



ELECTRON DEVICES SOCIETY

*Promoting excellence in the field of electron devices
for the benefit of humanity*

EDS Field of Interest

The field of interest for EDS is all aspects of engineering physics, theory, experiment and simulation of electron and ion devices involving insulators, metals, organic materials, plasmas, semiconductors, quantum-effect materials, vacuum, and emerging materials



EDS MEMBERSHIP BENEFITS AND SERVICES

IEEE EDS Members enjoy an incredible array of free and deeply-discounted, members-only benefits for only US\$10.00 per year. Students receive even more for only US\$5 a year!

Here's a sample of the value of joining EDS:

EDUCATION

- Attend live [EDS Webinars](#), or **free** access to replays of past events on the [Webinar Archive](#)
- Attend [Virtual Chapter Events](#) throughout the world

PUBLICATION

- Keep abreast of the latest [technical content](#) with **free access** to top IEEE journals
- Read Technical Briefs and Society News in the [EDS Newsletter](#)

NETWORKING

- Network with EDS members using the [IEEE EDS Member Roster](#)

AWARDS

- Access to [Cash Awards](#) and Recognition with our Student Fellowship Programs

LEADERSHIP

- Volunteer Opportunities in Humanitarian Programs and Society Governance

PROJECTS

- Members can request **funding** for humanitarian projects

EXPERIENCE

- Hear personal interviews with distinguished EDS members with our [Podcast series](#)

FRIENDSHIP

- [Connect with EDS](#) on Social Media



IDEAS

- EDS Resource Center – a portal to all EDS content



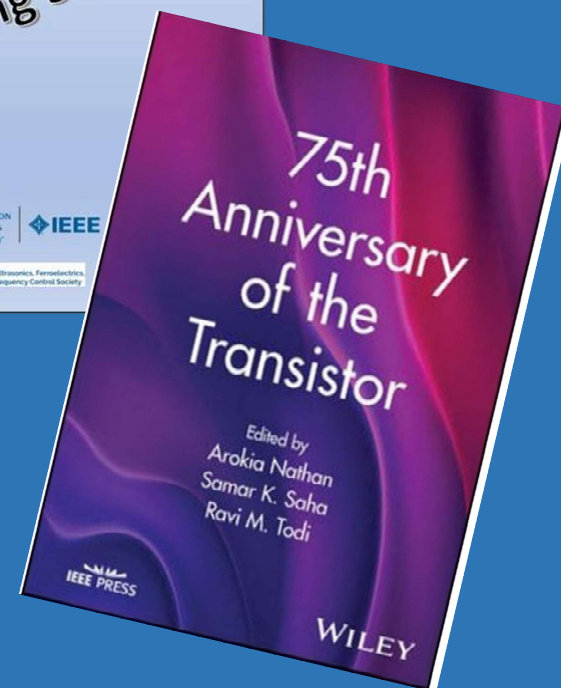
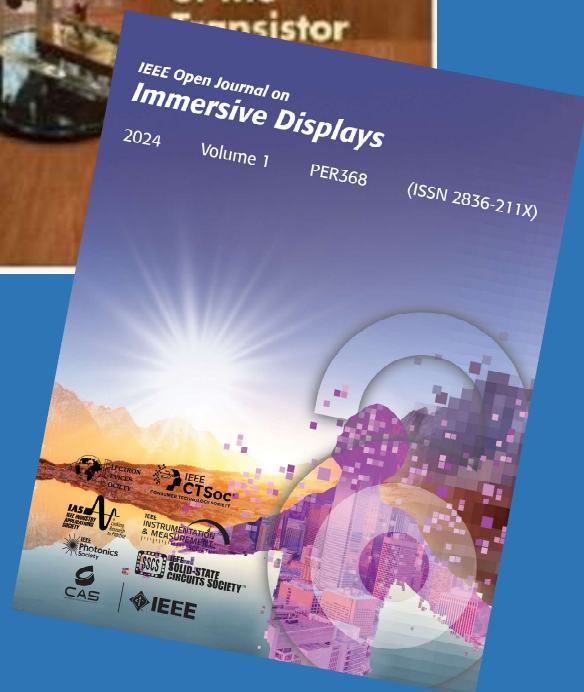
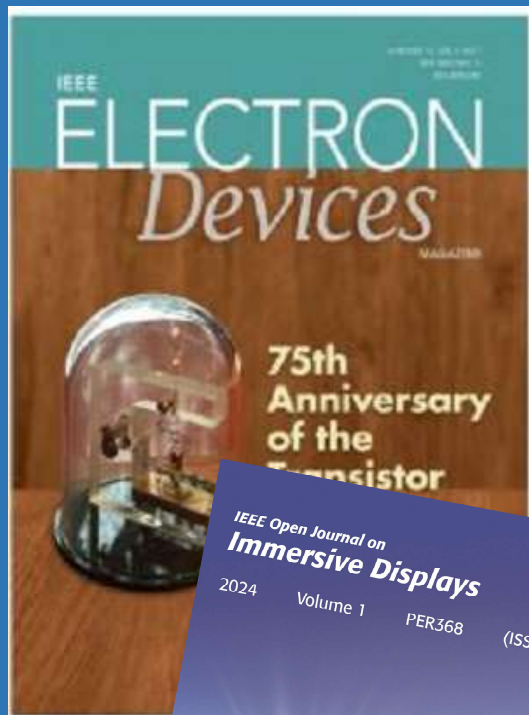


