

Society for Imaging Science & Technology

2011 HONORS AND AWARDS



imaging.org



April 2011

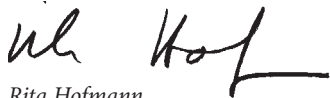
To acknowledge the accomplishments of colleagues for their contributions to imaging is one role of IS&T. It is my privilege as a president to announce this year's Honors & Awards recipients.

As in past years, some recognitions go to individuals that have been major contributors to the advancement of our knowledge of imaging science, technology, and education, while others are given for contributions to the Society and the leadership of some of its major events.

There are many deserving scientists, educators, and individuals among our ranks who have yet to be acknowledged. I encourage everyone to participate in the nomination process. We rely on members and others involved with IS&T programs to propose candidates from which our award committees select the recipients.

On behalf of IS&T, I would like to thank the chairs and members of our committees for their commitment and diligence in selecting the 2011 awardees.

Congratulations to those selected.



Rita Hofmann
IS&T President

2011 IS&T HONORS AND AWARDS COMMITTEE

Davis S. Weiss (University of Rochester), chair
Ramon Borrell (Xaar Technology Limited)
Nathan M. Moroney (Hewlett-Packard Company)
Hiroyuki Kawamoto (Waseda University)
Eric K. Zeise

2011 LAND MEDAL AWARD COMMITTEE

Peter D. Burns (consultant), chair
Daniel F. V. James (University of Toronto)
Annette B. Jaffe (Annette Jaffee Consulting)
John Meyer (retired, Hewlett-Packard Company)
Jannick P. Rolland (University of Rochester)
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

CHANG YEONG KIM

for his outstanding contributions to color imaging science, color image processing, and the development of LCD, DLP, and 3-D television systems.



Chang Yeong Kim is a senior vice president, Samsung Fellow, and director of the Future IT Research Center at Samsung Electronics, Samsung Advanced Institute of Technology (SAIT). He received a PhD (1996) in control engineering for a color consistency model based on human visual perception from the Korea Advanced Institute of Science and Technology (KAIST).

At SAIT Dr. Kim's research has focused on display, color image processing, 3D video processing, and the 3D user interface. He pioneered the development of color display technologies for both analog and digital television. Other innovations include a high-quality image processing technique for the Digital Natural Image Engine, Samsung's integrated image processor for digital television, and Low-Power Image Reproduction Technology and Ambient Light Adaptive Image Visibility Enhancement Technology, which

resulted in improved display visibility under high ambient-light conditions. Technologies developed by Dr. Kim have been implemented in many of Samsung Electronics' consumer products.

Dr. Kim has been the recipient of many recognitions from Samsung Electronics including

the Samsung Chairman's Technology Award Gold Prizes (1989, 2003, and 2006); the Global Samsung Best Paper Gold Award (2005 and 2009); the President's Commendation for Achievement in the Industry (2006); and the Samsung CEO's Commendation Gold Award for contributions to the development of a High Dynamic Range Imaging technology (2009). Dr. Kim received the Distinguished Paper Award (2010) at the SID International Symposium. An author on more 100 publications and an inventor on 47 US patents, Dr. Kim is a frequent participant at international conferences, presented an invited paper at EI 2006, and gave a keynote talk at AIC 2007. He also participated in standardization activities for MPEG-4, MPEG-7 and MPEG-21, MPEG Audio, MPEG-V, and MPEG 3DGC.

Senior Membership

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

MICHAEL H. BRILL

for many years of dedicated service to IS&T conferences as organizer, speaker, and short course instructor.

Michael Brill is a principal color scientist and science and technology manager at Datacolor in Lawrenceville, NJ. He received a BA in Physics from Case Western Reserve University (1969), an MS (1971) and PhD (1976) in Physics from Syracuse University, and did a post-doctoral year at MIT. Before joining Datacolor in 2003, he worked at Perception Technology Corporation; Solotest Corporation; JAYCOR; Science Applications International Corporation (SAIC); and Sarnoff Corporation. He also served as an editor for *Physics Today* from 2002-2003.

