

**IEEE JUN-ICHI NISHIZAWA MEDAL
RECIPIENTS**

- | | | |
|---|--|---|
| 2022 | UMESH K. MISHRA (FIEEE)—
Donald W. Whittier Professor in
Electrical Engineering, University
of California, Santa Barbara,
California, USA | “For contributions to the development of
gallium nitride-based electronics.” |
| 2021 | JAMES J. COLEMAN (FIEEE)—
Presidential Distinguished
Professor of Photonics, University
of Texas at Arlington, Arlington,
Texas, USA | “For contributions to the development of
strained-layer semiconductor lasers.” |
| 2020 | PAUL DANIEL DAPKUS
William M. Keck Distinguished
Professor of Engineering,
Professor of Electrical
Engineering and Physics and
Astronomy, University of
Southern California, Los Angeles,
California, USA | “For the development of metal organic
chemical vapor deposition and quantum
well lasers.” |
| 2019 | YASUHIKO ARAKAWA
Professor, University of Tokyo,
Institute of Industrial Science,
Tokyo, Japan | “For contributions to the development and
commercialization of quantum dot lasers.” |
| AND | | |
| PALLAB BHATTACHARYA
Professor, University of Michigan
and Charles M. Vest
Distinguished University
Professor and James R. Mellor
Professor of Engineering, Ann
Arbor, Michigan, USA | | |
| AND | | |
| DIETER BIMBERG
Professor, Technical University,
Berlin, Germany | | |
| 2018 | JOE C. CAMPBELL
Professor, University of Virginia,
Department of Electrical and
Computer Engineering,
Charlottesville, Virginia, USA | “For contributions to the development of
high-speed, low-noise, long-wavelength
avalanche photodiodes.” |
| 2017 | CHING W. TANG | “For their pioneering work on organic |

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Professor, Hong Kong University
of Science and Technology,
Kowloon, Hong Kong;
Professor, University of
Rochester, Rochester, NY, USA

devices, leading to organic light-emitting
diode displays.”

AND

STEPHEN R. FORREST
Professor, University of Michigan,
Ann Arbor, Michigan, USA

AND

MARK THOMPSON
Professor, University of Southern
California, Los Angeles,
California, USA

- 2016 MASAYOSHI ESASHI
Professor, Tohoku University,
Sendai, Miyagi, Japan
“For pioneering contributions to micro-
electro-mechanical systems (MEMS), and
their uses in automobiles, cellular phones,
industrial equipment, and medical
devices.”
- 2015 DIMITRI ANTONIADIS
Professor, Department of
Electrical Engineering and
Computer Science,
Massachusetts Institute of
Technology, Cambridge,
Massachusetts, USA
“For contributions to metal oxide
semiconductor field-effect transistor
physics, technology, and modeling.”
- 2014 FRANZ LAERMER
Vice President, Robert Bosch
Corporate Research and
Advanced Development,
Stuttgart, Germany
“For inventing and developing the Bosch
deep reactive ion etching process that has
impacted the micro-electro-mechanical
systems (MEMS) field.”
- AND ANDREA URBAN
Senior Expert, Robert Bosch
GmbH, Reutlingen, Germany
- 2013 BURN J. LIN
Vice President of Research and
Development and Distinguished
Fellow, TSMC, Ltd., Hsinchu,
Taiwan
“For contributions to lithographic
manufacturing, including immersion
lithography.”

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- 2012 MARK T. BOHR
Intel Senior Fellow and Director
of Process Architecture and
Integration, Intel Corp.,
Hillsboro, OR, USA "For sustained leadership in developing
innovative transistor technologies for
advanced logic products."
- AND ROBERT S. CHAU
Intel Senior Fellow and Director
of Transistor Research and
Nanotechnology, Intel Corp.,
Hillsboro, OR, USA
- AND TAHIR GHANI
Intel Fellow and Director of
Transistor Research and
Integration, Intel Corp.,
Hillsboro, OR, USA
- 2011 BERNARD LECHNER
Princeton, NJ, USA "For pioneering contributions to thin-film-
transistor (TFT) liquid-crystal displays."
- AND PETER BRODY
Chief Executive Office,
Advantech; Pittsburgh, PA, USA
- AND FANG-CHEN LUO
Chief Technology Officer, Vice
President, AU Optronics Corp.;
Hsinchu, Taiwan
- 2010 RICHARD M. SWANSON
President and Chief Technical
Officer, SunPower Corporation,
San Jose, CA, USA "For the conception and commercialization
of high-efficiency point-contact crystalline-
silicon solar cell technology."
- 2009 CHENMING HU
TSMC Distinguished Professor
Univ of California,
Berkeley, CA, USA "For technical contributions to MOS device
reliability, scaling of CMOS and compact
device modeling."
- 2008 WOLFGANG HELFRICH
Professor, Institut fur
Theoretische Physik, Freie
University, Berlin, Germany "For pioneering development of twisted-
nematic liquid crystal technology."
- AND MARTIN SCHADT
MS High-Tech Consulting,
Managing Director, Seltisberg,

**IEEE JUN-ICHI NISHIZAWA MEDAL
RECIPIENTS**

Switzerland;

AND JAMES FERGASON
Ferguson Patent Properties LLC,
Founder and Member, Menlo
Park, CA, USA

2007 NICOLAAS FRANS De ROOIJ
Prof. and Director Inst. of
Microtech., University of
Neuchatel, Neuchatel Switzerland

"For pioneering contributions to
microsystem technology and effective
transfer into industrial products and
applications."

2006 MITSUMASA KOYANGI
Prof., Dept of Bioengineering and
Robotics, Tohoku University,
Sendai, Japan

"For pioneering contributions to dynamic
random access memory (DRAM) cell
structures and architecture."

AND KIYOO ITOH
Fellow, Hitachi, Ltd., Tokyo,
Japan

AND HIDEO SUNAMI
Prof., Research Center for
Nanodevices and Systems,
Hiroshima University, Hiroshima,
Japan

2005 JERRY M. WOODALL
C. Baldwin Sawyer Professor of
Electrical Engineering, Yale
University, New Haven, CT, USA

"For pioneering contributions to the liquid-
phase epitaxy in the GaAs/AlGaAs
systems, including applications to photonic
and electronic devices."

2004 FREDERICK H. DILL
Distinguished Engineer
Hitachi Global Storage
Technologies
San Jose, CA, USA

"For lifetime contributions to
microelectronics processing, including
lithographic stimulation, semiconductor
lasers and magnetic recording."