

2023 SID Honors and Awards



Presented
May 2023

Foreword

One of the central goals of our Society is to inspire the scientific, literary, and educational advancements of information displays, and the associated arts and sciences.

Through our Honors and Awards Program, we recognize and celebrate those individuals who have contributed such major advancements to the display industry. These contributions span specific technological and scientific advances, outstanding educational achievements, and notable service to the industry.

Deciding the most deserving recipients for the various awards is no easy task. Each year, the Honors and Awards Committee accepts the challenge of selecting and recommending recipients to the Executive Board for their approval. The Committee worked hard to maintain the highest standards in selecting the individuals being honored this year. On behalf of the society, I extend my deepest gratitude to my colleagues on the committee for all the tremendous dedication they have shown throughout this selection process.

Finally, hearty congratulations to each of this year's award recipients. Your efforts and innovation have brought recognition to yourselves, your organizations, and to the Society. It is an honor for us to present these awards to you.

Achin Bhowmik
SID President

Honors and Awards Committee

Toshiaki Arai

Ingrid Heynderickx

Haruhiko Okumura

Jun Souk

Andrew Watson

Paul Drzaic, chair

Yong-Seog Kim

Marja Salmimaa

Robert Visser

Deng-ke Yang

Mike Hack

HS Kwok

Han-Ping (David) Shieh

Bao-Ping Wang

2023 Honors and Awards

Karl Ferdinand Braun Prize

Hideo Hosono, Toshio Kamiya, and Kenji Nomura

David Sarnoff Industrial Achievement Prize

Jason Hartlove

Jan Rajchman Prize

Tsuyoshi Sekitani

Peter Brody Prize

Weiran Cao

Slottow-Owaki Prize

Xiao Wei Sun

Otto Schade Prize

Helge Seetzen, Greg Ward, and Lorne Whitehead

Lewis and Beatrice Winner Award

Helge Seetzen

Fellows of the SID

Hyun-Chul Choi

Seth Coe-Sullivan

Mutsumi Kimura

Jiun-Haw Lee

Man Wong

Special Recognition Awards

Soo Young Choi

Gunther Haas

Yue Kuo

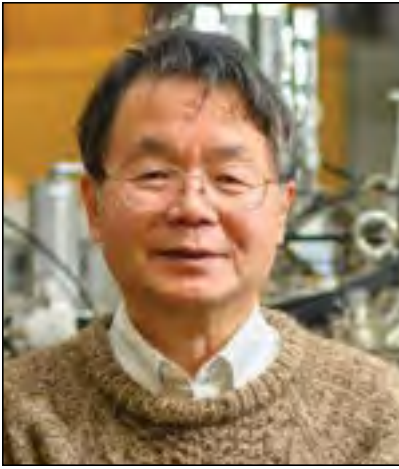
Cheng-Chung Lee

Joohyung Lee

Bo-Ru (Paul) Yang

KARL FERDINAND BRAUN PRIZE

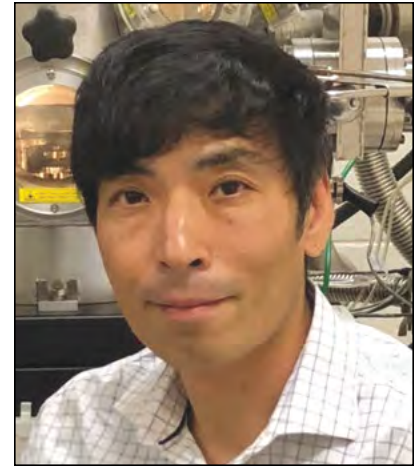
The Karl Ferdinand Braun Prize is awarded for outstanding technical achievement, which has also had substantial impact on the display industry. The Braun award is SID's most prestigious individual award, honoring those people who have pioneered the technologies underpinning commercial displays. Each recipient of the Karl Ferdinand Braun Prize receives a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Hideo Hosono



Toshio Kamiya



Kenji Nomura

For their outstanding academic and industrial leadership in high-mobility amorphous oxide semiconductor technology, including pioneering work in materials, the development of high-quality FPDs incorporating a-IGZO TFTs, and sustained scientific and technical contributions to the society.

Hideo Hosono is an honorary and institute professor at the Tokyo Institute of Technology, and a distinguished fellow and group leader at the National Institute for Materials Science. Hosono received a PhD from Tokyo Metropolitan University in chemistry and became a professor at Tokyo Tech in 1999. Hosono has received a Special Recognition Award and the Jan Rajchman Prize from SID and was named an SID Fellow in 2016.

Toshio Kamiya is a professor at the Institute for Innovative Research and director of the MDX Research Center for Element Strategy, International Research Frontiers Initiative, at the Tokyo Institute of Technology. He received his PhD in engineering at Tokyo Institute of Technology in 1996. He received an SID Special Recognition Award in 2015.

Kenji Nomura is an associate professor of electrical and computer engineering at the University of California, San Diego (UCSD), where he leads the oxide semiconductor material and device laboratory. He received his PhD in material science engineering from the Tokyo Institute of Technology.

Hideo Hosono, Toshio Kamiya, and Kenji Nomura invented, demonstrated, and developed a-IGZO TFTs, causing tremendous breakthroughs in flat-panel technology. In 1996, Hosono proposed an original design concept for amorphous oxide semiconductors (AOSs) with large electron mobility. He also selected a promising combination of cations (In-Ga-Zn) with insights into their capabilities. Kamiya and Nomura played a major development role in elucidating electronic structures, including defects and tail states and their effects on TFT performance. After Hosono, Kamiya, and Nomura reported high-mobility crystalline IGZO-TFTs in *Science* in 2003, they published a milestone paper in *Nature* in 2004 describing TFTs with an a-IGZO channel that exhibits approximately 10 times higher mobility than a-Si:H.

DAVID SARNOFF INDUSTRIAL ACHIEVEMENT PRIZE

The David Sarnoff Industrial Achievement Prize is conferred for major impact on the business of the electronic display industry. The Sarnoff award is not targeting technical achievement but honors those people whose achievements have shaped the current electronic display industry. Each recipient of the David Sarnoff Industrial Achievement Prize receives a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Jason Hartlove

For his leadership in the development and large-scale commercial application of quantum-dot materials in electronic displays.

