

2024 SID Honors and Awards



Presented
May 2024

Foreword

Through our Honors and Awards Program, SID recognizes and celebrates those individuals who have contributed to advancements to the display industry and who have supported the society and the community with their effort. These contributions span specific technological and scientific advances, outstanding educational achievements, and notable service to the industry and SID as a society.

Deciding the most deserving recipients for the various awards is no easy task. Each year, the Honors and Awards Committee selects and recommends recipients to the board of directors for approval. The Committee worked hard to maintain the highest ethical and technical standards in selecting the individuals being honored today. On behalf of the society, I extend my deepest gratitude to my colleagues on the committee for their service and the dedication and professionalism they have shown throughout this selection process.

Finally, let me offer my warmest congratulations to all of this year's award recipients. It is an honor for the society to present these awards to you and to both recognize your achievements and inspire the next generation of award winners in the future.

Ioannis (John) Kymissis
SID President

Honors and Awards Committee

Toshiaki Arai
Jason Hartlove
Yong-Seog Kim
Marja Salmimaa
Bao-Ping Wang
Deng-ke Yang

Paul Drzaic, chair
Takahiro Ishinabe
Hoi-Sing Kwok
Han-Ping (David) Shieh
Qiong-Hua Wang

Mike Hack
In Byeong Kang
Haruhiko Okumura
Robert Jan Visser
Andrew Watson

2024 Honors and Awards

Karl Ferdinand Braun Prize

Ching Tang and Steven Van Slyke

David Sarnoff Industrial Achievement Prize

Yanshun Chen

Jan Rajchman Prize

Franky So

Peter Brody Prize

Dongchuan Chen

Otto Schade Prize

Gordon Wetzstein

Lewis and Beatrice Winner Award

Stephen Atwood

Fellows of the SID

Yongtaek Hong

Hitoshi Kuma

Chih-Lung Lin

Junbiao Peng

Wei Yao

Special Recognition Awards

Chris Bower

Jun Yeob Lee

Hiroshi Mukawa

Haijun Qiu

Joon Young Yang

Chung Yi

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.



Ching Tang



Steven Van Slyke

For their pioneering contributions to the field of electronic displays with the invention and development of organic light-emitting diodes (OLEDs).

Ching Tang is professor emeritus of the University of Rochester. From 2006 to 2017, he was the Doris Johns Cherry Professor in the department of chemical engineering at the university, and from 2014 to 2023, he held an appointment as the Bank of East Asia Professor of the Institute for Advanced Study at the Hong Kong University of Science and Technology. Prior to his academic career, he was a research scientist at Eastman Kodak from 1975 to 2006. Tang received a BS in chemistry from the University of British Columbia in 1970, and his PhD, also in chemistry, from Cornell University in 1975. Joining Kodak immediately after graduating from Cornell, Tang was first tasked with the development of low-cost, thin-film organic photovoltaic cells (OPV). It was during this activity that he discovered the organic heterojunction device structure. This discovery led directly to the invention of OLED and, decades later, to the emergence of the multi-billion-dollar OLED display industry. Tang's research activities remain primarily focused on developing high-efficiency and operationally stable OLED materials for display applications.

Steven Van Slyke is CTO emeritus at Kateeva, a California-based company specializing in ink-jet printing encapsulation and emitter materials for the OLED industry. Van Slyke received a bachelor's degree in chemistry from Ithaca College and a master's degree in materials science from the Rochester Institute of Technology. Prior to joining Kateeva in 2010, he was with Eastman Kodak for 30 years. Van Slyke held a variety of positions at Kodak and was active in all phases of OLED technology, from basic research on organic materials to the development of manufacturing technologies for high-volume OLED display production. To this end, Van Slyke led the teams at Kodak that developed the WRGB pixel format now used in OLED TVs, and linear source technology that enables high-efficiency organic film deposition over large areas. At Kateeva, Van Slyke led inkjet printing technology development activities. This included materials and process optimization directed to the formation of thin encapsulation as well as emitting films.

