yun Kim (Hongik University, Korea)

PS02-06 The Comparison and analysis of the color development on the heavy metal content of the eyeliner products on sale
KeeYoung Lee (Woosong College, Korea)
PS02-07 Perceived Saturation Difference of Congenital Red-Green Color Vision Deficiencies
Kota Kanari (Utsunomiya University, Japan), Tomoharu Ishikawa (Utsunomiya University, Japan), Miyoshi Ayama (Utsunomiya University, Japan)

PS02-08 A Study on Brain Wave Characteristics in Color Stimulus consequent on Personality Type
Heewon Lee (Chungnam National University, Korea), Jinbock Lee (Chungnam National University, Korea), Minsun Kim (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)

PS02-09 Age and Wavelength Dependence of Intraocular Straylight
Nao Tsuchiya (Utsunomiya University, Japan), Tomonori Tashiro (Utsunomiya University, Japan), Tomoharu Ishikawa (Utsunomiya University, Japan), Kazuhiko Ohnuma (Chiba University, Japan), Miyoshi Ayama (Utsunomiya University, Japan)

PS02-10 A study on the mobile instant messaging application for smartphones: Focused on KAKAOTALK Application
JiYoung Kim (Ewha Womans University, Korea), SeHwa Won (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS02-11 Comparing brainwave in object color spaces in relation to a level of Stress
Suenghee Lee (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea), Heewon Lee (Chungnam National University, Korea)

PS02-12 Color Recognition of General Hospital Lobby by User Characteristics
Inyoung Choi (Inje University, Korea), Heykyung Park (Inje University, Korea)

PS02-13 Using Color Composition Diagrams as a Medium for Promoting Better-balanced Diet: an App Development Case
Yao Dai (National Chiao Tung University, China), Yi-Lin Zhuang (National Chiao Tung University, Taiwan), Nan-Ling Yeh (National Chiao Tung University, Taiwan), Jun Pan (National Chiao Tung University, China), I-Ping Chen (National Chiao Tung University, Taiwan)

PS02-14 A Study on Influence of Color Stimulus on Stress
Suenghee Lee (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea), Heewon Lee (Chungnam National University, Korea)

PS02-15 A Study on the Correlation between depression scale and Preference Color in the 30s and 40s
Gyu Rim Park (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

PS02-16 A Plan and Study on the Cultural Complex Design for Communication
Hyosik Kim (Sahmyook University, Korea), Jeon DuSoo (Sahmyook University, Korea)

PS02-17 A Study on Elderly's Visual Perception Discrimination consequent on Blue Brightness and Distance
Seongjoo Park (Chungnam National University, Korea), Jiwon Lee (Chungnam National University, Korea), Jiyoung Park (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)
Preference of the Various Primary Colors on the Non-Transparent Display and Transparent Display
Hye Young Ha (Ulsan National Institute of Science and Technology, Korea), Youngshin Kwak (Ulsan National Institute of Science and Technology, Korea), Hyosun Kim (Samsung Display Co., Ltd., Korea), Young-jun Seo (Samsung Display Co., Ltd., Korea), Won-Sang Park (Samsung Display Co., Ltd., Korea)

Study of the effect of colors change on users of architectural spaces Applied study on patients with mental retardation and autism
Ibrahim Elhady Elaraby (15th May Engineering Institution, Egypt), Reda Hamada Aly (Alazhar University, Egypt)

A Study on Adjective Association and Color Combination Image Scale According to Color Perception of the Elderly
Hyun Sun Chung (Hongik University, Korea), Yeawon Kim (Hongik University, Korea)

Effects of Color Temperature of Hospital Lighting on the Treatment of Patients
DongHun Lee (ECOFEEL. co. ltd, Korea), Eunji Seo (ChungNam National University, Korea), JinSook Lee (ChungNam National University, Korea)

Spatial Resolution Affected by Light Scattering in Pseudo-Cataract Observers
Wataru Isoi (Ritsumeikan University, Japan), Hiroyuki Shinoda (Ritsumeikan University, Japan)

On Visual Balance Phenomena and Regularities of Colored Light Induction
Henian Peng (Hunan Institute of Science and Technology, China)

Color Universal Design of Tourist Kiosk Screen for Color Vision Deficiency
Sujin Han (Hongik University, Korea), Younjin Lee (Hongik University, Korea)

A Study on Textile Design Development for Color Environments at Nursing Homes for the Elderly
Im-Jung Choi (Kyungsung University, Korea), Sung-Hae Kang (Sangmyung University, Korea)

Colour in healthcare architecture. Analysis of the use of colour in three exemplary cases in the history of modern architecture
Ana Gascón (University of Zaragoza, Spain), Angelica Fernandez–Morales (University of Zaragoza, Spain)

Gender Differences in Physical Responses due to Changes Environmental Color Tones
Jiyoung Oh (Inje University, Korea), Heykyung Park (Inje University, Korea)

Fitness Center Environment Color Scheme for Women
JungEun Kim (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

The Study on Preference Tendency to Simplification and Color Arrangement of Architecture Color in Korea and China Commercial Street between Korean and Chinese
Lu Chen (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)
<table>
<thead>
<tr>
<th>PS02-30</th>
<th>Characteristics of Environmental Color for Korea Public Healthcare Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jiyoung Oh (Inje University, Korea), Heykyung Park (Inje University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-31</th>
<th>A study on the relevance of brand color of natural cosmetics brand to brand concept</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Su Mi Lee (Hongik University, Korea)</td>
</tr>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-33</th>
<th>Exterior Color Design of Social Overhead Capitals (Especially for nuclear power plant)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Seongho Choi (KEPCO ENC, Korea)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>PS02-34</th>
<th>An Analysis of Influence on Relationships between Visual and Auditory Senses based on the Color Image Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Junsu Park (Soongsil University, Korea), Juyeon Kim (Soongsil University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-35</th>
<th>Optimal Safety Color of Working Garment for Forestry Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HeeJin Kim (Ewha Womans University, Korea)</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PS02-36</th>
<th>A Study on the Correlation Analysis between Color and Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Seungwon Ryu (Chungnam National University, Korea), Eunji Seo (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PS02-37</th>
<th>A Study on Recognition Range of Korea and Traditional Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jung Hyun Kim (Ewha Womans University, Korea), Yung Kyung Park (Ewha Womans University, Korea)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>PS02-38</th>
<th>An Analysis of Characteristics for Color Coordination in a Space according to Trend Themes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jinkyung Choi (Soongsil University, Korea), Juyeon Kim (Soongsil University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-39</th>
<th>A Study on Color–Emotion by Light Transformation of Space</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bokyung Shin (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-40</th>
<th>A Comparative Analysis of EEG (Electroencephalogram) Activation according to Media Facade Types</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Juyeon Kim (Soongsil University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-41</th>
<th>Ways to Find the Right Colour for Residential Façades in Russia and Japan: A Comparative Study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yulia A. Griber (University of Smolensk, Russia), Yosuke Yoshizawa (Kisarazu College, Japan)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-42</th>
<th>Assessing on the Perceived Extension According to the Brightness Composition of Space</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eunji Han (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)</td>
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<tr>
<td>PS02-43</td>
<td>An Analysis of Alley Color in Tongin–dong, Chebu–dong and Nuha–dong in Seochon, Seoul</td>
</tr>
<tr>
<td>PS02-44</td>
<td>National Color Interior Color Investigation – Painting Color Interior –</td>
</tr>
<tr>
<td>PS02-45</td>
<td>Study on the Exterior Color of LH Permanent Rental Apartments</td>
</tr>
<tr>
<td>PS02-46</td>
<td>Traditional Color in the Residential Area Alley of Aaruhs, Denmark</td>
</tr>
<tr>
<td>PS02-47</td>
<td>Analysis of the Perception of Color Harmony in Makeup between Beauty College Students and Workers of the Cosmetics Industry</td>
</tr>
<tr>
<td>PS02-48</td>
<td>Digital Colour from the Design Student’s Perspective</td>
</tr>
<tr>
<td>PS02-49</td>
<td>Color Analysis of Tourist Attraction to Promote Ecotourism Focus on Seocheon</td>
</tr>
<tr>
<td>PS02-50</td>
<td>A Study on NCS Color Design Learning Module Development Focusing on toning</td>
</tr>
<tr>
<td>PS02-51</td>
<td>A Study on the Effect of Color Play Program on the Growth of Creativity in Color and Language Area – Focused on elementary school age –</td>
</tr>
<tr>
<td>PS02-52</td>
<td>A Study on the Development of NCS Color Design Learning Modules Focusing on Color Design Planning</td>
</tr>
<tr>
<td>PS02-53</td>
<td>The Effects of Color Education on Stress Relief and Emotion in Adolescents Focusing on EEG measurement</td>
</tr>
<tr>
<td>PS02-54</td>
<td>A Study on the Color Category of Liquid Foundation#21</td>
</tr>
</tbody>
</table>
PS02-55 The Korean standardization of the colors of sclera for the artificial eye
Yoonjung Kim (Ewha Womans University, Korea), KyungMin Lee (Ewha Womans University, Korea), Hyeljung Jang (Yonsei University Health System Severance Hospital, Korea), Jinsook Yoon (Yonsei University Health System Severance Hospital, Korea), YungKyung Park (Ewha Womans University, Korea)

PS02-56 Skin Color Characteristics following Skin Types of Korean Women
Sun-Young Kim (MEGACOS, Korea), Han-na Kim (Noroo&Pantone Color Institute, Korea), Young-Ho Kim (MEGACOS, Korea), Jang-Yung Yoo (MEGACOS, Korea), Eun-jii Kim (MEGACOS, Korea), Jae-Min Yoon (MEGACOS, Korea), Dong-Su Lee (MEGACOS, Korea), Lee-Young Kim (MEGACOS, Korea), Yoo-ji Hwang (MEGACOS, Korea)

PS02-57 Study on the extraction of modern sensibility adjectives according to traditional fabrics
NuRi Kim (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS02-58 2016 WINTEX Standard Color Development
Sun Ae Jeong (Kaywon University of Art & Design, Korea)

PS02-59 The Language of Color in Fashion Design
Wei Li (Tsinghua University, China)

PS02-60 Evaluation of skin color according to relative temperature
YooNa Cho (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS02-61 Comparison between the Skin Colors by Face Part and the Colors of Foundations in the Market
Hyuna Kim (Hongik University, Korea), Younjin Lee (Hongik University, Korea)

PS02-62 Research of Fashion & Beauty Make-up Color Analysis of Korean Women's Preferences (For women in their 20s and 40s)
Min-kyoung Kim (KMK Color Institute, Korea), Aeri-Christina Kim (KMK Color Institute, Korea)

PS02-63 Skin Tone Analysis with the Use of Visual Colorimetry
Seungyeon Lee (Ewha Womans University, Korea), GyoungSil Choi (Ewha Womans University, Korea)

PS02-64 A Study on Fashion Color Image of K-pop Girl Group 'Girls Generation' according to the Concept Album and Music Video.
JuYoon Bae (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

PS02-65 Exploring the Applicability of Sky-Blue on Head-Mounted Display (HMD)
HyoSun Kim (Samsung Display, Korea), Young-Jun Seo (Samsung Display, Korea), Won-Sang Park (Samsung Display, Korea)

PS02-66 How Facial Features Help "Personal Color" Diagnoses - Focus on Korean women in their 20's and 30's
Haejung Jang (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

PS02-68 Interior Finishing Materials by Component fitting for Interior Design Styles
Jihae Min (Ewha Color Design Research Institute, Korea), GyoungSil Choi (Ewha Womans University, Korea)
<table>
<thead>
<tr>
<th>PS02-69</th>
<th>A Study on the Similarity of Image Association in Interior Design of Apartments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Seungwon Ryu (Chungnam National University, Korea), Eunji Seo (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-70</th>
<th>Study of Jaunseowon–Munseongsa Shrine Dancheong Coloring Technique – Focused on Dancheong Hwi Color Area –</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heeeun Lee (Hongik University, Korea), YounJin Lee (Hongik University, Korea)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>PS02-71</th>
<th>Crime Prevention through Environmental Design Certification Criteria and Prior Research Analysis – With focus on Color</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EunKyoung Lee (Chungnam National University, Korea), JinSook Lee (Chungnam National University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-72</th>
<th>A Study on Influence of Color on Prevention of Crimes in Underground Parking Space</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EunKyoung Lee (Chungnam National University, Korea), EunJi Seo (Chungnam National University, Korea), JinSook Lee (Chungnam National University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-73</th>
<th>Survey on the Use of Color and Finishing Materials in the Lobby Space of the History Museum of the Local Governments in Korea</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kyung Eun Hur (Woosong University), Jin Sang Roh (Woosong University)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-74</th>
<th>Analysis of Color Distribution of Concrete Finishing Materials by adding Industrial Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Suk Pyo Kang (Woosuk University, Korea), Hye Ju Kang (Woosuk University, Korea), Eun Mi Jin (Sijigam Co., Ltd., Korea)</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PS02-75</th>
<th>Study on the application of a color scheme for the hallway environment in consideration of the spatial function of an elementary school</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ji Hye Kim (LEOPLE Design Research Institute, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-76</th>
<th>An Interior Color Direction Methods result from Special Exhibition Theme –Case Study of National Museum Korean contemporary History–</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bo–Mi Han (Chung–Ang University, Korea), Seok–Hyun Lee (Chung–Ang University, Korea)</td>
</tr>
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</table>