Jason Hartlove is an innovative technology executive who has been bringing billion-unit-selling optoelectronic products to market for 35 years. Currently CEO of Nanosys, he pioneered the use of quantum-dot technology in displays, introducing Quantum Dot Enhancement Film (QDEF) in the Amazon Kindle Fire HDX in 2013. Since then, over 1,000 products using QDEF have come to market from nearly every major CE and IT brand, with over 60 million devices sold ranging from virtual-reality headsets to 110-in. televisions. He continues to lead Nanosys in pioneering quantum-dot technology, winning multiple industry innovation awards, including SID's 2022 Display Industry Component of the Year Award for xQDEF, which makes quantum-dot color and efficiency available to entry-level display products. Prior to Nanosys, Hartlove developed dozens of optoelectronic products for Hewlett-Packard, Agilent Technologies, and MagnaChip Semiconductor, including as the co-inventor of the optical mouse. Jason is an inventor on 89 issued and published US patents. He received his degree in electrical engineering from the University of California at Los Angeles.

JAN RAJCHMAN PRIZE

The Jan Rajchman Prize is awarded for outstanding scientific or technical contributions to electronic display technology. This award is open to academic achievement, in addition to notable technology developments that are recognized as groundbreaking in their field. Each recipient of the Jan Rajchman Prize receives a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Tsuyoshi Sekitani

For his pioneering research into flexible electronic devices, with fundamental contributions in organic electronics and transistors, plastic integrated circuits, and sensors for large-area and medical applications, as well as wearable and implantable electronics.

Tsuyoshi Sekitani, a professor at the Institute of Scientific and Industrial Research (SANKEN), is a leading researcher in the development of stretchable, highly conductive materials and flexible organic TFTs. By integrating these materials with organic thin-film LEDs, he realized the first highly stretchable (nearly 100 percent) active-matrix flat-panel display—increasing the range of applications in displays to curved surfaces and movable objects. Sekitani has reported pioneering research results on ultraflexible and stretchable electronic devices in 11 SID presentations, including five Display Week invited talks, two Display Week seminars, two Japan Chapter invited talks, one European Chapter invited talk, and one Display Week contributed talk. He was awarded the title of Osaka University Distinguished Professor in 2017. Sekitani is a member of the Cabinet Office Expert Council of the Japanese Government, director of the Engineering Academy of Japan (EAJ), and chairperson of the Young Researcher Committee of EAJ. He is currently an editor for *ACS Nano*, the premier international journal in nanoscience and nanotechnology. In addition, he is the founder and director of PGV Inc., a medical device company. His work has been published in more than 100 international journals and he has received “Highly Cited Researchers” recognition from Thomson Reuters in 2014 and Clarivate Analytics in 2018. He received a PhD in applied physics from the Graduate School of Engineering at the University of Tokyo.

PETER BRODY PRIZE

The Peter Brody Prize is awarded to young researchers and engineers (under age 40) who have made major technical or scientific contributions to electronic display technology. The Peter Brody Prize comes with a stipend of \$5,000 sponsored by Dr. Fang-Chen Luo, a medallion, and a bound certificate.



Weiran Cao

For his contributions to the development of OLED/QLED (QD-EL) displays with inkjet printing technology.

In 2019, **Weiran Cao** joined TCL China Star Optoelectronics Technology Co., Ltd., where he now leads the development of inkjet printing technology for the mass production of OLED/QLED displays. He and his team successfully developed red and green QLEDs that met the requirements of display applications, developing several advanced prototypes with inkjet printing technology, including the 16.9-in. rollable display and the world's first 65-in. 8K OLED TV. Cao is currently the vice director of the IJP-OLED development center and the chief scientist of the quantum-dot display team at TCL Research. He received his PhD in materials science and engineering from University of Florida in 2013. From 2015 to 2018, he focused on the research of quantum dots and electroluminescence devices (QLEDs) at TCL Research. He has more than 40 journal and conference publications and more than 300 grant/pending patents. He currently serves as a committee member of SID's Beijing Chapter.

SLOTTOW–OWAKI PRIZE

The Slottow-Owaki Prize is awarded for outstanding contributions to the education and training of students, and/or professionals, in the field of electronic displays. Slottow-Owaki Prize comes with a stipend of \$5,000 sponsored by Fujitsu, Ltd., and Dr. Tsutae Shinoda, a medallion, and a bound certificate.



Xiao Wei Sun

For his sustained training of students and professionals for the flat-panel display industry in China and Southeast Asia.

Xiao Wei Sun's primary research interest is in the field of optoelectronic materials and devices for light-emission and display applications. Over the years, he has trained more than 40 Ph.D. students in Singapore and China in these areas. Sun is the executive dean of the Institute of Nanoscience and Applications, and chair professor and founding head of the Department of Electrical and Electronic Engineering of the Southern University of Science and Technology (SUSTech), Shenzhen, China. Before joining SUSTech, he was a full professor at Nanyang Technological University, Singapore. Sun was awarded the title of Honorary Doctor of the Belarusian State University of Informatics and Radioelectronics (BSUIR) in 2021. He was named a fellow of SID in 2011. He is also the fellow of several academic societies including SID, Optica (formerly OSA), SPIE, and Institute of Physics (UK), and an Academician of the Asia-Pacific Academy of Materials. Sun has authored more than 600 peer-reviewed journal publications with an H-index of 81. He is an Elsevier Highly Cited Scholar.

OTTO SCHADE PRIZE

The Otto Schade Prize is awarded for outstanding scientific or technical achievement in the image quality of electronic displays. This award recognizes vision scientists, human factor engineers, and those engineers whose efforts have led to major improvements in the visual quality of electronic displays. Each recipient of the Otto Schade Prize receives a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Helge Seetzen



Greg Ward



Lorne Whitehead

For their pioneering work in exploring perceptual issues for the development of high-dynamic-range imaging in electronic displays.

Helge Seetzen is the CEO of TandemLaunch, a venture foundry that has created over 30 companies around university inventions. He previously served as president of the Society for Information Display and general chair of Display Week.