Tang and Van Slyke formed a two-person OLED research team immediately after Van Slyke joined Kodak in 1979. Working closely together, they discovered several key materials, including the luminescent metal chelate Alq and the hole-transport diamine TPD, which vastly enhanced both the efficiency and stability of the early OLED devices. Tang and Van Slyke have been widely recognized for their joint effort in developing practical OLED materials and devices, receiving the Jan Rajchman Prize from the SID in 2001 and being inducted into the National Inventors Hall of Fame in 2018. They also co-authored a 1987 OLED paper in *Applied Physics Letters (APL)*. This work is the most cited paper from APL and in the entire field of organic electronics to this date.

DAVID SARNOFF INDUSTRIAL ACHIEVEMENT PRIZE

The David Sarnoff Industrial Achievement Prize recognizes and honors those people whose achievements have shaped the business of the electronic displays 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.



Yanshun Chen

For his outstanding leadership and innovation in multiple areas of the electronic display industry, including contributing to the growth of the display industry around the world, global collaboration and cooperation, and the integration of displays into the Internet of Things (IoT) applications.

Yanshun Chen is chairman of BOE and chairman of the BOE Executive Committee. Chen's initiatives at BOE have led to the growth of BOE and have been a major influence on the industry as a whole. Based on his deep insights into development trends for information displays and the innovation of the Internet of Things (IoT) market, Chen recognized that "Empower IoT with Screens" could serve as a development philosophy for industry direction and growth. These principles drove the integration of more functionality into screens, a diversity of more screen forms, and the introduction of screens into more application scenarios. Chen also specified transformation toward the IoT as the strategic direction of BOE, with benefits for suppliers and customers in the digital age. Chen is also chairman of the LCD branch of the China Optics and Optoelectronics Manufacturers Association.

JAN RAJCHMAN PRIZE

The Jan Rajchman Prize is awarded for outstanding scientific or technical contributions to electronic display technology, 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.



Franky So

For his many contributions to the research, development, and commercialization of OLED technology and displays.

Franky So is the Walter and Ida Freeman Distinguished Professor in the Department of Materials Science and Engineering at North Carolina State University. Before his academic career, he was the OLED group manager at Motorola Corporate Research Laboratories, where he led a group that demonstrated the world's first OLED video display in 1997. At Motorola, he was also instrumental in the commercialization of the first OLED phones in 1999. So has over 120 issued patents and has published more than 220 peer-reviewed articles, with a Google H-index of 83. He is a Fellow of the National Academy of Inventors and a Fellow of SID, MRS, IEEE, OPTICA, and SPIE. He is also a distinguished lecturer with the IEEE Photonics Society. In 2023, he was named the Entrepreneur of the Year by North Carolina State University. So received his PhD in electrical engineering from the University of Southern California.

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 the field of electronic displays. The Peter Brody Prize was founded by Dr. Fang-Chen Luo and comes with a stipend of \$5,000 sponsored by SID, a medallion, and a bound certificate.



Dongchuan Chen

For his contributions to improvements in liquid-crystal display technology, achieving outstanding performance through innovative cell design.

Dongchuan Chen is the director of BOE TV Product Development. He has long been engaged in the research of large LCD optics and picture-quality performance improvement. He has globally debuted several innovative technologies, including color viewing-angle enhancement, perceptual contrast enhancement, and high refresh rate. The innovations by Chen and his team have led to LCDs that rival OLED in picture quality, and major advances in 8K and 16K displays. Chen has received numerous awards and honors, such as SID China's Outstanding Young Display Talent 2022, and is currently program committee co-chair of the 2024 International Conference on Display Technology.

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.



Gordon Wetzstein

For the advancement of varifocal, light field, and holographic near-eye display technologies optimizing perceptual realism and visual comfort for virtual and augmented reality systems.

At the intersection of computer graphics and vision, artificial intelligence, computational optics, and applied vision science, **Gordon Wetzstein's** research has a wide range of applications in next-generation imaging, wearable computing, and neural rendering systems. Wetzstein is an associate professor of electrical engineering and, by courtesy, of computer science at Stanford University. He is the leader of the Stanford Computational Imaging Lab and a faculty co-director of the Stanford Center for Image Systems Engineering. He is a Fellow of Optica and the recipient of numerous awards, including an NSF CAREER Award, an Alfred P. Sloan Fellowship, an ACM SIGGRAPH Significant New Researcher Award, a Presidential Early Career Award for Scientists and Engineers (PECASE), an SPIE Early Career Achievement Award, an Electronic Imaging Scientist of the Year Award, and an Alain Fournier PhD Dissertation Award as well as many best paper and demo awards.