Dr. Brill has been involved with IS&T conferences at all levels for many decades. He served as chair of the 1990 Conference on Perceiving, Measuring, and Using Color; joint-chair of the 1991 SPIE/IS&T (then SPSE) Conference on Human Vision, Visual Processing, and Digital Display; and co-program chair (2004) and co-general chair (2005) of the IS&T/SID Color Imaging Conference (CIC). Since 1990, Dr. Brill has been on the technical review committee for the SPIE/IS&T conference on



Human Vision and Electronic Imaging and for CIC since 1995.

Dr. Brill has an outstanding record of 80 technical publications on topics including color and vision science, neurophysiological modeling, acoustics, computer vision, and mathematics. He holds 12 US patents; has given more than 50 formal presentations; and served as a paper referee for 40 technical and scientific journals. His involvement with IS&T began in 1980 with a paper at the SPSE sponsored Classified Symposium on Photographic Technology at the Institute for Defense Analysis. At CIC he has been a keynote speaker, given a number of papers, and taught courses.

Over the course of his career Dr. Brill has served in many leadership positions within professional associations and received many recognitions including: Sarnoff Achievement and Team Awards and a 2000 Emmy Award for Outstanding Technical Achievement for "Pioneering development of equipment to provide objective measurement of perceptible picture quality in digital television systems."

In addition to IS&T, Dr. Brill is a member of OSA, SID and ICSS.

IS&T Fellowship

for outstanding achievement in imaging science or engineering to

SANTOKH BADESHA

for outstanding research in the development of new materials for image generation devices.



Dr. Santokh S. Badesha joined Xerox Corporation in 1980 and is currently a Xerox Fellow and manager of Open Innovation in Xerox's Innovation Group in Webster, NY. He received his BS and MS with honors in chemistry from Punjab University, India; his PhD in organic chemistry from Punjab Agricultural University (1973) and a second PhD in organic chemistry from the University of East Anglia, UK (1976). Prior to joining Xerox, he was a Teaching Research Fellow at Rensselaer Polytechnic Institute in Troy, NY.

Dr. Badesha is the most prolific inventor in Xerox history with 174 US patents and numerous publications in the scientific literature. His research has involved the design of novel materials for image generation devices; he has held a leadership position in determining the direction and strategies for materials

research at Xerox. To this end he led cross-functional development efforts in high-performance materials for component design for marking subsystems.

Dr. Badesha is a Fellow of the Royal Society of Chemistry; was named a chartered scientist by the Science Council of UK; has received the Distinguished

Inventor of the Year Award from the Rochester Intellectual Property Law Association and was named chairman to the Board of the Center for Advanced Materials Processing at Clarkson University, where he received an Honorary Doctorate of Science (2007) for his contributions to science, technology, intellectual property, building academic and industrial partnerships, and helping shape research programs. In 2009, Dr. Badesha received the IS&T Chester F. Carlson Award. At Xerox he was inducted into the Xerox Innovation Group Hall of Fame and received the Chester Carlson Eagle Award, a Excellence in Management Award, and the Xerox President's Award among others.

IS&T Fellowship

for outstanding achievement in imaging science or engineering to

PETER BURNS

for significant research contributions in the field of image quality.

A native of Australia, Peter Burns received his BSc and MEng in electrical and computer engineering from Clarkson University, and PhD in imaging science from Rochester Institute of Technology (RIT). Dr. Burns was employed at Xerox Corporation from 1975-1982. In 1983, he joined Eastman Kodak Company where he was a principal scientist until 2007 when Kodak sold its Health Imaging division to form Carestream Health. At Carestream, Dr. Burns was project leader and principal scientist in the Research and Innovation Laboratories, where he had responsibility for medical and dental image processing development and prototyping. He recently left this position and is consulting on imaging performance evaluation and improvement for digital capture, mobile applications, and cultural institutions.

Dr. Burns' technical contributions have been



in the modeling, and evaluation of imaging performance, color error propagation, image microstructure analysis, and automated image quality tools. His work has resulted in 60 publications and nine US patents. He has been extremely active in IS&T, among other activities, serving two terms as Treasurer, and general chair for the PICS

Conference in 2002. He has taught courses on digital imaging at RIT, Kodak, and the Archiving Conference and Electronic Imaging Symposium. He was a technical editor for the recently published, *Manual of Photography* (Focal Press, 2011), and is currently editor of *The IS&T Reporter*.