Greg Ward is on the senior research staff of Dolby Laboratories, and also consults with the Lawrence Berkeley National Lab and a handful of startups. He specializes in lighting and day-light simulation, color image science, human vision, and displays.

Lorne Whitehead is a professor in the Department of Physics at the University of British Columbia, and he serves as UBC's special advisor on innovation. His research focuses on applied physics, energy efficiency, color, illumination, and information display.

The recipients' collaboration began at University of British Columbia in 2000, when they dreamt of practical rendering of lifelike high-dynamic-range (HDR) images. They conceived of new ways to hybridize display optics and developed practical demonstrations, based on their pioneering observations of human visual perception of HDR stimuli. They demonstrated these concepts within the display industry, leading to increasing commercial interest. They subsequently contributed to numerous related technological advances in HDR hardware and the HDR imaging pipeline, which eventually led to today's widespread use of excellent HDR imaging in photography, television, and motion pictures.

LEWIS AND BEATRICE WINNER AWARD

The Lewis and Beatrice Winner Award is conferred for exceptional and sustained service to SID. The Lewis and Beatrice Winner Award comes with a stipend of \$5,000 sponsored by SID and a plaque.



Helge Seetzen

For sustained service to the society and its governance.

Helge Seetzen is a serial multi-media technology entrepreneur with deep experience in the university tech-transfer space. As CEO and managing partner of startup foundry TandemLaunch, he has worked with driven entrepreneurs to turn research from over 50 of the world's best universities into 30+ technology companies. Prior to TandemLaunch, Seetzen co-founded Bright-Side Technologies to bring high-dynamic-range (HDR) imaging and display technology to market. After a successful sale of the company to Dolby Labs, HDR technology is today found in hundreds of millions of TVs, phones, and streaming solutions. He has a PhD in interdisciplinary imaging systems from the University of British Columbia and holds over 80 patents in the fields of display, camera, and video technology. Seetzen has served the Society for Information Display in a wide range of roles including president and general chair of Display Week. During his tenure he championed governance reform for the Society, the creation of forward-looking sub-committees and vice chairs for the Display Week Symposium, the transition of all SID publications to a new publishing partner, and a broad financial overhaul of the Society, resulting in sustained surplus operations for over a decade so far.

SID FELLOWS

The membership grade of Fellow is awarded to an SID member who has made outstanding and widely recognized engineering or scientific contributions to the display field. The number of SID Fellow awards each year is limited to a small fraction of Society membership, and is approved by the SID Board of Directors.

Hyun-Chul Choi

For his leadership in the development of long lifetime, highly efficient OLED displays with a novel tandem structure that led to the success of OLED TV and automotive displays, and for the commercialization of IPS technology for TV and high-performance IT products.



Hyun-Chul Choi, a senior vice president and head of the small display business group at LG Display, has dedicated his career to commercializing revolutionary technology, thus contributing to the growth of the display industry with the introduction of a variety of advanced products. From 2016 to 2021, as the head of the company's Foundation Technology Laboratory, Choi made significant contributions to the commercialization of TV, IT, and automotive OLED, through enhancing their lifespans by developing new OLED devices such as the tandem OLED and the deuterium OLED. Earlier, beginning in 1994, he started the development of IPS technology at LG Display. Through 2016, he further contributed to the LCD field during his tenures as the head of LCD divisions developing various high-end IT and large TV displays using IPS technology. Choi holds a PhD in chemistry from the Korea Advanced Institute of Technology (KAIST).

Seth Coe-Sullivan

For his pioneering contribution to quantum-dot based technologies and holographic film in displays.



Seth Coe-Sullivan is co-founder, board member, chief executive officer, and president of NS Nanotech, Inc. a spin-out of the University of Michigan and McGill University. NS Nanotech is a world leader in nanowire microLEDs for displays and for disinfection. From 2016 to 2019, Coe-Sullivan was chief technology officer of Luminet LLC, where his team launched the world's first volume holographic combiner product for augmented-reality displays. From 2004 to 2016, he was co-founder, member of the board of directors, and chief technology officer of QD Vision, which was acquired by Samsung. He also currently advises several start-up companies in their early technology development phases. Coe-Sullivan received his PhD in electrical engineering from the Massachusetts Institute of Technology, and an ScB from Brown University. He has received numerous awards for technology and innovation in the fields of displays, quantum dots, and environmental health and safety, including the MIT Tech Review's TR25 Award, the SEMI Award for North America, the Presidential Green Chemistry Award, and SID's Peter Brody Prize.

Mutsumi Kimura

For his pioneering work in developing and characterizing thin-film transistors (TFTs), such as low-temperature poly-Si (LTPS) TFTs and amorphous metal-oxide (AOS) TFTs, as well as his pioneering development of active-matrix organic light-emitting diode displays (AMOLEDs).



Mutsumi Kimura is well known for his sophisticated characterization of TFTs and his pioneering developments in AMOLEDs. Many of his advancements have become standard technologies in mass production, making it possible to apply LTPS-TFTs, AOS-TFTs and AMOLEDs to smartphones and televisions. Kimura received a PhD in electrical and electronic engineering from Tokyo University of Agriculture and Technology in 2001, and a PhD in information science from Nara Institute of Science and Technology in 2018. He joined Matsushita Electric Industrial Co., Ltd., in 1991 and Seiko Epson Corp. in 1995. He is currently a professor at Ryukoku University as well as an affiliate professor at Nara Institute of Science and Technology. He is a frequent presenter at Display Week, IDW, and other international conferences sponsored by SID, and has contributed to SID's Japan Chapter as a chair and to IDW as a general and program chair. His current research interests include brain-type integrated systems, neural networks, and thin-film device applications.

Jiun-Haw Lee

For his outstanding contribution to the science and technology of OLED displays and especially for improvements in the efficiency and lifetime of blue triplet-triplet annihilation and phosphorescent OLEDs.