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.



Stephen Atwood

For sustained service to SID through stewardship of Information Display magazine, and events memorializing and commemorating the history of the society.

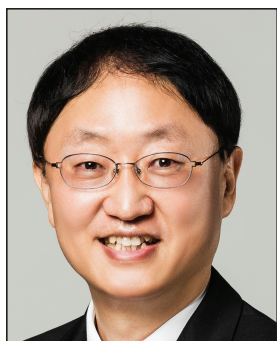
Stephen Atwood is currently an engineering and technology consultant to the display and ruggedized electronics industry. He has nearly 40 years of industry experience developing key products and technologies in the field of display optics and metrology, touch and gesture recognition, human-machine interfaces (HMIs), LED lighting, and ruggedized electronics for hazardous locations. In service to SID, Atwood has served on numerous committees and led many important endeavors helping to grow the Society. His most prominent role is executive editor of *Information Display* magazine, where he has worked since 2006 to drive continuous improvement to both the print and online offerings. He also currently serves as the co-chair of the Display Industry Awards Committee and as archives chair. Atwood began his SID career as chair and later director of the New England chapter of SID, which he kept active from 1990 to 2015. Other recent SID roles include: 2022–2023 organizer of the SID 60th Anniversary and Display Week Diamond Jubilee celebrations; member and rotating chair of the SID symposium sub-committee on display measurements since 1989.

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.

Yongtaek Hong

For his pioneering work in technology development for thin-film transistors and sensors, and printing-based integration of rigid functional components into flexible and stretchable platforms, for applications in stretchable displays, stretchable PCBs, and novel user interface devices using strain and pressure sensors.



Yongtaek Hong's research interests are printed/flexible/stretchable thin-film devices, displays, and sensors for wearable and electronic skin applications. He received a PhD in electrical engineering from the University of Michigan. After working for Eastman Kodak Company as a senior research scientist, Hong joined Seoul National University in 2006 and is now a full professor and department chair. He has received IEEE's 2005 George E. Smith Award; IEEE/IEIE's 2010 Young IT Engineer of the Year Award; IEC's "1906" Award in 2012; the SNU CoE Shin Yang Engineering Award in 2015; 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. He has also received the "Display Day" Korea MOTIE Minister Award in 2018; Scientist of the Month, the Korea MSIT Minister Award in 2019; a Korea National R&D Project 100 Best Achievement Award in 2021; and a Fellow Award from the Korean Academy of Science and Technology in 2023. He is a convenor of IEC TC110 WG8 (flexible display devices), an executive board member of KIDS, and SID chapter formation chair.

Hitoshi Kuma

For his leadership in the development of OLED materials and device technologies, including triplet-triplet fusion technology to greatly improve the emission quantum efficiency of blue fluorescent OLEDs, leading to improved power consumption in OLED displays.



Hitoshi Kuma is currently a principal associate for the Advanced Technology Research Laboratories at Idemitsu Kosan Co., Ltd., where he is in charge of building medium- to long-term technical strategies in the field of information and communication technologies. He joined Idemitsu Kosan Co., in 1990 after graduating from Kyoto University with a master's degree in the field of plasma physics. After researching ferroelectric liquid-crystal polymer (FLCP) materials and panels using FLCP for 10 years, he became engaged in the development of OLED materials and devices. His major focus has been the optical and electronic properties of organic materials and the physical analysis of electro-optical devices. He has made numerous contributions to

high-performance OLEDs, including efficiency improvement of pure-blue fluorescent OLEDs by utilizing triplet-triplet fusion technology, and analysis of optical/carrier/exciton dynamics inside OLED devices.

Chih-Lung Lin

For his outstanding contribution to array driving circuits and system designs for LCDs, AMOLEDs, miniLEDs, microLEDs, optical sensors, and XR system applications.