CURRENT EDS CONFERENCE PORTFOLIO

EDS sponsors/co-sponsors over 100 Conferences

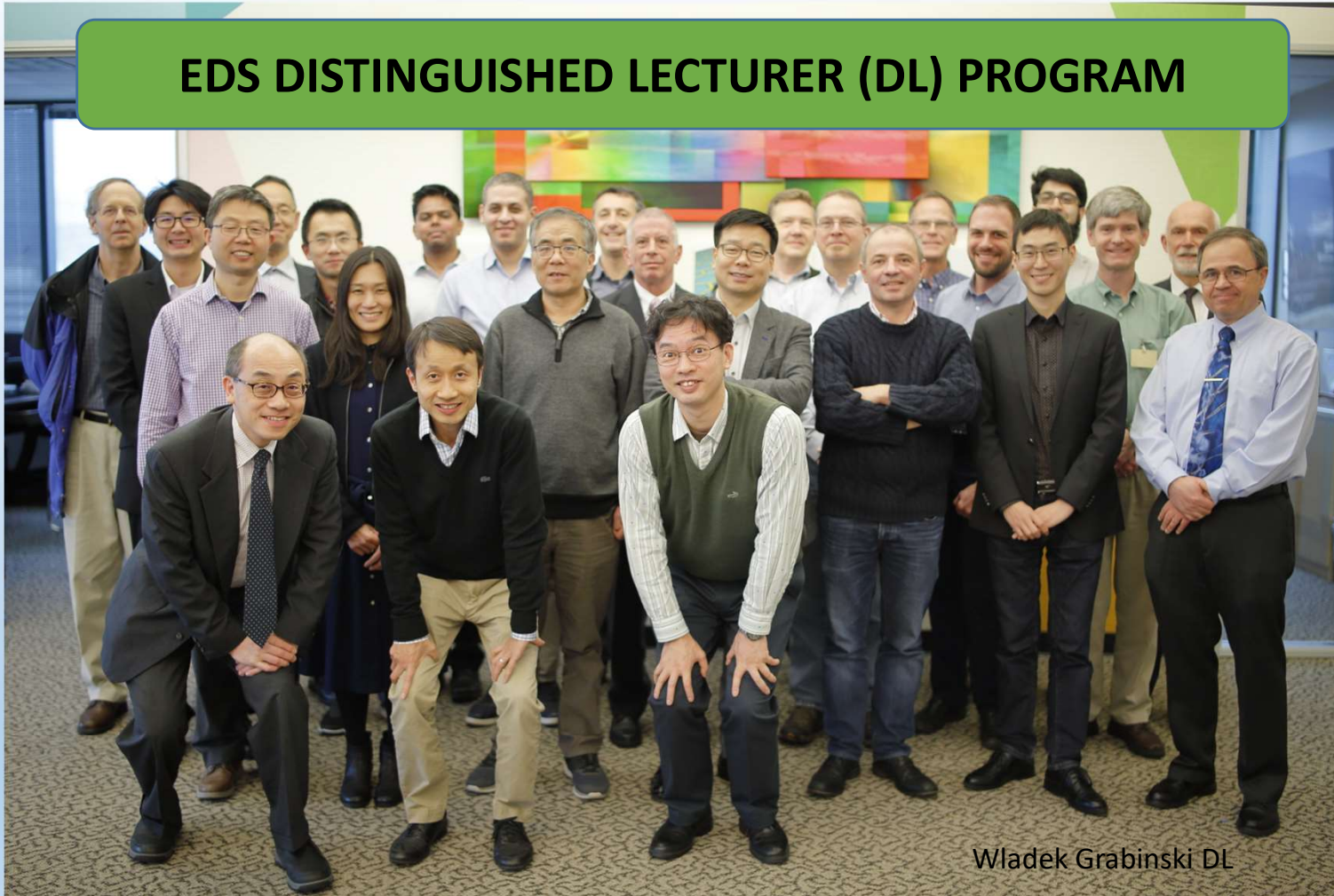
- 18 Financially Sole or Co-Sponsored for 2020
- 11 Alternates between Financially and Technically Co-Sponsored
- 75-80 Technically Co-Sponsored

