

2022 SID Honors and Awards



Presented
May 2022

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 all 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	Paul Drzaic, chair	Michael Hack
Ingrid Heynderickx	Yong-Seog Kim	HS Kwok
Richard McCartney	Haruhiko Okumura	Marja Salmimaa
Han-Ping (David) Shieh	Jun Souk	Robert Visser
Bao-Ping Wang	Andrew Watson	Deng-ke Yang

2022 Honors and Awards

Karl Ferdinand Braun Prize

Wei Chen and John Zhong

David Sarnoff Industrial Achievement Prize

SangDeog Yeo

Jan Rajchman Prize

Jin Jang

Peter Brody Prize

Keisuke Ide

Slottow-Owaki Prize

Hiroyoshi Naito

Otto Schade Prize

Taiichiro Kurita

Lewis and Beatrice Winner Award

Sriram Peruvemba

Fellows of the SID

Cheng Chen

Ruiqing Ma

Arokia Nathan

Ian Underwood

Xiaolin Yan

Special Recognition Awards

Yongtaek Hong

Chi-Sun Hwang

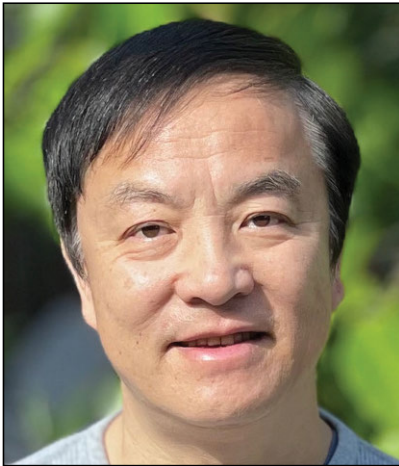
Kentaro Okuyama

Hisato Yabuta

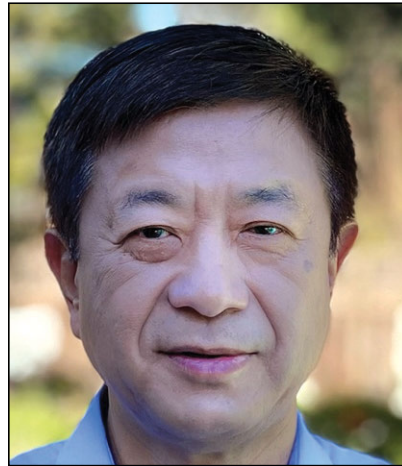
Guofu Zhou

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. Each recipient of the Karl Ferdinand Braun Prize receives a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Wei Chen



John Zhong

For their exceptional leadership and technical contributions in driving innovation in displays for the consumer electronics industry, especially for computers, mobile phones, electronic tablets, and smart watches.

Wei Chen is vice president of display technologies at Apple. He received his Ph.D. in physics from University of California, Berkeley, in 1990, and joined Apple in 1993 as a senior display technologist. He was named a SID Fellow in 2010.

John Z. Zhong is vice president of panel, process & optics, part of display technologies at Apple. He obtained his Ph.D. in physics from Case Western Reserve University in 1993. Zhong joined Apple in 1998 as a senior display engineer. He was named a SID Fellow in 2009.

Since 1998, Chen and Zhong have partnered together in leading the Apple display teams to drive innovations in displays, including the wide-format desktop and notebook displays, CCFL to LED transition for LCD backlight, and the Multi-Touch display in iPhone. The introduction of the Retina display in iPhone 4 significantly raised the bar for display performance. More recent innovations include the edge-to-edge, full-faced displays starting with iPhone X, variable refresh rate displays up to 120 Hz with improved energy efficiency by incorporating the metal oxide TFT and LTPO, and miniLED array backlight for high-dynamic-range (HDR) displays in iPad and MacBook. Under the leadership of Chen and Zhong, the Apple display teams have successfully demonstrated the critical role display technologies play in enabling innovative consumer electronics products.