Jiun-Haw Lee is currently a distinguished professor with the Graduate Institute of Photonics and Optoelectronics and Department of Electrical Engineering at National Taiwan University (NTU). He also serves as the associate vice president for international affairs and deputy director of the AUO-NTU Joint Research Center at NTU. Since joining NTU as a faculty member in 2003, he has focused on OLED research for boosting device efficiency and operation lifetime, especially blue triplet-triplet annihilation, and phosphorescent OLED. From 2000–2003, Lee worked at RiTdisplay Corporation, a major passive-matrix OLED manufacturer. Lee received a PhD in electrical engineering from NTU. He has published one book, two invited book chapters, more than 130 referred journal articles, more than 400 conference papers, and more than 80 patents. He is a member of SID's Asian Committee and served as editor in chief for *JSID* from 2018 to 2022.

Man Wong

For his major contributions to the field of thin-film transistors (TFTs) and active-matrix devices, including metal-oxide TFT and low-temperature polycrystalline silicon TFT, and for his invention of elevated-metal metal-oxide TFTs and of fluorination of the channel that greatly improves the lifetime of such TFTs.



Man Wong's research interests include micro-fabrication technology, device structure and material; physics and technology of thin-film transistors; and modeling and implementation of integrated microsystems. He obtained his BS and MS degrees from the Massachusetts Institute of Technology, and his PhD from Stanford University, all in electrical engineering. After working for a few years at the Semiconductor Process and Design Center of Texas Instruments, he joined the Department of Electronic and Computer Engineering at the Hong Kong University of Science and Technology. He is a member of the technical program committee for SID's International Symposium (Display Week) and an Associate Editor of the *Journal of the Society for Information Display*. He received SID's Slottow-Owaki Prize in 2021.

SPECIAL RECOGNITION AWARDS

Special Recognition Awards are conferred to members of the technical and scientific community for distinguished and valued contributions to the field of electronic displays. Unlike other SID individual awards, SID membership is not a prerequisite for a Special Recognition Award.

Soo Young Choi

For the development from R&D to manufacturing of thin-film equipment and processes for the production of flat-panel displays, specifically for the development of thin-film encapsulation of OLEDs, and for development of special films used for backplane technologies including α -Si, LTPS, and LTPO panels.



Soo Young (SY) Choi is the appointed vice president of the Thin Films Group for R&D Device and Process Technology in the display and flexible technology group at Applied Materials. He leads a global team of R&D, device integration, and key account technologists and global process support engineering for chemical vapor deposition (CVD) and physical vapor deposition (PVD) products. Choi joined Applied Materials in 1996 and has held R&D, technology development, and management positions of increasing responsibility, leading process technology innovation for new CVD products over a number of generations, including the latest Gen 10.5 for display applications in TFT LCD and OLED, and Gen 8.5 for thin-film solar applications. As a thin-films processing expert, his innovations in large-area CVD technology have been instrumental to Applied's display leadership and commercial success. In 2022 he was named an Applied Materials Fellow for outstanding technical contributions that have been vital to the company's success. Prior to joining the company, Choi was briefly at Samsung as associate researcher. He received a Master's in material science from Yonsei University and holds 401 granted patents, including 120 U.S. issued patents in the field of PECVD hardware, thin-film processes, and device technologies. Two of his patents were recognized with Applied's prestigious Patent Hall of Fame Awards as key industry enablers that have translated into sustainable competitive advantage and commercial success.

Gunther Haas

For his outstanding work on developing and commercializing high-performance OLED microdisplays fabricated on silicon backplanes that enabled important innovations in products for both commercial and professional applications.



Gunther Haas is one of the two founders of MICROOLED and its CTO. He has over 30 years of experience in R&D management, business development, and transfer from R&D to production, gained at different companies (Bosch, Thomson, start-ups), from very large to very small, in Germany and in France. He started and led Thomson OLED activity from 2001 to 2006, which laid the initial technical foundation for MICROOLED. He is (co-) inventor of numerous patents in the field of displays and sensors and has presented invited papers at different international conferences. He also serves as a project reviewer for the European Commission for various projects in the framework of the FP5, FP6, FP7, Horizon-2020, and SME-instruments program. Haas has a PhD in electrical and electronic engineering from Karlsruhe Institute of Technology (KIT) in Germany.

Yue Kuo

For outstanding contributions to thin-film transistor research and development, especially for manufacturing large-area backplate arrays for liquid-crystal displays, and for his impact on industry and engineering education.



Yue Kuo is currently Nesbitt Professor at Texas A&M University, where his research is focused on advancing solid-state science and technology through solving long-term production problems and developing new devices and processes for flat-panel displays, integrated circuits, and light-emitting devices. Kuo received his BS from National Taiwan University and MS and Dr. Eng. Sci. degrees from Columbia University. Before taking the faculty position in 1998, he spent two decades in the industry, including at IBM T. J. Watson Research Center at Yorktown Heights, NY, and Data General Semiconductor Division in Silicon Valley. Kuo has received a number of awards from professional societies, universities, industry, and governments, globally.

Cheng-Chung Lee

For his outstanding contributions to the development and commercialization of flexible displays, smart display systems with AR function, fan-out panel-level packages, and flexible hybrid electronics technologies.



Cheng-Chung Lee is deputy general director of Electronics and Optoelectronics System Research Laboratories for the Industrial Technology Research Institute (ITRI) and secretary general of the Taiwan Display Union Association (TDUA). He has more than 25 years of R&D experience in process, device, module, and system integration. He holds a PhD in material science and engineering from National Chiao Tung University. Lee has published more than 20 papers journals and conferences and has more than 100 patents relating to display technologies.

Joohyung Lee

For his contributions to the development of LCD/OLED panel-driving and integrated touch technologies, and to the development of flicker-free OLED display products with LTPO backplane and on-cell touch.



Joohyung Lee is currently a corporate executive VP at Samsung Display Co., Ltd., where he is head of the mobile display development center, leading the development of OLED display technologies and products for mobile, IT, and automotive applications. He received his BS and MS degrees in electrical and electronic engineering from Pohang University of Science and Technology in Korea. He then joined Samsung Electronics Co., Ltd., in 1993, where he studied the fabrication processes of LTPS thin-film transistors. While working for the company, he was awarded a Samsung Scholarship and received his PhD in electrical and electronic engineering from the University of Madison, Wisconsin in 2003. He moved to Samsung Mobile Display in 2009 and then to Samsung Display Co. in 2013, where he developed OLED/LCD panel-driving and integrated touch technologies and various OLED/LCD display products using oxide, LTPS, and LTPO technologies.