NEW PUBLICATIONS



Visit eds.ieee.org/publications

EDS DISTINGUISHED LECTURER (DL) PROGRAM

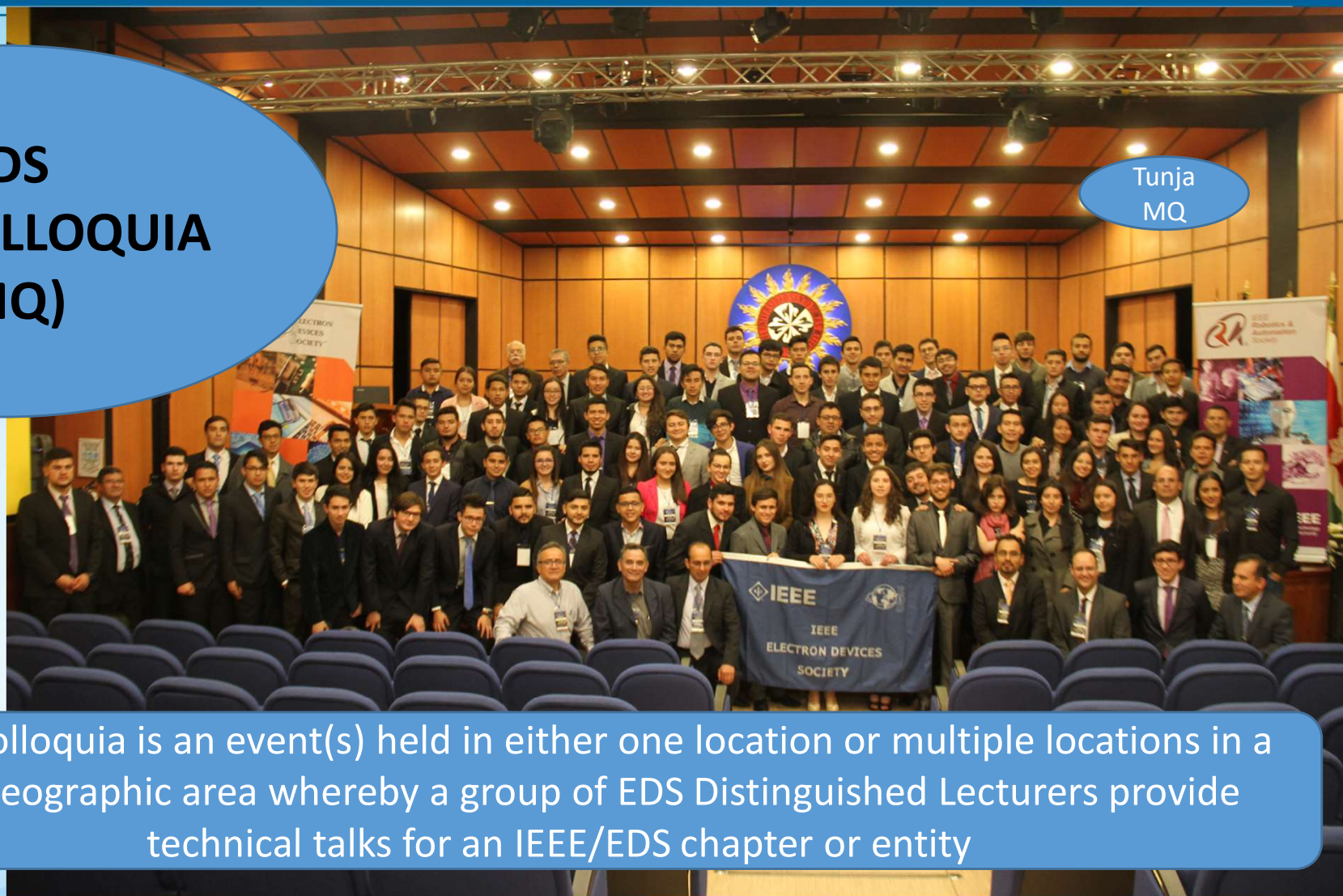


Wlodek Grabinski DL

The EDS DL Program exists for the purpose of providing EDS Chapters with a list of quality lecturers who can present talks at local chapter meetings