DAVID SARNOFF INDUSTRIAL ACHIEVEMENT PRIZE

The David Sarnoff Industrial Achievement Prize is conferred for major impact on the business of the electronic display industry, honoring those people whose leadership has shaped the current industry. The David Sarnoff Industrial Achievement Prize comes with a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



SangDeog Yeo

For his outstanding contributions to the development of large-scale commercialization technology for large OLED displays used in TV applications, and for high-resolution LCD panels for mobile applications.

SangDeog (Eddie) Yeo has worked in the display industry longer than 40 years. He is one of the few leaders in the display industry whose career has spanned CRT, LCD, and OLED. Yeo studied at Kyungpook National University, where he earned his B.S degree in electronics engineering before joining LG Electronics as a TV engineer in 1979. During his time at LG Display, he has served as CTO and business leader for its TV and mobile divisions, and as president of its OLED division. Notably, as chief marketing officer in 2017, he suggested how the TV market might be developed based on OLED technology. In that same year, he held the position of president of KIDS (Korean Information Display Society). Under his leadership, the display industry has grown rapidly over the last 20 years, with innovative display technologies and new business areas. Yeo is especially devoted to collaborating with industrial partners, including material/component suppliers and TV/IT/mobile/automobile manufacturers, resulting in a more productive and sustainable eco-system for the entire display industry. Besides his notable achievements in the commercialization of large LCD/OLED displays for TV applications and retina display panels in IPS, he has contributed to the all-in-one CRT monitor, the masterpiece of CRT monitors, for Apple's iMac G3, as well as to the development of IPS LCD and OLED for automobiles and OLED for smart watches. He currently serves as an advisory officer at LG Display.

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. The Jan Rajchman Prize comes with a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Jin Jang

For his many contributions to the advancement of novel thin-film transistor (TFT) technologies, and pioneering application of TFTs in AMOLED, AMLCD, microLED, and flexible displays.

Jin Jang is a professor with the department of information display at Kyung Hee University. He is the author or co-author of over 1,000 papers, of which more than 600 are in SCI Journals such as *Nature*, *Advanced Functional Materials*, *IEEE EDL*, *APL*, and *Advanced Materials*. Jang reported the first full-color AMLCD, flexible AMOLED, and full-color AMOLED with white OLED at SID's Display Week conference. He is currently working on oxide, LTPS, and LTPO-TFT arrays for flexible AMOLED, AM microLED, and AM-TFT sensors. Jang is a director of the Advanced Display Research Center (ADRC) at Kyung Hee University and has served as general chair of IMID and Display Week. He was named a Fellow of the SID in 2006.

PETER BRODY PRIZE

The Peter Brody Prize is awarded to researchers and engineers under the age of 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.



Keisuke Ide

For his pioneering research on defect analysis of amorphous oxide semiconductor (AOS) and developments of novel active-matrix displays using IGZO.

Keisuke Ide is an assistant professor at the Laboratory for Materials and Structures at Tokyo Institute of Technology, Japan. His research interests include the development of functional inorganic material and thin-film devices; physics and modeling of thin-film devices; and semiconductor process technology. From 2012 to 2014, he worked for Sharp Corporation and was engaged in the research and development of oxide semiconductors for the backplanes of flat-panel displays. He received the Young Researcher Award from the Electro-Chemical Society Japan Section in AM-FPD '16 and the Young Scientist Presentation Award from the Japan Society of Applied Physics in 2018 for his contributions to defect research on amorphous oxide semiconductors. Ide received his B.S. degree in electronics and communication engineering from Meiji University in 2010, and his M.S. and Ph.D. in material science from Tokyo Institute of Technology in 2012 and 2017, respectively.

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. The Slottow-Owaki Prize comes with a stipend of \$5,000 sponsored by Fujitsu, Ltd., and Dr. Tsutae Shinoda, a medallion, and a bound certificate.



Hiroyoshi Naito

For his contributions to the education of graduate and undergraduate students and research professionals in display material characterization and display device physics.

