

ISDH 2012 Schedule

	M, 25 June	Tu, 26 June	W, 27 June	Th, 28 June	F, 29 June
8:30-9:00	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:00-9:20	Opening Session and Reports from the Nations	Art and Holography Setsuko Ishii (JP) <i>Artistic representation with pulsed holography</i>	Techniques and Materials Hans Bjelkhagen (Glyndwr University, UK) <i>Ultra-realistic 3-D imaging based on color holography</i>	Digital Techniques Pierre St. Hilaire, Nasser Peyghambarian, Pierre-Alexandre Blanche, Lloyd LaComb, Cory Christenson, Ram Voorakaranam (University of Arizona, US) <i>Are stereograms holograms? A human perception analysis of sampled perspective holography</i>	Digital Techniques Kyungsuk Pyun (Samsung Advanced Institute of Technology, KR) <i>Integrated optical means for hologram recording</i>
9:20-9:40	Reports from the Nations (continued)	Betsy Connors (ACME Holography, US) <i>LightLeaves: landscape reflection hologram installation with computer controlled lighting and a brief discussion of other work</i>	Andreas Sarakinos, Alkis Lembessis, and Nikos Zervos (Hellenic Institute of Holography, GR) <i>A transportable system for the in situ recording of color Denisyuk holograms of Greek cultural heritage artifacts in silver halide panchromatic emulsions and an optimized illuminating device for the finished holograms</i>	Douglas Lanman, Gordon Wetzstein, Matthew Hirsch, and Ramesh Raskar (MIT Media Lab, US) <i>Depth of field analysis for multilayer automultiscopic displays</i>	Henry Smith (MIT, US) and Michael Walsh (LumArray, Inc., US) <i>An innovative tool for fabrication of computer-generated holograms</i>

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9:40-10:00	Reports from the Nations (continued)	Andrew Pepper (Nottingham Trent University, UK) <i>Holography without frames: sculptural installations incorporating 'drawn' elements</i>	Abhay Jith (University of Hyderabad, IN) <i>A holographic color camera for recording artifacts</i>	Stephan Reichelt and Norbert Leister (SeeReal Technologies, DE) <i>Computational hologram synthesis and representation on spatial light modulators for real-time 3D holographic imaging</i>	Donald Barnhart (Barnhart Optical Research LLC, US) <i>Bit-mapped holograms using phase transition mastering (PTM) and Blu-ray disks</i>
10:00-10:20	Education and Holography Tung H. Jeong (Lake Forest College, US) <i>Art-science, beauty-reason, and holography</i>	Rosa Maria Oliveira (University of Aveiro, PT) <i>From mimetism to immateriality in art holography: different approaches and concepts</i>	John Klayer (US) <i>Cave holography – out of the lab and under the ground</i>	Petr Lobaz (University of West Bohemia, CZ) <i>Discrete calculation of the off-axis angular spectrum based light propagation</i>	Break
10:20-10:40	(continued)	Break	Break	Break	Commercial and Applied Holography Ian M. Lancaster (Reconnaissance International, UK) <i>Commercial display holography: a history of failure?</i>
10:40-11:00	Break and Group Photo	Rob Taylor (Forth Dimension Holographic Technologies, US) <i>A curious conundrum: the state of holographic portraiture in the 21st century</i>	P. T. Ajith Kumar (Light Logics Holography and Optics, IN) <i>A new display holography studio system for portraiture and art holography</i>	Michael Page (OCADU, CA) <i>Haptic holography / touching the ethereal</i>	Craig Newswanger and Michael Klug (Zebra Imaging, US) <i>Holograms by/for the masses</i>