Bo-Ru (Paul) Yang

For his outstanding contributions to e-Paper technology development, production, and education, and for breakthrough inventions for color e-Paper.



Bo-Ru (Paul) Yang's research interests are in e-paper/flexible/wearable displays. He worked with SiPix (later merged with E Ink) from 2009 to 2012, where he participated in the production of high-performance and color e-paper. He joined Sun Yat-Sen University in Guangzhou, China, in 2012. Yang has won several research awards, including a Distinguished Paper Award from SID in 2016 and 2022 and the Best of IDW in 2019. He has also served as an associate editor of *JSID* since 2015, as the chair of Display Week's E-Paper and Flexible Display Committee in 2017, seminar chair in 2020 and 2021, and program chair for Display Week in 2023. He received a Presidential Citation from SID in 2021 and SID China Special Contribution Awards in 2021 and 2022. Recently, he published a book, *E-Paper Displays*, in the SID-Wiley Display Series, serving as editor and contributing author.

SID Honors and Awards

KARL FERDINAND BRAUN PRIZE

The Karl Ferdinand Braun award is awarded for outstanding technical achievement, which has also had substantial impact on the display industry. The Braun award is SID's most prestigious individual award, honoring those people who have pioneered the technologies underpinning commercial displays.

1987	T. Peter Brody	2003	Tsutae Shinoda
1988	Toshio Inoguchi	2004	Shuji Nakamura
1989	Norman F. Fyler	2005	William P. Bleha
1989	Harold B. Law	2006	Christopher N. King
1989	Edward G. Ramberg	2008	Richard Williams
1989	Alfred C. Schroeder	2010	Frederic Kahn
1990	Akio Ohkoshi	2011	Rudolf Eidenschink
1991	Kentaro Kiyozumi	2012	Jun Souk
1991	Tadashi Nakamura	2013	Isamu Akasaki
1992	Martin Schadt	2014	Katsumi Kondo
1993	William E. Glenn	2015	Junji Kido
1993	William E. Good	2016	Ho Kyoon Chung
1993	Thomas T. True	2017	Hiroyuki Ohshima
1995	Eiichi Yamazaki	2018	Hidefumi Yoshida
1996	George W. Gray	2019	Amal Ghosh
1997	Isamu Washizuka	2020	Julie Brown
1998	Cyril Hilsun	2021	Sungchul Kim
1999	Larry J. Hornbeck	2022	Wei Chen
2000	Larry F. Weber	2022	John Zhong

DAVID SARNOFF INDUSTRIAL ACHIEVEMENT PRIZE

The David Sarnoff Industrial Achievement Award is conferred for major impact on the business of the electronic display industry. The Sarnoff Award is not targeting technical achievement but honors those people whose achievements have shaped the current electronic display industry.

2018	Sang Wan Lee	2021	Tomson Li Dongsheng
2019	Dongsheng Wang	2022	SangDeog Yeo
2020	Paul Peng		

JAN RAJCHMAN PRIZE

The Jan Rajchman Prize is awarded for outstanding scientific or technical contributions to electronic display technology. This award is open to academic achievement, in addition to notable technology developments that are recognized as groundbreaking in their field.

1993	Terry J. Scheffer	2008	Shin-Tson Wu
1994	Peter G. LeComber	2009	Peter Raynes
1995	Shunsuke Kobayashi	2010	Dwight Berreman
1996	Robert Meyer	2011	Hideo Hosono
1996	Capp Spindt	2012	Tetsuo Tsutsui
1998	J. William Doane	2013	Marc Baldo
2001	Ching W. Tang	2014	Dirk J. Broer
2001	Steve Van Slyke	2015	Shohei Naemura
2003	Webster E. Howard	2016	Seung Hee Lee
2004	Tatsuo Uchida	2017	Shui-Chih Alan Lien
2005	Donal Bradley	2018	Pochi Yeh
2005	Jeremy H. Burroughes	2019	Hoi-Sing Kwok
2005	Richard Friend	2020	Paul Alivisatos and Moungi Bawendi
2006	Stephen R. Forrest		
2006	Mark E. Thompson	2021	Karl Leo
2007	Shigeo Mikoshiba	2022	Jin Jang

PETER BRODY PRIZE

The Peter Brody Prize is awarded to young researchers and engineers (under age 40) who have made major technical or scientific contributions to electronic display technology.

2017	Yi-Pai Huang	2020	Zhaojun Liu
2018	Seth Coe-Sullivan	2021	Hiromi Minemawari
2019	Hsing-Hung Hsieh	2022	Keisuke Ide

SLOTTOW-OWAKI PRIZE

The Slottow-Owaki Prize is awarded for outstanding contributions to the education and training of students, and/or professionals, in the field of electronic displays.

2007	J. William Doane	2015	Jin Jang
2008	Tatsuo Uchida	2016	Shunsuke Kobayashi
2009	Ernst Lueder	2017	Deng-Ke Yang
2010	Philip Bos	2018	Vladimir Chigrinov
2011	Shin-Tson Wu	2019	Chain-Shu Hsu
2012	Lawrence E. Tannas, Jr.	2020	Edward F. Kelley
2013	Hoi-Sing Kwok	2021	Man Wong
2014	Han-Ping Shieh	2022	Hiroyoshi Naito

OTTO SCHADE PRIZE

The Otto Schade Prize is awarded for outstanding scientific or technical achievement in the image quality of electronic displays. This award recognizes vision scientists, human factor engineers, and those engineers whose efforts have led to major improvements in the visual quality of electronic displays.

2006	Curtis R. Carson	2014	Candice Brown Elliott
2006	Roger Cohen	2015	Ingrid Heynderickx
2007	Andrew B. Watson	2016	Nikhil Balram
2008	Louis D. Silverstein	2017	Martin S. Banks
2010	Eli Peli	2020	Yoshifumi Shimodaira
2011	Scott Daly	2021	Mark D. Fairchild
2012	Adi Abileah	2022	Taiichiro Kurita

LEWIS AND BEATRICE WINNER AWARD

The Lewis and Beatrice Winner Award is conferred for exceptional and sustained service to SID.