Chih-Lung Lin's many contributions to driving circuit designs on flat-panel displays include driving circuits for mini/microLEDs, pixel circuit designs for AMOLEDs, gate driver circuit designs for AMLCDs, and optical sensors for interactive panels. He received his MS and PhD in electrical engineering from National Taiwan University. Lin is the director of the Taipei Chapter of the Society for Information Display (SID). He is also currently a distinguished professor in the Department of Electrical Engineering at National Cheng Kung University (NCKU) in Taiwan and the executive vice dean of NCKU's Miin Wu School of Computing. Lin is a Fellow of IET and Optica (OSA).

Junbiao Peng

For his outstanding contributions to the development of full-printing color OLED display technologies based on self-invented interfacial dielectric polymers, and the invention of rare earth doped oxide channel materials for high-performance TFT arrays to enable large OLED panels with improved resolution and low power consumption.



Junbiao Peng's research interests include printing thin-film technology, organic/polymer optoelectronic devices; and physics and technology of metal oxide thin-film transistors. He obtained his MS and PhD from the Changchun Institute of Physics, Chinese Academy of Science (CAS), in condensed matter physics. After graduation, he worked at the Changchun Institute of Physics, Korea Institute of Science and Technology, and the National Institute of Material Engineering in the Institute of Industry Technology of Japan before joining the School of Materials Science and Technology, South China University of Technology. He has been SID's vice president of the Cross Strait Region from 2020–2024.

Wei Yao

For his leading contributions to the display electronics performance of touch-integrated LCDs, 2D backlights with LCD, low-power display driving, and OLED display compensation.



Wei Yao is a senior director of hardware technology at Apple, where he leads research and development efforts spanning LCD and OLED display electronics, as well as new driving and compensation algorithms and innovative display systems and applications. Over his 19-year career at Apple, he developed the electronics for the first-generation iPhone displays, leveraging fully customized silicon chips and driving platforms. Later, he spearheaded the driving architecture of in-cell touch LCDs to eliminate mura artifacts from touch-signal coupling, significantly impacting electronics integration in the display industry. Yao has also been instrumental in advancing 2D backlight LCD driving technology and algorithms, leading to achievements such as the

Liquid Retina XDR displays on the iPad pro and MacBook Pro. Most recently, he designed and implemented adaptive OLED display driving for Apple's iPhone 13 Pro display, enabling high frame-rate response or reduced power consumption as needed. Yao obtained his MS and PhD from University of California, Berkeley, in mechanical engineering. He has more than 250 issued patents and applications. He is a member of SID and has served as the 2021 Display Week Program Chair and the 2023 Display Week General Chair.

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.

Chris Bower

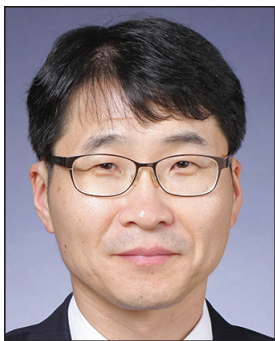
For his contributions to the advancement and commercialization of elastomer stamp mass-transfer technology, and its application to emissive displays using microscale light-emitting diodes and silicon integrated circuits.



Chris Bower is chief technology officer and co-founder of X Display Company (XDC). Before joining XDC, he was the chief technology officer at X-Celeprint, Ltd., a company founded to develop and commercialize advanced micro-assembly technologies. He was formerly a technical manager at Semprius, Inc., where he led the team responsible for elastomer-stamp mass transfer of silicon integrated circuits and compound semiconductor solar cells. His research interests include three-dimensional integration of integrated circuits, heterogeneous integration of compound semiconductors onto non-native substrates, and the fabrication of low-cost, large-format electronics using novel assembly methods. He has co-authored over 130 scientific publications and over 150 patent applications.

Jun Yeob Lee

For outstanding contribution to OLED research and technology development, and in particular for developing highly efficient and long-lifetime blue OLEDs.