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11:00-11:20	<p>Alexandre Escarguel (Aix Marseille University, FR) and Thibaut Voslion (Université de Provence, FR) <i>An easy physics outreach and teaching tool for holography</i></p>	<p>Seth Riskin (MIT Museum, US) <i>The jeweled net: views of contemporary holography</i></p>	<p>Robert Hess (Point Source Productions, US) <i>A survey of lasers at the birth of holography</i></p>	<p>Peter Hobson, Jindrich Nebrensky, and Ivan Reid (Brunel University, UK) <i>Challenges in using GPU for the real-time reconstruction of digital hologram images</i></p>	<p>Ardeshir Osanlou, Hans Bjelkhagen (Glyndwr University, UK), Evangelos Mirlis (Intrepid Europe Ltd, UK), Peter Crosby (CMO, UK), Angela Shore (Peninsula College of Medicine, UK), Phil Henderson (Gooch and Housego PLC, UK), Bruce Napier (Vivid Components Ltd., UK) <i>Optimized processes in full color holographic endoscopy</i></p>
11:20-11:40	<p>Takeshi Yamaguchi and Hiroshi Yoshikawa (Nihon University, JP) <i>New education system for construction of optical holography setup tangible learning with augmented reality</i></p>	<p>Mike Finegan (Creative Engineering, US) <i>Comparing oil paintings and their true color holograms from a painter's perspective</i></p>	<p>Kaveh Bazargan (holographer.org, UK) <i>What are the ideal wavelengths for full-color holography?</i></p>	<p>Yuji Sakamoto, Takuo Yoneyama (Hokkaido University, JP) and Fumio Okuyama (Suzuka University of Medical Science, JP) <i>Calculation method of CGH for binocular eyepiece-type electro holography</i></p>	<p>Marek Skeren, Martin Nyvlt, and Jakub Svoboda (Czech Technical University, CZ) <i>Design and visualization of synthetic holograms for security applications</i></p>

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11:40-12:00	Richard Bruck (Columbia College Chicago, US) <i>Going deeper: teaching more than the mechanics</i>	Dieter Jung (Academy of Media Arts (Prof. Emeritus), DE) <i>Moments of seeing</i>	Milan Kveton, Marek Skeren, Pavel Fiala (Czech Technical University in Prague, CZ), Antonin Havranek (Charles University in Prague, CZ) <i>New recording material with AgBr nanoparticles for optical holography</i>	Tsubasa Ichikawa and Yuji Sakamoto (Hokkaido University, JP) <i>A rendering method of background reflections on a specular surface for CGH</i>	Dietmar Öhlmann (Syn4D, DE) and Josef Kallo (DLR Stuttgart, DE) <i>Flying with Antares DLR-H2 - from stereo images to multi view</i>
12:00-1:00	Lunch	Lunch	Lunch	Lunch	Stephen Hart, Daniel Burman, Colin Stevens (Holorad, US), Bill Brockbrader (Radiance Laser, US), William Molteni (US), Dinesh Padiyar, Joyce Padiyar (Triple Take Holographics, US), Wayne Parris (PMP® Independent Consultant, US), Daniel Reetz (Disney Research, US), Michael Shara (The American Museum of Natural History, US) <i>A stellar hologram (till 12:20)</i>

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1:00-1:20	Pedro Pombo and Rosa Maria Oliveira (University of Aveiro, PT) <i>Project Traveling Holography: art and science on the go</i>	Sally Weber (US) <i>For a photon there is only the present</i>	Nils Abramson (Royal Institute of Technology, SE) <i>Holographic metrology and basic physics</i>	Gordon Wetzstein, Douglas Lanman, Matthew Hirsch, and Ramesh Raskar (MIT Media Lab, US) <i>Real-time image generation for compressive light field displays</i>	Lunch (12:20-1:00)
1:20-1:40	Odile Meulien Öhlmann (University Strasbourg, DE) and Dietmar Öhlmann (Syn4D, DE) <i>3D and education</i>	Sandra Oliveira and Martin Richardson (De Montfort University, UK) <i>The future of holographic technologies and their use by artists</i>	Dinesh Padiyar and Joyce Padiyar (Triple Take Holographics, US) <i>Aberrations in holography</i>	Sebastian Mader, Wayne Tompkin, (OVD Kinegram AG, CH) and Tomasz Kozacki (Warsaw University of Technology, PL) <i>Limits of computational white-light holography</i>	
1:40-2:00	Martina Mrongovius (Center for the Holographic Arts, US) and Harris Kagan (Ohio State University, US) <i>The Center for the Holographic Arts new residency program and hands on teaching at Ohio State University / Martina Mrongovius (Center for the Holographic Arts, US) Looking back and forward, Holography at the Academy of Media Arts Cologne (KHM) (10 minutes each)</i>	Jacques Desbiens (CA) <i>Content metamorphosis in synthetic holography</i>	Ed Wesly, (Harrington College of Design, US) <i>Quantitative measurement of holographic image quality using Adobe Photoshop</i>	Koki Wakunami and Masahiro Yamaguchi (Tokyo Institute of Technology, JP) <i>Occlusion processing for computer generated hologram by conversion between the wavefront and light-ray information</i>	

