

*Society for
Imaging Science & Technology*

2009

HONORS AND AWARDS



April 2009

It is once again my great privilege and pleasure to announce the latest group of IS&T Honors and Awards winners. The individuals chosen to receive a 2009 award represent the range of talent and expertise this Society represents. All have been nominated and selected by peers for their individual distinctions and because of their contributions to the Society and/or to the advancement of the science of imaging.

One of the greatest privileges of a professional society is to highlight those who have made significant contributions to the repository of scientific knowledge, as well as those who are beginning to do so. All of them enrich our world and allow our Society to prosper, thereby serving each and every one of us.

On behalf of IS&T, I want to thank the members of the Awards and Honors, Land Medal, and HP Image Permanence Award Committees for their time, dedication, and commitment to this process.

Congratulations to our honorees.



Eric G. Hanson
President, IS&T

2009 IS&T HONORS AND AWARDS COMMITTEE

Ken Lindblom (Hewlett-Packard Company), chair
Jan P. Allebach (Purdue University)
Alan Hodgson (3M Security Printing & Systems Ltd.)
Eric Stelzer (Eastman Kodak Company)
Shoji Tominaga (Chiba University)

2009 HP IMAGE PERMANENCE AWARD COMMITTEE

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Paul Wight (FUJIFILM Imaging Colorants Ltd.)
Doug Nishimura (Image Permanence Institute)
Joyce H. Townsend (Tate Britain)

2009 LAND MEDAL AWARD COMMITTEE

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Charles A. Bouman (Purdue University)
Peter D. Burns (Carestream Health Inc.)
Uzi Efron (Ben Gurion University of the Negev)
Costas Fatakis (FORTH-IESL)
Daniel F.V. James (University of Toronto)
Jin Mizuguchi (Yokohama National University)
Peter Török (Imperial College London)

Honorary Membership

the highest award of the Society, for outstanding contribution to the advancement of imaging science and engineering to

JAMES LARIMER

for his distinction in both basic and applied vision science, with many years of fundamental scientific and technical contributions to these disciplines.

James Larimer began his academic career as a professor of psychology at Temple University and served as department chair-person. On leave from Temple, he ran the sensory physiology and perception program at the National Science Foundation and represented the life sciences on the NSF Super Computer Initiative. He joined NASA's Ames Research Center in 1987 as chief scientist in an Army/NASA joint program on the computational modeling of human performance. He left NASA in 2006.

At NASA Ames, funded by DARPA, Dr. Larimer lead an interdisciplinary team in the development of a CAD tool for the design and manufacturing of flat panel displays. The human vision model, developed collaboratively with the Sarnoff Corporation, won an Emmy for



technical achievement. Many US companies have used this CAD tool.

Dr. Larimer's early research explored mechanisms of chromatic adaptation in the human visual system. After joining NASA, his research became more applied and concerned with display image quality. Many of the applied projects were designed to derive material parameters for an actual display device and to test the validity of the computational model of human vision. The vision model predicted quantitative measures of perceptually salient image artifacts unique to the display and was used to drive trade-offs in electronic display's design.

Dr. Larimer is a member of AAAS, IEEE, IS&T, OSA, SID, SMPTE, and SPIE. He has been an SID director and vice president. Dr. Larimer is an associate editor of the *Journal of the Society of Information Display* and has published many articles in scientific and technical journals.

Senior Membership

for long-term service to the Society at the national level to

ERIC G. HANSON

for his years of dedicated service and contributions to the leadership and direction of IS&T.

Eric Hanson is the director of the Commercial Print Engine Laboratory (CPEL) at Hewlett Packard Laboratories in Palo Alto, California. His primary research focus is on technology advances in printing processes and materials to enable higher performance liquid electrophotographic and ink jet commercial print engines. These advances include improvements in designs, operating conditions, fabrication techniques, and chemistry, to address such issues as ease of use, image quality, reliability, cost, and image permanence.