Jun Yeob Lee's main research areas are synthesis of organic electronic materials and development of novel device structures for organic electronic devices. He is an editor-in-chief for the *Journal of Information Display* and *Journal of Industrial and Engineering Chemistry*. Lee received his PhD from Seoul National University, Korea, in 1998. After a postdoc at Rensselaer Polytechnic Institute (1998–1999) he joined Samsung SDI, where he developed active-matrix organic light-emitting diodes for six years. After that, he worked as a professor at the Department of Polymer Science and Engineering of Dankook University and has been a professor at the School of Chemical Engineering at Sungkyunkwan University since 2015. He has been a member of the Korea Academy of Science and Technology (KAST) from 2019.

Hiroshi Mukawa

For his pioneering contribution to the technology development of diffractive waveguide-based augmented reality (AR) displays, and his leadership in the commercialization of the world's first waveguide-based AR glasses.



Hiroshi Mukawa's research interests are AR/MR headset optics and displays. He has been developing and commercializing AR headsets for 20 years at Sony. In 2004, he started his research on holographic waveguide technology and achieved the world's first full-color AR glasses prototype using holographic waveguides. The research result was presented at SID 2008 and was honored with a Distinguished Paper Award. He commercialized the world's first closed-caption glasses for people with hearing impairments in 2012, and won an Innovation Award from the Hearing Loss Association of America. Mukawa has commercialized SmartGlass and AR display module products. He currently serves as a program committee member of the SPIE ARVRMR, IMID, and eXtended Reality Korea. He has over 234 granted patents related to optics and displays in the fields of AR/MR headsets. Mukawa received his ME degree in physical engineering from Kyoto University and his MS degree in electrical engineering from Stanford University.

Haijun Qiu

For his contribution to cutting-edge OLED technology exploration and high-performance OLED display development.



Haijun Qiu has long been engaged in research on semiconductor displays, with outstanding achievements in innovative technology and product development in flexible displays. He has successfully achieved global premieres of innovative technologies such as foldable AMOLEDs, slidable OLED technology, and curved flexible technology at BOE. Moreover, Qiu has led the OLED R&D team to focus on solving technical challenges in various areas such as full-screen technology, narrow border with pad bending technology, full display camera technology (FDC), 3D flexible display forms, LTPO oxide technology, tandem technology, and more, resulting in major breakthroughs. He has supported the construction of several leading-generation AMOLED production lines in China. Qiu has innovated in the development of flexible OLED technology. He is currently serving as the senior vice president of BOE Technology Group Co., Ltd., and the head of OLED technology and product platforms. Qiu has a PhD from the Institute of Semiconductors, Chinese Academy of Sciences.

Joon Young Yang

For his leadership in technology collaboration with global system companies, and in the development of next-generation display technologies.



Joon Young Yang has worked in the display industry for approximately 30 years. He has led teams that have developed core technologies and display manufacturing projects in the fields of TFT devices and panel designs. Based on his extensive experience, he has led collaborations with global companies such as Apple, Google, and Microsoft. Yang has also contributed to the industry by leading in the direction of next-generation display technologies such as transparent, flexible, XR, and stretchable displays. He currently serves as head of the Advanced Technology Laboratory at LG Display. He has authored 35 papers, filed 65 US patents, and made dozens of keynote speeches. Yang is an active display industry participant,

serving as a flexible displays and e-Paper subcommittee chair for the SID Symposium, and as an industry-academic cooperative director of the Korea Information Display Society (KIDS).

Chung Yi

For his significant contributions to high-resolution active-matrix organic light-emitting diode (AMOLED) displays and hybrid oxide polysilicon (HOP) technology, and for his pivotal role as a pioneer for organic light-emitting diode on silicon technology for premium display markets.



Chung Yi is currently head of corporate business (mobile/IT display) for Samsung Display Company. Yi joined Samsung in 1992, and has grown into a key player at Samsung Display Company. From 2013 to 2016, he contributed to the development of Samsung's unique flexible AMOLED display for smartphones. He led the Mobile Display Development Center from 2017, succeeding in producing the world's first foldable display. In 2020, Yi was promoted to vice president, and was in charge of the company's Mobile Display Module Center, improving production yield of factories based in China and Vietnam. Currently, Yi is the head of corporate business, leading the businesses of smartphones, notepads, tablets, and automotive displays.

