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FOR IMMEDIATE RELEASE
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IS&T 2013 HONORS AND AWARDS RECIPIENTS ANNOUNCED

Springfield, Virginia, April, 2013 – The Society for Imaging Science and Technology (IS&T) is pleased to announce those individuals selected for 2013 Honors and Awards. Each recipient, by their exemplary contributions, has made unique and noteworthy advancements to the field of imaging science and technology.

Honorary Membership
Honorary Membership—the Society's highest honor—is awarded to **Alan Bovik** (University of Texas at Austin) "for his impact in shaping the direction and advancement of the field of perceptual image processing."

Dr. Bovik received his BS in computer engineering (1980) and MS and PhD in electrical and computer engineering (1982 and 1984, respectively) from the University of Illinois, Urbana-Champaign. He is a professor at The University of Texas at Austin, where he holds the Curry/Cullen Trust Endowed Chair and is director of the Laboratory for Image and Video Engineering (LIVE) in the Department of Electrical and Computer Engineering and Institute for Neuroscience. His research interests include image and video processing, computational vision, and visual perception. He has published more than 650 technical articles in these areas and holds two US patents. He is especially noted for his contributions to the field of image and video quality, and is the inventor or co-inventor of several leading models for predicting visual quality, including the SSIM and VIF image quality indices and the MOVIE video quality index. Algorithms utilizing Professor Bovik's theories are used throughout the television industry to monitor and control signal quality.

Chester F. Carlson Award
Sponsored by the Xerox Corporation Wilson Center for Research and Technology, the Chester F. Carlson Award was established to recognize outstanding work in the science or technology of electrophotography. The 2013 award goes to **Edward Gutman** (consultant) "for his critical contributions in the realms of xerographic development and materials."

Dr. Gutman holds a BS and an MS from John Carroll University and a PhD from Iowa State University. After a post-doctoral research appointment at the University of Illinois, he joined Xerox Corporation where his research interests have focused on the physics of the xerographic development process and the science of xerographic developer materials. In 1989, Dr. Gutman received the Xerox President's Achievement Award for his contributions to the design of xerographic developer materials. He holds patents on xerographic developer materials or devices. In 1992, he received IS&T Charles E. Ives Award for best technical paper. He was a Xerox Research Fellow when he retired in 2001.

Gutenberg Award

Sponsored by Hewlett-Packard Company, the Gutenberg Award is given for an outstanding technical achievement in, or contribution to, printing technology. This year's award goes to **Guy Adams** (Hewlett-Packard Company) "for his invention of the Dyson Relay CMOS Imaging Device, which enables forensic validation of printed material."

Guy Adams is currently a principal researcher at Hewlett-Packard Laboratories in Bristol, UK. As the hardware lead of his group in the printing and content delivery lab, he is responsible for defining and leading research programs focused on transforming printing workflows. In his career he has worked in diverse positions, from his current role at HP to flight control system design for helicopters to running an audio startup where along with other analog technologies he designed tube amplifiers. He holds a Bachelor in electronic systems and control engineering from Sheffield Hallam University (1985) and is a member of the IET (Ceng). His early contribution at HP (1996), developing CMOS image sensors, still has traces in the market today as a result of the successful development of a class leading embeddable and mobile imaging component (this business was split off from HP with the Agilent sale, then was sold to Micron and then Aptina, one of the primary suppliers of imaging chips found in many of today's smartphones). Adams was instrumental in developing several PDA camera solutions for the Jornada/iPAQ teams, and on developing an optical digital pen and paper solution that subsequently lead to the basis of his current work in forensic printing. Mr. Adams holds more than 18 issued patents.

The Edwin H. Land Medal

Given in cooperation with the Optical Society of America for pioneering work empowered by scientific research to create inventions, technologies, and products, the 2013 award is given to **Pablo Artal** (Laboratorio de Optica, Departamento de Física, Universidad de Murcia) "for his scientific contributions to the advancement of diagnostic and correction alternatives in visual optics."