Dr. Hanson has also conducted research on several other non-impact marking techniques, and has analyzed strategic technological trends in the major printing technologies. Prior to 1984, he conducted research on optical fiber fabrication and optical switching components, also at HP Labs.

Dr. Hanson is active in IS&T, serving as president (2007–2009), executive vice president, conference vice president, NIP11 general chair (1995), and chair of the NIP technical council.

He received a PhD in physics from the University of California at Berkeley, where his focus was experimental research on optical properties of liquid crystals and solid state materials. He has been awarded 18 US patents.

Senior Membership

for long-term service to the Society at the national level to

HOWARD MIZES

for his active and enthusiastic Society leadership and strong technical contributions to NIP.

Howard Mizes has been an active contributor to IS&T for almost 20 years, currently serving as an associate editor for the *Journal of Imaging Science and Technology*.

From 2004 to 2007, he was a vice president on the IS&T Board of Directors. Dr. Mizes was NIP16 general chair (2000) and has held various committee roles for NIP and other IS&T conferences. He has presented regularly at Society conferences.



Dr. Mizes is a principal scientist in the Xerox Innovations Group at Xerox Corporation in Webster, NY, where he has been since 1988. His current research involves sensing and control schemes for color registration and image uniformity in electrophotographic and direct marking products. He has also worked in the areas of charge transport, particle

adhesion, xerographic development, and xerographic system modeling.

Dr. Mizes holds a BS (1983) from UCLA and a PhD (1988) from Stanford University. Dr. Mizes has 20 issued patents and has published 67 papers and conference proceedings.

IS&T Fellowship

for outstanding achievement in imaging science or engineering to

RAJA BALA

for his prolific contributions in the areas of digital color reproduction, color transforms, and printer system modeling.

Raja Bala has been with Xerox Corporation since 1993, where he is currently a principal scientist conducting research and development in digital color imaging.

Prior to this he received his MS (1988) and PhD (1992) from Purdue University, and BS from the University of Texas at Arlington (1987), all in electrical engineering. Dr. Bala's research interests include color management, device characterization, optimal representations and transformations of color, image-adaptive rendering, security printing, and image personalization. His research and inventions have been incorporated into several leading Xerox color products.

Dr. Bala served as an adjunct faculty member



in the School of Electrical Engineering at Rochester Institute of Technology (2003-2005). He has also been an active member of IS&T, notably within the leadership of the IS&T/SID Color Imaging Conference, where he has served as short course, program, and general chair. He has taught many highly-rated courses on system color imaging at IS&T

conferences, and has served as associate editor for the *Journal of Imaging Science & Technology*. He is currently a vice president on the IS&T Board of Directors.

Dr. Bala's awards include the Xerox Excellence in Science & Technology Award (1994) and the *R&D Magazine* 100 Team Award for Specialty Imaging Technology (2007). He has authored two book chapters and more than 50 conference and journal publications. Dr. Bala has presented several invited talks and articles, and holds more than 50 US patents in the area of digital color imaging.

IS&T Fellowship

for outstanding achievement in imaging science or engineering to

YEONG-HO HA

for his outstanding contributions to color imaging science and image processing fields.

Yeong-Ho Ha is professor of electrical engineering and computer science at Kyungpook National University in Daegu, Korea. He received his BS (1976) and MS (1978) in electronic engineering from Kyungpook National University, and PhD (1985) in electrical and computer engineering from the University of Texas at Austin.

Since then, Dr. Ha has actively participated in research on digital image processing, image coding, and computer vision, with numerous industrial, government-sponsored and national research projects on digital media including DTV, HDTV, and various digital image and video devices. Dr. Ha's current research interests include color imaging for display and printing, and image quality.



Dr. Ha has led color imaging groups in Korea and his color and imaging research laboratory was designated a national research laboratory (2002) and laboratory of excellence (2005).

In these fields, Dr. Ha has published more than 220 research papers and is the inventor on more than 60 patents. He has served as technical program committee chair, committee member, or committee chair for many international conferences sponsored by KSIST, IEEK, IEEE, IS&T, and SPIE.