Yi has a PhD in chemical engineering from Pohang University of Science and 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	2005	William P. Bleha
1988	Toshio Inoguchi	2006	Christopher N. King
1989	Norman F. Fyler	2008	Richard Williams
1989	Harold B. Law	2010	Frederic Kahn
1989	Edward G. Ramberg	2011	Rudolf Eidenschink
1989	Alfred C. Schroeder	2012	Jun Souk
1990	Akio Ohkoshi	2013	Isamu Akasaki
1991	Kentaro Kiyozumi	2014	Katsumi Kondo
1991	Tadashi Nakamura	2015	Junji Kido
1992	Martin Schadt	2016	Ho Kyoong Chung
1993	William E. Glenn	2017	Hirofumi Ohshima
1993	William E. Good	2018	Hidefumi Yoshida
1993	Thomas T. True	2019	Amal Ghosh
1995	Eiichi Yamazaki	2020	Julie Brown
1996	George W. Gray	2021	Sungchul Kim
1997	Isamu Washizuka	2022	Wei Chen
1998	Cyril Hilsum	2022	John Zhong
1999	Larry J. Hornbeck	2023	Hideo Hosono
2000	Larry F. Weber	2023	Toshio Kamiya
2003	Tsutae Shinoda	2023	Kenji Nomura
2004	Shuji Nakamura		

DAVID SARNOFF INDUSTRIAL ACHIEVEMENT PRIZE

The David Sarnoff Industrial Achievement Award recognizes and honors those people whose achievements have shaped the business of the electronic displays industry.

2018	Sang Wan Lee	2021	Tomson Li Dongsheng
2019	Dongsheng Wang	2022	SangDeog Yeo
2020	Paul Peng	2023	Jason Hartlove

JAN RAJCHMAN PRIZE

The Jan Rajchman Prize is awarded for outstanding scientific or technical contributions to electronic display technology, recognized as groundbreaking in their field.

1993	Terry J. Scheffer	2009	Peter Raynes
1994	Peter G. LeComber	2010	Dwight Berreman
1995	Shunsuke Kobayashi	2011	Hideo Hosono
1996	Robert Meyer	2012	Tetsuo Tsutsui
1996	Capp Spindt	2013	Marc Baldo
1998	J. William Doane	2014	Dirk J. Broer
2001	Ching W. Tang	2015	Shohei Naemura
2001	Steve Van Slyke	2016	Seung Hee Lee
2003	Webster E. Howard	2017	Shui-Chih Alan Lien
2004	Tatsuo Uchida	2018	Pochi Yeh
2005	Donal Bradley	2019	Hoi-Sing Kwok
2005	Jeremy H. Burroughes	2020	Paul Alivisatos and
2005	Richard Friend		Moungi Bawendi
2006	Stephen R. Forrest	2021	Karl Leo
2006	Mark E. Thompson	2022	Jin Jang
2007	Shigeo Mikoshiba	2023	Tsuyoshi Sekitani
2008	Shin-Tson Wu		

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.

2017	Yi-Pai Huang	2021	Hiromi Minemawari
2018	Seth Coe-Sullivan	2022	Keisuke Ide
2019	Hsing-Hung Hsieh	2023	Weiran Cao
2020	Zhaojun Liu		

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	2016	Shunsuke Kobayashi
2008	Tatsuo Uchida	2017	Deng-Ke Yang
2009	Ernst Lueder	2018	Vladimir Chigrinov
2010	Philip Bos	2019	Chain-Shu Hsu
2011	Shin-Tson Wu	2020	Edward F. Kelley
2012	Lawrence E. Tannas, Jr.	2021	Man Wong
2013	Hoi-Sing Kwok	2022	Hiroyoshi Naito
2014	Han-Ping Shieh	2023	Xiao Wei Sun
2015	Jin Jang		

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	2016	Nikhil Balram
2006	Roger Cohen	2017	Martin S. Banks
2007	Andrew B. Watson	2020	Yoshifumi Shimodaira
2008	Louis D. Silverstein	2021	Mark D. Fairchild
2010	Eli Peli	2022	Taiichiro Kurita
2011	Scott Daly	2023	Helge Seetzen
2012	Adi Abileah	2023	Greg Ward
2014	Candice Brown Elliott	2023	Lorne Whitehead
2015	Ingrid Heynderickx		