EDS MINI-COLLOQUIA (MQ)

Tunja
MQ



A mini-colloquia is an event(s) held in either one location or multiple locations in a given geographic area whereby a group of EDS Distinguished Lecturers provide technical talks for an IEEE/EDS chapter or entity

ELECTRON DEVICES SOCIETY ROSTER

- Officers (President, President-Elect, Treasurer, Secretary)
- Executive Committee (Officers, Jr. & Sr. Past Presidents, Vice Presidents)
- Board of Governors (BoG) Members at Large
- Standing Committees (VPs/Chairs/Members)
- Technical Committees (VPs/Chairs/Members)
- Publication Editor in Chiefs
- Publication Representatives
- EDS Representatives to IEEE S/Cs
- SRC Chairs/Vice Chairs and Chapter Chairs





EDS-ETC PROGRAM



EDS-ETC

Engineers Demonstrating Science:
an Engineer Teacher Connection



EDS WEBINAR SERIES – LIVE LECTURES WITH LUMINARIES FROM THE FIELD OF ELECTRON DEVICES



Professor Mark Lundstrom
Transport Theory for 21st Century Device
Technologists



Professor Leon Chua
Five Non-Volatile Memristor Enigmas
Solved



Professor Shimeng Yu
Resistive Devices and Circuits for Neuro-
Inspired Computing

Visit (eds.ieee.org) to view the webinars we are offering!



EDS PODCAST SERIES WITH EDS LUMINARIES

Join us as we host interviews with some of the most successful members of our Society sharing their lives and careers. Their insight and wisdom will be invaluable inspiration and knowledge for those in the engineering field.

Some of our recent Podcasts are with the following Luminaries:



PROFESSOR CHENMING HU
University of California, Berkeley



PROFESSOR JAYANT BALIGA
North Carolina State University



PROFESSOR KURT PETERSEN
Silicon Valley Band of Angels



PROFESSOR ROBERT W. DUTTON
Stanford University

Listen to the EDS Podcast Series: <https://eds.ieee.org/education/podcasts>

EDS Collaboration with IEEE SIGHT

IEEE SIGHT Program

IEEE Special Interest Group on Humanitarian Technologies (SIGHT) – Funding Opportunities



SIGHT Members - 7,631 in 102 countries



SIGHT Groups - 138 in 48 countries



SIGHT Projects - 42 proposals awarded over \$300k in funding (2016 – 2019)

Jointly funding \$20K for water project in Nicaragua

IEEE ELECTRON DEVICES SOCIETY (EDS) MISSION

To foster professional growth of its members by satisfying their needs for easy access to and exchange of technical information, publishing, education, and technical recognition and enhancing public visibility in the field of Electron Devices.

EDS Vision

Promoting excellence in the field of electron devices for the benefit of humanity



Publishing – Exchange of Information

- Journals
- Open Access
- Conferences



Education – Professional Growth

- Live Webinars
- Podcasts
- Distinguished Lectures
- Student Outreach



Technical Recognition

- Awards
- Honors
- Student Fellowships

NEWS BRIEFS SENT TO ALL IEEE EDS MEMBERS

The **EDS Society Brief** and **EDS Conference Brief** are emailed monthly to all members. One-stop resources to get all electron device related conference announcements and society news. Notices are archived on the society website.



Society Brief

<https://eds.ieee.org/about-eds/eds-society-brief>



Conference Brief

<https://eds.ieee.org/conferences/eds-conference-brief>

EDS PUBLICATIONS

EDS sponsors, or co-cosponsors, over a dozen outstanding, industry-leading periodicals and journals.

Since 1954, EDS has been a leading publisher in the field of electron device engineering.