In 2004, Dr. Burns received the Royal Photographic Society's Davies Medal for contributions to digital imaging. He was named an IEEE Senior Member in 2003, and in 2002 received the IS&T Service Award. In addition to IS&T, he is a member of IEEE and the Royal Photographic Society.

IS&T Fellowship

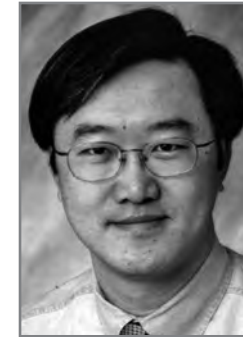
for outstanding achievement in imaging science or engineering to

GEORGE T.-C. CHIU

for innovative research in applying advanced system and control techniques to digital printing and imaging systems

George T.-C. Chiu has been a professor of mechanical engineering at Purdue University since 1996; prior to that he was a hardware design engineer at Hewlett-Packard Company. He received his BS in mechanical engineering from National Taiwan University, Taipei (1985) and MS and PhD in the same subject from the University of California at Berkeley (1990, 1994).

Dr. Chiu has made significant contributions to improve the quality, performance, and consistency of digital printing and imaging systems through rigorous system analysis and novel control techniques. He successfully demonstrated the use of integrated process control to reduce print artifacts and improve tone/color consistency in electrophotography. Recently, he also demonstrated the capability of using precise electrophotographic process control to embed information in printed images without perceived quality degradation. Dr. Chiu's work has impacted a wide range of imaging systems that include electrophotography, inkjet, document scanners, and scanning probe microscopy.



Dr. Chiu has an outstanding record of more than 150 publications in the form of technical papers, conference proceedings, and book chapters. He has received much recognition including the IEEE Transactions on Control Systems Technology Outstanding Paper Award (2010); the Purdue University College of Engineering Faculty Engagement/Service Excellence Award (2010) and Team Excellence Award (2006); the Ruth and Joel Spira Award (2004), the Teaching for Tomorrow Award (2000), and a Feddersen Fellowship (1996) from Purdue.

In addition to IS&T, Dr. Chiu is a member of the American Society of Mechanical Engineers (ASME) and IEEE. He has been an associate editor of the *Journal of Control Engineering Practice*, *Journal of Electronic Imaging*, and the ASME *Journal of Dynamic Systems, Measurement and Control*. In 2012 he will assume the editorship of the *Journal of Imaging Science and Technology*. As an active participant in NIP, he has been a program chair, panel moderator, and frequently chair of the "Printing Systems Engineering/ Optimization" Session.

IS&T Fellowship

for outstanding achievement in imaging science or engineering to

ERIC STELTER

for outstanding research in the field of electrophotographic development.

Eric Stelter joined Eastman Kodak Company in 1985 after receiving a PhD in physics from the University of Illinois. In 2011, he joined Lexmark International. Much of his research has emphasized a fundamental approach to understanding the physics of electrophotographic development and the complex interactions between the many subsystems in an electrophotographic printer. This research has led to improvements in several subsystems including development, transfer, and fusing as well as to new technologies for system-wide



improvements in both the electrophotographic process and in the quality of the final print. In addition, Dr. Stelter was instrumental in the successful development and commercialization of magnetic toner. He has leveraged his knowledge of how to control small particles into other fields such as powder coating and electrostatic transfer of phase-change inks. His research has resulted in 47 US patents and several publications.

Dr. Stelter has been very active at IS&T and has been a major contributor to the NIP conferences as speaker, member of the organizing committee, and general chair of NIP22 (2006). He is also a member of AAAS and the APS.

Service Award

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

SCOTT SILENCE

for contributions to the success of NIP, specifically looking for new approaches to enable the conference to expand and remain relevant for participants, as well as chairmanship of various areas of the meeting.



Scott Silence is Strategy Principal in the Xerox Innovations Group at the Xerox Corp., Webster, NY. He has a BS in chemistry (1986) and a MS in physical chemistry (1986) from the University of Chicago, a PhD in physical chemistry (1991) from the Massachusetts Institute of Technology, and an MBA (2007) from the Simon School of Business at the University of Rochester.