Dr. Ha served as vice president and president of the Korea Society for Imaging Science and Technology (KSIST) and vice president of the Institute of Electronics Engineers of Korea (IEEK). In addition to IS&T, he is a senior member of IEEE and a member of SPIE and the Pattern Recognition Society.

IS&T Fellowship

for outstanding achievement in imaging science or engineering to

MICHAEL H. LEE

for significant contributions in providing insights into the physics of toner adhesion, as well as single component and two-component development systems.

Michael H. Lee received his BS with highest honors in engineering physics from the University of California at Berkeley (1971) and his MS (1972) and PhD (1974) in physics from the University of Illinois at Urbana-Champaign. At Illinois, he studied III-V semiconductor lasers under Nick Holonyak, Jr.

Dr. Lee joined IBM Research in 1975 and worked initially in multiple areas including UHV thin-film deposition, magnetic and optical recording materials, LCD displays, and corrosion. Beginning in 1983, He focused mainly on electrophotography.

Early on he tackled one of the most vexing questions of the day, whether toner adhesion is dominated by electrostatic or van der Waals forces, and proved implicitly by SEM that it is electrostatics. This was followed by a model of two-component insulative magnetic brush



development, which challenged the basic assumption of the generally accepted one, and a model of conductive magnetic brush development based on toner flying off the carrier bead, a concept widely accepted now, but hardly on the radar then. He moved on to magnetic brush cleaning and then into more proprietary areas.

Since 1994, Dr. Lee has been with HP Labs, where he now a principal scientist involved mostly in the HP Indigo LEP process. He regained the spotlight recently with the HP Indigo 7000 Digital Press unveiled at Drupa08. Dr. Lee is acknowledged as the prime contributor to some key inventions for the critical charge-roller charging system introduced in the press, including the technique to extend the charge roller life by many times.

Dr. Lee is a member of IS&T and the American Physical Society. He has served on three NIP conference committees including the position of NIP15 general chair. He has been an associate editor of the *Journal of Imaging Science and Technology* since 2001.

IS&T Fellowship

for outstanding achievement in imaging science or engineering to

GABRIEL G. MARCU

for his contributions in digital halftoning, color imaging, and display characterization.

Gabriel Marcu is senior scientist at Apple, where he is responsible for color calibration/ characterization of Apple display based products. His interests are in color reproduction on displays/ printers, characterization/calibration, halftoning, gamut mapping, ICC profiling, RAW color processing. Dr. Marcu holds several patents in these areas.



Dr. Marcu was co-chair of the Electronic Imaging (EI) Symposium in 2006 and he has been the co-chair of the EI Conference on Color Imaging: Display, Hard-copy, Processing, and Applications since 1998. He has taught courses at various IS&T, SPIE, and SID conferences. Dr. Marcu serves as an associate editor for the *Journal of the Society for*

Information Display and for *IEEE Transactions on Image Processing*.

Dr. Marcu is an SPIE Fellow.

Service Award

in recognition of service to a Chapter or to the Society to

MICHAEL KRISS

for his efforts on behalf of the *Electronic Imaging Symposium, Color Imaging Conference, IS&T Board, and IS&T/Wiley series.*

Michael A. Kriss received his PhD (1969) in physics from UCLA before joining Eastman Kodak Research Laboratories to work in the color photography division with a focus on image quality, image structure, image modeling, and simulation. In 1977, he published a chapter on image structure in *Theory of the Photographic Process, 4th Edition*, edited by Howard James. Dr. Kriss joined the physics division in 1980, where he focused on developing image processing algorithms for scanned film images and digital camera images. He became laboratory head of the Image Processing Laboratory in 1982, which laid the foundations for Kodak's entrance into the "digital age."

From 1985 to 1988, Dr. Kriss worked with a team of managers to establish a Kodak research facility near Tokyo, Japan. Upon returning to the Research Laboratories, he headed a technical outreach program to universities around the country and managed the Algorithm Development Laboratory until his retirement in late 1992.