Hiroyoshi Naito is a professor and director of the department of physics and electronics at Osaka Prefecture University. He is the author of more than 300 refereed journals and the book *Organic Semiconductors for Optoelectronics*, which serves as a reference to the fundamentals of theoretical and experimental advances in organic semiconductors for display devices. Naito was an editor of *Applied Physics Express* (APEX) and the *Japanese Journal of Applied Physics* (JJAP) for nine years and received the 2010 APEX/JJAP editorial contribution award from the Japan Society of Applied Physics (JSAP). He received the 2010 Outstanding Achievement Award from the Japan OLED forum for his contributions to the electronic characterization of OLEDs by impedance spectroscopy. In 2017, he received the Society Award from the Imaging Society of Japan (ISJ) for his contributions to the development of electronic characterization methods for imaging devices and pioneering research on imaging device physics; he was named a Fellow of the ISJ in 2014. Naito also received the 2019 Outstanding Achievement Award from the Molecular Electronics and Bioelectronics (MBE) Division of the JSAP for his contributions to the development of pioneering characterization methods for organic semiconducting and liquid-crystalline devices, and for his fostering of young researchers to promote the activities of the MBE Division. He was named a Fellow of the JSAP in 2018 for his contributions to the development of electronic characterization methods of organic semiconductors based on impedance spectroscopy and device physics of organic semiconducting devices. Naito received his B.S. and M.S. degrees in electrical engineering and his Ph.D. in electronic engineering from Osaka Prefecture University.

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. The Otto Schade Prize comes with a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Taiichiro Kurita

For his outstanding achievements in characterizing and dramatically improving the moving-image quality of active-matrix displays and video systems, and enabling the introduction of ever higher display resolution for flat-panel televisions.

Taiichiro Kurita has developed various image-quality improvement methods, high-quality systems, and displays, including the image-processing system in the world's first HDTV PDP for the 1998 Nagano Winter Olympic Games, from NHK and Panasonic. Kurita joined NHK (Japan Broadcasting Corporation) in 1980. From 1982 to 2014, he worked at NHK Science and Technology Research Laboratories, researching the image quality of television systems and electronic displays, and the relevant signal processing. From 2014 to 2020, he was an executive engineer at NHK Technologies Inc., a subcompany of NHK. Currently, he is a senior adviser for NHK Technologies. Kurita was chair of the Technical Group on Information Display for the Institute of Image Information and Television Engineers, Japan (ITE), from 2005 to 2009. He was chair of the Workshop on Applied Vision and Human Factors for the International Display Workshops (IDW) from 2011 to 2015. Kurita received a Special Recognition Award and the title of Fellow from SID, in 2002 and 2014, respectively. He also received an Achievement Award and the title of Fellow from ITE, in 2008 and 2013, respectively. In 2009, he received a Commendation for Technology Development from the Governor of Tokyo. He was also the recipient of the Kobayashi-Uchiike-Mikoshiba Prize from IDW in 2020. Kurita completed his B.S., M.S., and Ph.D. degrees in electrical engineering at Keio University, Japan, earning his doctorate in 1991.

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.



Sriram Peruvemba

For his service as chair of marketing for SID, and his leadership of the Bay Area Chapter for SID, and other SID leadership roles, leading to substantial increases in SID membership and public engagement.

Sri Peruvemba is CEO of Marketer International, Inc., in California. Peruvemba was previously chief marketing officer for E Ink Holdings, where he played a major role in transforming the startup to a \$1 billion+ global company. With over 30 years of experience in the technology industry, Peruvemba has been an influential advocate in the advancement of electronic hardware technologies. He is an acknowledged expert on sensors, electronic displays, haptics, touchscreens, electronic materials, and related technologies; and consults, writes, and presents on those subjects globally. Peruvemba has also held senior level positions at Sharp Corp, Cambrios, Novasentis, TFS, Inc., Planar Systems, and Suntronic Technology. Based in Silicon Valley, he advises high tech firms in the U.S., Canada, and Europe, and also serves on the boards of Omniplay, Summit Wireless, and Visionect. He has B.S. and MBA degrees and a post-graduate diploma in management. Peruvemba is also a right arm off-spinner for a cricket team he co-founded in Silicon Valley.

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 by policy set by the SID Board of Directors.

Cheng Chen

For leadership in the successful implementation of multiple technologies leading to improved image quality in displays in consumer electronics.