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<thead>
<tr>
<th>PS02-77</th>
<th>A Study on the Color Planning for Activation of Rural Viliage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ji–seon Ryu (Chungnam National University, Korea), Hee–won Lee (Chungnam National University, Korea), Jin–Sook Lee (Chungnam National University, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-78</th>
<th>Navigation Effect of Colored Road Marks for Wayfinding in 3D Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jun–Kai Niu (Chinese Culture University, Taiwan), Tsuei–Ju Hsieh (Chinese Culture University, Taiwan)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-79</th>
<th>A Study on the Application of Living Hanbok Color Scheme Utilizing the Personal Color System (For women in their 20s and 30s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mee–Ran You (KMK color Institute, Korea), Min–Kyoung Kim (KMK color Institute, Korea), Jung–Ran Lee (KMK color Institute, Korea)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PS02-80</th>
<th>Color in Syntax Highlighting on Programmers' Readability Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minsun Hong (KAIST, Korea), Hyeon–Jeong Suk (KAIST, Korea)</td>
</tr>
</tbody>
</table>
A comparison of AMOLED and LCD panel about visual fatigue and visual discomfort
Jungmin Han (KAIST, Korea), Yuchun Yan (KAIST, Korea), Seo-Hee Bae (Hansol Eye Clinic, Korea), Hyeon-Jeong Suk (KAIST, Korea)

Optimal Brightness of Head Mounted Display for Virtual Reality Contents
Yuchun Yan (KAIST, Korea), Jungmin Han (KAIST, Korea), Hyeon-Jeong Suk (KAIST, Korea)

Analysis on Color–related Education for the Non–design Majors Involved in Collaborative Design Applications in the Field–centered Curriculum
Hea Won Kim (Dong Seoul University, Korea)

A Tendency Analysis of Material and Color Characteristics of Modern Architecture Heritage in the Urban Regeneration –Focused on Yongsan hospital complex–
Soonchol Eom (Chung–Ang University, Korea), Seokhyun Lee (Chung–Ang University, Korea)

An Analysis Current and Improvement Methods of Landscape Color Guideline in Korea
Juhee Kim (Chung–Ang University, Korea), Seokhyun Lee (Chung–Ang University, Korea)

A Study on Color Guidelines for Landscape Planning in Daejeon City
Ji–seon Ryu (Chungnam National University, Korea), Jin–Sook Lee (Chungnam National University, Korea)

On the Differences of "+ Color" and "Color +" in Design Thinking
Jianming Song (China Academy of Art, China)

A Study on Colors for the Establishment of Corporate – Visual Identity – Focusing on a pot flower farm "HS Flower"
Minhee Hong (Hongik University, Korea), Younjin Lee (Hongik University, Korea)

A Study on the Color Image by Elements of Sustainable Space Design
Sooknyung Ha (Sangmyung University, Korea)

A Light Palette: Color Exploration on Equal Luminance
Kyeong Ah Jong (KAIST, Korea), Hyeon–Jeong Suk (KAIST, Korea)

Adaptive Illumination for the Home Appliances: A Case Study of Refrigerator
Kyeong Ah Jeong (KAIST, Korea), Hyeon–Jeong Suk (KAIST, Korea)

Study Group
15:10–18:00
Study Group I. SGLC (Study Group on Language of Colour): Halla A Hall
Study Group II. SGCE (Study Group on Colour Education): Halla B Hall
Study Group III. ECD (Study Group on Environmental Colour Design): Samda Hall
Scientific Program

Wednesday, 18th October

Oral Sessions

OS10: Science & Technology II
08:30–10:30 / Hall A Hall

OS10-1,2  (Invited) Image Quality Assessment on Mobile Devices
Haisong Xu (Zhejiang University, China)

OS10-3  Improving Color Reproduction Accuracy and Color Gamut of Mobile Displays
Eric Kirchner (Color Research, Netherlands), Ivo van der Lans (Color Research, Netherlands), Esther Perales (University of Alicante, Spain), Francisco Martinez-Verdú (University of Alicante, Spain)

OS10-4  Rendering Color to Obtain Preferred Image Effects on Wide Gamut Displays
Rui Gong (Xidian University, China), Xiandou Zhang (Hangzhou Dianzi University, China), Qing Wang (Qilu University of Technology, China)

OS10-5  How to Extend a Colour Range and Keeping the Logic, Consistency and Accuracy
Per Jutterstrom (NCS Colour AB, Sweden)

OS10-6  Camera Color Accuracy Evaluated via Metamer Mismatch Moments
Emitis Roshan (Simon Fraser University, Canada), Brian Funt (Simon Fraser University, Canada), Hamidreza Mirzaei (Simon Fraser University, Canada)

OS10-7  Evaluation of Color Difference Based on EEG
Yaowu Liu (Wenzhou University, China), Guihua Cui (Wenzhou University, China), Jinjin Chu (Wenzhou University, China), Xiukai Ruan (Wenzhou University, China), Yaoju Zhang (Wenzhou University, China), Luiluo Jiang (Wenzhou University, China), Changjun Li (Wenzhou University, China), Min Huang (Beijing Institute of Graphic Communication, China), Manuel Melgosa (Universidad de Granada, Spain), Ming Ronnier Luo (University of Leeds, United Kingdom)

OS10-8  Study of Chromatic Adaptation via a Memory Colour Matching Method
Qiyan Zhai (State Key Laboratory of Modern Optical Instrumentation, Zhejiang University, Hangzhou, China), Kevin A. G. Smet (ESAT / Light & Lighting Laboratory, KU Leuven, Ghent, Belgium), Peter Hanselaer (ESAT / Light & Lighting Laboratory, KU Leuven, Ghent, Belgium), Ming Ronnier Luo (State Key Laboratory of Modern Optical Instrumentation, Zhejiang University, Hangzhou, China)
OS11: Environment & Architecture IV
09:00-10:30 / Halla B Hall

OS11-1 The Color of Aalto’s White Walls
Virginia Cartwright (University of Oregon, USA)

OS11-2 Interior design color harmony experience through adjusted split-complementary color theory application
Joy Jee Yoon Lim (Colour Research Society of Canada, Canada)

OS11-3 The Adjustment of Color–Tunable LED Lighting for Residential Applications
Yandan Lin (Fudan University, China), Minchen Wei (The Hong Kong Polytechnic University, Hong Kong), Dandan Hou (Fudan University, China), Zixin Wen (Fudan University, China), Yan Lu (Fudan University, China)

OS11-4 The Effect of Microbial Treatment on the Color of Foliage Plant Aglaonema Growing in a Room with a Small Amount of Light
Yoonsun Kim (Sahmyook University, Korea), Sangeun Shin (Sahmyook Environmental GreenDesign Research Institute, Korea)

OS11-6 Red on Red
Esther Hagenlocher (University of Oregon, USA), Landry Smith (Landry Smith Architects, USA)

OS11-7 The Social Value of Use of Color as a Resource to Give Value to and Redevelop the Environment
Maasimo Caiazzo (IACC-IT, Italy), Jin Hee Lee (IACC-IT, Italy)

OS12: Color & Health I
08:30–10:30 / Samda Hall

OS12-1,2 (Invited) Colour in Employment: A New Colour Grading System with Applications in Healthcare and Visually-Demanding Occupations
John Barbur (City University London, United Kingdom)

OS12-3 Investigation of Interface Color Cognition on Health Industrial Websites
Shu–Ping Feng (Kao Yuan University, Taiwan), Hsueh–Fen Lin (Cheng Shiu University, Taiwan)

OS12-4 Color as design elements for healthcare websites
Hye Jeong Park (Iowa State University, USA), Sunghyun Ryoo Kang (Iowa State University, USA)

OS12-5 Color vision in normal eyes, diseased eyes and operated eyes
Kazim Hilmi Or (Private Office of Ophthalmology, Turkey)
OS12-6  Color Change Analysis for Measuring Capillary Refilling Time
Masayoshi Shinozaki (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Takaaki Nakada (Chiba University, Japan), Hideaki Haneishi (Chiba University, Japan), Shigeto Oda (Chiba University, Japan)

OS12-7  Does Illumination Affect Mobility of People with Low Vision?
Anukul Radsamrong (Chulalongkorn University, Thailand), Pichayada Katemake (Chulalongkorn University, Thailand), Éric Dinet (Université de Lyon, France), Alain Trémeau (Université de Lyon, France)

OS12-8  Forensic aspect of color: Color perception of eye witnesses
Kazim Hilmi Or (Private Office in Ophthalmology, Turkey)

OS13: Science & Technology III
10:50-12:35 / Halla A Hall

OS13-1,2  (Invited) Melanopsin and Colour Vision
Lindsay MacDonald (University College London, United Kingdom), Garside D. (University College London, United Kingdom), Teuissen C. (Philips Lighting Research, Eindhoven, Netherlands)

OS13-3  Tetra-chromatic super vision model: what's Peking robin seeing?
Hiroaki Kotera (Kotera Imaging Laboratory, Japan)

OS13-4  New Models of Colour Appearance Scales: Saturation, Vividness, Blackness and Whiteness
Yoon Ji Cho (University of Leeds, Yonsei University, Korea), M Ronnier Luo (University of Leeds, Zhejiang University, United Kingdom), Li-Chen Ou (National Taiwan University of Science and Technology, Taiwan), Guihua Cui (Wenzhou University, China), Kwanghoon Sohn (Yonsei University, Korea)

OS13-5  Influences on the Observer Variability with Different Viewing Conditions
Min Huang (Beijing Institute of Graphic Communication, China), Ruili He (Beijing Institute of Graphic Communication, China), Chunjie Shi (Beijing Institute of Graphic Communication, China), Yu Liu (Beijing Institute of Graphic Communication, China), Guihua Cui (Wenzhou University, China), Haoxue Liu (Beijing Institute of Graphic Communication, China), Ming Ronnier Luo (University of Leeds, United Kingdom), Manuel MELGOSA (Universidad de Granada, Spain)

OS13-6  When are High Dynamic Range Imaging Reproductions Aesthetically Preferable to Colorimetric Accurate Images?
Keith Derek Martin Findlater (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom)

OS13-7  International comparison of ageing effects on color similarity
Nana Itoh (National Institute of Advanced Industrial Science and Technology, Japan), Ken Sagawa (National Institute of Advanced Industrial Science and Technology, Japan)
OS14: Psychology & Education I
10:50-12:20 / Halla B Hall

OS14-1,2  (Invited) The Possibilities and Limitations of the Psycho–behavioral Effects of Color
Shin’ya Takahashi (Tokai Gakuen University, Japan)

OS14-4  Factors Affecting Unique Hue Stimuli Selections Using Object Colors
Renzo Shamey (North Carolina State University, USA), Muhammad Zubair (North Carolina State University, USA), Rolf G Kuehni (North Carolina State University, USA)

OS14-5  A Cross–Cultural Study of Colour Emotion and Colour Harmony
Li–Chen Ou (National Taiwan University of Science and Technology, Taiwan), Yingqiu Yuan (National Taiwan University of Science and Technology, Taiwan), Sato Tetsuya (Kyoto Institute of Technology, Japan), Wen–Yuan Lee (Tatung University, Taiwan), Ferenc Szabó (University of Pannonia, Hungary), Suchitra Sueeprasan (Chulalongkorn University, Thailand), Rafael Huertas (Universidad de Granada, Spain)

OS14-6  The Effect of Chromatic and Achromatic Color Schemes on Children’s Emotions in a Preschool Classroom
Dalirnaghadeh, D., Nilgün Olguntürk (Bilkent University, Turkey)

OS14-7  Color, Emotion and Behavioral Intentions in City Hotel Guestrooms
Selin Yar, Nilgün Olguntürk (Bilkent University, Turkey)

OS15: Color & Health II
10:50-12:20 / Samda Hall

OS15-1,2  (Invited) Colour for Health: Update on the Latest Developments in Light Therapy
Anadi Martel (International Light Association (ILA), Belgium)

OS15-3  Reading on Tablet: Effect of Background on Visual Fatigue
Suchitra Sueeprasan (Chulalongkorn University, Thailand), Praewpan Youyen (Chulalongkorn University, Thailand), Tetsuya Sato (Kyoto Institute of Technology, Japan)

OS15-4  Preliminary study on evaluation of legibility and visual fatigue against luminescent text display based on physiological information
Daiki Saito (Saitama University, Japan), Keiichi Watanuki (Saitama University, Japan), Keiichi Muramatsu (Saitama University, Japan), Kazunori Kaede (Saitama University, Japan), Masutsugu Tasaki (ASAHI RUBBER INC., Japan), Takashi Kanahira (ASAHI RUBBER INC., Japan), Eiji Ishiguro (ASAHI RUBBER INC., Japan), Naoya Mashiko (ASAHI RUBBER INC., Japan)
OS15-5 Preliminary Study on Estimating Legibility and Visual Fatigue against LED Lightings by Deep Learning of Biological Information
Kenji Tajima (Saitama University, Japan), Tomohiro Nishikawa (Saitama University, Japan), Daiki Saito (Saitama University, Japan), Keiichi Watanuki (Saitama University, Japan), Keiichi Muramatsu (Saitama University, Japan), Kazunori Kaede (Saitama University, Japan), Masutsugu Tasaki (ASAHI RUBBER INC., Japan), Takashi Kanahira (ASAHI RUBBER INC., Japan), Eiji Ishiguro (ASAHI RUBBER INC., Japan), Naoya Mashiko (ASAHI RUBBER INC., Japan)