In 1993, Dr. Kriss joined the University of Rochester. He served as the executive director of the Center of Electronic Imaging Systems and adjunct professor in the Department of Computer and Electrical Engineering where he managed outreach programs with industry and through a NSF Grant created a program on introductory digital imaging and a graduate course in digital imaging technology. During this period, Dr. Kriss wrote chapters on digital photography in the *Encyclopedia of Applied Physics, Encyclopedia of Optics*, and the *IS&T Handbook of Photographic Science and Engineering*.

Dr. Kriss returned to the West Coast in 1999 as the manager of the color imaging group at Sharp Laboratories of America until his retirement in 2004.

Dr. Kriss is a Fellow of IS&T and the 1999 recipient of the Davies Medal of the Royal Photographic Society. Dr. Kriss still teaches courses on digital imaging technology as an adjunct professor at Portland State University in Oregon and works with John Wiley & Sons as editor-in-chief for an IS&T series of texts on imaging science and technology.

Service Award

in recognition of service to a Chapter or to the Society to

ROSS N. MILLS

for dedication, vision, and leadership in guiding efforts to establish the Digital Fabrication Conference.

Ross N. Mills is currently chief technical officer and chairman of the Board of Directors of imaging Technology international (iTi) Corporation.

He received his PhD and MS in engineering science from the University of California at Berkeley and his BS in aerospace engineering with honors from the University of Texas at Austin. Since 1978, he has worked as a research, development, and manufacturing engineer in both staff and management capacities



in the areas of piezoelectric and thermal ink jet printers and electrophotographic printers for IBM, Lexmark International, and Topaz Technologies, as well as iTi.

In 1992, Dr. Mills founded iTi Corporation in Boulder, Colorado as an ink jet consulting and development firm, and as an integration facility for advanced applications in ink jet and materials deposition technology. More recently, iTi has evolved into one of the preeminent providers of ink jet development tools and production equipment for digital fabrication. Dr. Mills holds 12 patents in these fields and he is the inventor of iTi's proprietary ESIJET™ technology.

Service Award

in recognition of service to a Chapter or to the Society to

JAMES STASIAK

for dedication, vision, and leadership in guiding efforts to establish the Digital Fabrication Conference.

James W. Stasiak is a senior scientist at Hewlett-Packard Company in Corvallis, Oregon. He is responsible for establishing and managing the strategic scientific and technical directions in the areas of nanotechnology, MEMS, and digital fabrication. Prior to joining Hewlett-Packard in January 2001, he held engineering management positions, senior level technologist positions, and staff scientist positions at Xerox, Tektronix, Topaz Technologies, Lexmark, and IBM.

Mr. Stasiak began his career at IBM's Thomas J. Watson's Research Center in Yorktown



Heights, New York as an experimental physicist in the Josephson Superconducting Circuits and Logic Program. Mr. Stasiak earned Bachelors in both physics and philosophy from Lewis University (1977), an MS in physics from Southern Illinois University (1979), and has completed post-graduate work in electrical engineering and applied physics at Yale University.

Mr. Stasiak is a member of the American Physical Society (APS), IS&T, SPIE, and the Materials Research Society (MRS). He has chaired and organized numerous international conferences and workshops in the areas of molecular electronics, printed electronics and materials, digital fabrication, and non-impact printing technologies.

Chester F. Carlson Award

sponsored by Xerox Corporation, Wilson Center for Research and Technology, recognizes outstanding work in the science or technology of electrophotography

SANTOKH S. BADESHA

for his technical contributions in the area of novel materials as integrated functional surfaces in electrophotographic systems.

Santokh S. Badesha is a Xerox Fellow and Manager Open Innovation in the Innovation Group at Xerox Corporation. He is responsible for leading inter-organizational efforts with value-chain partners, building academic and industrial partnerships, and providing critical technical support for product programs.