1983	Bernard J. Lechner	2003	Shunsuke Kobayashi
1984	Lewis Winner	2004	Jay Morreale
1985	Solomon Sherr	2006	Aris Silzars
1987	Harold R. Luxenberg	2007	Andras Lakatos
1988	Irving Reingold	2009	Peter Baron
1989	Ifay F. Chang	2010	Makoto Maeda
1990	Koichi Miyaji	2012	Webster E. Howard
1991	John van Raalte	2013	Shigeo Mikoshiba
1992	Masakazu Fukushima	2014	Jennifer Bach
1993	Lawrence E. Tannas, Jr.	2015	Allan Kmetz
1994	Howard L. Funk	2016	Anthony C. Lowe
1995	Walter F. Goede	2017	Kenneth I. Werner
1996	Takehiro Kojima	2020	Brian Berkeley
1998	Chuji Suzuki	2021	Larry F. Weber
1999	Philip M. Heyman	2022	Sriram Peruvemba
2002	Alan Sobel		

FRANCES RICE DARNE MEMORIAL AWARD

The Frances Rice Darne Memorial Award, discontinued in 1987, was awarded occasionally to a Society member for an outstanding technical achievement (other than teaching, publication or service) or contribution to the display field. The award was made by the SID Executive Board.

1971	Bernard J. Lechner	1979	Sam H. Kaplan
1973	H. Gene Slottow	1980	James C. Greeson, Jr.
1974	Norman H. Lehrer	1981	Jan A. Rajchman
1975	Harold B. Law	1984	George E. Holz
1976	Cecil E. Land	1984	James A. Ogle
1977	Vernon J. Fowler	1985	Peter Pleshko
1978	Irving Reingold	1986	James L. Ferguson

JOHANN GUTENBERG PRIZE

The Johann Gutenberg Prize is awarded for an outstanding TECHNICAL achievement in, or contribution to, printer technology. The award is made by the Executive Board acting on the recommendation of the Honors and Awards Committee and carries a stipend of US \$2000.

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1988	C. Hellmuth Hertz	1998	Donald Titterington
1989	Shigehisa Nakaya	1999	Dan A. Hays
1990	Albert S. Chow	2000	Seung Ho Baek
1990	Richard H. Darling	2000	Charles DeBoer
1991	Ichiro Endo	2001	Minoru Usui
1991	John L. Vaught	2002	Robert W. G. Hunt
1992	Richard A. Fotland	2004	Masaki Kutsukake
1993	Robert W. Gundlach	2005	Josef Schneider
1994	Akito Iwamoto	2006	Michio Shinozaki
1995	Hiroaki Kotera	2007	Jeffrey J. Folkins

FELLOWS OF THE SID

1963	Ruth M. Davis	1984	Werner E. Haas
1963	James H. Howard	1984	P. Andrew Penz
1964	Anthony Debons	1985	C. J. Gerritsma
1965	Rudolph L. Kuehn	1985	Allan R. Kmetz
1966	Edith Bardain	1986	Tomio Wada
1966	William P. Bethke	1986	Paul M. Alt
1966	Carlo P. Crocetti	1986	Roger L. Johnson
1966	Frances R. Darne	1987	Andras I. Lakatos
1966	Harold R. Luxenberg	1987	Shunsuke Kobayashi
1966	Petro Vlahos	1987	Omesh Sahni
1967	William R. Aiken	1988	Dwight W. Berreman
1967	Sid Deutsch	1988	Akio Sasaki
1967	George Dorion	1988	Heiju Uchiike
1967	Solomon Sherr	1989	Takehiro Kojima
1968	Fordyce M. Brown	1989	Larry F. Weber
1968	Robert C. Carpenter	1989	Zvi Yaniv
1968	Phillip P. Damon	1990	Eiji Kaneko
1969	James H. Redman	1990	Christopher N. King
1969	Carl Machover	1990	Harry L. Snyder
1969	Louis M. Seeberger	1991	Masami Yoshiyama
1970	Leo Beiser	1992	Walter F. Goede
1970	Nobuo John Koda	1992	Fang-Chen Luo
1970	Bernard J. Lechner	1992	Iwao Ohishi
1970	Harry H. Poole	1992	Martin Schadt
1971	Benjamin Kazan	1993	Peter G.J. Barten
1971	Harold B. Law	1993	Makoto Ikegaki
1972	Pierce W. Siglin	1993	Chuji Suzuki
1973	Irving Reingold	1994	Masakazu Fukushima
1974	Vernon J. Fowler	1994	Edward P. Raynes
1974	Charles P. Halsted	1994	Tatsuo Uchida
1974	Edwin H. Hiborn	1995	Hsing-Yao Chen
1974	George Holz	1995	Hiroo Hori
1974	Albert Loshin	1995	Shigeo Mikoshiba
1975	Lucien M. Biberman	1996	Carlo Infante
1975	William E. Good	1996	Hideaki Kawakami
1975	H. Gene Slottow	1966	Alan G. Knapp
1976	Sanai Mito	1996	Chizuka Tani
1976	Dalton Pritchard	1997	Günter Baur
1976	Gerald K. Slocum	1997	James Ferguson
1977	Thomas C. Maloney	1997	Louis D. Silverstein
1977	Koichi Miyaji	1997	Eiichi Yamazaki
1977	William H. Ninke	1998	Fumiaki Funada
1977	John A. van Raalte	1998	William Glenn
1978	Ifay F. Chang	1998	Ernst Lüeder
1978	Gentaro Miyazaki	1998	Shinji Morozumi
1978	Peter Pleshko	1998	P. Neil Yocum
1979	Aron Vecht	1999	Makoto Maeda
1980	Cecil E. Land	1999	Shoichi Matsumoto
1980	Masanobu Wada	1999	Terry J. Scheffer
1981	Frederic J. Kahn	1999	Tsutae Shinoda
1981	Elliott Schlam	2000	J. William Doane
1981	Alan Sobel	2000	Setsuo Kaneko
1982	Jay J. Brandinger	2000	Hiroyuki Ohshima
1982	John M. Constantine	2000	Seyno A. Sluyterman
1982	Peter D. T. Ngo	2001	Shoji Shirai
1983	Yoshifumi Amano	2001	Takeo Sugiura
1983	T. Peter Brody	2001	Shosaku Tanaka
1983	Webster E. Howard	2001	Shin-Tson Wu
1983	Lawrence E. Tannas, Jr.	2001	Kei-Hsiung Yang
1984	Thomas L. Credelle	2002	Philip J. Bos