OS15-6 Impression and Clarity of Bathroom Lighting
Suchitra Sueprasan (Chulalongkorn University, Thailand), Natchanun Ekpoorthor (Chulalongkorn University, Thailand), Roongnapa Sakonkaruehadet (Chulalongkorn University, Thailand), Warisa Ouimak (Chulalongkorn University, Thailand)

General Assembly
13:00-15:00 / Halla A Hall

Excursion
15:00-19:00 / Jeju Stone Park
Scientific Program

Thursday, 19th October

Award Lecture I. 2017 AIC Deane B. Judd Award

Ming Ronnier Luo (United Kingdom)
09:00–09:45 / Halla A Hall

Oral Sessions

OS16: Science & Technology IV
10:05–12:05 / Halla A Hall

OS16-1,2 (Invited) Applications of CIE2015 Cone-Fundamental Based Colorimetry
Hirohisa Yaguchi (Chiba University, Japan)

OS16-3 Comparison of Object-Color and Illuminant Metamerism for Digital Image Color Correction
Jueqin Qiu (Zhejiang University, China), Haisong Xu (Zhejiang University, China), Peng Xu (Zhejiang University, China)

OS16-4 Root-Polynomial Color Homography Color Correction
Han Gong (University of East Anglia, United Kingdom), Graham D. Finlayson (University of East Anglia, United Kingdom)

OS16-5 Colour Correction Toolbox
Fufu Fang (University of East Anglia, United Kingdom), Han Gong (University of East Anglia, United Kingdom), Michal Mackiewicz (University of East Anglia, United Kingdom), Graham Finlayson (University of East Anglia, United Kingdom)

OS16-6 Maximum Ignorance Polynomial Colour Correction
Fufu Fang (University of East Anglia, United Kingdom), Graham Finlayson (University of East Anglia, United Kingdom)

OS16-7 Color Transfer for Harmony with a Target Color
Eunjin Kim (KAIST, Korea), Hyeon-Jeong Suk (KAIST, Korea)

OS16-8 Coloured Shadows – Why They Can Be Photographed
Cecilia Sik-Lanyi (University of Pannonia, Hungary), Veronika Szűcs (University of Pannonia, Hungary), Robert Hirschler (SENAI/CETIQT, Brazil)
OS17: Color & Health III
10:05–12:05 / Halla B Hall

OS17-1,2 (Invited) A Modern Approach to Health in Conventional Chinese Color Thought
Tien Rein Lee (Chinese Culture University, China)

OS17-3 What are the Colours of Health and Sickness?
Ivar Jung (Linnaeus University, Sweden), Yulia A. Griber (University of Smolensk, Russia), Jeannette Hanenburg (Colour Professionals, Belgium)

OS17-4 The Importance of Colour in Human Life
Edda Mally (IACC, Austria), Jin Hee Lee (IACC, Italy)

OS17-5 Consciousness and Preference on Healthcare Color Environment by Generation
Heykyung Park (Inje University, Korea)

OS17-6 Colour Profiling – A Blueprint for Health and Wellbeing
Mark Wentworth (Colour for Life, United Kingdom)

OS17-7 Evaluation of the alerting effects of short–wavelength (blue) and broadband wavelength (green) lights on human during late evening using EEG
Jing Lin (Leeds University, United Kingdom), Stephen Westland (Leeds University, United Kingdom)

OS18: Color & Light I
10:05–12:05 / Samda Hall

OS18-1,2 (Invited) Regulating Artificial Light at Night for Protecting Health and Sustainability
Jeong-Tai Kim (Kyung Hee University, Korea)

OS18-3 Modelling Atmosphere Perceptions of Dynamic Coloured Lightings
Qiyan Zhai (Zhejiang University, China), Bing Li (Zhejiang University, China), J. B. Hutchings (Leeds University, United Kingdom), Fangtian Ying (Zhejiang University, China), Ming Ronnier Luo (Zhejiang University, China; Leeds University, United Kingdom)

OS18-4 Effect of Duv on Color Rendering Properties of Light Sources
Fuzheng Zhang (Zhejiang University, China), Haisong Xu (Zhejiang University, China)

OS18-5 Lighting Ambient Effect on Saturation of Durian and Sensation
Supawadee Theerathamkorn (Chulalongkorn University, Thailand), Aran Hansuebsai (Chulalongkorn University, Thailand), Yasushi Hoshino (Tokyo Denki University, Japan)
Analysis on Color Break-Up Effect of Time-Modulated Full Color LED Lighting during Saccadic Eye Movement
Deok-Weon Song (Yeungnam University, Korea), HyeRan Kang (Yeungnam University, Korea), JeongHun Kim (Yeungnam University, Korea), Ji-Hwan Lee (Yeungnam University, Korea), Chan-Su Lee (Yeungnam University, Korea)

Mutual Illumination and Color Constancy
Pichayda Katemake (Chulalongkorn University, Thailand), Rada Deeb (Université de Lyon, France), Damien Muselet (Université de Lyon, France), Mathieu Hebert (Université de Lyon, France), Alain Trémeau (Université de Lyon, France)

Light on Paper – Study on Origami and Shadows
Sara Antunes Costa (University of Lisbon, Portugal), Mario S. Ming Kong (University of Lisbon, Portugal)

PS03: Psychology, Light, Science & Technology
13:30–15:10 / Lobby, 3F

Optimal White Point of Television under Varying Illuminants
Taesoo Kim (KAIST, Korea), Kyungah Choi (KAIST, Korea), Yeonhui Ji (KAIST, Korea), Hyeon-Jeong Suk (KAIST, Korea)

Ecology Explains Color Preferences in a Non-Industrialized Culture
Agata Groyecka (University of Wroclaw, Poland), Christoph Witze (Justus-Liebig Universität Gießen, Germany), Marina Butovskaya (Russian Academy of Sciences and Russian State University for the Humanities, Russia), Piotr Sorokowski (University of Wroclaw, Poland)

The effect of providing specific color information on color preference in the future
Na-na Je (Ewha Womans University, Korea), Gyoung-sil Choi (Ewha Womans University, Korea)

A Study on the Associative Colors and Preferred Colors of Four Seasons According to Regions
Ji Young Yoon (Ewha Womans University, Korea), Gyoung-sil Choi (Ewha Womans University, Korea)

A Study on Correlation of Character’s Gender, Personality and Color in Children’s Animations
Woo-Jin Cha (Ewha Womans University, Korea)

Personality Characteristics Relating to Individual Consistency of Color Preference
Shinji Nakamura (Nihon Fukushi University, Japan), Shin’ya Takahashi (Tokaigakuen University, Japan)

Psychological Response in Youths to Different LED Colors and Chromas
Ji-Young Park (Chungnam National University, Korea), Kwang-Hyun Choi (Chungnam National University, Korea), Tae-Hwa Shin (Chungnam National University, Korea), Seong-Wook Lim (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea)
PS03-09  Investigation of the Fraser–Wilcox illusion based on photoreceptor stimulations
Wakayo Yamashita (Kagoshima University, Japan), Akiko Matsumoto (Kagoshima University, Japan),
Gerald Larkins (Kagoshima University, Japan), Akiyoshi Kitaoka (Ritsumeikan University, Japan),
Sei-ichi Tsujimura (Kagoshima University, Japan)

PS03-10  Emotional Responses to Analogous and Complementary Color Combinations of Warm and Cool Colors
Eun Gyeong Shin (Pusan National University, Korea), Ji Min Ha (Pusan National University, Korea),
Soobeen Park (Pusan National University, Korea)

PS03-11  Quantitative analysis of subjective color appearance based on color and filter transmittance rates
KwangHyun Choi (Chungnam University, Korea), JiYoung Park (Chungnam University, Korea), Ho Lee
(Chungnam University, Korea), JinSook Lee (Chungnam University, Korea)

PS03-12  Effect of Skin Tones on Color Emotion of Lipstick Colors
Semin Oh (UNIST, Korea), Hayeon Jeon (UNIST, Korea), Chaeeun Lee (UNIST, Korea), Arpbai Musaev
(UNIST, Korea), Youngshin Kwak (UNIST, Korea)

PS03-13  The Relationship between Colors and Fragrances by Color impression
Tadayuki Wakata (Waseda University, Japan), Miho Saito (Waseda University, Japan)

PS03-14  A Study on Image Quality Preference by Image Brightness and Saturation – a Comparison between Adult Group and Elderly Group
DaEun Park (Ewha Womans University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS03-15  Image of Purple and Orange by Pleasantness Seekers and Comfortableness Seekers
Shin'ya Takahashi (Tokaigakuen University, Japan), Takashi Hanari (Sugiyama Jogakuen University, Japan),
Riko Miyake (Tokaigakuen University, Japan)

PS03-16  Color Features of the Waterscape Drawing and Drawer’s Mental Image of the Water
Riko Miyake (Tokaigakuen University, Japan), Shin'ya Takahashi (Tokaigakuen University, Japan), Toshio
Mori (Gifu Women’s University, Japan)

PS03-17  Study on the Application of Nail Coloring According to the Color Preference of Women between 20s and 40s.
Rok Sin (Konkuk University, Korea), Yeon Ja Jung (Konkuk University, Korea)

PS03-18  Possible Influences of Motion and Attention on Color Constancy
Lifang Wan (Graduate School of Engineering, Kochi University of Technology, China), Keizo Shinomori
(Vision and Affective Science Integrated Research Lab., School of Information /Research Institute, Kochi
University of Technology, Japan)

PS03-19  Blue Fluorescent Color on Displays
Haeryung Hong (Ewha Womans University, Korea), Yungkung Park (Ewha Womans University, Korea)
PS03-20 Visual Impression of Color Arrangements on a Computer Display Produced by the Colored Light Characterization Method
Kousuke Sugioka (Kyoto University, Japan), Taiichiro Ishida (Kyoto University, Japan)

PS03-21 Contrast Impact of Two-Piece Garments
Miyoshi Ayama (Utsunomiya University, Japan), Tomoharu Ishikawa (Utsunomiya University, Japan), Michiru Tagaya (Utsunomiya University, Japan)

PS03-22 The Influence of Character Processing Level on Grapheme-Colored Synesthesia
JuHyun Lee (Dongseo University, Korea), Katsuaki Sakata (Joshibi University of Art and Design, Japan)

PS03-23 Personal Color Tone analysis system research development for different face shapes (For women in their 20s and 40s)
Min-Kyoung Kim (KMK color Institute, Korea)

PS03-24 Experiment on the effect of Color Perception on the Sensation felt according to Temperature Change
Jin-Young Baek (Konkuk university, Korea), Ji-Sun Kim (Konkuk university, Korea), Han-Byeol Oh (Konkuk university, Korea), Jae-Hoon Jun (Konkuk university, Korea)

PS03-25 A Study on Healing Colors to Improve Work Environments of Beauty Workers
Yeon-Hee Chang (KMK color Institute, Korea), Min-Kyoung Kim (KMK color Institute, Korea)

PS03-26 A Comparative Study on Sensibility of Light Floor Living Room Space by Color Temperature & Illuminance Characteristic
Dong-Hun Lee (ECOFEE, ltd, Korea), Jin-Sook Lee (Chungnam National University, Korea), Chan-Ung Jeong (Chungnam National University, Korea)

PS03-28 Study on Effect of Changing RVSI on Colour Appearance
Shinich Oyama (Graduate School of Science and Technology, Meijo University, Japan), Mikiko Kawasumi (Graduate School of Science and Technology, Meijo University, Japan)

PS03-29 A Study of Meeting Room Spaces Depending on Color Temperature and Illuminance Characteristics
Chan-Ung Jeong (Chungnam National University, Korea), Hy-Eim Song (Chungnam National University, Korea), Byeong-Gwan Lee (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea)

PS03-30 Power Spectra and Spectral Signatures of Natural Images under Varying Light Illuminations
Juan Ojeda (Researcher, Spain), Juan Luis Nieves (Associate Professor, Spain), Javier Romero (Full Professor, Spain)
Color Characteristics of LEDs in Systems of Dynamic Lighting
Anna Savitskaya (National Research University MPEI, Russia), Nikolay Yeliseev (National Research University MPEI, Russia)

A Study of Color Rendering Evaluation Depending on the Color Temperature Characteristics of Automobile Mirror Lamp
Chan–Ung Jeong (Chungnam National University, Korea), Seong–Uk Kim (HYUNDAI–MOTOR, Korea), Jin–Sook Lee (Chungnam National University, Korea)

A Study on Photo–biological Safety Search of LED products with IEC 62471
Kyung–Ho Noh (Korea Testing & Research Institute, Korea), Uh–Chan Ryu (Pukyong National University, Korea)

A Study of Trends in Luminance of Automobile Air Conditioning and Audio Control Color Buttons and Evaluation of Their Performance
Jin–Sook Lee (Chungnam National University, Korea), Nu–Ri Jeon (HYUNDAI MOTOR, Korea), Chan–Ung Jeong (Chungnam National University, Korea)

The Influence of Lighting and Drape on the Appearance of Color and Texture of Glossy and Matt Fabric
Shuilan He (Graduate School of Joshibi University of Art and Design, Japan), Yuki Nakajima (Graduate School of Joshibi University of Art and Design, Japan), Takayoshi Fuchida (Graduate School of Joshibi University of Art and Design, Japan)