Cheng Chen is a senior director of hardware technology at Apple. He leads research and development for platform display technologies spanning LCD and OLED, optical design, color, and perception engineering, as well as new display systems and applications. During his 16-year career at Apple, he has played a critical role in the mainstream adoption of fringe-field switching (FFS), photo-alignment, and negative liquid crystal for smart phones, tablets, and portables. He was a key contributor to the development of the “Retina” display in-cell touch LCD and variable refresh rate technologies. On a system level, he was instrumental to the establishment of precision per-unit calibration, the transition from sRGB to DCI-P3 in the Apple eco-system, the adoption of HDR and its industry standardization, and the ambient-adaptive “True Tone” display. Cheng holds a B.S. from Peking University and a Ph.D. in chemical physics from Kent State University. He has 177 issued patents and more than 50 applications. He is a member of SID and served as 2016 Display Week Program Chair and 2018 Display Week General Chair.

Ruiqing Ma

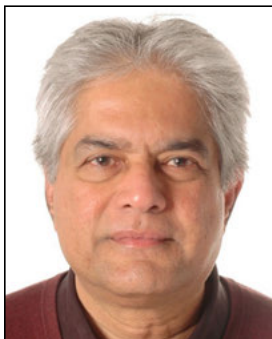
For his leading contributions to flexible displays, LCDs, OLED displays, and quantum-dot displays.



Ruiqing Ma is a senior director of R&D Devices at Nanosys. Since joining Nanosys in 2017, he has led QD device research with a focus on cadmium-free QDEL technology. From 2007 to 2017, he was department manager and director of OLED R&D at Universal Display Corporation, where his research activity focused on flexible AMOLED displays, thin-film encapsulation, and OLED light extraction. From 2005 to 2007, he worked on organic semiconductors at Honeywell International. From 1999 to 2005, he was with Corning Inc., where he developed liquid-crystal based optical switches. Ma holds a Ph.D. in chemical physics from the Liquid Crystal Institute at Kent State University. He has more than 100 issued US patents and over 80 publications. He is a member of the SID Technical Program Committee, and is currently general chair of Display Week 2022.

Arokia Nathan

For his contributions to TFT-circuit backplanes for flexible OLED displays and ultralow power sensor interfaces for wearables.



Arokia Nathan is currently a bye-fellow and tutor at Darwin College, University of Cambridge, UK. He received his Ph.D. in electrical engineering from the University of Alberta, Canada, in 1988. He joined LSI Logic USA, and subsequently, the Institute of Quantum Electronics, ETH, in Zürich, Switzerland, before joining the Electrical and Computer Engineering Department at the University of Waterloo, Canada. In 2006, he joined the London Centre for Nanotechnology, University College London, UK, as the Sumitomo Chair of Nano-technology. He moved to Cambridge University in 2011 as the chair of photonic systems and displays. He has more than 600 publications, including six books, and more than 110 patents and four spin-off companies. He is a Fellow of IEEE and SID, a Distinguished Lecturer of the IEEE Electron Devices Society and Sensor Council, a Chartered Engineer (UK), Fellow of the Institution of Engineering and Technology (UK), and winner of the 2020 IEEE EDS JJ Ebers Award.

Ian Underwood

For his enduring contribution to the display field, especially in the area of ferroelectric liquid-crystal displays and LCD microdisplay technology.



Ian Underwood is professor of electronic displays at the University of Edinburgh. He is a pioneer of fast-switching ferroelectric liquid crystal on silicon (FLCoS) with applications in spatial light modulators and microdisplays for projection and near-to-eye (NTE) display systems. In 1991 he was a Fulbright Fellow at the Optoelectronic Computing Systems Center, University of Colorado. In 1998 he co-founded MicroEmissive Displays, which became a leading player in OLED microdisplays. There he led the team that developed “the world’s smallest color tv screen” (2004 *Guinness Book of World Records*) and won the Inaugural 2005 IEE Innovation in Engineering Award for Emerging Technology. Personal awards include the 2000 Ben Sturgeon Award of the UK Chapter of SID and the 2004 Gannochy Award for Innovation of the Royal Society of Edinburgh (Scotland’s highest accolade for individual achievement in innovation). He is a Fellow of the Royal Academy of Engineering (UK), the Royal Society of Edinburgh (Scotland), and the Institute of Physics. Academic qualifications include a BSc. in natural philosophy, an M.Sc. in bioengineering and a Ph.D. in applied optics from the Universities of Glasgow, Strathclyde, and Edinburgh respectively. Recent research includes novel applications of display technology and use of novel sensors in displays, vision, and perception. He is currently publications chair for the Society for Information Display.