Dr. Badesha joined Xerox in 1980 as a senior research scientist at the Webster Research Center where he conducted programs to design novel materials for image generation devices. He was appointed principal scientist (1990), and principal scientist and technical manager (1994). As manager he was responsible for providing direction and strategies for materials research and he led cross-functional development efforts in high-performance materials for component design for marking subsystems. Prior to joining Xerox, Dr. Badesha was a teaching research fellow at Rensselaer Polytechnic Institute.

Dr. Badesha holds a BS and MS with honors in chemistry from Punjab University, India, a PhD (1973) in organic chemistry from Punjab Agricultural University, and a second PhD



(1976) in organic chemistry from the University of East Anglia, UK. In addition, he has received an Honorary Doctorate of Science (2007) from Clarkson University.

Dr. Badesha holds 163 US patents, also filed in multiple foreign countries. This makes him the most prolific inventor in the history of Xerox Corp. He has an additional 40 US patent applications on file and more than 50 peer-reviewed scientific publications.

Dr. Badesha was named Fellow by the Royal Society of Chemistry, Chartered Scientist by the Science Council of UK, and received a Proclamation from the Mayor of Rochester, NY. He received the Distinguished Inventor of the Year Award from the Rochester Intellectual Property Law Association and was named to the Board of the Center for Advanced Materials Processing, Clarkson University. He was inducted into the Xerox Innovation Group Hall of Fame; received the Chester Carlson Eagle Award; a Xerox Excellence in Management Award; the Xerox President's Award; and numerous Xerox Excellence in Science and Technology Awards. Recently, Dr. Badesha represented Xerox Corporation at the White House to receive a National Medal of Honor in Science and Technology from the President.

Gutenberg Award

endowed by Hewlett-Packard Company and sponsored by IS&T, for an outstanding technical achievement in, or contribution to, printing technology to

LAWRENCE B. SCHEIN

for advancing the theory and understanding of the electrophotographic development process.

Lawrence B. Schein received his PhD in solid state experimental physics from the University of Illinois (1970) then worked at the Xerox Corporation from 1970 to 1983, and at the IBM Corporation from 1983 to 1994. He is now an independent consultant.

Dr. Schein has helped implement develop-



ment systems in IBM laser printers, has proposed theories of most of the known electrophotographic development systems, and has contributed to our understanding of toner charging, toner adhesion, and charge transport mechanisms in photoreceptors.

He is the author of *Electrophotography and Development Physics*, a Fellow of the American Physical Society, a Fellow of IS&T, recipient of the Carlson Memorial Award in 1993, a Senior Member of IEEE, and a member of the Electrostatics Society of America.

Edwin H. Land Medal

awarded by IS&T and OSA to recognize pioneering work empowered by scientific research to create inventions, technologies, and products, and to reflect Land's scientific intensity and curiosity in optics and imaging as inventor, scientist, entrepreneur, and teacher to

DUNCAN T. MOORE

for invention of and leadership at a worldwide level of research and development in Gradient-index Optics along with extensive entrepreneurial efforts on behalf of education in optics.

Duncan T. Moore is the Rudolf and Hilda Kingslake Professor of Optical Engineering, professor of biomedical engineering, and professor of business administration at the University of Rochester. In 2007, he was also appointed Vice Provost for Entrepreneurship. In this role, he manages the Kauffman Campus Initiative (\$10.6M over 5 years). From 1995 to 1997, Moore was dean of engineering and applied sciences at the University, and in 1996 he also served as president of the Optical Society of America.

The US Senate confirmed Dr. Moore in the fall of 1997 as associate director for technology in the White House Office of Science and Technology Policy (OSTP). In this position, which ended December 2000, he worked with Neal Lane, President Clinton's science advisor, to advise the President on US technology policy.



Dr. Moore has extensive experience in the academic, research, business, and governmental arenas of science and technology. He is an expert in gradient-index optics, solar cell design, computer-aided design, and the manufacture of optical systems.