Eyesight Characteristics of the Elderly Based on Color Temperature and Illuminance of LED Lighting
Jiyoung Park (Chungnam National University, Korea), Kwanghyun Choi (Chungnam National University, Korea), Chanung Jeong (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)

Influence of nail color on color appearance for skin color
Yuki Nakajima (Graduate school of Joshibi University of Art and Design, Japan), Shuilan He (Graduate school of Joshibi University of Art and Design, Japan), Takayoshi Fuchida (Graduate school of Joshibi University of Art and Design, Japan)

A Study on Emotional Response Consequent on Successive Contrast of Light Color
Seongjoo Park (Chungnam National University, Korea), Jieun Jang (Chungnam National University, Korea), Chanung Jeong (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)

Simultaneous Color Contrast in White Perception of Complex Scenes
Malgorzata Perz (Philips Lighting Research, Netherlands), Dragan Sekulovski (Philips Lighting Research, Netherlands)
PS03-40  A Study of Sensibility Image of Cafes Depending on Their Interior Lighting and Color Tones  
Eun-Ji Seo (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea)

PS03-41  Research on Night Lighting Environment Condition and Improvement Plan of the marine tourism city  
Jungsoon Yang (Paichai University, Korea)

PS03-42  Deduction of Harmonious Color Temperature Ranges of Daylight and LED Lighting  
Eun-Ji Seo (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea)

PS03-44  Color Appearance of Vegetable according to Color Temperature and TM-30–15 Index  
Chulsoo Yoon (Samsung Electronics, Korea), Jeongrok Oh (Samsung Electronics, Korea), Sungwoo Choi (Samsung Electronics, Korea), Jiyoung Park (Chungnam National University, Korea), Kwanghyun Choi (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea)

PS03-45  Study on Color Appearance of Meat Consequent on TM–30 Index  
Jeongrok Oh (Samsung Electronics, Korea), Chulsoo Yoon (Samsung Electronics, Korea), Jeongeun Yun (Samsung Electronics, Korea), Jiyoung Park (Chungnam National University, Korea), Kwanghyun Choi (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea)

PS03-46  Synthesis of Carbon Black Modified and Their Carbon Color  
Soo Youl Park (KRICT, Korea), Byung Min Lee (KRICT, Korea)

PS03-47  The Investigate of High-Luminance Complex Colorant for LCD Color filter  
Soo Youl Park (KRICT, Korea), Byung Min Lee (KRICT, Korea)

PS03-48  Three-Dimensional Color Prediction Models for Yarn-Dyed Woven Fabrics  
Youngloo Chae (The Hong Kong Polytechnic University, Hong Kong), Tao Hua (The Hong Kong Polytechnic University, Hong Kong), John H. Xin (The Hong Kong Polytechnic University, Hong Kong)

PS03-49  A Perceptual Method to Assess Color in Interfaces  
Cristian Bonanomi (Università degli Studi di Milano, Italy), Matteo Paolo Lanaro (Università degli Studi di Milano, Italy), Alessandro Rizzi (Università degli Studi di Milano, Italy), Barbara Rita Barricelli (Università degli Studi di Milano, Italy)

PS03-50  BRDF Correction for Multispectral Imagery of Korea Multi-Purpose Satellite-3A  
Jisoo Hwang (Korea Research Institute of Standards and Science, Korea), Jong-Min Yeom (Korea Aerospace Research Institute, Korea)

PS03-51  Improving Color Accuracy of a Low–Cost Color Instrument  
Eric Kirchner (AkzoNobel Performance Coatings, Netherlands), Pim Koeckhoven (AkzoNobel Performance Coatings, Netherlands), Keshav Sivakumar (AkzoNobel Performance Coatings, India)
PS03-52 Characterizing the Variations in Skin Colours before and after the Aerobic and Anaerobic Exercises
Li Jiang (University of Science and Technology Liaoning, China), Cheng Gao (University of Science and Technology Liaoning, China), Xiaotong Huang (University of Science and Technology Liaoning, China), Boxuan Ren (University of Science and Technology Liaoning, China), Kaida Xiao (University of Science and Technology Liaoning, China), Changjun Li (University of Science and Technology Liaoning, China)

PS03-53 Colour Synthesizer Source based on Spatially Variable Spectral Filter and Spatial Modulator
Dong-Hoon Lee (KRISS, Korea), Seongchong Park (KRISS, Korea), Jaekun Yoo (KRISS, Korea), Jisoo Hwang (KRISS, Korea)

PS03-54 A Study on the Color Appearance of Munsell Color Charts under Various Illuminants
Wen-Guey Kuo (Chinese Culture University, Taiwan), Chiang Hsiao (Chinese Culture University, Taiwan), I–An Lu (Chinese Culture University, Taiwan), Qi–Zhu Hong (Mei Cha Mei Finishing Co. Ltd., Taiwan), Tzu–Han Lin (Mei Cha Mei Finishing Co. Ltd., Taiwan), Yi–Wen Zeng (Mei Cha Mei Finishing Co. Ltd., Taiwan)

PS03-55 A Study on Color Reaction based on Physiological Test
Dong Jun Shin (Hongik University, Korea), Joo Yun Kim (Hongik University, Korea)

PS03-56 A Memory Effect in Metallic Material Perception
Paru Kondo (Chiba University, Japan), Midori Tanaka (Chiba University, Japan), Takahiko Horiuchi (Chiba University, Japan)

PS03-57 Changes of Pupil Size during Colored Texture Observation
Ryusuke Arai (Chiba University, Japan), Midori Tanaka (Chiba University, Japan), Takahiko Horiuchi (Chiba University, Japan)

PS03-58 Contribution of iPRGC to the Fluorescent Feeling
Yuki Tanaka (Chiba University, Japan), Keita Hirai (Chiba University, Japan), Midori Tanaka (Chiba University, Japan), Takahiko Horiuchi (Chiba University, Japan), Katsunori Okajima (Yokohama National University, Japan)

PS03-59 Investigation of Optimal Green Primary Color in Ultra Wide Color Gamut Display
Yusuke Inuzuka (Utsunomiya University, Japan), Akihisa Kumakura (Utsunomiya University, Japan), Tomoharu Ishikawa (Utsunomiya University, Japan), Miyoshi Ayama (Utsunomiya University, Japan)

PS03-60 Evaluation of colour variation of grey scales with the viewing angle
Berta Bernad (CSIC, Spain), Alejandro Ferrero (CSIC, Spain), Joaquin Campos (CSIC, Spain), Noël Richard (University of Poitiers, France), Christine Fernández–Maloigne (University of Poitiers, France), Manuel Melgosa (University of Granada, Spain)
PS03-61 Spectral and Color Characterization of a Quantum Dots Display
Khalil Huraibat (University of Alicante, Spain), Eric Kirchner (AkzoNobel Performance Coatings, Netherlands), Ivo van der Lans (AkzoNobel Performance Coatings, Netherlands), Alejandro Ferrero (Consejo Superior de Investigaciones Científicas (CSIC), Spain), Joaquin Campos (Consejo Superior de Investigaciones Científicas (CSIC), Spain), Francisco Miguel MArtínez-Verdu (University of Alicante, Spain), Esther Perales (University of Alicante, Spain)

PS03-62 The Effect of Microbial Treatment in a Room with Significantly Lower Light Intensity on the Color of Indoor Foliage Plant
YooSun Kim (Sahmyook University, Korea), SangEun Shin (Sahmyook Environmental GreenDesign Research Institute, Korea), KiYoung Park (National Institute of Horticultural and Herbal Science, Korea)

PS03-63 Neurophysiological Approach to the Effect of Color Scheme and Light – Focused on PB Color with Short Wavelength
JiMin Ha (Pusan National University, Korea), EunGyeong Shin (Pusan National University, Korea), SooBeen Park (Pusan National University, Korea)

PS03-64 Perceivable luminance resolution for designing optimum display gamma in dark room condition
Eunjung Lee (Samsung Display, Korea), Suyoung Kim (Samsung Display, Korea), Jongho Chong (Samsung Display, Korea), Unbyoll Ko (Samsung Display, Korea), Seungbae Lee (Samsung Display, Korea), Hyeyong Chu (Samsung Display, Korea), Sungchul Kim (Samsung Display, Korea)

PS03-65 The Effect of Microbial Treatment on the Color of Foliage Plant Aglaonema Growing in a Room with a Small Amount of Light
YooSun Kim (Sahmyook University, Korea), SangEun Shin (Sahmyook University, Korea), HyeJeong Lee (Sahmyook Environmental GreenDesign Research Institute, Korea), SeouHyun Kim (Sahmyook University, Korea), YooJin Kim (Sahmyook University, Korea), YoonYoung Kim (Sahmyook University, Korea)

PS03-66 Salient and Relevant Colors in Digital Images of Paintings
Juan Luis Nieves (Univ. Granada, Spain), Luis Gomez–Robledo (Univ. Granada, Spain), Javier Romero (Univ. Granada, Spain)

PS03-67 A Study on Volumetric of Stripe Patterns on Space and Cube
Kyungmin Lee (Ewha Womans University, Korea), Yungkyung Park (Ewha Womans University, Korea)

PS03-68 Towards a comprehensive comparison among recent colour-difference formulae
Adrián Fernández (Universidad Complutense de Madrid, Spain), Alejandro Ferrero (CSIC, Spain), Manuel Melgosa (Departamento de Óptica, Universidad de Granada, Granada, Spain)

PS03-70 Conspicuity of Facial Pigmentation Influenced by Its Distribution
Chisako Otsuka (Graduate School of Science and Engineering, Chiba University, Japan), Yoko Mizokami (Graduate School of Science and Engineering, Chiba University, Japan), Kumiko Kikuchi (Shiseido Global Innovation Center, Japan), Hirohisa Yaguchi (Chiba University, Japan)
PS03-71 What Factors Mediate Individual Differences in Color Matching?
Atsushi Konno (Yamagata University, Japan), Kunihiro Hatakeyama (Yamagata University, Japan), Yuki Kawashima (Yamagata University, Japan), Tomonori Tashiro (Yamagata University, Japan), Takehiro Nagai (Yamagata University, Japan), Yasuki Yamauchi (Yamagata University, Japan)

PS03-73 Color Design Research
Lev Vozchikov (Independent, USA)

PS03-74 Discrimination Thresholds for Skin Image and Uniform Color Stimulus
Kazuki Hamada (Chiba University, Japan), Yoko Mizokami (Chiba University, Japan), Kumiko Kikuchi (Shiseido Global Innovation Center, Japan), Hirohisa Yaguchi (Chiba University, Japan)

PS03-75 Gloss Estimation of Medium and High-gloss Specimens Using a Digital Camera
Farnam Kavehei (AmirKabir University of Technology, Iran), Saeideh Gorji Kandi (AmirKabir University of Technology, Iran)

PS03-76 Analysis of Color Image of City Identity and Application Icon – Focusing on Domestic City Halls
Woo Ram Shin (Hongik University, Korea), Youn Jin Lee (Hongik University, Korea)

PS03-77 HDR Spectral Video System Using CMY-ND Filter
Yuki Onishi (Chiba University, Japan), Yoshitsugu Manabe (Chiba University, Japan), Noriko Yata (Chiba University, Japan)

PS03-78 A Study on Color Preference According to Personality Type – Focusing on People in their 20s and 30s
Yea Won Kim (Hongik University, Korea), Hyun Sun Chung (Hongik University, Korea)

PS03-79 Analysis of Trends and Characteristics of Domestic Nightscape Planning – With focus on 17 Regional Local Government –
Seong Hui Kim (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea)

PS03-80 Comparison of Color Emotions in Physical Space and Virtual Space
Wonyoung Jeong (Chungnam National University, Korea), Jiyoung Park (Chungnam National University, Korea), Jin-Sook Lee (Chungnam National University, Korea), Eunji Seo (Chungnam National University, Korea)

PS03-81 Senior Guideline for Smartphone Contents Based on Color
Yoonjung Kim (Ewha Womans University, Korea), YounJin Lee (Hongik University, Korea), YungKyung Park (Ewha Womans University, Korea)

PS03-82 Determination of chromium in water by using digital imaging and considering the Con Kries Chromatic adaptation in RGB and HSV Color Spaces
Mohsen Panjeali (Amirkabir University of Technology, Iran), Saeideh Gorji Kandi (Amirkabir University of Technology, Iran), Farhad Panahi (Amirkabir University of Technology, Iran)
The dependency of color constancy of a paint film to the initial paints
Bita Fotowat (Amirkabir University of Technology, Iran), Saeideh Gorji Kandi (Amirkabir University of Technology, Iran)

Basic Research on Responsive Webpage consequent on IT Device
Eunkyung Kim (Chungnam National University, Korea), Eunji Seo (Chungnam National University, Korea), Jinsook Lee (Chungnam National University, Korea)

Coloration of Textile Care Symbols Applying Color Images
Masashi Kobayashi (Osaka Shoin Women's University, Japan), Yuko Mori (Osaka Shoin Women's University, Japan), Ikuko Okamoto (Osaka Kyoiku University, Japan)

Image–Color Harmony: Insights from Design Practice
Eunjin Kim (KAIST, Korea), Hyeon–Jeong Suk (KAIST, Korea)

Oral Sessions

OS19: Science & Technology V
15:10–17:10 / Halla A Hall

The Importance of Lightness in Perceived Color Difference of Black Yarns
Razieh Jafari (Institute for Color Science and Technology, Iran), Mahdi Safi (Institute for Color Science and Technology, Iran)