Xiaolin Yan

For his outstanding contribution to the development of advanced QLED (QD-EL) materials, the development of printing OLED/QLED display technology for TV applications, and the development and commercialization of 75-in. 8K miniLED TVs.



Xiaolin Yan is the CTO and SVP of TCL Technology Group in China. For more than 20 years, Yan has been deeply engaged at the frontier of display technology, and has made outstanding contributions in PDP driver technology, LCD dynamic backlight technology, circularly polarized light technology, and OLED technology, as well as printed OLED/QLED and mini/microLED technology in recent years. He has thus effectively promoted the development of display technology across the world. He holds a Ph.D. in physics from the Institute of Plasma Physics, Chinese Academy of Sciences (ASIPP).

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.

Yongtaek Hong

For his contributions to the technology development of TFTs and sensors on flexible and stretchable platforms and printing-based integration of rigid components, printed sensors, and stretchable interconnect electrodes for applications in flexible, stretchable displays, stretchable PCBs, and novel user interface devices using strain and pressure sensors.



Yongtaek Hong has worked for the department of electrical and computer engineering at Seoul National University, Korea, since 2006. He is now a full professor, head of the SNU Entrepreneurship Center, and vice-head of the SNU R&DB Foundation in Business Affairs. From 2012 to 2013, he also served as a visiting professor with the department of chemical engineering at Stanford University. Hong's research interests include printed/flexible/stretchable thin-film devices, displays, and sensors for wearable and electronic skin applications. From 2003 to 2006, he worked as a senior research scientist at the Display Science & Technology Center, Eastman Kodak Company, in Rochester, NY. He received B.S. and M.S. degrees in electronics engineering from Seoul National University and a Ph.D. in electrical engineering from the University of Michigan. Hong has received many awards, including the IEEE EDS 2005 George E. Smith Award; the IEEE/IEEK Young IT Engineer of the Year Award in 2010; IEC's 1906 Award in 2012; and the Industrial Technology of the Month Award and KEIT Chairman's Award from the Korean government's MOTIE in 2014, and 2015, respectively. He also received the SNU CoE Shin Yang Engineering Award in 2015; the Best Academic Development in Printed & Flexible Electronics Award from IDTechEX Show Printed Electronics USA and 100 Technology Lighting-up Korea in 2025 Award, both in 2017; the Display Day Korea MOTIE Minister Award in 2018; the Scientist of the Month Korea MSIT Minister Award in 2019; the Merck Award in 2020; and the Korea National R&D Project 100 Best Achievement Award in 2021. Hong is a convener of IEC TC110 WG8 (Flexible Display Devices), an executive board member of KIDS and SID, and an SID Chapter Formation Chair.

Chi-Sun Hwang

For his frontier development of diverse oxide TFT technologies, including the first transparent AMOLED, and his pioneering contribution to ultra high-resolution displays using oxide TFT technologies.



Chi-Sun Hwang has been engaged in the research of display technology based on active-matrix flat panel displays using TFTs, especially oxide TFTs, for 20 years. He has been with the Electronics and Telecommunications Research Institute in Korea since 2000. His current research is in transparent AMOLED and ultra-high resolution displays using oxide TFT technologies, especially on SLM panels for digital holography. From 1996 to 2000, Hwang worked making DRAM devices at Hyundai Semiconductor Inc. He received a B.S. from Seoul National University in 1991 and a Ph.D. from Korea Advanced Institute of Science and Technology in 1996; both degrees are in physics..