- Journal of Photovoltaics (J-PV)
- Journal of the Electron Devices Society (J-EDS)
- Electron Device Letters (EDL)
- Transactions on Electron Devices (T-ED)
- Journal of Microelectromechanical Systems (J-MEMS)
- Transactions on Semiconductor Manufacturing (T-SM)
- Journal of Lightwave Technology (JLT)
- Journal of Flexible Electronics (J-FLEX)

EDS CELEBRATED MEMBERS

**When you're an
EDS member,
you're in
good company**



*Dr. George E. Smith
2010 EDS Celebrated
Member*



*Dr. Herb Kroemer
2011 EDS Celebrated
Member*



*Prof. Leo Esaki
2012 EDS Celebrated
Member*



*Prof. Chihtang Sah
2012 EDS Celebrated
Member*



*Dr. Robert Dennard
2015 EDS Celebrated
Member*



*Prof. Jayant Baliga
2015 EDS Celebrated
Member*



EDS
CELEBRATED
MEMBERS



- ▶ **2016**
- ▶ **Late Prof. Mildred Dresselhaus**
- ▶ Massachusetts Inst. of Tech.
- ▶ Cambridge, MA, USA



- 2017**
- Dr. Gordon Moore**
- Intel Corporation
- Santa Clara, CA, USA



Our 10,000+ members include undergraduate students, academics, and industry leaders like our EDS Celebrated Members



- 2017**
- Prof. Simon Sze**
- National Chiao Tung Univ.
- Hsinchu, Taiwan

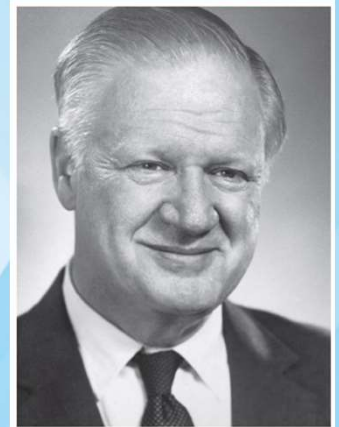


- 2018**
- Prof. Martin Green**
- University of New South Wales
- Sidney, Australia



- 2019**
- Leon O. Chua**
- University of California, Berkeley
- Berkeley, CA, USA

EDS AWARDS



John J. Carlin

EDS continues to be a vibrant society with its members earning accolades in the global technical community. Visit the EDS website today to submit your award nomination

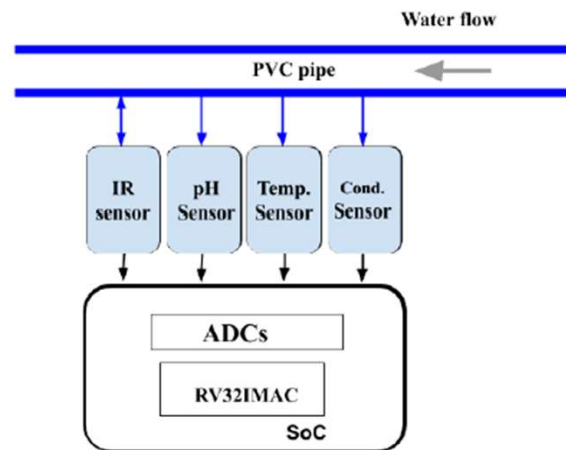
RECENTLY APPROVED EDS FUNDED PROJECTS



IEEE Education PV Citizen Science

Extending NEREID roadmap methodology and data gathering to a larger academic/industrial group