Color Measurement and Image Simulation of Dyes and Pigments Aged by Sunlight
Atsushi Moriwaki (Yokohama National University, Japan), Katsunori Okajima (Yokohama National University, Japan)

Cosmetic Surgery Simulations–based Preference Study
Muhammad Farhan Mughal (Zhejiang University, China), Mengmeng Wang (University of Leeds, United Kingdom), Ming Ronnier Luo (Zhejiang University, China; University of Leeds, United Kingdom)

Analysis of Relationship between Hair Colors and Personalities of Character Illustrations and Its Application
Motonori Doi (Osaka Electro–Communication University, Japan), Hideki Sakai (Osaka City University, Japan), Masashi Komori (Osaka Electro–Communication University, Japan)

Matching Reference Colours in 3D Reproduction of Fine–art Paintings
Lindsay MacDonald (University College London, United Kingdom), Mike Jackson (Arius Technology Inc, Canada)

Image Clarity–New Technology to Perfect Optical Properties of Surfaces
Hideo Kita (Suga test instruments Co., Ltd, Japan), Shigeo Suga (Suga test instruments Co., Ltd, Japan), Satoshi Tanaka (Suga test instruments Co., Ltd, Japan), Jack A. Ladson (Color Science Consultancy, USA)
OS20: Psychology & Education II
15:10-17:10 / Halla B Hall

OS20-1 Description of Three-Color Combination Preferences, their Reasons, and Features: To Create a Visual Color Design Aid
Kiwamu Maki (Jissen Women’s University, Japan)

OS20-2 Assessing the Performance of Quest Algorithms in Visual Experiments for Blur Discrimination Thresholds
Yue Yuan (Beijing Institute of Technology, China), Qingmei Huang (Beijing Institute of Technology, China), Yanli Jiang (Beijing Institute of Technology, China)

OS20-3 Color Teaching aids in Chinese contemporary institutions: Design, production and promotion
Yuhang Jing (China Academy of Art, China)

OS20-4 Gray Color Sensibility Image and Preference in Textile
Yujin Choi (Hongik University, Korea), YounJin Lee (Hongik University, Korea)

OS20-5 Knowing the City Through the Game of Color
Samira Kadamani (University of Los Andes, Colombia), Sebastian Camilo Cabal (University of Los Andes, Colombia)

OS20-6 Influence to Visual Attractiveness of 3 x 3 Entire Pattern by Positions of Two Colored Panels
Keizo Shinomori (Kochi University of Technology, Japan), Ryota Nakaya (Kochi University of Technology, Japan), Ippei Negishi (Kanazawa Institute of Technology, Japan)

Nallely Rangel (Universidad Nacional Autónoma de México, México)

OS21: Color & Light II
14:55-17:10 / Samda Hall

OS21-1,2 (Invited) CIE Research Strategy – Future of Color Quality Metrics for Lighting
Yoshi Ohno (National Institute of Standards and Technology, USA)

OS21-3 Phosphor–Converted Light– Emitting Diodes of Preferential Color Properties
Akvilė Zabiliūtė–Karaliūnė (Vilnius University Institute of Applied Research, Lithuania), Henrikas Dapkus (Vilnius University Institute of Applied Research, Lithuania), Pranciškus Vitta (Vilnius University Institute of Applied Research, Lithuania), Andrius Petrušis (Vilnius University Institute of Applied Research, Lithuania), Artūras Žakauskas (Vilnius University Institute of Applied Research, Lithuania)
OS21-4  The Modeling of the comfort for LED Interior Lighting Based on The Chromaticity Coordinates
Qing Wang (Qilu University of Technology, China), Haisong Xu (Zhejiang University, China), Rui Gong
(Xidian University, China), Fenghua Li (Shandong University of Art and Design, China)

OS21-5  IoT & Python based Measurement and Analysis of Lighting Color temperature and Illuminance for Human–centric Lighting Control
Youjin Kim (ETRI, Korea), Hyunseok Kim (ETRI, Korea), Jihun Jeon (ETRI, Korea), Tae Gyu Kang (ETRI, Korea)

OS21-6  How the Colour Fidelity and Gamut of Lightings Affect the Preference of Paintings?
Qiyan Zhai (Zhejiang University, China), Ming Ronnier Luo (Zhejiang University, China; Leeds University, United Kingdom), Ching–Ju Chou (National Taiwan University of Science and Technology, Taiwan), Hung–Shing Chen (National Taiwan University of Science and Technology, Taiwan)

OS21-7  Chromatic and spectral quality of lighting for self-dependent elderly people well–being: a case study
Maurizio Rossi (Politecnico di Milano, Italy), Daria Casciani (Politecnico di Milano, Italy), Fulvio Musante (Politecnico di Milano, Italy)

OS21-8  Effect of Illuminance and Colour of Light Source on Assessing Tooth Whiteness
Qianqian Pan (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom)

OS21-9  Preferable lighting conditions for migraineurs and non–migraineurs in working spaces
Akari Kagimoto (Yokohama National University, Japan), Katsunori Okajima (Yokohama National University, Japan), Shino Okuda (Doshisha Women’s College of Liberal Arts, Japan), Muneto Tatsumoto (Dokkyo Medical University, Japan), Koichi Hirata (Dokkyo Medical University, Japan)

Official Congress Banquet
18:00–21:00 / Cliff Garden, Hyatt Regency Jeju
Scientific Program

Friday, 20th October

Award Lecture II. 2017 AIC Colour Award in Art, Design and Environment

Awardee: Antal Nemcsics (Hungary)
09:00–09:45 / Halla A Hall

Oral Sessions

OS22: Science & Technology VI
10:05–12:05 / Halla A Hall

OS22-1 Evaluation of Whiteness Formulas for FWA and Non-FWA Whites
Yuzhao Wang (The Hong Kong Polytechnic University, Hong Kong; Zhejiang University, China), Minchen Wei (The Hong Kong Polytechnic University, Hong Kong), Shining Ma (The Hong Kong Polytechnic University, Hong Kong), Ming Ronnier Luo (Zhejiang University, China; University of Leeds, United Kingdom)

OS22-2 Characterization of Whiteness Appearance for FWA–enhanced White
Ming Ronnier Luo (Zhejiang University, China; University of Leeds, United Kingdom), Yuzhao Wang (Zhejiang University, China; The Hong Kong Polytechnic University, China), Shining Ma (Zhejiang University, China), Minchen Wei (The Hong Kong Polytechnic University, China)

OS22-3 Application of Colour Histogram of Feature Segmentation to Modelling of Glints in Metallic Coatings
Min-Ho Jung (Leeds University, United Kingdom), Vien Chung (Leeds University, United Kingdom), Peter A Rhodes (Leeds University, United Kingdom)

OS22-4 Investigation of the Simultaneous Colour Contrast Effect
Yuechen Zhu (Zhejiang University, China), Qiyan Zhai (Zhejiang University, China), Ming Ronnier Luo (Zhejiang University, China; Leeds University, United Kingdom)

OS22-5 Investigation of Flop Index by Variation in Size of Aluminum Flake and its Relation with the Surface Texture Quantified by Edge Frequency Method
Sakineh Amookht (Amirkabir University of Technology, Iran), Saeideh Gorji Kandi (Amirkabir University of Technology, Iran)

OS22-6 Perception of Metallic Materials by Projecting Solid Color on Nonmetallic Materials
Midori Tanaka (Chiba University, Japan), Takahiko Horiuchi (Chiba University, Japan)
OS22-7  Multi-angle Reflectance Setup (MARS) for Characterizing Goniochromatic Materials and Sparkle
Nina Basic (METAS, Switzerland), Florian Stuker (METAS, Switzerland), Peter Blattner (METAS, Switzerland)

OS22-8  Comparison on 1/1 Standard Color Depth of Three Main Standards
Hongying Yang (Zhongyuan University of Technology, China), Zhihui Yang (Zhongyuan University of Technology, China), Wanzi Xie (Zhongyuan University of Technology, China), Jingjing Zhang (Zhongyuan University of Technology, China), Qing Wang (Zhongyuan University of Technology, China)

OS23: Psychology & Education III
10:05–12:05 / Halla B Hall

OS23-1  Towards Industrial and Academic Standards to Promote and Attest Color Knowledge
Tien-Ren Lee (Chinese Culture University, Taiwan), Wang-I Chen (Industrial Technology Research Institute, Taiwan), Pei-Li Sun (Taiwan University of Science and Technology, Taiwan), Tsuei-Ju Hsieh (Chinese Culture University, Taiwan)

OS23-2  Overview of Colour Education in Brazilian Universities: a Focus on Design Courses in the State of São Paulo
Paula Csillag (ESPM, Brazil), Ana Lucia Lupinacci (ESPM, Brazil), Robert Hirschler (SENAl/CEIQT, Brazil)

OS23-3  Chromology: Transdisciplinary Proposal of a New Science of Color Born from Pedagogical Experiences
Manyé Pablo (Universidade Regional do Cariri–URCA, and Universidade de São Paulo–USP, Brazil)

OS23-6  Mindfulness Zen meditation makes less cognitive conflict in the prefrontal brain under the Stroop color interference
Naoyuki Osaka(Kyoto University, Japan, Osaka University & Neural Networks (CiNet), Japan), Takehiro Minamoto(Osaka University & Neural Networks (CiNet), Japan), Ken Yaoi(Kyoto University, Japan), Miyuki Azuma(Osaka University & Neural Networks (CiNet), Japan), Mariko(Osaka University & Neural Networks (CiNet), Japan)

OS24: Color & Health IV
10:05–12:05 / Samda Hall

OS24-1  Application of Sumac With Natural Pigments in Producing Essential Oils Color and Protection of Foods
Forouzandeh Ghasemi (Alzahra University, Iran)

OS24-3  Association Analysis of Tongue Color Spatial Distribution and Physiological Index based on Tongue Shape Normalization
Kazunari Murai (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Akira Morita (Chiba University, Japan), Takao Namiki (Chiba University, Japan)
Evaluation of Color Conversion Accuracy using Tongue Color Chart
Yudai Ota (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Masami Shishikura (DIC Corporation, Japan), Koichi Sakaue (Takano Co., Ltd., Japan), Akira Morita (Chiba University, Japan), Tadaaki Kawanabe (Kitasato University, Japan), Takao Namiki (Chiba University, Japan), Yoichi Miyake (Tokyo Polytechnic University, Japan)

Improving Intraoperative Color Appearance of Organ using Spectrally Tunable Light Source
Yoko Kurabuchi (Chiba University, Japan), Takashi Ohnishi (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Hideaki Haneishi (Chiba University, Japan)

Iris of Fashion: Method to Create an Identity in Fashion Design
Nallely Rangel (MOSEUA, Colour Laboratory for Costume, Fashion and Textile, México)

Closing Ceremony
12:10-12:40 / Tamra A Hall
KEYNOTE SPEECH
Keynote Speech I

10:50–12:30 on October 16 (Mon) at Tamna A, 5F

Suro Hwang
President, Korean Royal Silk Flower Institute, Korea

Hwang Su-ro was greatly influenced by his maternal grandfather (Lee Su-chang) who served as an executive secretary of Gungnaebu in the late Josun Dynasty (Emperor Gojong) and has devoted her life to studying its court rituals and grandeur that faded into history for over 60 years.

Due to the oppressive Japanese policy to destruct Korean culture, the brilliant rituals and grandeur arts of Josun Dynasty and many royal painters were sacrificed, and the grandeur arts in Josun Dynasty perished, with the historic records of the royal rituals left only as records in history.

Hwang Su-ro was nominated as a Korea national important intangible cultural heritage No.124 royal painter in 2010 by Cultural Heritage Administration for his services (eg. several research papers, five research works, scores of domestic and foreign large displays of work and world forum presentations, etc.) to restore and reproduce the rituals and grandeur art of Josun Dynasty's culture, and is currently working as a tenured chair-professor of Buddhist Culture Art College at Dongguk University and a director of Korea Flower Museum.

Josun Dynasty's royal painting works reproduced by Hwang Su-ro are housed in U.S.A Cleveland Museum, National Museum of Korea, National Palace Museum of Korea, National Gukak Center, Busan Museum of Art, etc.