Pablo Artal was born in Zaragoza (Spain), received his PhD in physics from the University Complutense of Madrid, was a post-doctoral fellow at the Institut d'Optique, Orsay, France, and a senior researcher at the Instituto de Optica in Madrid. Since 1994, he has been a full professor of optics at the University of Murcia, Spain. Dr. Artal spent several periods doing collaborative research in laboratories in Europe, Australia, and the US. He is a Fellow of OSA and ARVO. Dr. Artal has published more than 150 reviewed papers that received 5500 citations (h-index: 41), presented more than 150 invited talks in international meetings, and offered nearly 120 seminars. He is a co-inventor on 18 international patents in the field of optics and ophthalmology, has pioneered a number of highly innovative advances in the methods for studying the optics of the eye, and has contributed substantially to our understanding of the factors that limit human visual resolution. Dr. Artal is a pioneer in exploring the human eye with new technologies; several of his proposed solutions and instruments are currently in use in the clinical practice. Dr. Artal is the founder of Voptica SL a spin-off company developing adaptive optic vision analyzers. He has been editor of the *Journal of the Optical Society of America A* and the *Journal of Vision,* and currently writes a personal science blog.

Image Engineering Innovation Award

Sponsored by Image Engineering GmbH, the Image Engineering Innovation Award highlights efforts that lead to quality improvements or major positive changes in handling digital cameras and images. The 2013 award is given to **Ren Ng** (Lytro, Inc.) and **Christian Perwass** and **Lennart Wietke** (Raytrix GmbH) "for introducing Digital Light Field Cameras."

Dr. Ng is the founder of Lytro, a startup company that brought to market the first light field camera for consumers. Light field cameras introduced revolutionary capabilities, including the ability to focus pictures after a shot is taken. Their underlying technology is based on Dr. Ren's PhD dissertation on light field photography, which he completed

at Stanford University (2006). Dr. Ren's dissertation won the ACM Doctoral Dissertation Award and Stanford's Arthur Samuel Award.

Dr. Perwass received his MSci in physics from the University of London, Royal Holloway College (1996) and his PhD in engineering from Cambridge University (1999). He then worked at the University of Kiel, Germany, as a postdoctoral researcher until 2006, where he received his habilitation degree. From 2006 until 2009, he worked at Robert Bosch GmbH in corporate research. In 2009, he founded Raytrix GmbH with Lennart Wietzke to develop lightfield cameras for industrial applications.

Dr. Wietzke began his first company at the age of 18 based on laser display software he designed. After receiving a Diploma in computer science and mathematics at the Technical University of Clausthal, Dr. Wietzke did research in the area of phase-based image processing for the German Research Foundation (DFG) and received his PhD in engineering in Kiel with the title "Algebraic Representation and Geometric Interpretation of Hilbert Transformed Signals."

HP Image Permanence Award

Sponsored by the Hewlett-Packard Company and given with participation of the International Institute for Conservation for Historic and Artistic Works (ICC), the HP Image Permanence Award recognizes outstanding contributions that advance the longevity of photographic and fine art images created via modern digital methods. The 2013 award is given to **Yoshihiko Shibahara** (FUJIFILM Corporation) "for his significant contributions to furthering the understanding of how modern print materials respond to forces of decay such as light, pollution, and humidity."

Yoshi Shibahara is a senior technical manager of the R&D Management Headquarters of FUJIFILM Corporation. He obtained a master's degree in engineering from Japan's Kyoto University (1978) and subsequently joined Fujifilm's research and development division. Mr. Shibahara's work has primarily focused on the research and development of imaging materials, such as silver halide photographic color negative films, color reversal films, inkjet media, inkjet ink, and xerographic photo-grade media. He is known for his technical background in design and evaluation of imaging materials, imaging systems, and image permanence. Mr. Shibahara participates in activities that encourage consumers to create photographic prints for archiving purposes rather than storing images as digital data. He has been a member of the ISO Technical Committee 42 (TC 42: Photography) since 1996 and has served as the head of delegation for Japan, as an expert of the ISO/TC 42/WG 5 (Working Group of physical properties and image permanence of photographic materials), and project leader for important WG 5 initiatives related to image permanence. Recently, Mr. Shibahara expanded his interests to electronic display. In 2012, he was appointed Secretary of IEC/TC 110, which focuses on the international standards of electronic display devices. Through international standard activities in both photography and electronic display, Mr. Shibahara continues to work to improve the quality of imaging materials and imaging systems.