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	2023	Helge Seetzen

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. Fergason

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	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 Fergason
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	Ho Kyoong Chung
2002	Nobuki Ibaraki	2012	Oh-Kyong Kwon
2002	Shohei Naemura	2012	Hiap L. Ong
2002	Ching W. Tang	2013	Kalil Kälantär
2003	William P. Bleha	2013	Hiroyuki Mori
2003	Shui-Chih Alan Lien	2013	Gopalan (Raj) Rajeswaran
2003	Eli Peli	2013	Takatoshi Tsujimura
2003	Gary K. Starkweather	2013	Baoping Wang
2003	Edward H. Stupp	2014	Chihaya Adachi
2003	I-Wei Wu	2014	Victor Belyaev
2004	Jean-Pierre Boeuf	2014	Janglin Chen
2004	Arlie Richard Conner	2014	Yong-Seog Kim
2004	Katsumi Kondo	2014	Taichiro Kurita
2004	Anthony C. Lowe	2015	Anne Chiang
2004	Masataka Matsuura	2015	Ryuichi Murai
2004	Kouji Suzuki	2015	Fuji Okumura
2005	Adi Abileah	2015	John Wager
2005	Gregory P. Crawford	2015	Hidefumi Yoshida
2005	Paul S. Drzaic	2016	Achintya K. Bhowmik
2005	Hoi-Sing Kwok	2016	Hideo Hosono
2005	Hiroshi Murakami	2016	In Byeong Kang
2005	Han-Ping Shieh	2016	Changhee Lee
2006	Chin Hsin (Fred) Chen	2016	Chung-Chih Wu
2006	Willem den Boer	2017	Toshiaki Arai
2006	Jin Jang	2017	Hyun Jae Kim
2006	Tsunehiko Sugawara	2017	Sin-Doo Lee
2006	Steven A. Van Slyke	2017	Sang-Hee Ko Park
2006	Ki-Woong Whang	2017	Qun (Frank) Yan
2007	Michael Hack	2018	Steven Bathiche
2007	Myung Hwan Oh	2018	Mary Lou Jepsen
2007	Kenji Okamoto	2018	Ioannis Kymissis
2007	Kalluri Sarma	2018	Seok-Lyul Lee
2007	Yoshifumi Shimodaira	2018	Qiong-Hua Wang
2007	Deng-Ke Yang	2019	Shihchang (James) Chang
2008	Vladimir Chigrinov	2019	Yi-Pai Huang
2008	Ingrid Heynderickx	2019	Poopathy Karthirgamanathan
2008	Christo Hosokawa	2019	Sungchul Kim
2008	Junji Kido	2019	Tomokazu Shiga
2008	Seung Hee Lee	2020	Takahiro Ishinabe
2008	Richard McCartney	2020	Byoungcho Lee
2009	Amal Ghosh	2020	Franky So
2009	Min Koo Han	2020	Michael Weaver
2009	Sang Soo Kim	2020	Robert J. Visser
2009	Jun Souk	2021	Kazumasa Nomoto
2009	Sashiro Uemura	2021	Po-Tsun Liu
2009	John Zhong	2021	Jang Hyuk Kwon
2010	Wei Chen	2021	Kenichiro Masaoka
2010	Edward F. Kelly	2021	François Templier
2010	Haruhiko Okumura	2022	Cheng Chen
2010	Roger Stewart	2022	Ruiqing Ma
2010	Andrew Watson	2022	Arokia Nathan
2011	Julie J. Brown	2022	Ian Underwood
2011	In-Jae Chung	2022	Xiaolin Yan
2011	Yoichi Sato	2023	Hyun-Chul Choi
2011	Sung Tae Shin	2023	Seth Coe-Sullivan
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2012	Nikhil Balram	2023	Jiun-Haw Lee
2012	Brian Berkeley	2023	Man Wong