In order to permanently preserve Josun Dynasty's royal painting works and historical records restored and produced throughout her life and pass down the works restored after over 200 years through future generations, Hwang Su-jong is building "Korea Flower Museum" investing all of her private fortune. It is opening to the public on or about March, 2018, and a museum, an exhibit hall, and an art hall are being built. (Korea Flower Museum) is a unique Korean traditional craft museum in the world as a flower museum. I wish that Korea's royal grandeur arts would contribute powerfully to our people's cultures and arts.
The Korea Royal Silk Flower

Suro Hwang
Important Intangible Cultural Properties number 124
Korean Royal Silk Flower Institute

Korean Silk Flower raised by human is more beautiful than the flower of nature. Korean silk flower is a mysterious flower with incoming bee, butterfly, and grass insects. Because it is the flower of spirit raised by god and human. However, there are no the existing relics because Korea suffers many misfortunes of cry. For 60 years, I have devoted my whole life solely to the restoration of Korean silk flower remaining as a literature. The restoration of Korean silk flower was possible because it is the vast archival cultural heritage of the Joseon Dynasty. "Annals of the Joseon Dynasty" and "The Royal Protocols of the Joseon Dynasty", which are Korean national treasure number 151 designated as 1997 "National archival cultural heritage", are the basis of restoration of silk flowers. The vast literatures above are valuable cultural heritage of our people with all formalities of Joseon Dynasty recorded minutely with text and picture. I am thankful to the great ancestors for restoring "Korean Cultural Heritage" which existed only in history for over 500 years.
Keynote Speech II

09:00–10:00 on October 17 (Tue) at Halla A, 3F

Jianming Song
China Academy of Art, China Fashion and Color Association, China

Brief biography of Jianming Song
Jiaming Song received Certificat de Troisième Degre Recherche from Ecole Nationale Supérieure des Arts Decoratifs, Pairis, Frane, in 1992. He was head of Fashion & Textile Department, China Academy of Art from 1996 to 2000 and Vice–President, China Academy of Art from 2001. His current research interests include color, design, and color culture. He has published nearly 150 academic papers on color, 5 books and many projects on color. Main Design Projects are Culture & Innovation Industry Fair, West Lake International Expo, Hangzhou and Color of Macao City(Exhibition), Macao. He is China National Leading Communicator & Expert on Color Theo and Member of China Artists Association and Member of European Color Association and Vice–Chairman of Policy Decision Advisory Committee Hangzhou Municipal Government. His other academic duties include the vice president of the China Fashion & Color Association (CFCA).
AWARD
LECTURE
Holy-grail of colour science

Ming Ronnier Luo*
College of Optical Science and Engineering, Zhejiang University, China

*m.r.luo@leeds.ac.uk

The holy-grail of colour science is a comprehensive colorimetry system. It includes three main components, a uniform colour space, a model of colour vision and a wide range of perceived attributes for the tasks of colour difference evaluation, colour appearance prediction and colour specification, respectively. In this talk, a review of the development of each component will be first introduced and the practical examples will be given in the application in the colour, imaging and illumination industries. The most rewarding experience is the accumulation of high quality visual data, which will then be used to develop visual model.
Award Lecture II. 2017 AIC Colour Award in Art, Design and Environment

09:00–09:45 on October 20 (Fri) at Halla A, 3F

Antal Nemcsics
Painter, Environment designer, Color researcher, Professor Emeritus of Technical University of Budapest, Hungary

Antal Nemcsics has chosen colours as the subject of all the three fields that he cultivates, i.e. art, science and university education. It is the phenomenon created by the radiating energy that fills up the universe, while entering our eyes. He applied his artistic and scientific accomplishments in his work as a teacher. His book titled Colour Dynamics, containing a summary of his findings, was published in Budapest, Züirch, London, Berlin, Göttingen, New York, Toronto, Tokyo, Sydney and Singapore. It is used as a textbook in many universities of the world.

Interaction of Art and Science in Colour Environment Design

Antal Nemcsics*
Painter, Environment designer, Color researcher, Professor Emeritus of Technical University of Budapest, Hungary

*nemcsics.akos@kvk.uni-obuda.hu

The organic interrelations between the artistic intuitions of an artist and the research results of a scientist can be demonstrated by a realized concrete instance showing the colour design process of the Castle District of Buda, being part of the World Heritage. The Castle District of Buda has been chosen because it has provided the possibility to integrate the results of different scientific surveys into the process of planning. I have found it is only possible if the designed colours are unambiguously defined in a colour system For this purpose the Coloroid Colour System has proven as the most appropriate one. The process of planning consisted of four stages. In the following I will introduce more detailed the second one, called "colour delimitation" built on scientific results and the third one called "colour selection" which is mainly the result of the artistic intuitions of the designer. During the planning phase I have laid down first the targeted visual conception of the whole Castle District of Buda. Then I have dealt with the definition of facade colours of each building. Colour delimitation provided the possibility to learn what intervals of colour hue (A), saturation (t) and brightness (V) intervals should suggest Coloroid for the different aspects as the dimensions of the building, its architectural articulation, its function, its orientation, relation to its neighbours, its wall surfaces, its sections, its doors and windows and other elements. In the following step I have looked for harmonic colour compositions from the colours of delimited colour ranges, for my envisaged visual conception. This procedure has been facilitated by the Coloroid colour system because its aesthetic uniformity built on harmony thresholds enables simple creation of colour harmony compositions. Then, taking into account the different harmony scales of individual facades I defined the harmony system of actual lines of facades. As the last step, I have selected colours from the harmonic colour compositions being suggested for the individual facades, for the different elements of the facade, for the wall, the section, the plinth, the window–frame etc. The completed design can be observed at the permanent exhibition of my life–work. The place of the exhibition: Hungary, the town of Pápa, Esterházy Palace, Main Square 1. My realized environmental designs and other works are on view at my homepage: www.nemcsicsantal.papa.hu
INVITED LECTURE
08:30–10:30 on October 16 (Mon) at Halla B, 3F

Hyeon-Jeong Suk
(Korea Advanced Institute of Science and Technology (KAIST), Korea)
Creating the Viewing Experience of Color in Design Practice

Hyeon-Jeong Suk is an associate professor of Department of Industrial Design at KAIST leading the Color Laboratory. She received her B.S. and M.S. from the KAIST with degrees in industrial design and Doctor of Social Science degree in psychology from University of Mannheim in Germany. She was the 2011–2014 Editor-In-Chief of the Journal of Korean Society for Emotion and Sensibility.
Hyeon-Jeong's research focuses on the affective effect of color on the human particularly to facilitate the empirical findings for design practices. Her publications include 2 books, 8 book chapters, 48 journal articles, and 95 conference proceedings.
With the expertise in color psychology and design research, her research group has conducted a number of industry-academia projects with Samsung Electronics, Samsung Display, LG Electronics, Hyundai Automobiles, Estee Lauder Inc., and more at color.kaist.ac.kr.

15:10–17:10 on October 16 (Mon) at Halla B, 3F

Se-Lee Lee
(Ewha Womans University, Korea)
2018–2019 Color & Material Trend

Dr. Se-Lee Lee is an invited professor of the college of Art & Design at Ewha Womans University(Seoul), teaching fashion design and she’s also working as a research commissioner of the Color Design Research Institute in Ewha Womans University.
She received B.S. and B.A. degrees in Department of Clothing & Textiles and Department of Education from Yonsei University(Seoul) and obtained M.F.A and Ph.D. in Fashion Design from Ewha Womans University.
Attending the master’s course in Fashion Design at Domus Academy(Milan), she has been chosen as a Finalist of Triumph Inspiration Award 2012 National(Italy) and Vogue Italy Talents Selection 2013. She has been a member of Korea Fashion & Culture Association, Korea Society of Basic Design & Art, Korean Society of Design Science and Korea Society of Color Studies.
Recently she focus on research, an exhibition of fashion works and lectures on Design Trend, Fashion & Culture and Color Design and she has been interested in the research on fashion and design in the view of multidisciplinary approach.
08:30–10:30 on October 18 (Wed) at Samda, 3F

John Barbur
(City, University of London, United Kingdom)

Colour in Employment: A New Colour Grading System with Applications in Healthcare and Visually–Demanding Occupations

John Barbur is Professor of Optics & Visual Science in the Applied Vision Research Centre (AVRC) at City, University London. He combines fundamental vision science with applied and clinical research, which underpins a long record of research achievement and wider impact. Work on camouflage for the Royal Signals and Radar Establishment led to insights into the processing of luminance and colour signals that have important applications in colour vision assessment. Development of novel research instrumentation and measurement techniques led to new methods for investigating mesopic vision, pupillometry, eye movements, visual search, spatial and chromatic vision, and also the effects of scattered light in the eye. John's P_SCAN system makes binocular measurements of pupil size and eye movements, and has been used throughout the world for almost three decades. New components of the pupil response that link directly to alertness and attention and require the processing of specific stimulus attributes such as colour or motion in central areas of the visual cortex have been discovered with the P_SCAN system. As a Fulbright Scholar, John worked as a Visiting Professor at the Center for Visual Science at the University of Rochester, N.Y. This work led to studies of mesopic vision supported by DTI (scales for the mesopic range), the EU (Mesopic Optimization of Visual Efficiency) and the DfT (medical aspects of fitness to drive). This was followed by EPSRC grants on "Minimizing Glare in Lighting Installations" and "Mesopic Optimization of Residential Street Lighting". More recent work with the Civil Aviation Authority (UK) and the Federal Aviation Administration (USA) led to new pass/fail colour limits for aviation, which are used internationally. As a result, 35% of all applicants with congenital colour deficiency are now classed as safe to fly. The new Colour Assessment and Diagnosis, Rapid Flicker, Light Scatter and the Acuity–Plus tests have found applications within ophthalmology and visually demanding occupations. Significant laboratory refurbishments carried out during the past few years and sponsorship for projects designed to promote industrial and clinical applications of vision research strengthened the AVRC which is now internationally recognised as a leading centre in visual psychophysics and colour vision research.
Haisong Xu
(Zhejiang University, China)
Image Quality Assessment on Mobile Devices

Haisong Xu received his Ph.D. degree in optical engineering from Zhejiang University, Hangzhou, China, in 1993. He was a post-doctoral research fellow at the Institute of Industrial Control in Zhejiang University from 1994 to 1995 and at the Department of Information and Image Sciences at Chiba University, Japan, from 1999 to 2001. At present, he is a professor at the State Key Laboratory of Modern Optical Instrumentation, College of Optical Science and Engineering, Zhejiang University. His current research interests include color science, imaging technology, and lighting engineering. He has published nearly 200 academic papers, 2 books, and 25 patents. He is the China representative of Country Committee in Division 1 (Vision and Color) of the International Commission on Illumination (CIE), the representative of the Color Association of China in the International Color Association (AIC) as well as in the Asia Color Association (ACA). His other academic duties include the president of the Color Association of China (CAC), the vice president of the China Fashion & Color Association (CFCA), the council members of the China Optical Society (COS) and the China Illuminating Engineering Society (CIES), the member of the National TC 120 on Color of Standardization Administration of China (SAC), and etc.

Lindsay MacDonald
(Association Internationale de la Couleur, United Kingdom)
Melanopsin and Colour Vision

Lindsay MacDonald has been involved in colour vision science since 1985, when he was manager of a 3-year research project on colour appearance modelling under the guidance of Dr Robert Hunt. He has since co-edited ten books and authored over 200 papers in conference proceedings and journals, all on diverse aspects of colour. He completed his PhD in colour image science in 2015 at University College London (UCL), where he is now Honorary Professor, co-supervising seven PhD students in various aspects of imaging and cultural heritage. He is a Fellow of the British Computer Society (BCS), the Royal Photographic Society (RPS) and the Society of Image Science and Technology (IS&T).

He has been involved in AIC since 2001 and has presented 25 papers at AIC meetings. He was Co-Chair of the organising committee for the AIC Congress in 2013 in Newcastle (UK), and since 2010 has edited the AIC Annual Report. He is currently AIC Secretary/Treasurer.
10:50-12:20 on October 18 (Wed) at Samda, 3F

**Anadi Martel**  
(International Light Association (ILA), Belgium)  
Colour for Health: Update on the Latest Developments in Light Therapy

Since 2011, Anadi Martel is president of the International Light Association, a group of researchers exploring the therapeutic applications of light. The ILA acts as a bridge between leading scientists offering their latest research, and the practitioners of the diverse forms of light therapy. Physicist by training, Anadi Martel has been applying his intimate knowledge of electronics to the development of instruments working in novel ways with sound, light, and brainwaves. His Spatial Sound Processors have been used worldwide by professionals in psychoacoustics, multimedia and cinema. His work has led to patents in the field of Light Modulation, and recently in LED-based design. When not travelling as a design consultant in special audiovisual projects for the likes of Cirque du Soleil and the New York Metropolitan Opera, he can mostly be found in his lab in the Canadian forest, working to refine the Sensora, a multi-sensorial environment combining a number of his inventions and exploring the overlapping frontiers of art, technology, therapy and consciousness. He is president of Sensortech Inc. (www.sensora.com). His book on the therapeutic applications of light, “The Power of Light – The Dawn of a New Medicine”, was recently published in France and will shortly be available in English.

10:50–12:20 on October 18 (Wed) at Halla B, 3F

**Shin’ya Takahashi**  
(Tokaigakuen University, Japan)  
The Possibilities and Limitations of the Psycho–behavioral Effects of Color

Shin’ya Takahashi is a professor at Tokaigakuen University, which is located in Nagoya, Japan. He graduated in psychology at Nagoya University, and got his Ph.D. in 1995. After serving in Toyota Technological Institute, he moved back to Nagoya University to hold an associate professor in the department of psychology. Then, from 2014, he has been holding his present position. He has been conducting research in visual perception including visual illusions and color contrast/assimilation, and in color psychology, especially focusing his interest on color preference and psycho–behavioral effects of color. Since 2003, he has attended eight congresses and meetings of the AIC and presented his work mainly on the psycho–behavioral effects of color, which is the subject of the present lecture. Also, he has been serving as the President of the Color Science Association of Japan since 2016.
10:05–12:05 on October 19 (Thu) at Samda, 3F

Jeong-Tai Kim
(Kyung Hee University, Korea)
Regulating Artificial Light at Night for Protecting Health and Sustainability in South Korea

Dr. Jeong Tai Kim is Distinguished Professor at Kyung Hee University where he has been on faculty for 35 years. He received PhD in Architecture from Yonsei University in Seoul (1985) and completed Post Doc. at University of Cambridge in UK (1986/1987). His research focuses on smart lighting, sustainable lighting and light pollution. He played a key role in legislating Korea light pollution prevention act. He currently acts as President of Korea National Chapter of International Dark-Sky Association and Korea Society of Lighting and Visual Environment. He has served SET 2008 (7th International Conference on Sustainable Energy Technologies, Seoul) and SLLP 2014 (1st International Conference on Sustainable Lighting and Light Pollution, Seoul) as General Chair and 2016 LUCI AGM Seoul (Lighting Urban Community International Annual general meeting in Seoul) as Local Steering Committee Chair. Professor Kim serves in leading international journals as Coeditor-in-Chief of the International Journal of Sustainable Lighting, editorial board member of the Indoor and Built Environment and Energy and Buildings.