Kentaro Okuyama

For his leading contributions to research on, and the development of, extremely high-transmittance, color, liquid-crystal displays (LCDs) using a newly developed polymer-dispersed liquid-crystal (PDLC) with edge-lighting and field-sequential color (FSC) driving, requiring no color filters or polarizers.



Kentaro Okuyama is currently a chief distinguished researcher at Japan Display, Inc., where he heads research and development of highly transparent color LCDs. His research interests include advanced PDLC systems and transparent display technology, and their new applications to integrate imaging data with our real space. Okuyama received his B.S., M.S., and Ph.D. degrees in electrical engineering from Tohoku University in Sendai, Japan, receiving his doctorate in 1997. He then joined Toray Industries, Inc., where he studied photoluminescent phosphor materials and photocurable glass paste for high-aspect-ratio barrier-rib patterns of plasma display panels. He moved to Sony Corporation in 2004, where he studied reverse-mode polymer dispersed liquid crystals (PDLCs) combined with an edge-lighting system to improve contrast ratio for LCDs. Okuyama also received an M.B.A. from Globis Management School in Tokyo, Japan, in 2016.

Hisato Yabuta

For his pioneering work on oxide-semiconductor TFTs fabricated by the sputtering process, particularly the first demonstration of high-mobility amorphous IGZO TFTs using low-temperature sputtering processes leading to mass-productive and high-performance active-matrix backplanes for recent flat-panel displays.



Hisato Yabuta is a research engineer at R&D Headquarters, Canon, Inc., in Tokyo, Japan, where he is engaged in the research and development of functional inorganic materials. Since 2021, he has also been a visiting professor at the Center of Plasma Nano-interface Engineering, Kyushu University. His current research interests include not only oxide-semiconductors but also ferroelectric and multiferroic materials. Before joining Canon in 2000, he worked at Fundamental Research Laboratories at NEC Corporation. He earned his B.A., M.S., and Ph.D. degrees in solid-state physics from Hiroshima University, receiving his doctorate in 2007.

Guofu Zhou

For his outstanding contribution to developing the world's first electronic-paper-based reader, and recent advances in color-video electronic paper based on electro-wetting technology.



Guofu Zhou received Ph.D. degrees from the Institute of Metal Research, Chinese Academy of Sciences, and the University of Amsterdam in 1991 and 1994, respectively. He worked at Philips Research for more than 20 years as a senior scientist and principal scientist in Eindhoven, The Netherlands, and is currently a distinguished professor at South China Normal University and the director of the National Center for International Research on Green Optoelectronics. He has been engaged in the research and industrialization of electronic paper (e-paper) for more than 20 years. As one of the world's leading inventors of e-paper display technology, he holds hundreds of patents and has published hundreds of scientific papers, and has contributed significantly to the birth of the world's first electronic-paper based reader, the Sony LIBRIE, and to the recent breakthrough in color-video electronic-paper based on electro-wetting technology.

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

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	2020	Paul Peng
2019	Dongsheng Wang	2021	Tomson Li Dongsheng

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		

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		

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		

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		

LEWIS AND BEATRICE WINNER AWARD

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

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

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.