In 1993, Dr. Moore began a one-year appointment as science advisor to Senator John D. Rockefeller IV (WV). He also chaired the successful Hubble Independent Optical Review Panel organized in 1990 to determine the correct prescription of the Hubble Space Telescope. Dr. Moore currently chairs the Product-Integrity Team for the James Webb Space Telescope, the successor to the Hubble. He is also the founder and former president of Gradient Lens Corporation of Rochester, NY, a company that manufactures the Hawkeye boroscope.

Dr. Moore holds a Masters and PhD in optics from the University of Rochester, and a BS in physics from the University of Maine. He was elected to the National Academy of Engineering in February 1998, and in 2006 he received the Gold Medal of The International Society for Optical Engineering (SPIE).

HP Image Permanence Award

sponsored by the Hewlett-Packard Company and given with participation of the ICC, for outstanding contributions that advance the longevity of photographic and fine art images created via modern digital methods to

STEVEN PUGLIA

for his outstanding efforts as a teacher and advocate for image preservation. He has chaired an ISO group working on color image stability for more than a decade; provided guidance to many agencies and institutions transitioning to digital image archiving; championed the preservation of analog and digital images; and educated numerous people through his articles, presentations, courses, and service on review committees and Boards.

Steven Puglia studied photography and photographic science at the Rochester Institute of Technology, graduating with a BFA in photography (1984) before earning an MFA from the University of Delaware (1988). He began his career in the field of preservation, working as the technical photographer at the Northeast Document Conservation Center duplicating historic negative collections. Mr. Puglia has been a consultant since 1987, focusing on the preservation of photographic materials, digital imaging technology, and digitization of cultural heritage collections.

Mr. Puglia began working at the US National Archives and Records Administration (NARA) in 1988, and holds the position of preservation and imaging specialist. He has conducted research on imaging and tone reproduction systems for the copying and duplication of



historic photographs and other types of records, using both photographic and digital imaging systems, and has worked to define specifications for preservation reformatting of records and collections. He is co-author of NARA's 2004 *Technical Guidelines for Digitizing Archival Materials for Electronic Access*.

Mr. Puglia helped establish the digital imaging lab in the special media preservation division at NARA and works to define approaches for large-scale digitization efforts and requirements for supporting IT infrastructure.

He has been a NARA representative on standards committees on image stability and permanence since 1988, including WG-5 Stability of Imaging Technology of ISO TC-42. He chaired Task Group 3 Stability of Color Imaging Materials for more than 10 years, and chaired subcommittee IT9-1 Stability of B&W Film previously. As a NARA representative to the Federal Agencies Digitization Guidelines Initiative, he participates on the Still Image Digitization Working Group.

Mr. Puglia has lectured extensively; he often presents at the "Preserving Photographs in a Digital World" workshop at the Eastman House and has been a member of the technical program committee for the Archiving Conference since its inception.

Raymond Bowman Award

established by the Tri-State Chapter, for excellence in imaging education to

GIORDANO BERETTA

for commitment and encouragement to young researchers pursuing careers in imaging science.

Giordano Beretta received his doctorate in computer science from ETH Zürich in 1984 and joined Xerox PARC that year. His research included color visualization algorithms for VLSI layout, a color management system, and a suite of color selection tools that allowed non-experts to design color palettes of high aesthetic quality. In 1990, he moved to Canon, where he was involved mainly in strategic planning and intellectual property management, while exercising his technical skills as Canon's technical advisor for color. Under the motto "quality color for the masses" he was instrumental for Canon's venture in low-cost color bubble jet printing, color scanning, and digital video.

Since 1994, Dr. Beretta has been at Hewlett-Packard Laboratories where he contributed to many projects, mostly related to color imaging or printing. He currently tweaks printer drivers for the GPU-RIP Print Services project. His skills as a speculative designer translated into a number of patents and articles in numerical mathematics, human-computer



interaction, computational geometry, design automation tools, color science, and image communication and encoding.

Dr. Beretta has taught short courses on color imaging and MPEG-21, and given numerous presentations in Austria, Canada, Italy, Japan, Mexico, Switzerland, and the US.