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2:00-2:20	Break	Dietmar Öhlmann (Syn4D, DE) and Odile Meulien Öhlmann (University Strasbourg, DE) <i>"Kunstwerk" in the age of holography</i>	Tristan Duke (Museum of Jurassic Technology and the Optics Division of the Metabolic Studio, US) <i>Drawing light-fields: hand-drawn approaches to abrasion holography</i>	Hao Zhang, Qiaofeng Tan, and Guofan Jin (Tsinghua University, CN) <i>Full parallax three-dimensional computer generated hologram with occlusion effect using ray casting technique</i>	
2:20-2:40	Art and Holography David Warren (AU) <i>Hololujah: a one kilometre art hologram</i>	Break	David Brotherton-Ratcliffe (Geola Technologies Ltd, UK) <i>A new type of coupled wave theory capable of analytically describing diffraction in polychromatic gratings and holograms</i>	SeungHyun Lee, SoonChul Kwon, HoByung Chae, JiYong Park (Kwangwoon University, KR), HoonJong Kang (Korea Electronics Technology Institute, KR), and James Do Kyoon Kim (Samsung Electronics, KR) <i>Digital hologram generation for a real 3D object by using a depth camera</i>	
2:40-3:00	John Perry (Holographics North, US) <i>Artist Projects at Holographics North</i>	August Muth (The Light Foundry, US) <i>Investigating the spherical nature of light through large format DCG emulsions on glass</i>	Break	Break	

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3:00-3:20	<p>Ya-Ling Huang (Kun Shan University, TW) <i>Traversing time and space from the Blessing Window</i></p>	<p>Rocio Garcia Robles (University of Seville, ES) and Rosa Oliveira (University of Aveiro, PT) <i>The artistic use of parallax and lenses revealing the invisible in holography</i></p>	<p>Digital Techniques Lloyd LaComb, Pierre-Alexandre Blanche, Ram Voorakaranam, Pierre St. Hilaire, Brittany Lynn, Nasser N. Peyghambarian (University of Arizona, US), Arkady Bablumyan, Richard Rankin (TIPD LLC, US), Michiharu Yamamoto (Nitto Denko Technical, US) <i>Recent advancements in photorefractive holographic imaging</i></p>	<p>Jakub Svoboda, Pavel Fiala, Milan Kveton, Marek Skeren (Czech Technical University in Prague, CZ) <i>Holographic 3D imaging – methods and applications</i></p>	
3:20-3:40	<p>Maria Isabel Azevedo (University School of Arts of Coimbra, PT), Martin J. Richardson (De Montfort University, UK), and Luis Miguel Bernardo (University of Porto, PT) <i>Across light: through colour II</i></p>	<p>Tom Cvetkovich (Art and Holographic Consulting, US) <i>Holography at the Butler Institute of American Art</i></p>	<p>Hongyue Gao, Xiao Li, Zhenghong He, Yikai Su (Shanghai Jiao Tong University, CN), Ting-Chung Poon (Virginia Tech, US) <i>Real-time holographic display based on a super fast response thin film</i></p>	<p>Kyoji Matsushima, Sumio Nakahara, Yasuaki Arima, Hirohito Nishi, Hiroshi Yamashita, Yutaka Yoshizaki, and Kohei Ogawa (Kansai University, JP) <i>Computer holography: 3D digital art based on high-definition CGH</i></p>	