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1974	William E. Good	1994	Rikusei Kohara
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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
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1976	Joseph Markin	1995	Zu-Kai Wu
1976	Albert Rose	1996	Thomas S. Buzak
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1977	Gerald Marie	1996	Makoto Maeda
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1977	Beatrice & Lewis Winner	1996	Shuji Nakamura
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1979	Donald L. Bitzer	1997	Shuji Iwata
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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
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1983	Chuji Suzuki	1999	John C. C. Fan
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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	Tsutae Shinoda	2003	Terence J. Nelson

2003	Michael D. Wand	2012	Hyang Yul Kim
2004	Hsuan Bin Chen	2012	Seung-Hee Lee
2004	George W. Dick	2012	Seok-Lyul Lee
2004	Toshihiro Komaki	2012	Tapani Levola
2004	Robin Merrifield	2012	Shigeaki Mitzuhima
2004	Louis D. Silverstein	2012	Masayuki Sugawara
2004	Haruhiko Okumura	2013	Keiji Ishii
2004	Dan J. Schott	2013	In-Byeong Kang
2005	Keiichi Betsui	2013	Isao Kawahara
2005	Satish Kumar Kaura	2013	Ryuichi Murai
2005	Thierry Leroux	2013	Qun (Frank) Yan
2005	Hiap L. Ong	2013	Hidefumi Yoshida
2005	Gerrit Oversluizen	2013	Takehiro Zukawa
2005	Tomokazu Shiga	2014	Mark Bradley Spitzer
2005	Deng-Ke Yang	2014	Hyun Jae Kim
2006	Hideki Asada	2014	Zenichiro Hara
2006	Ho-Kyoon Chung	2014	Changhee Lee
2006	Joseph M. Jacobson	2015	Toshio Kamiya
2006	Yoshikazu Kanazawa	2015	Byeongkoo Kim
2006	Edward F. Kelley	2015	Yasuhiro Koike
2006	Jun Souk	2015	Byoungcho Lee
2006	Hirofumi Wakemoto	2015	Jun Ho Song
2007	In-Jae Chung	2015	Ahihiro Tagaya
2007	Alex Henzen	2015	Shunpei Yamazaki
2007	Kalil Käläntär	2016	Jongseo Lee
2007	Sang Soo Kim	2016	Chang Ho Oh
2007	Walter Riess	2016	Tetsuo Urabe
2007	Takatoshi Tsujimura	2016	Robert J. Visser
2007	John A. Rupp	2016	Emi Yamamoto
2007	Koichi Sakita	2017	Masaki Hasegawa
2007	Marko M. G. Slusarczyk	2017	Jang Hyuk (Jeremy) Kwon
2008	Kimio Amemiya	2017	Raymond Kwong
2008	Alan Jacobsen	2017	Kenichiro Masaoka
2008	Sungkyoo Lim	2018	Jae-Hoon Kim
2008	Hiroyuki Mori	2018	Hisahiro Sasabe
2008	Kiyoshi Yoneda	2018	Yasushi Tomioka and
2009	Byung-Chul Ahn		Noboru Kunitatsu
2009	Peter Bocko	2018	Katsuhide Uchino
2009	Hideo Hosono	2019	Chiwoo Kim
2009	Gary Jones	2019	Jinoh Kwag
2009	Hirotsugu Kikuchi	2019	Seung-Woo Lee
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2010	Joyce Farrell	2020	Takuji Hatakeyama
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2010	Manabu Ishimoto	2020	David Slobodin
2010	Michio Kitamura	2021	Mamoru Furuta
2010	James Larimer	2021	Gosuke Ohashi
2010	Ryuichi Murai	2021	Yukiharu Uraoka
2010	Helge Seetzen	2021	Xue Dong
2010	Tsutae Shinoda	2022	Yongtaek Hong
2010	Greg Ward	2022	Chi-Sun Hwang
2010	Lorne Whitehead	2022	Kentaro Okuyama
2011	Hyun Chul Choi	2022	Hisato Yabuta
2011	Tier Gu	2022	Guofu Zhou
2011	Takahiro Ishinabe	2023	Soo Young Choi
2011	Kyeong Hyeon Kim	2023	Gunther Haas
2011	Oh-Kyong Kwon	2023	Yue Kuo
2011	Ravilisetty Padmanabha Rao	2023	Cheng-Chung Lee
2011	Jun Someya	2023	Joohyung Lee
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