A strong believer in the social role of synergy and emergent properties, Dr. Beretta is a tireless promoter of young scientists and engineers, helping them in their first professional steps. He has organized successful sessions and conferences on color imaging, and was general symposium co-chair of the Electronic Imaging Symposium in 2000 and 2004.

Recently Dr. Beretta has fulfilled leadership roles and participated in governance bodies for governmental entities and professional societies in Italy, Japan, Switzerland, and the US. In these bodies, he has promoted scientific excellence in areas of major strategic importance for the future of research, the economy, and society. He has devoted particular attention to ethical behavior and the advancement of women in research.

Charles E. Ives/Journal Award

in recognition of the best engineering paper published in the Journal of Imaging Science and Technology the preceding year to

MASAHIRO YAMAGUCHI, HIDEAKI HANEISHI, AND NAGAAKI OHYAMA

for "Beyond Red-Green-Blue (RGB):
Spectrum-Based Color Imaging Technology,"
JIST, 52 #1, 010201-1 - 010201-15 (2008).

Masahiro Yamaguchi received a BS (1987) in applied physics, MEng (1989), and PhD (1994) in information processing from Tokyo Institute of Technology. He is currently an associate professor in Imaging Science and Engineering Laboratory, Tokyo Institute of Technology. From 1989 to 1996, he worked as a faculty research associate there. He was a visiting research scientist in the Department of Radiology, University of Arizona (1994-1995). From 1999 to 2006, he was a project sub-leader in Akasaka Natural Vision Research Center, Telecommunication Advancement Organization. His research interests are color and multispectral imaging, 3-D imaging and holography, medical image processing, and information systems engineering.

Hideaki Haneishi received his MS (1987) and PhD (1990) from Tokyo Institute of Technology. Since 1990, he has been working with the Department of Information and Computer Sciences at Chiba University. He was a visiting research scientist at the Department of Radiology, University of Arizona, from 1995-1996. He is currently a full professor at the Research



Masahiro Yamaguchi



Hideaki Haneishi



Nagaaki Ohyama

Center for Frontier Medical Engineering, Chiba University. His research interests include color image processing, image reconstruction, and medical image processing.

Nagaaki Ohyama obtained his PhD (1982) from the Department of Information Processing, Tokyo Institute of Technology after finishing his BS (1977) and MEng (1979) there. He is now a professor of the Imaging Science and Engineering Laboratory of Tokyo Tech. His research areas are optical information processing, image processing, smart IC card systems, and information systems. He is also a member of IT Strategic Headquarter and chairman of the CIO Assistant meeting in the Cabinet Office, Government of Japan.

Itek Award

for an outstanding original student publication in the field of imaging science and engineering to

SEO YOUNG CHOI, M. RONNIER LUO, MICHAEL R. POINTER, AND PETER A. RHODES

for “Investigation of Large Display Color Image Appearance I: Important Factors Affecting Perceived Quality” and “Investigation of Large Display Color Image Appearance II: The Influence of Surround Conditions,” *JIST* 52 #4 040904-1 – 040904-11 and 040905-1 – 040905-9 (2008).



Seo Young Choi



M. Ronnier Luo



Michael R. Pointer



Peter A. Rhodes

Seo Young Choi received her BS from Pusan National University and MS from KAIST (South-Korea) in chemistry. She worked at LG Display as a process engineer for LCD, then joined the PDP division of Samsung SDI as a product development engineer. She received her PhD (2008) from the Department of Colour Science at the University of Leeds, UK, and is currently involved in the development of new types of display and improving digital-signal workflow at SAIT in Samsung Electronics in Korea. She is a member of IS&T and SPIE.

Ronnier Luo is a professor in the Department of Colour Science, University of Leeds, UK. He received his BSc (1982) in fiber technology from the National Taiwan University of Science and Technology and PhD (1986) in color physics from the University of Bradford. He worked at Crosfield Electronics and the University of Derby before coming to Leeds.