Embedded Water Quality Sensors to Enable Fast Critical Public Health Decisions



Support photovoltaic solar alliance



Electron Devices Technology and Manufacturing Conference

EDTM Student Support Grants



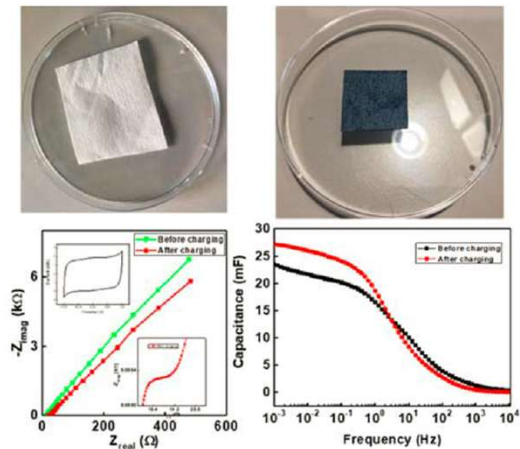
RECENTLY APPROVED EDS FUNDED PROJECTS



Solar-powered desalination

2020 EDS
Summer School

Sponsorships towards Industrial
Placement by the IEEE EDS
Society



Electronics towards Circular
Economy and Environment
Sustainability



IEEE Electron Devices Society Membership Promotion

Use promotion code **TRYEDS2024** to get FREE EDS membership for a year.*

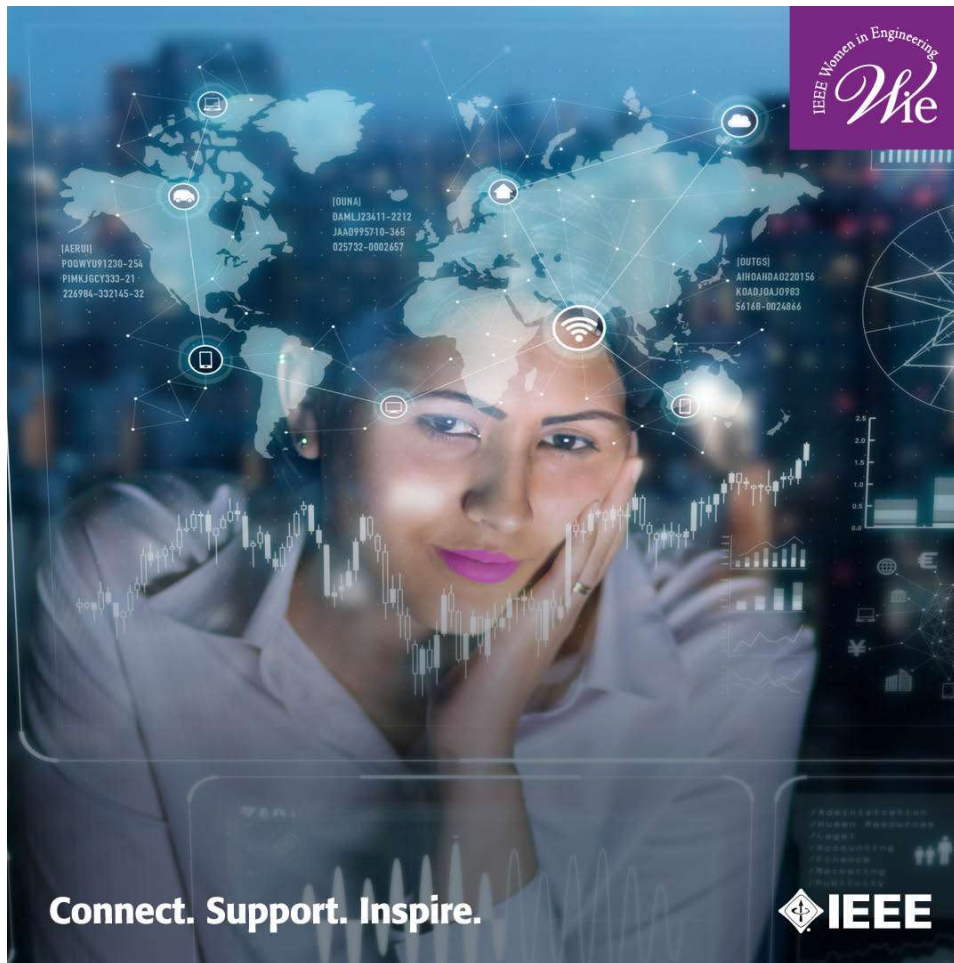
This offer is valid for IEEE members and new joins to IEEE.

Offer valid for students and professionals!

To learn more about EDS and our society member benefits:

<https://eds.ieee.org/members/special-membership-discounts>

**The IEEE membership year ends on 31 December 2022*



IEEE Electron Devices Society Membership Promotion for Members of IEEE Women in Engineering

Use promotion code **EDSWIE2024**
to join for \$1

This offer is valid for IEEE WIE
members

To learn more about EDS and our
society member benefits
www.ieee.org/eds



EDS on Social Media

- ▶ Like/Follow/Connect with us:



IEEE Electron Devices Society
@IEEEElectronDevicesSociety - Non-profit organisation



IEEE Electron Devices Society
@IEEEEDS



**We hope you enjoy this event of the
IEEE Electron Devices Society.
Thank you for your participation.**

Click the QR code to learn more about EDS and sign up today.