Dr. Silence is an inventor on 61 US patents, has 22 published research papers, and is a certified Green Belt, Design for Lean/Six Sigma.

He has been recognized as Top 10 Individual Innovator in the Rochester Area by the *Rochester Business Journal* (2001) and has received the Xerox-Team Recognition Award for Excellence in 1996 and 1997. In addition to IS&T, he is a member of the Optical Society of America and a lifetime member of Beta Gamma Sigma the International Honor Society of Business Scholars.

Dr. Silence was the sponsorship chair for NIP21, short course chair for NIP23, special papers program chair for NIP24, and Americas program chair for NIP25. He is currently the publications chair and will serve as general chair for NIP28. He has served in this wide variety of roles in a highly-professional manner with attention to detail. His efforts have contributed greatly to the success of NIP.

Chester F. Carlson Award

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

DINESH TYAGI

for his innovations and broad contributions to electrophotographic toner technology.

Dinesh Tyagi is an internationally renowned scientist whose research has greatly advanced electrophotographic technology. He received a PhD in chemical engineering from Virginia Tech (1985) before joining the Eastman Kodak Company. In 1999, Dr. Tyagi moved to NexPress Solutions (a joint-venture between Kodak and Heidelberg Druckmaschinen), before returning to Kodak in 2006 where he is a research associate. With his extensive knowledge of polymer chemistry, Dr. Tyagi has carried out groundbreaking research directed towards the development and commercialization of improved toners for electrophotographic printers. His work has resulted in 82 US patents and more than 30 publications. He has been a frequent organizer, instructor and presenter at NIP and other international conferences. Dr. Tyagi was inducted into Kodak Distinguished Inventors Gallery in 1995.



Significant contributions by Dr. Tyagi to the field of toner technology include the innovative development of the limited coalescence and evaporated limited coalescence processes for making small chemically-prepared toners having narrow size distributions; the effects of toner size and shape on tribocharging characteristics; cross-linkable toners; toners containing wax for oil-less fusing, surface treatment technologies; dispersion technologies for addenda such as pigment and waxes; overt and covert security toners; microwave fusible toners; large toners for dimensional imaging; liquid toners; and magnetic toners.

Dr. Tyagi is highly respected by colleagues in both industry and academia. He is described as not only a man of science and discovery, but also as an inventor, an innovator, and a mentor. Although focusing on materials and toners Dr. Tyagi always considers the broader picture of electrophotography taking into account the myriad complex interactions which are the key to successful commercialization.

Gutenberg Award

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

HELMET KIPPAN

for life-long contributions to conventional and non-impact printing technologies as demonstrated by his Editorship and as the main author of the Handbook of Print Media, considered the "bible" of printing technology, which is available in German, English, Russian, and Chinese.



Dr. Helmut Kipphan retired in 2007 as a senior vice president, Advanced and Future Technology, and chief scientist/chief technology advisor, at Heidelberg Druckmaschinen AG. For many years Dr. Kipphan was an enthusiastic front-row participant and tutorial instructor at NIP conferences. Though trained in conventional printing, he was deeply interested in emerging technologies.

Dr. Kipphan began his career as an apprentice toolmaker at Schnellpressenfabrik Heidelberg AG and later became a designer in the offset press department. He obtained numerous degrees, ending with Dr.-Ing. habil (1979) from the University of Karlsruhe (now Karlsruhe Institute of Technology-KIT).

At KIT he was a scientific assistant, lecturer, and professor before returning to Heidelberg (1978), where he has served as a research engineer; Research Department head; director for R&D; and senior vice president for technology and innovation research (1992). As director/senior

VP, he brought a true color measurement technique into the press room, influenced the design of the NexPress electrophotographic digital press, and was involved in the development of computer-to-plate and direct-imaging systems. He represented Heidelberg worldwide as a "technical ambassador," helping the company build up competences in NIP-technologies.

Besides IS&T, Dr. Kipphan is a member of many professional associations in which he has held many leadership positions. He is the inventor on more than 40 patents and the author of numerous publications, including the first text book in Spanish for digital and non-impact printing technologies.