He is currently the director of Division 1 (Vision and Colour) of the International Commission of Illumination (CIE), and a Fellow of IS&T and the Society of Dyers and Colourists. Dr. Luo will receive the latter's Gold Research Medal this year. He was also the recipient of their Centenary Medal, as well as the Royal Photographic Society's Davies Medal and Bartleson Research Award.

Michael R. Pointer received his PhD from Imperial College, London working with David Wright. He worked in the research division of Kodak Limited on fundamental issues of color science applied to the photographic system. After periods at the University of Westminster and the National Physical Laboratory, he is now a visiting professor at the University of Leeds and the University of the Arts, London, as well as a consultant. He has received the Fenton Medal, The Royal Photographic Society's award for services to the Society, and

a Silver Medal from the Society of Dyers and Colourists. He is a Fellow of the RPS and the Institute of Physics, Secretary of CIE Division 1 Vision & Colour, and UK associate editor of *Color Research & Application*.

Peter Rhodes was awarded a first class BSc honors degree in computing and subsequently a PhD for his thesis “Computer Mediated Colour Fidelity and Communication” from

Loughborough University of Technology. This work led to the development of ColourTalk, a computer-based system for colour specification and communication within the textile industry. At present, he is a Senior Research Fellow within the Department of Colour Science at the University of Leeds, where he is also the manager for its two MSc programmes.

Raymond Davis Scholarship

granted to an imaging science or engineering student for use in continuing graduate or undergraduate studies to

WEIDONG LAI

Born in Fengning, China, Weidong Lai received his BS (2001) and MS (2004) from Hebei University under the supervision of Prof. Xiaowei Li. His research focused on the photoelectron dynamic in laser exposed Silver Halide (AgX) microcrystals, especially the dye-sensitized AgX emulsion.



thermal sensitive dye-precursor interfused, the optical-thermal sensitive image function is achieved in the microcapsule cells, though the image density variance of 0.4 before and after UV exposure does not satisfy Mr. Lai, who wants to heighten the photopolymerization degree in the microcapsules.

As a student, Mr. Lai has an excellent academic record, as husband and father, he loves his wife and little daughter. For pleasure, Mr. Lai practices kung fu, the symbol of China, and reads the fiction of Charles Dickens; *David Copperfield* is his favor work. The maxim he works and lives by is a quote from Marie Curie: One never notices what has been done; one can only see what remains to be done.

Mr. Lai is now working on his PhD under the direction of Prof. Li, and has devoted himself to synthesize UV-irradiation responding microcapsules as the information recording cells. Based on his efforts, the core-shell structured microcapsules of sub-micrometer size have been prepared, in which the photopolymerization process is detected. With the

About IS&T's Honors and Awards Program

One of the principal privileges of a technical society is to seek out and cite those members whose work significantly contributes to the advancement of the discipline(s) represented by the society. Indeed, it is an obligation of a technical society to recognize distinction and diligence among practitioners. No greater accolade can come to a person than one awarded by their peers who know best the value of their contributions to the general good.

IS&T encourages all members of the Society to nominate colleagues and peers for appropriate awards. The deadline for nominations is October 15. Nominations are made through a simple online form. Please think about your fellow imaging scientists and nominate those who are deserving of an IS&T award.

Honors and Awards for a given year are determined by a committee, whose chair is appointed by the IS&T President and whose members come from the IS&T membership at large. Awards are given annually, although not every award is given each year.

IS&T Honors and Awards

The following is a list of Honors and Awards bestowed by the Society:

- Honorary Membership
- Fellowship
- Senior Membership
- Service Award
- Chester F. Carlson Award
- Johann Gutenberg Prize
- Edwin H. Land Medal (co-sponsored with OSA)
- HP Image Permanence Award
- Charles E. Ives Journal Award (best science or engineering paper in an IS&T journal)
- Itek Award (best student paper in an IS&T journal)
- Raymond C. Bowman Award
- Raymond Davis Scholarship

For more information about IS&T's Honors and Awards process, please visit www.imaging.org/membership/h_and_a/index.cf



imaging.org

Society for Imaging Science & Technology
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