



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 Kühn	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 <i>Euchroma gigantea</i> (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	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