Dr. Kipphan has received many recognitions including IS&T Fellowship (2004); appointed as a full member of the Heidelberg Academy of Sciences and Humanities (2002) and of the German Academy of Engineering and Sciences-acatech (2003); an Honorary Doctorate from Moscow State University of Printing Arts (2003); a TAGA Honors Award (2001); and Fellow of IARIGAI (2007). The TAGA Best Student Chapter receives the "TAGA Helmut Kipphan Cup," a challenge trophy.

Even in retirement, Dr. Kipphan continues to be active as teacher, speaker, author, reviewer, and expert consultant.

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

MARY LOU JEPSEN

for her visionary entrepreneurial and technical leadership of the One Laptop Per Child program to develop a rugged, low-cost educational computer for developing countries.



Dr. Jepsen is founder and CEO of Pixel Qi, a startup with operations in California and Taiwan.

Her firm is using a fab-less model to design and sell innovative LCD screens for volume production, with current designs delivering low-power consumption, and ability for use in any lighting condition. These screens are being made by some of the world's largest LCD makers and winning adoption in mobile devices, notebook computers, military hardware, sports gadgets, and digital signs.

In 2005, she co-founded One Laptop Per Child, where, as chief technology officer, she led systems architecture, screen design and industry partnerships for the "\$100 laptop—designing compact computers with exceptionally low power consumption, for use indoors and out. The outcome included bringing networked computers to millions of children in developing countries—and sparking the 'net-book' revolution.

Dr. Jepsen did leading work in the push to bring liquid crystal on silicon displays to market; she co-founded Microdisplay Corp. and was chief technology officer at Intel's Display division.

Her earlier work focused on immense displays—using the Moon as a TV screen and creating holograms the size of city blocks. Dr. Jepsen has degrees from Brown University and the MIT Media Lab. She has taught at RMIT, Melbourne, Australia, and at Kunsthochschule für Medien, Cologne, Germany. She pioneered holographic video at MIT.

Awards for her pioneering engineering work include the Anita Borg Women of Vision "Innovation" award in 2011 and *Time Magazine's* naming of her as one of the 100 most influential people in the world in 2008. The OLPC "\$100 laptop" is in the Museum of Modern Art in New York, and Pixel Qi screens have won widespread market and engineering acclaim.

Dr. Jepsen grew up in Hartford and New London, Connecticut where she and her family have decades-old connections to the family of Edwin Land.

President's Citation

given at the discretion of the IS&T President, in recognition of outstanding long-term contributions and dedication to the achievement of the Society's objectives. Nominations for this award do not go through the H&A committee, but are made directly to the IS&T President.

MEL SAHYUN

in recognition of outstanding contributions to the Society as editor of the Journal of Imaging Science and Technology



As a Fellow, Senior Member, and member of IS&T since 1970, as well as a Board member from 1996-1999, Mel Sahyun is a well-known and highly-respected member of the imaging science community.

While Dr. Sahyun has served the Society in a variety of capacities, for nearly 15 years—since 1997—he has been the editor of JIST, the Journal of Imaging Science and Technology. During his time as editor, JIST has transitioned from a journal focusing on advances in silver halide science to one focused on modern imaging, and all its encompassing topics. In addition, Dr Sahyun has mentored many new authors and spent countless hours insuring the high-quality of each published article. His dedication to the journal is much appreciated by authors and readers.

The Society recognizes him for maintaining the high scientific standards of JIST and his dedication to the Society.

Dr. Sahyun received his AB from the University of California, Santa Barbara and PhD in physical chemistry from UCLA. His career positions have included appointment in the US Public Health Service, a long career in the Corporate Research Laboratories of 3M, and an adjunct professorship at University of Wisconsin-Eau Claire. Research

interests include molecular photochemistry, spectroscopy, silver halide photography, electrophotography, and nanotechnology. He is currently a US representative to the International Committee on Imaging Science (ICIS).

Dr. Sahyun joined SPSE (later IS&T) in 1970 and is a Lifetime Member, Senior Member, and Fellow. He has also received the Society's Journal Award. Dr. Sahyun served IS&T in a variety of capacities including on many conference committees. He was the general chair of the 2004 AgX Conference and the 44th Annual Meeting, and the publications chair for the first Archiving Conference. Dr. Sahyun also served two terms as an IS&T vice-president with various committee assignments, which continue at present. Since 1997, he has been editor of IS&T's *Journal of Imaging Science and Technology*, after serving on the editorial boards of both its predecessor publications, the *Journal of Applied Photographic Engineering* and *Journal of Imaging Science*.