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3:40-4:00	<p>Philippe Boissonnet (Université du Québec à Montréal, CA) <i>The shifting appearance/disappearance of holographic images: a specific visual quality emblematic of a dynamic ontology of perceptual and cognitive processes</i></p>	<p>Ana Maria Nicholson (Holocenter, US) <i>A holographic collaboration</i></p>	<p>Sundeep Jolly and V. Michael Bove, Jr. (MIT Media Lab, US), <i>Direct fringe imaging of diffraction specific coherent panoramagrams in photorefractive polymer for updatable three-dimensional holographic display</i></p>	<p>Special Amphibious Excursion Around Boston</p>	
4:00-4:20	<p>Ray Park (Korea Electronics Technology Institute, KR) <i>Coexistence</i></p>	<p>Poster Session (until 5:30)</p>	<p>Daniel Smalley, V. Michael Bove, Jr., James Barabas, Clark Della Silva, Sundeep Jolly (MIT Media Lab, US) <i>Holovideo for everyone</i></p>		
4:20-4:40	<p>Paula Dawson (University of New South Wales, AU) and Masa Takatsuka (University of Sydney, AU), <i>The Haptic Lines of Homeland</i></p>		<p>James Barabas and V. Michael Bove, Jr. (MIT Media Lab, US) <i>Human factors for holographic imaging</i></p>		

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4:40-5:00	Yin-Ren Chang and Martin Richardson (De Montfort University, UK) <i>Drawing lines with light in holographic space</i>		Richard Stahl, Veronique Rochus, Xavier Rottenberg, Stefan Cosemans, Luc Haspeslagh, Simone Severi, Geert Van der Plas, Gauthier Lafruit, and Stephane Donnay (IMEC, BE) <i>Modular sub-wavelength diffractive light modulator for high-definition holographic displays</i>		
5:00-5:20	Martina Mrongovius (Center for the Holographic Arts, US) <i>Moving through a multiplex holographic scene</i>				
6:00-7:00	Dinner , with continuous showing by Ed Wesley (Harrington College of Design, US) <i>By the laser's red glare: pictorial historical highlights of previous International Symposia on Display Holography</i>	Dinner and Reception at MIT Museum	Dinner	Dinner	
7:00-?	In Memoriam: Remembering Departed Members of the Display Holography Community		Showing of a variety of short videos about holography		

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Poster Papers (Tuesday 4:00-5:30)

DuckHee Cho (Sejong University, KR) *Holography and art*

Melissa Crenshaw (Holographic Design, CA) *Jerry Pethick: the missing history*

Michael Crawford (nesteggs, US) *Discovery and joy from dismissing stricture and embracing simplicity*

Matthew Hirsch, Douglas Lanman, Gordon Wetzstein, and Ramesh Raskar (MIT Media Lab, US) *Construction and calibration of optically efficient LCD-based multi-layer light field displays*

Natalie Logan (OCAD University, CA) *Haptic holography: acoustic space and the evolution of the whole message*

Sumio Nakahara and Kyoji Matsushima (Kansai University, JP) *Fabrication of CGH for 3D display holography using laser direct write lithography system*

Dale Olson (University of Northern Iowa, US) *Simple, complete, and novel quantitative model of holography for students of science and science education*

Andrew Pepper (Nottingham Trent University, UK) *Light Liquid: a holographic 'lake' installed on the roof of an architect's model townscape*

Marek Skeren, Jakub Svoboda, Milan Kveton, Pavel Fiala (Czech Technical University, CZ) *Fabrication of synthetic diffractive elements using advanced matrix laser lithography*

Robin Walker (Columbia University Teachers College, US) *Educational holograms as teaching agents*

Philip Wilksch (RMIT University, AU) *Method for evaluation of optical stability of the holographic recording environment*

Jayne Wilton and Peter Hobson (Brunel University, UK) *Visualizing breath using digital holography*

Takeru Utsugi and Masahiro Yamaguchi (Tokyo Institute of Technology, JP) *A new approach for speckle reduction in holographic 3D printer*

Xiangsu Zhang, Shou Liu, and Xuechang Ren (Xiamen University, CN) *Optical matching system for eliminating lateral position displacement of holographic images under varying laser wavelength*