IS&T Fellowship

In recognition of outstanding achievement in imaging science or engineering, the following members of the Society will be elevated to Fellow status:

- **Sos Agaian** (University of Texas at San Antonio) "for his outstanding contributions to the fields of multimedia-imaging systems and security systems, including embedded data decryption processes and data hiding methods for mobile communications."
- **Mohammad Alam** (University of South Alabama) "for his contributions in the areas of image processing, pattern recognition, and high-resolution image reconstruction."

- **Francisco Imai** (Canon USA, Inc.) “for significant contributions to the advancement of color reproduction and multi-spectral imaging.”
- **Gaurav Sharma** (University of Rochester) “for his significant and lasting contributions to color imaging.”
- **Robert Ulichney** (Hewlett-Packard Company) “for his landmark contributions in the field of digital half-toning.”

Senior Membership

For long-term service to the Society at the national level, Senior Membership is awarded to

- **Ricardo Motta** (NVIDIA Corporation) "for service as Vice-President of the society from 2000 to 2004, and help in organizing new conference tracks and serving in various programmatic and chairmanship positions for CIC, Archiving, and EI."
- **Thrasyvoulos Pappas** (Northwestern University) "for service as the Electronic Imaging Symposium General Chair in 2005 and Co-Chair of the EI "Human Vision and Electronic Imaging" conference, 1997-2013."

Service Award

Recognizing service to a Chapter or to the Society, 2013 Service Awards are given this year to

- **Daryl Hunt** for establishing IS&T as the home to the ISO/TC42 Digital Photography Standards Program and for his leadership of the Standards Management Board Executive Committee.
- **Theo Gevers** (University of Amsterdam) for service as CGIV2012 General Chair.
- **Marcel Lucassen** (University of Amsterdam) for his extensive efforts in managing the many details related to the successful technical and social programs at CGIV2012.
- **David Foster** (University of Manchester) for service as the CGIV program chair in 2010 and 2012.
- **John Merritt** (The Merritt Group) for chairing conferences on Stereoscopic Displays and related applications since the inception of the Electronic Imaging Symposium in 1988**.**
- **Robert Stevenson** (University of Notre Dame) for chairing conferences at the Electronic Imaging Symposium related to Visual Communications and Image Processing since 1994.

Other awards presented by IS&T this year are:

- The **Raymond C. Bowman Award** for excellence in imaging education to **Jussi Parkkinen** (University of Eastern Finland) "for his contributions to the development and execution of the Master CIMET course project, his proven excellence in teaching within this course, and his extensive efforts to foster excellence in the scientific and academic worlds."

- The **Charles E. Ives/Journal Award** in recognition of the best engineering paper published in an IS&T journal the preceding year to **Kyoji Matsushima, Hirohito Nishi, and Sumio Nakahara** for "Simple wave-field rendering for photorealistic reconstruction in polygon-based high-definition computer holography," JEI 21(2) 023002 (2011).

- The **Itek Award** in recognition of the best student publication in an IS&T journal the preceding year to **Maria Yanez, Julio Rincon, Polette Cortez, Navina Günther, Thomas Boland, and Carmelo De Maria** for "Printed cellular scaffold using self-crosslinking agents," JIST vol. 56 #4 040506-1–040506-5 (2012).

- The **Raymond Davis Scholarship,** given to an advanced-level undergraduate or a graduate student with an academic and/or research focus in a field related to imaging, to **Anna Labno** (University of California at Berkeley)for her research achievements in super-resolution imaging.

For more information on these awards, please check our website at www.imaging.org.

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