Raymond Bowman Award

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

SCOTT WILLIAMS

for dedication to a teaching philosophy which inspires students to become critical thinkers and effective communicators.

Scott Williams is associate professor in the School of Print Media at RIT. He received a BS (1984) from Purdue University in biochemistry and a PhD (1989) from Montana State University in physical chemistry. This was followed by post-doctoral work in pharmacology and work as a laser research specialist. He joined RIT in 1994 as an assistant professor in the Imaging and Photographic Technology Department. In 1998, he became director of R&D at Foto-Wear in Milford, PA, followed by an assistant professorship in the department of chemistry and chemical engineering at the South Dakota School of Mines and Technology, before returning to RIT in 2003. Since then he has also been a member of the faculty of the Advanced Residency Program in Photograph Conservation at the George Eastman House in Rochester, NY.

Dr. Williams received the Provost's Excellence in Teaching Award (1996) and Eisenhart



Excellence in Teaching Award (2008) from RIT. As he describes in an article in *RIT University News*, he had an epiphany during a student conversation in which he realized that "critical thinking and communication are not best shared via e-mail or PowerPoint. Relics of the past—a chalkboard and books—are still the most effective tools to connect with students." Observing that during lectures students were engaging in multiple electronic activities he "completely banned anything that had a battery in it" from his classroom, resulting in near perfect attendance and lively discussions.

In addition to being a dedicated teacher, Dr. Williams heads an active research program involving both undergraduate and graduate students. He has approximately 36 publications, inventor on 27 US patents, and authored the 20 Century Materials and Processes section of the book *Focal Encyclopedia of Photography*. He teaches courses in imaging materials, chemistry, and media law. In 2009, Dr. Williams was selected as the Flexographic Technical Association/Sun Chemical Corporation Research Fellow.

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

TUOMAS EEROLA, LASSE LENSU, HEIKKI KÄLVIÄINEN, JONI KAMARAINEN, TUOMAS LEISTI, GÖTE NYMAN, RAISA HALONEN, AND PIRKKO OITTINEN

for "Full Reference Printed Image Quality: Measurement Framework and Statistical Evaluation," *Journal of Imaging Science and Technology* 54(1) 010201-1-010201-13 (2010).

Tuomas Eerola received his MSc (Tech., 2006) and DSc (Tech., 2010) in information processing (Comp. Sc.) from Lappeenranta University of Technology (LUT), Lappeenranta, Finland. He is currently a post-doctoral researcher in the Machine Vision and Pattern Recognition Laboratory at LUT. His research interests include digital image processing, pattern recognition and image quality assessment.

Lasse Lensu is an associate professor of computer science at LUT where he received his MSc (1991) in data communications and LicSc (2001) and DSc (2002) in computer science. He received the title of docent in 2009. His research interests include biomolecular computing, especially applications of

photoactive proteins, computational vision, and digital imaging and image processing applications. Lensu has been involved also in the information processing industry, technology transfer between academic institutions and companies, and several research projects.



Tuomas Eerola



Lasse Lensu



Heikki Kälviäinen



Joni Kamarainen



Tuomas Leisti



Göte Nyman



Raisa Halonen



Pirkko Oittinen

Heikki Kälviäinen received his MSc (1989) and PhD (1994) in computer science from LUT. Since 1996, he has been a professor of computer science. Currently he is Head of the Department of Information Technology and Head of the Machine Vision and Pattern Recognition Research Group. His primary research interests are machine vision, pattern recognition, and image processing and image analysis. He belongs to the governing board of IAPR, and he is a member of ACM, IEEE, and SPIE.

Joni Kamarainen received his MSc (1999) and DSc (2003) in information processing from LUT. He is a founding member and vice director of the LUT Machine Vision and Pattern Recognition Laboratory, where he was appointed professor of information society technologies in 2008. His research interests include computer vision, image analysis, and pattern recognition. He is a chairman of Pattern Recognition Society of Finland and a member of IAPR.