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

2000	Hiroyuki Ohshima	2010	Roger Stewart
2000	Seyno A. Sluyterman	2010	Andrew Watson
2001	Shoji Shirai	2011	Julie J. Brown
2001	Takeo Sugiura	2011	In-Jae Chung
2001	Shosaku Tanaka	2011	Yoichi Sato
2001	Shin-Tson Wu	2011	Sung Tae Shin
2001	Kei-Hsiung Yang	2011	Xiao Wei Sun
2002	Philip J. Bos	2012	Nikhil Balram
2002	Daniel den Engelsen	2012	Brian Berkeley
2002	Nobuki Ibaraki	2012	Ho Kyoong Chung
2002	Shohei Naemura	2012	Oh-Kyong Kwon
2002	Ching W. Tang	2012	Hiap L. Ong
2003	William P. Bleha	2013	Kalil Kälántär
2003	Shui-Chih Alan Lien	2013	Hiroyuki Mori
2003	Eli Peli	2013	Gopalan (Raj) Rajeswaran
2003	Gary K. Starkweather	2013	Takatoshi Tsujimura
2003	Edward H. Stupp	2013	Baoping Wang
2003	I-Wei Wu	2014	Chihaya Adachi
2004	Jean-Pierre Boeuf	2014	Victor Belyaev
2004	Arlie Richard Conner	2014	Janglin Chen
2004	Katsumi Kondo	2014	Yong-Seog Kim
2004	Anthony C. Lowe	2014	Taichiro Kurita
2004	Masataka Matsuura	2015	Anne Chiang
2004	Kouji Suzuki	2015	Ryuichi Murai
2005	Adi Abileah	2015	Fuji Okumura
2005	Gregory P. Crawford	2015	John Wager
2005	Paul S. Drzaic	2015	Hidefumi Yoshida
2005	Hoi-Sing Kwok	2016	Achintya K. Bhowmik
2005	Hiroshi Murakami	2016	Hideo Hosono
2005	Han-Ping Shieh	2016	In Byeong Kang
2006	Chin Hsin (Fred) Chen	2016	Changhee Lee
2006	Willem den Boer	2016	Chung-Chih Wu
2006	Jin Jang	2017	Toshiaki Arai
2006	Tsunehiko Sugawara	2017	Hyun Jae Kim
2006	Steven A. Van Slyke	2017	Sin-Doo Lee
2006	Ki-Woong Whang	2017	Sang-Hee Ko Park
2007	Michael Hack	2017	Qun (Frank) Yan
2007	Myung Hwan Oh	2018	Steven Bathiche
2007	Kenji Okamoto	2018	Mary Lou Jepsen
2007	Kalluri Sarma	2018	Ioannis Kymissis
2007	Yoshifumi Shimodaira	2018	Seok-Lyul Lee
2007	Deng-Ke Yang	2018	Qiong-Hua Wang
2008	Vladimir Chigrinov	2019	Shihchang (James) Chang
2008	Ingrid Heynderickx	2019	Yi-Pai Huang
2008	Christo Hosokawa	2019	Poopathy Karthirgamanathan
2008	Junji Kido	2019	Sungchul Kim
2008	Seung Hee Lee	2019	Tomokazu Shiga
2008	Richard McCartney	2020	Takahiro Ishinabe
2009	Amal Ghosh	2020	ByoungHo Lee
2009	Min Koo Han	2020	Franky So
2009	Sang Soo Kim	2020	Michael Weaver
2009	Jun Souk	2020	Robert J. Visser
2009	Sashiro Uemura	2021	Kazumasa Nomoto
2009	John Zhong	2021	Po-Tsun Liu
2010	Wei Chen	2021	Jang Hyuk Kwon
2010	Edward F. Kelly	2021	Kenichiro Masaoka
2010	Haruhiko Okumura	2021	François Templier

SPECIAL RECOGNITION AWARDS

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

2002	Yoichi Sato	2010	Lorne Whitehead
2002	Yoshifumi Shimodaira	2011	Hyun Chul Choi
2002	Sashiro Uemura	2011	Tieer Gu
2003	Amalkumar P. Ghosh	2011	Takahiro Ishinabe
2003	Paul E. Gulick	2011	Kyeong Hyeon Kim
2003	Jin Jang	2011	Oh-Kyong Kwon
2003	Noboru Miura	2011	Ravilisetty Padmanabha Rao
2003	Terence J. Nelson	2011	Jun Someya
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 Mitsuhashi
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 Kälántár	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. Slusarczyk	2017	Masaki Hasegawa
2008	Kimio Amemiya	2017	Jang Hyuk (Jeremy) Kwon
2008	Alan Jacobsen	2017	Raymond Kwong
2008	Sungkyoo Lim	2017	Kenichiro Masaoka
2008	Hirofumi Mori	2018	Jae-Hoon Kim
2008	Kiyoshi Yoneda	2018	Hisahiro Sasabe
2009	Byung-Chul Ahn	2018	Yasushi Tomioka and
2009	Peter Bocko		Noboru 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		