10:05–12:05 on October 19 (Thu) at Halla B, 3F

Tien Rein Lee
(Chinese Culture University, Taiwan)
A Modern Approach to Health in Conventional Chinese Color Thought

Prof. Dr. Tien-Rein Lee’s professional expertise comprises practical interest and experience in Visual Communications and New Media, and an academic focus in Color Communication, Color and Culture, and Media Technology. As the Founding President of the Color Association of Taiwan (CAT), Prof. Lee is a color research pioneer establishing color studies and color application networks in Taiwan, with China, Asia, and worldwide. He was also the General Chair of the AIC 2012 Interim Meeting: “In Color We Live – Color and Environment” held in Taipei, and has taken position of AIC Vice President in 2016. Prof. Lee was President of the Chinese Culture University from 2003–2009, and has acquired this position again since August 2013. He had been Chairman of the Department of Graphic Communications, Dean of the College of Journalism Communications, Dean of the Center for Information and Communications, and Dean of General Affairs at CCU. He is also the President of the Chinese Association for Life-long Learning (CALL). Prof. Lee originally graduated with a B.S. in Print Media Communications and a M.A. in Journalism from Chinese Culture University. He also received a M.A. in Visual Communication from University of California, Los Angeles (UCLA), and a Ph.D. in Culture and Communication from New York University (NYU). His experience covers a vast range of international collaboration on academic, cultural and administrative levels: at Chinese Culture University, he actively promoted and organized the participation of color scientists at international conferences and congresses.
10:05–12:05 on October 19 (Thu) at Halla A, 3F

Hirohisa Yaguchi
(Chiba University, Japan)
Applications of CIE2015 Cone–Fundamental Based Colorimetry

Hirohisa Yaguchi is an Emeritus Professor at Chiba University, Japan. He graduated in Photographic Engineering at Chiba University, then got his PhD at Tokyo Institute of Technology in 1980. In 1982, he moved to National Research Council Canada and worked with Dr. Günter Wyszecki as a Research Associate. Then in 1986, he moved to Chiba University. He has been conducting research and supervising graduate and postgraduate students at the Department of Information and Image Sciences in color vision, photometry, colorimetry, and its application to imaging science. He has published over 200 scientific papers and nearly 10 books. He also contributes to educate students in Asian Countries. He has been teaching experiments method for color vision and colorimetry at Rajamangala University of Technology Thanyaburi (RMUTT) as an International Advisor, Thailand, and color reproduction at National Taiwan University of Science and Technology (NTUST), Taiwan as an Adjunct Professor. He has been very active in color societies, particularly in CIE and AIC. He is Past President of CIE–Japan, chair of CIE TC1-90 on the “Color Fidelity Index”. He was awarded the CIE Awards in 2009. He contributed to hold two AIC meetings in Japan. He was the Scientific Program Chair of the 8th AIC Congress, Kyoto in 1997 and the Steering Committee Chair of the midterm meeting of AIC2015 Tokyo. Also, he served as an Executive Committee Member of AIC from 2002 to 2005. He serves as an associate editor of Color Research and Application.

14:55–17:10 on October 19 (Thu) at Samda, 3F

Yoshi Ohno
(CIE President, National Institute of Standards and Technology, USA)
CIE Research Strategy – Future of Color Quality Metrics for Lighting

Yoshi Ohno received his Ph.D. in engineering from Kyoto University, Japan. He started his career at Lighting Research Laboratory of Panasonic, Osaka Japan. He joined NIST in 1992 as Project leader for photometry, served as Group Leader for Optical Sensor Group from 2003 to 2012, and appointed as NIST Fellow since 2010. His research spans widely from photometry, colorimetry, spectroradiometry to color quality of light sources, recently focused on solid state lighting. He is very active in national and international standards committees. He is Fellow of IES, and is known as the primary author of IES LM-79 (Test method for solid state lighting products), LM-85 (Measurement of high-power LEDs), ANSI C78.377 (Chromaticity specifications for solid state lighting products), CIE TN 001 (Chromaticity difference specification for light sources), and he also chaired CIE TC2–71 that produced CIE S 025 (Test method for LED lamps, luminaires, and modules). He served as CIE Division 2 Director (2007–2011), Vice President–Technical (2011–2015) and now serves as President of CIE (2015–2019). Ohno represents NIST in Consultative Committee of Photometry and Radiometry (CCPR), chairs CCPR Working Group on Key Comparisons. He received CIE de Boer Gold Pin Award in 2007, US Department of Commerce Silver Medal Award in 2009, U.S. Department of Energy SSL Visionary Award in 2014 and others.
AUTHOR INDEX
## Author Index

### A

- Ahn, KeunYoung PS02-03
- Akizuki, Yuki OS07-8
- Alawad, Abeer OS08-3
- Aly, Reda Hamada PS02-19
- Amookht, Sakineh OS22-5
- Arai, Ryusuke PS03-57
- Attiah, Douha OS08-3
- Attiah, Douha OS09-8
- Ayama, Miyoshi OS09-6
- Ayama, Miyoshi PS02-07
- Ayama, Miyoshi PS02-09
- Ayama, Miyoshi PS03-21
- Ayama, Miyoshi PS03-59
- Azuma, Miyuki OS23-6

### B

- Bae, JuYoon PS02-64
- Bae, Seo–Hee PS02-81
- Bae, Yongjin PS02-50
- Baek, Jin–Young PS03-24
- Bang, Sojeong PS01-66
- Barbur, John OS12-1,2
- Barricelli, Barbara Rita PS03-49
- Basic, Nina OS22-7
- Beak, Ji–hoo PS01-46
- Bergström, Berit OS03-6
- Bernad, Berta PS03-60
- Blattner, Peter OS22-7
- Blin–Barrois, Barbara OS09-9
- Bonanomi, Cristian PS03-49
- Botteri, Lea OS04-4
- Butovskaya, Marina PS03-02

### C

- Cabal, Sebastian Camilo OS20-5
- Caiazzo, Maasimo OS11-7
- Campos, Joaquin PS03-60
- Campos, Joaquin PS03-61
- Cartwright, Virginia OS11-1
- Casciani, Daria OS21-7
- Cha, Woo–Jin PS03-06
- Chae, Youngjoo PS03-48
- Chandernagor, Elodie OS05-7
- Chang, Chan–hee PS01-38
- Chang, Yeon–Hee PS03-25
- Chang, Yeun–Hee PS01-87
- Chen, Hung–Shing OS21-6
- Chen, I–Ping PS02-13
- Chen, Lu PS02-29
- Chen, Lu PS02-32
- Chen, Wang–I OS23-1
- Chen, Yiju OS02-4
- Chen, Yun OS04-5
- Chen, Zhemin OS01-7
- Chen, Ziyu PS01-05
- Chen, Ziyu PS01-54
- Cheng, Chih–Wen PS01-01
- Cheung, Vien OS02-8
- Cheung, Vien OS08-3
- Cheung, Vien PS01-45
- Chiang, Hou–Chi OS07-3
- Cho, Seong–sun PS01-69
- Cho, Yoon Ji OS13-4
- Cho, YooNa PS02-60
- Choi, Gyoung–Sil PS01-22
- Choi, Gyoung–Sil PS01-30
- Choi, Gyoung–Sil PS01-49
- Choi, Gyoung–Sil PS01-80
- Choi, Gyoung–Sil PS02–63
- Choi, Gyoung–Sil PS02–68
- Choi, Gyoung–Sil PS01–10
- Choi, Gyoung–Sil PS01–75
- Choi, Gyoung–Sil PS03–03
- Choi, Gyoung–Sil PS03–05
- Choi, Hyo–Sun OS08–7
- Choi, Im–Jung PS02–25
- Choi, InKyu PS01–48
- Choi, Inyoung PS02–12
- Choi, JinHee PS01–88
- Choi, Jinkyung PS02–38
Choi, Jinkyung PS02-43
Choi, Kwanghyun PS01-13
Choi, Kwanghyun PS03-11
Choi, Kwanghyun PS03-36
Choi, Kwanghyun PS03-44
Choi, Kwanghyun PS03-45
Choi, Kwanghyun PS03-08
Choi, Kyungah PS02-01
Choi, Kyungah PS03-01
Choi, Mi PS02-44
Choi, Seongho PS02-33
Choi, Sueryn PS01-18
Choi, Sungwoo PS01-49
Choi, Sungwoo PS03-44
Choi, Won-jung PS01-75
Choi, Yerim PS01-09
Choi, You-Jin OS08-7
Choi, Yujin PS02-4
Choi, Yujin PS01-23
Chong, Jongho PS03-64
Chou, Ching-Ju OS21-6
Chu, Hyeyong PS03-64
Chu, Jinjin OS10-7
Chung, Hyun Sun PS02-20
Chung, Hyun Sun PS03-78
Chung, Vien OS22-3
Chung, Yoo Jin PS01-68
Clermont–Gallerande, Helene De OS09-9
Costa, Sara Antunes OS18-8
Csillag, Paula OS23-2
Cui, Guihua OS07-1
Cui, Guihua OS10-7
Cui, Guihua OS13-4
Cui, Guihua OS13-5
D
dai, Yao PS02-13
Dalimaghadeh, Donya OS14-6
Dan, Han OS01-35
Dapkus, Henrikas OS21-3
Deeb, Rada OS18-7
Delaney, John OS01-4
Delcampoo-Carda, Anna OS03-4
Deydier, Julie OS09-9
Diao, Changyu OS01-7
Dinet, Éric OS12-7
Doi, Motonori OS19-4
Doucet, Patrick OS09-9
E
Ekpoothor, Natchanun OS15-6
Elaraby, Ibrahim PS02-19
Eom, Soonchol PS02-84
F
Fang, Fufu OS16-5
Fang, Fufu OS16-6
Feng, Shu–Ping OS01-1
Feng, Shu–Ping OS12-3
Fernández, Adrián OS03-68
Fernández–Maloigne, Christine OS03-60
Fernandez–Morales, Angelica OS02-26
Ferrero, Alejandro OS03-61
Ferrero, Alejandro OS03-68
Findlater, Keith Derek Martin OS13-6
Finlayson, Graham OS16-5
Finlayson, Graham OS16-6
Finlayson, Graham OS16-4
Fotovvat, Bita OS03-83
Fu, Wei–Min OS01-01
Fuchida, Takayoshi OS03-35
Fuchida, Takayoshi OS03-37
Fujimura, Tsutomu OS09-3
Funt, Brian OS07-2
Funt, Brian OS10-6
Fytopoulou, Chrysi PS02-02
G
Galbor, Art Ness Proano OS01-4
Gao, Cheng OS03-52
Garside, D. OS13-1,2
Gascón, Ana PS02-26
Geldof, Muriel OS01-4
Georgoula, Maria OS07-1
Ghasemi, Forouzandeh OS24-1
Glogar, Martinia Ira OS04-4
Gomez–Robledo, Luis PS03-66
Gong, Han OS16-4
Gong, Han OS16-5
Gong, Rui OS10-1,2
Gong, Rui OS10-4
Gong, Rui OS21-4
Gorji, Kandi Saeideh OS22-5
Gorji, Kandi Saeideh PS03-75
Gorji, Kandi Saeideh PS03-82
Gorji, Kandi Saeideh PS03-83
Gou, Aiping OS06-4
Gou, Aiping OS06-5
Gouveia, Anna Paula Silva OS04-6
Grancaric, Ana Marija OS04-4
Green-Armytage, Paul OS05-5
Griber, Yulia A. OS05-4
Griber, Yulia A. OS17-3
Griber, Yulia A. PS02-41
Griffin, Lewis D. OS05-3
Griffin, Lewis D. OS05-6
Grojecka, Agata PS03-02

H
Ha, Hyeyoung PS02-18
Ha, JiMin PS03-10
Ha, JiMin PS03-63
Ha, JiMin PS02-89
Hagenlocher, Esther OS08-1
Hagenlocher, Esther OS11-6
Hai, Hu Ming PS01-35
Hamada, Kazuki OS03-74
Han, Bo-Mi PS02-76
Han, Chae Eun PS01-73
Han, Eun-Hee OS08-7
Han, Eunji PS02-42
Han, Jisoo OS03-7
Han, Jungmin PS02-81
Han, Jungmin PS02-82
Han, Suljin PS01-23
Han, Suljin PS02-24
Hanari, Takashi PS03-15
Haneishi, Hideaki OS12-6
Haneishi, Hideaki OS24-5
Hanenburg, Jeannette OS17-3
Hanselaer, Peter OS10-8
Hansuebsai, Aran OS18-5
Hatakeyama, Kunihiro PS03-71

