



From 51 submitted papers, the International Scientific Committee has accepted the following 44 papers to participate in the

12th International Conference on Light and Color in Nature

Reference number	Paper	Authors	Session
4	Simulating the jumping sun dogs	Adriana Pedrosa Biscaia Tufaile, Timm Vanderelli, Renan Amorim and Alberto Tufaile	Session 2: HALOS
5	Tropospheric Haze and Twilight Sky Colors	Raymond L. Lee, Jr.	Session 5: SKY COLORS and SCATTERING
6	Spectral Imaging of Spraybows and Natural Rainbows	Raymond L. Lee, Jr.	Session 1: RAINBOWS
7	Rainbows in water ice	David K. Lynch and David S. P. Dearborn	Session 1: RAINBOWS
8	Rainbows in large transparent spheres	David K. Lynch and David S. P. Dearborn	Session 1: RAINBOWS
9	Digital time lapse videos as Educational and Research tools	David K. Lynch and David S. P. Dearborn	Session 7: MISCELANEA
11	Optical Effects Associated with Scattering by Layered Materials	James A. Lock	Session 5: SKY COLORS and SCATTERING
12	Limitations on the Validity of Light Scattering Models for High-Order Rainbows	James A. Lock	Session 1: RAINBOWS
13	Modeling Green Thunderstorms	Stanley David Gedzelman	Session 3: CLOUDS
14	Optical effects due to man-made structures: double pane windows and skyscrapers	M. Vollmer and K.-P. Möllmann	Session 7: MISCELANEA
15	Near Infrared Photography and Imaging	M. Vollmer and K.-P. Möllmann	Session 7: MISCELANEA
16	Fata Morgana mirages on Lake Geneva	Eric Frappa and Andrew T. Young	Session 7: WATER, MIRAGES, SUNDOGS and others
17	Iridescent clouds	Philip Laven	Session 3: CLOUDS
18	Supernumerary arcs and geometrical optics	Philip Laven	Session 1: RAINBOWS
19	Reaching the end of a rainbow	Philip Laven	Session 5: SKY COLORS and SCATTERING
20	A database of Multispectral High Dynamic Range Polarimetric VIS+NIR images of outdoor scenes	Miguel. A. Martínez Domingo, E.M. Valero and J. Hernández-Andrés	Session 7: MISCELANEA
21	Optical Information for Stable Perception of Camouflaged Targets	Jing S. Pan and Geoffrey P. Bingham	Session 4: NATURAL IMAGES and CAMOUFLAGE
22	The hafgerdingar mirage and the appearance of tsunami-like swells	Siebre van der Werf	Session 6: WATER, MIRAGES, SUNDOGS and others
23	Structure and Optics of the Antisolar twilight	David K. Lynch, David S. P. Dearborn and Steven C. Richtsmeier	Session 5: SKY COLORS and SCATTERING
24	Visual camouflage in terrestrial and aquatic environments	Olivier Penacchio, Sönke Johnsen and Julie Harris	Session 4: NATURAL IMAGES and CAMOUFLAGE
26	Some Observations During the Recent European Episode of Polar Stratospheric Clouds	Claudia Hinz, Alexander Haussmann, Frank Killich, Peter Kuklok and Elmar Schmidt	Session 6: WATER, MIRAGES, SUNDOGS and others
27	Frequency of glories from different observation levels	Claudia Hinz	Session 6: WATER, MIRAGES, SUNDOGS and others
28	Physical interpretation of gray cloud seen from airplane	Rintaro Okamura and Hironobu Iwabuchi	Session 3: CLOUDS
29	Angular distribution of downward spectral radiance under inhomogeneous cloud	Hironobu Iwabuchi	Session 3: CLOUDS
32	Rainbows, halos, dawn and dusk: atmospheric color as a phenomenological approach to teaching optics	Johannes Kühl	Session 7: MISCELANEA
33	Some considerations about how daylight influences high order statistics in natural images	Juan Ojeda, Juan Luis Nieves and Javier Romero	Session 4: NATURAL IMAGES and CAMOUFLAGE
34	Bottlinger's Rings Observed Inflight	Joseph A. Shaw	Session 2: HALOS
35	Blue Sun Glints on Water Viewed Through a Polarizer	Joseph A. Shaw and Michael Vollmer	Session 6: WATER, MIRAGES, SUNDOGS and others
36	A Gaussian Spectro-Spatial Model reconciling Natural Spectral Reflectance and Colour Sensation statistics	Lewis D Griffin	Session 4: NATURAL IMAGES and CAMOUFLAGE
37	Unusual rainbow phenomena observed in nature and predicted by simulations	Alexander Haußmann	Session 1: RAINBOWS
38	A possible explanation for the high antisolar arc / heliac arc intensity ratio recorded during the Neklid display	Alexander Haußmann	Session 2: HALOS
39	Halos from oriented plate crystals located on a spherical shell around the earth's surface	Alexander Haußmann	Session 2: HALOS
40	Optical Theory of the Vampire Selfie	Joshua M. Grossman and Charles L. Adler	Session 7: MISCELANEA
41	Revisiting Minnaert's lab experiment to teach rainbows: a didactic simulation	F. L. Naranjo Correa, G. Martínez Borreguero, P. J. Pardo Fernández, Á. L. Pérez Rodríguez and M. I. Suero López	Session 7: MISCELANEA
42	Eclipsed sunrise and other optical effects captured by MUDIC group of astronomy	José Manuel Villa, Jesús Carnicer and Ignacio Moreno	Session 7: MISCELANEA
43	Structural origin of the iridescence of the giant metallic ceiba borer Euchroma gigantea (Coleoptera: Buprestidae)	C.J. Mora-Montaño, E.P. Navarro-Barón,J.P. Vasco, P.S.S. Guimaraes, W.N. Rodrigues, G.J. Colorado and H. Vinck-Posada	Session 6: WATER, MIRAGES, SUNDOGS and others
44	Color image processing for modelling mother-of-pearls clouds	Irina M. Ciortan	Session 3: CLOUDS
46	After Moilanen arc - the new halos discovered in the last 20 years	Marko Riikonen and Marko Pekkola	Session 2: HALOS
47	Natural scene under colorblindness simulator glasses and glasses for color-blind people to enhance color vision	R. Huertas, L. Gómez-Robledo, A. Alizadeh, E. Valero, J. Hernández-Andrés, R. Ghinea and E. Hita	Session 4: NATURAL IMAGES and CAMOUFLAGE
48	The Colour of Flowers: a spectral perspective	Thomas Bangert and Ebroul Izquierdo	Session 4: NATURAL IMAGES and CAMOUFLAGE
49	Shape perception of water in photo-realistic 3D images	Arhum Sultana	Session 6: WATER, MIRAGES, SUNDOGS and others
50	Simulating the Horizon Sky during the 2016 Solar Eclipse	Stanley D. Gedzelman	Session 5: SKY COLORS and SCATTERING
51	Transparency, Interrupted: How changes in blood flow to the muscle cause transparent shrimp to turn opaque after tail-flipping escapes	Laura E. Bagge, Stephen T. Kinsey and Sönke Johnsen	Session 7: MISCELANEA