Tuomo Leisti received his MA in psychology from the Univ. of Helsinki (2005). Since 2001, he has studied subjective visual quality in different contexts, such as magazines, digital prints, and digital photographs. Since 2010, he has been pursuing a PhD in visual quality perception. His research interest is to integrate subjective quality experience and cognition with existing approaches to visual quality.

Göte Nyman received his PhD (1983) from UH where he is a professor of Psychology and

leads the Psychology of Evolving Media and Technology research group. His interests include vision and image quality, quality experience, psychology of the virtual, and HCI. He is a long-time member of the Finnish Pattern Recognition Society.

Raisa Halonen received her MSc in graphic arts technology from Helsinki University of Technology (2008). Since 2006 she has worked in the Visual Media Research Group at the Department of Media Technology, today part of Aalto University School of Science. Her research interests include computational and visual evaluation of image quality, especially high-level quality criteria of complex images. Currently, she is pursuing a PhD in media technology with a focus on the multifaceted visual experience of photographs.

Pirkko Oittinen Dr.Sci (Eng) is a full professor at Helsinki University of Technology in the Dept. of Media Technology, part of Aalto University School of Science. Her Visual Media research group has the mission of advancing visual technologies and raising the quality of visual information to create enhanced user experiences in different usage contexts. The research approach is constructive and exploratory; the activities look at cross disciplinary boundaries. Current research topics include still image, video and 3D image quality, content repurposing for mobile platforms, and media experience arising from human-media interaction.

Itek Award

in recognition of the best student publication in an IS&T journal the preceding year to

HECTOR SANTOS-VILLALOBOS, HYUNG J. PARK, ROY KUMONTOY, KAINLU LOW, MARIA ORTIZ, JAN ALLEBACH, CHULWOO KIM, PILSUNG CHOE, SUGANI LEMAN, KRISTEN OLDENBURGER, MARK LEHTO, AND XINRAN LEHTO

for "Web-Based Diagnosis Tool for Customers to Self-Solve Print Quality Issues," *Journal of Imaging Science and Technology* 54(4) 040503-1-040503-13 (2010).

Hector Santos-Vilalobos is a Post Doctoral Fellow at Oak Ridge National Laboratory. He received his BS (2003) and MS (2005) in computer engineering from the University of Puerto Rico Mayaguez Campus, and his PhD in electrical and computer engineering from Purdue University (2010). His research interests include neutron imaging, biomedical imaging, pattern recognition, and machine learning.

Hyung Jun Park received his Ph.D. in Electrical and Computer Engineering from Purdue University (2009). His current research interests include image quality improvement.

Roy Kumontoy, who is originally from Indonesia, entered Purdue University in 2001 and earned a BSEE (2005) and MSEE (2007). In his spare time he can be found reading materials from comics to financial news.

Kainlu Low received his BS (2005) and MS (2007) in electrical engineering from Purdue University.

Maria Ortiz Segovia is a PhD candidate at Purdue University. Her research interests include color imaging and printer forensics.

Jan Allebach is Hewlett-Packard Distinguished Professor of electrical and computer engineering at Purdue University. He is a Fellow of IEEE, IS&T, and SPIE, and an Honorary Member of IS&T.

Chulwoo Kim received his BS and MS from POSTECH and PhD from Purdue. He currently works at User Experience R&D Group, Samsung Electronics.

Pilsung Choe is an associate professor of the Department of Industrial Engineering at Tsinghua University. He earned his PhD from Purdue University.

Sugani Leman is a regional operation engineering manager with FedEx. He graduated with a BSc and MSc in industrial engineering from Purdue.

Kristen Oldenburger is a consultant and product manager focusing on airlines. She has a BS and MS from Purdue University, and a MBA from MIT.

Mark Lehto and his students have worked closely with several organizations to develop computer-based methods and interfaces for decision support. This work includes a project funded by Hewlett-Packard Company that resulted in the development of a self-help website for users of laser printers that is now in use with thousands of hits daily.

Xinran Lehto is an associate professor of hospitality and tourism management at Purdue University. Dr. Lehto's research centers on marketing communication strategies.

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 1. 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 <http://www.imaging.org/ist/membership/honors.cfm>



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