He, Hong OS01-7
He, Ruili OS13-5
He, Shuilan PS03-35
He, Shuilan PS03-37
Heber, Mathieu OS18-7
Hendriks, Ella OS01-4
Henry, Phil M PS02-48
Heo, Jaehy PS01-39
Hirai, Keita PS03-58
Hirata, Koichi OS21-9
Hirschler, Robert OS16-8
Hirschler, Robert OS23-2
Hong, Bora PS01-34
Hong, Dami PS01-29
Hong, Haeruy PS03-19
Hong, Jung In PS01-50
Hong, Minhee PS01-83
Hong, Minhee PS02-88
Hong, Minsun PS02-80
Hong, MinYoung PS01-77
Hong, Qi-Zhu PS03-54
Hong, SeungMin PS01-41
Horiuchi, Takahiko OS22-6
Horiuchi, Takahiko PS03-56
Horiuchi, Takahiko PS03-57
Horiuchi, Takahiko PS03-58
Hoshino, Yosushi OS18-5
Hou, Dandan OS11-3
Hsiao, Chiang PS03-54
Hsieh, Tsuei-Ju OS23-1
Hsieh, Tsuei-Ju PS01-79
Hsieh, Tsuei-Ju PS02-78
Hua, Tao PS03-48
Huang, Min OS10-7
Huang, Min OS13-5
Huang, Qingmei OS20-2
Huang, Ting-Wei OS07-3
Huang, Xiaotong PS03-52
Huang, Yu-Wen OS02-3
Huertas, Rafael OS14-5
Huh, Ji Hye PS01-56
Hung, Wei-Chun OS07-5
Hur, Kyung Eun PS02-73
Huraibat, Khalil PS03-61
Hutchings, J. B. OS18-3
<table>
<thead>
<tr>
<th>Name</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hwang, Jisoo</td>
<td>PS03-50</td>
</tr>
<tr>
<td>Hwang, Jisoo</td>
<td>PS03-53</td>
</tr>
<tr>
<td>Hwang, Joong-Ho</td>
<td>OS08-7</td>
</tr>
<tr>
<td>Hwang, Sungjoo</td>
<td>PS01-77</td>
</tr>
<tr>
<td>Hwang, Yoo-Ji</td>
<td>PS02-56</td>
</tr>
<tr>
<td>Jeong, Seong Yun</td>
<td>PS01-37</td>
</tr>
<tr>
<td>Jeong, Sun Ae</td>
<td>PS02-58</td>
</tr>
<tr>
<td>Jeong, Wonyoung</td>
<td>PS03-80</td>
</tr>
<tr>
<td>Jeong, Yoonah</td>
<td>PS01-36</td>
</tr>
<tr>
<td>Jhuang, Jyun–Wei</td>
<td>OS07-3</td>
</tr>
<tr>
<td>Ji, Yeonhui</td>
<td>PS03-01</td>
</tr>
<tr>
<td>Jiang, Li</td>
<td>PS03-52</td>
</tr>
<tr>
<td>Jiang, Luiluo</td>
<td>OS10-7</td>
</tr>
<tr>
<td>Jiang, Yanli</td>
<td>OS20-2</td>
</tr>
<tr>
<td>Jin, Eun Mi</td>
<td>PS02-74</td>
</tr>
<tr>
<td>Jing, Yuhang</td>
<td>OS20-3</td>
</tr>
<tr>
<td>Jong, Kyeong Ah</td>
<td>PS02-90</td>
</tr>
<tr>
<td>Joo, Jung Hee</td>
<td>PS01-21</td>
</tr>
<tr>
<td>Jun, Jae–Hoon</td>
<td>PS03-24</td>
</tr>
<tr>
<td>Jung, DaMi</td>
<td>PS01-17</td>
</tr>
<tr>
<td>Jung, Eui–Tay</td>
<td>PS01-48</td>
</tr>
<tr>
<td>Jung, Eun Jung</td>
<td>PS01-30</td>
</tr>
<tr>
<td>Jung, Ivar</td>
<td>OS17-3</td>
</tr>
<tr>
<td>Jung, Min–Ho</td>
<td>OS22-3</td>
</tr>
<tr>
<td>Jung, NaYeon</td>
<td>PS01-74</td>
</tr>
<tr>
<td>Jung, Yeonja</td>
<td>PS03-17</td>
</tr>
<tr>
<td>Jung, Yeonja</td>
<td>PS01-32</td>
</tr>
<tr>
<td>Jung, Yeonja</td>
<td>PS01-84</td>
</tr>
<tr>
<td>Jung, Yeonja</td>
<td>PS02-54</td>
</tr>
<tr>
<td>Jung, Yujin</td>
<td>PS01-18</td>
</tr>
<tr>
<td>Jutterstrom, Per</td>
<td>OS10-5</td>
</tr>
<tr>
<td>Kadamani, Samira</td>
<td>OS20-5</td>
</tr>
<tr>
<td>Kaede, Kazunori</td>
<td>OS15-4</td>
</tr>
<tr>
<td>Kaede, Kazunori</td>
<td>OS15-5</td>
</tr>
<tr>
<td>Kagimoto, Akari</td>
<td>OS21-9</td>
</tr>
<tr>
<td>Kanahira, Takashi</td>
<td>OS15-4</td>
</tr>
<tr>
<td>Kanahira, Takashi</td>
<td>OS15-5</td>
</tr>
<tr>
<td>Kanai, Nobuhoshi</td>
<td>OS08-5</td>
</tr>
<tr>
<td>Kanari, Kota</td>
<td>PS02-07</td>
</tr>
<tr>
<td>Kang, Hye Ju</td>
<td>PS02-74</td>
</tr>
<tr>
<td>Kang, HyeRan</td>
<td>OS18-6</td>
</tr>
<tr>
<td>Kang, Hyunbin</td>
<td>PS01-77</td>
</tr>
<tr>
<td>Kang, Suk Pyo</td>
<td>PS02-74</td>
</tr>
<tr>
<td>Kang, Sung Hae</td>
<td>PS01-43</td>
</tr>
<tr>
<td>Kang, Sung Hae</td>
<td>PS01-56</td>
</tr>
<tr>
<td>Kang, Sung Hae</td>
<td>OS02-25</td>
</tr>
<tr>
<td>Kang, Sunghyun Ryoo</td>
<td>OS12-4</td>
</tr>
<tr>
<td>Jeong, Chan–Ung</td>
<td>PS03-36</td>
</tr>
<tr>
<td>Jeong, Chan–Ung</td>
<td>PS03-38</td>
</tr>
<tr>
<td>Jeong, Chan–Ung</td>
<td>PS03-26</td>
</tr>
<tr>
<td>Jeong, Chan–Ung</td>
<td>PS03-29</td>
</tr>
<tr>
<td>Jeong, Chan–Ung</td>
<td>PS03-32</td>
</tr>
<tr>
<td>Jeong, Chan–Ung</td>
<td>PS03-34</td>
</tr>
<tr>
<td>Jeong, Jaesung</td>
<td>PS01-67</td>
</tr>
<tr>
<td>Jeong, Kyeong Ah</td>
<td>PS02-91</td>
</tr>
<tr>
<td>Jeong, Mulin</td>
<td>PS01-09</td>
</tr>
</tbody>
</table>

I

Igarashi, Takanori
Iizuka, Tomomi
In, Moon Su
Inuzuka, Yusuke
Ishida, Taichiro
Ishiguro, Eiji
Ishikawa, Tomoharu
Ishikawa, Tomoharu
Ishikawa, Tomoharu
Ishikawa, Tomoharu
Isoi, Wataru
Itoh, Nana

J

Jackson, Mike
Jafari, Razieh
Jang, Haejung
Jang, Hyeljung
Jang, Jieun
Jang, Soyoung
Jang, Ye–Eun
Janssens, Koen
Je, Na–na
Jeon, DuSoO
Jeon, Hayeon
Jeon, Jihun
Jeon, Nu–Ri
Jeong, Chan–Ung
Jeong, Chan–Ung
Jeong, Chan–Ung
Jeong, Chan–Ung
Jeong, Chan–Ung
Jeong, Jaesung
Jeong, Kyeong Ah
Jeong, Mulin

K

Kadamani, Samira
Kaede, Kazunori
Kaede, Kazunori
Kagimoto, Akari
Kanahira, Takashi
Kanahira, Takashi
Kanai, Nobuhoshi
Kanari, Kota
Kang, Hye Ju
Kang, HyeRan
Kang, Hyunbin
Kang, Suk Pyo
Kang, Sung Hae
Kang, Sung Hae
Kang, Sung Hae
Kang, Sunghyun Ryoo
<table>
<thead>
<tr>
<th>Name</th>
<th>ID</th>
<th>Name</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kang, Tae Gyu</td>
<td>OS21-5</td>
<td>Kang, Joo Yun</td>
<td>PS03-55</td>
</tr>
<tr>
<td>Kang, Yoonjoo</td>
<td>PS02-45</td>
<td>Kim, Juhee</td>
<td>PS02-85</td>
</tr>
<tr>
<td>Katemake, Pichayada</td>
<td>OS12-7</td>
<td>Kim, Jung Hyun</td>
<td>PS02-37</td>
</tr>
<tr>
<td>Katemake, Pichayada</td>
<td>OS18-7</td>
<td>Kim, JungEun</td>
<td>PS02-28</td>
</tr>
<tr>
<td>Kavehei, Farnam</td>
<td>PS03-75</td>
<td>Kim, Juyeon</td>
<td>PS02-34</td>
</tr>
<tr>
<td>Kawashima, Yuki</td>
<td>PS03-71</td>
<td>Kim, Juyeon</td>
<td>PS02-38</td>
</tr>
<tr>
<td>Kawasumi, Mikiko</td>
<td>PS01-53</td>
<td>Kim, Juyeon</td>
<td>PS02-40</td>
</tr>
<tr>
<td>Kawasumi, Mikiko</td>
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Noh, Kyung–Ho  PS03–33

O
Obama, Tomoko  OS08–5
Oda, Shigeto  OS12–6
Oh, Han–Byeol  PS03–24
Oh, Jeongrok  PS03–44
Oh, Jeongrok  PS03–45
Oh, Jiyeon  PS01–63
Oh, Jiyoung  PS01–06
Oh, Jiyoung  PS02–27
Oh, Jiyoung  PS02–30
Oh, Semin  PS03–12
Oh, Sungmi  PS04–8
Oh, Yunmi  PS01–24
Ohnishi, Takashi  OS24–5
Ohno, Yoshi  OS21–1,2
Ohnuma, Kazuhiko  PS02–09
Ohyama, Futoshi  OS07–8
Ojeda, Juan  PS03–30
Okajima, Katsunori  OS19–2
Okajima, Katsunori  OS21–9
Okajima, Katsunori  PS03–58
Okamoto, Ikuko  PS01–78
Okamoto, Ikuko  PS03–85
Okuda, Shino  OS21–9
Olguntürk, Nilgün  OS14–6
Olguntürk, Nilgün  OS14–7
Oliveira, Ana Claudia  OS03–5
Onishi, Yuki  PS03–77
Or, Kazim Hilmi  OS12–5
Or, Kazim Hilmi  OS12–8
Osaka, Mariko  OS23–6
Osaka, Naoyuki  OS23–6
Osumi, Masayuki  OS02–6
Ota, Yudai  OS24–4
Otsuka, Chisako  PS03–70
Ou, Li–Chen  OS09–1
Ou, Li–Chen  OS13–4
Ou, Li–Chen  OS14–5
Ouimak, Warisa  OS15–6

Ouyang, Yuan  OS07–3
Ou–Yang, Mang  OS07–3
Oyama, Shinichi  PS03–28

P
Pablo, Manye  OS23–3
Paik, Jinkyeeong  PS01–72
Paik, Jinkyeeong  PS01–62
Pan, Jun  PS02–13
Pan, Qianqian  OS04–5
Pan, Qianqian  OS09–2
Pan, Qianqian  OS09–4
Pan, Qianqian  OS21–8
Panahi, Farhad  PS03–82
Panjela, Mohsen  PS03–82
Paramei, Galina V.  OS05–4
Park, Chi–Hu  OS03–7
Park, DaEun  PS03–14
Park, Gyu Rim  PS02–15
Park, Hanna  PS01–62
Park, Hanna  PS01–72
Park, Heykyung  OS17–5
Park, Heykyung  PS01–06
Park, Heykyung  PS01–09
Park, Heykyung  PS02–12
Park, Heykyung  PS02–27
Park, Heykyung  PS02–30
Park, Huigyeong  PS02–52
Park, Hye Jeong  OS12–4
Park, Jaeryung  PS01–60
Park, Jinyoung  PS01–13
Park, Jin–Hyun  PS01–87
Park, Jinyoung  PS02–17
Park, Jinyoung  PS03–11
Park, Jinyoung  PS03–36
Park, Jinyoung  PS03–44
Park, Jinyoung  PS03–45
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Tsunetou, Junki OS09-6

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Ulusoy, Begüm OS05-6

V
Varichon, Anne OS09-9
Vitta, Pranciškus OS21-3
Vozchikov, Lev PS03-73

W
Wakata, Tadayuki PS03-13
Wan, Lifang PS03-18
Wang, Ching Liang OS02-4
Wang, Jiangbo OS06-4
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Wang, JunWei PS01-02
Wang, Mengmeng OS09-5
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Wang, Yuzhao OS22-1
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Watanuki, Keiichi OS15-5
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