2002	Daniel den Engelsen	2012	Nikhil Balram
2002	Nobuki Ibaraki	2012	Brian Berkeley
2002	Shohei Naemura	2012	Ho Kyoon Chung
2002	Ching W. Tang	2012	Oh-Kyong Kwon
2003	William P. Bleha	2012	Hiap L. Ong
2003	Shui-Chih Alan Lien	2013	Kalil Kälántär
2003	Eli Peli	2013	Hiroyuki Mori
2003	Gary K. Starkweather	2013	Gopalan (Raj) Rajeswaran
2003	Edward H. Stupp	2013	Takatoshi Tsujimura
2003	I-Wei Wu	2013	Baoping Wang
2004	Jean-Pierre Boeuf	2014	Chihaya Adachi
2004	Arlie Richard Conner	2014	Victor Belyaev
2004	Katsumi Kondo	2014	Janglin Chen
2004	Anthony C. Lowe	2014	Yong-Seog Kim
2004	Masataka Matsuura	2014	Taichiro Kurita
2004	Kouji Suzuki	2015	Anne Chiang
2005	Adi Abileah	2015	Ryuichi Murai
2005	Gregory P. Crawford	2015	Fuji Okumura
2005	Paul S. Drzaic	2015	John Wager
2005	Hoi-Sing Kwok	2015	Hidefumi Yoshida
2005	Hiroshi Murakami	2016	Achintya K. Bhowmik
2005	Han-Ping Shieh	2016	Hideo Hosono
2006	Chin Hsin (Fred) Chen	2016	In Byeong Kang
2006	Willem den Boer	2016	Changhee Lee
2006	Jin Jang	2016	Chung-Chih Wu
2006	Tsunehiko Sugawara	2017	Toshiaki Arai
2006	Steven A. Van Slyke	2017	Hyun Jae Kim
2006	Ki-Woong Whang	2017	Sin-Doo Lee
2007	Michael Hack	2017	Sang-Hee Ko Park
2007	Myung Hwan Oh	2017	Qun (Frank) Yan
2007	Kenji Okamoto	2018	Steven Bathiche
2007	Kalluri Sarma	2018	Mary Lou Jepsen
2007	Yoshifumi Shimodaira	2018	Ioannis Kymissis
2007	Deng-Ke Yang	2018	Seok-Lyul Lee
2008	Vladimir Chigrinov	2018	Qiong-Hua Wang
2008	Ingrid Heynderickx	2019	Shihchang (James) Chang
2008	Christo Hosokawa	2019	Yi-Pai Huang
2008	Junji Kido	2019	Poopathy Karthirgamanathan
2008	Seung Hee Lee	2019	Sungchul Kim
2008	Richard McCartney	2019	Tomokazu Shiga
2009	Amal Ghosh	2020	Takahiro Ishinabe
2009	Min Koo Han	2020	ByoungHo Lee
2009	Sang Soo Kim	2020	Franky So
2009	Jun Souk	2020	Michael Weaver
2009	Sashiro Uemura	2020	Robert J. Visser
2009	John Zhong	2021	Kazumasa Nomoto
2010	Wei Chen	2021	Po-Tsun Liu
2010	Edward F. Kelly	2021	Jang Hyuk Kwon
2010	Haruhiko Okumura	2021	Kenichiro Masaoka
2010	Roger Stewart	2021	François Templier
2010	Andrew Watson	2022	Cheng Chen
2011	Julie J. Brown	2022	Ruiqing Ma
2011	In-Jae Chung	2022	Arokia Nathan
2011	Yoichi Sato	2022	Ian Underwood
2011	Sung Tae Shin	2022	Xiaolin Yan
2011	Xiao Wei Sun		

SPECIAL RECOGNITION AWARDS

1972	Malcolm L. Ritchie	1994	Shigeo Aoki
1972	Solomon Sherr	1994	Guy Hill
1974	William E. Good	1994	Rikusei Kohara
1974	Herbert C. Hendrickson	1994	Hiroshi Murakami
1974	Kenichi Owaki	1994	Hiroshi Suzuki
1974	Ivan Sutherland	1994	Bunji Uchida
1974	Andries van Dam	1995	Masaya Hijikigawa
1975	Joseph E. Bryden	1995	Tsunekiyo Iwakawa
1975	George H. Heilmeier	1995	Yasuhisa Oana
1975	Peter Seats	1995	Hiroyuki Ohshima
1975	Otto H. Schade, Sr.	1995	Takeo Sugiura
1975	Donald A. Shurtleff	1995	Satoshi Okazaki
1975	T. Peter Brody	1995	Larry F. Weber
1976	Joseph Markin	1995	Zu-Kai Wu
1976	Albert Rose	1996	Thomas S. Buzak
1976	Aron Vecht	1996	Michel Le Contellec
1977	Gerald Marie	1996	Makoto Maeda
1977	Solomon Sherr	1996	François Morin
1977	Beatrice & Lewis Winner	1996	Shuji Nakamura
1978	Leo Beiser	1996	Richard Thoman
1978	C. J. Gerritsma	1997	Atsuo Fukuda
1978	Benjamin Kazan	1997	Richard E. Holmes
1979	Donald L. Bitzer	1997	Shuji Iwata
1979	Tony N. Criscimagna	1997	Hisao Nakanishi
1979	Tadashi Nakamura	1997	Bernhard Scheuble
1979	Peter D. T. Ngo	1997	Shoji Shirai
1980	Paul M. Alt	1997	Georg Weber
1980	Philip M. Heyman	1998	Katsumi Kondo
1981	William B. Pennebaker	1998	Rudolph Kiefer
1982	Larry F. Weber	1998	Keiji Nunomura
1983	Toshio Inoguchi	1998	Tokuhide Shimojo
1983	Henry Marcy	1998	Hiroshi Wada
1983	Chuji Suzuki	1999	John C. C. Fan
1983	Omesh Sahni	1999	Yasuyuki Gotoh
1984	Koichiro Kurahashi	1999	Kenji Okamoto
1986	Masakazu Fukushima	1999	Kouji Suzuki
1986	Eiichi Yamazaki	1999	Yasumasa Takeuchi
1987	Dwight W. Berreman	1999	Malcolm Thompson
1987	Eiji Kaneko	2000	Joseph A. Castellano
1987	Jurgen Nehring	2000	Nobuki Ibaraki
1987	E. Peter Raynes	2000	Shohei Naemura
1987	Martin Schadt	2000	Tsunehiko Sugawara
1987	Terry J. Scheffer	2000	Teruo Thoma
1988	Shinji Morozumi	2000	Shin-Tson Wu
1988	Tatsuo Uchida	2001	Hiroyoshi Fukuro
1989	Noel A. Clark	2001	Tadatsugu Hirose
1989	Sven T. Lagerwall	2001	Yukinobu Iguchi
1989	Robert B. Meyer	2001	Daphne Lamport
1990	Robert C. Durbeck	2001	Cheng-Yuan Lin
1990	Fang-Chen Luo	2001	Susumu Sakamoto
1991	Hiroo Hori	2002	Tei Iki
1991	Shigeo Mikoshiba	2002	Junji Kido
1992	Harold A. Ketchum	2002	Taiichiro Kurita
1992	Karel E. Kuijk	2002	Soichiro Okuda
1992	Masanori Watanabe	2002	Yoichi Sato
1992	Kinzo Nonomura	2002	Yoshifumi Shimodaira
1993	Birendra Bahadur	2002	Sashiro Uemura
1993	Jacques L. Deschamps	2003	Amalkumar P. Ghosh
1993	Takashi Inukai	2003	Paul E. Gulick
1993	Hideomi Ohnishi	2003	Jin Jang
1993	Shosaku Tanaka	2003	Noboru Miura
1993	Tsuta Shinoda	2003	Terence J. Nelson

2003	Michael D. Wand	2012	Janglin Chen
2004	Hsuan Bin Chen	2012	Hyang Yul Kim
2004	George W. Dick	2012	Seung-Hee Lee
2004	Toshihiro Komaki	2012	Seok-Lyul Lee
2004	Robin Merrifield	2012	Tapani Levola
2004	Louis D. Silverstein	2012	Shigeaki Mitzuhima
2004	Haruhiko Okumura	2012	Masayuki Sugawara
2004	Dan J. Schott	2013	Keiji Ishii
2005	Keiichi Betsui	2013	In-Byeong Kang
2005	Satish Kumar Kaura	2013	Isao Kawahara
2005	Thierry Leroux	2013	Ryuichi Murai
2005	Hiap L. Ong	2013	Qun (Frank) Yan
2005	Gerrit Oversluizen	2013	Hidefumi Yoshida
2005	Tomokazu Shiga	2013	Takehiro Zukawa
2005	Deng-Ke Yang	2014	Mark Bradley Spitzer
2006	Hideki Asada	2014	Hyun Jae Kim
2006	Ho-Kyoon Chung	2014	Zenichiro Hara
2006	Joseph M. Jacobson	2014	Changhee Lee
2006	Yoshikazu Kanazawa	2015	Toshio Kamiya
2006	Edward F. Kelley	2015	Byeongkoo Kim
2006	Jun Souk	2015	Yasuhiro Koike
2006	Hirofumi Wakemoto	2015	ByoungHo Lee
2007	In-Jae Chung	2015	Jun Ho Song
2007	Alex Henzen	2015	Ahihiro Tagaya
2007	Kalil Kälántär	2015	Shunpei Yamazaki
2007	Sang Soo Kim	2016	Jongseo Lee
2007	Walter Riess	2016	Chang Ho Oh
2007	Takatoshi Tsujimura	2016	Tetsuo Urabe
2007	John A. Rupp	2016	Robert J. Visser
2007	Koichi Sakita	2016	Emi Yamamoto
2007	Marko M. G. Slusarczuk	2017	Masaki Hasegawa
2008	Kimio Amemiya	2017	Jang Hyuk (Jeremy) Kwon
2008	Alan Jacobsen	2017	Raymond Kwong
2008	Sungkyoo Lim	2017	Kenichiro Masaoka
2008	Hiroyuki Mori	2018	Jae-Hoon Kim
2008	Kiyoshi Yoneda	2018	Hisahiro Sasabe
2009	Byung-Chul Ahn	2018	Yasushi Tomioka and Noboru
2009	Peter Bocko		Kunimatsu
2009	Hideo Hosono	2018	Katsuhide Uchino
2009	Gary Jones	2019	Chiwoo Kim
2009	Hirotsugu Kikuchi	2019	Jinoh Kwag
2009	Temkar Ruckmongathan	2019	Seung-Woo Lee
2010	Kenji Awamoto	2019	Xiaogang Peng
2010	Joyce Farrell	2019	Soo-Young Yoon
2010	Hiroki Hamada	2020	Takuji Hatakeyama
2010	Manabu Ishimoto	2020	Yun-Li Li
2010	Michio Kitamura	2020	David Slobodin
2010	James Larimer	2021	Mamoru Furuta
2010	Ryuichi Murai	2021	Gosuke Ohashi
2010	Helge Seetzen	2021	Yukiharu Uraoka
2010	Tsutae Shinoda	2021	Xue Dong
2010	Greg Ward	2022	Yongtaek Hong
2010	Lorne Whitehead	2022	Chi-Sun Hwang
2011	Hyun Chul Choi	2022	Kentaro Okuyama
2011	Tier Gu	2022	Hisato Yabuta
2011	Takahiro Ishinabe	2022	Guofu Zhou
2011	Kyeong Hyeon Kim		
2011	Oh-Kyong Kwon		
2011	Ravilsetty Padmanabha Rao		
2011	Jun Someya		

