

The Sensors Council returns value to its 26 IEEE member societies by serving the community in the multi-disciplinary technical area of Sensors. This coverage includes publications, conferences, Distinguished Lecturers, and more services that complement the member society's offerings.

IEEE SENSORS COUNCIL MEMBER SOCIETY RETURN ON INVESTMENT (ROI)

Technical Councils are established for the purpose of providing a continuing mechanism for two or more IEEE societies, called "Member Societies," to work together in a multi-disciplinary technical area of mutual interest. Councils are defined by IEEE policies and may be created by TAB. Every member society of a Council appoints its own representative to the Council.

IEEE SENSORS COUNCIL:
iee-sensors.org



"The fields of interest of the Council and its activities shall be the theory, design, fabrication, manufacturing and application of devices for sensing and transducing physical, chemical, and biological phenomena, with emphasis on the electronics, physics and reliability aspects of sensors and integrated sensor-actuators."

When the Council was formed in 1999, each of the 26 joining member societies paid a one-time fee of \$2,000. The only on-going financial obligation of our member societies is the annual costs to send one volunteer (society-appointed member representative) to the AdCom meetings. Previously, one meeting was held each year at the IEEE SENSORS conference location. Starting in 2016, a 2nd meeting was added for the following reasons: 1) early engagement of new volunteers (waiting until November was not efficient); 2) consistency of programs/projects; 3) better training and mentoring of volunteers; and 4) a deeper involvement of AdCom members in Council programs.

HIGHLIGHTS OF THE SENSORS COUNCIL

Purpose: Foster joint activities among societies engaged in sensors-related research and/or use of sensors in specific applications.

FINANCES

Leveraging the \$52K startup funding from member societies, the Council has been self-supporting ever since. Council reserves have stayed above 50% of annual expenses since formation. Member societies are not liable for financial risks of the Council.

SENSOR COUNCIL CONFERENCES (100% SPONSOR)

- IEEE SENSORS (started in 2002) – SENSORS is our annual flagship conference with a 3-year international geographic rotation (Americas, Europe/Middle-East/Africa, and Asia/Pacific). iee-sensorsconference.org
- IEEE Inertial Sensors & Systems (INERTIAL) started in 2013 – iee-inertial.org
- IEEE Conference on Flexible and Printable Sensors and Systems (FLEPS) started in 2019 – iee-fleps.org
- IEEE Sensors Interface Meeting (SIM) starting in 2020 – iee-sim.org

SHARED CONFERENCES

- IEEE World Forum on Internet of Things (WF-IoT) – iee-wf-iot.org
- Symposium on Olfaction and Electronic Nose (ISOEN) – isoen.org

SENSORS COUNCIL PUBLICATIONS (100% SPONSOR)

- Sensors Journal (started 2001, fully digital, 1000+ papers annually, with a median time to e-publication of 9 weeks)
- Sensors Letters (started in 2017, rapid disclosure, length-limited online publication addressing sensor technologies and applications across all the Member Society disciplines)

SHARED PUBLICATIONS

- IEEE Internet of Things Journal (34%) with Computer & Communications Societies
- IEEE Transactions on Big Data (7.5%)
- IEEE Transactions on Games (ToG) (5%)
- IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology (J-ERM) (10%)
- IEEE Journal on Miniaturization for Air and Space Systems (J-MASS) (25%)

SENSORS STANDARDS (STARTED IN 2015)

The Council's Standards Committee will work with the Council's Member Society Relations Committee to organize standards-related workshops at Member Society conferences. In 2015, the Council formed an Industry Liaison Committee which will coordinate the Council's industry initiatives, including the search for new sensor standard topics and create sponsorship and other links between industry and Sensor Council conferences.

DISTINGUISHED LECTURERS

Distinguished Lecturers promote the field of Sensors to the broad engineering and scientific community, and to the public at large by lecturing at local IEEE chapters, universities and companies, high schools, and science fairs. iee-sensors.org/dlp

IEEE SENSORS COUNCIL CHAPTERS

Chapters are organized by local groups with interest in promoting sensors. The Council website identifies the leadership of Sensors Chapters: iee-sensors.org/chapters

- Bangalore Chapter
- Boston Chapter
- Central Texas Chapter
- Chicago Chapter
- China Joint Chapter
- Cleveland Chapter
- Dallas Chapter
- France Chapter
- Galveston Bay Joint Chapter
- Gujarat Chapter
- Italy Chapter
- Kitchener-Waterloo Chapter
- Lahore Student Chapter
- Malaysia Joint Chapter
- Mexico Joint Chapter
- Montreal Chapter
- Nanjing Chapter
- New South Wales Chapter
- Northern Virginia/Washington DC Chapter
- Richland Chapter
- Santa Clara Valley Joint Chapter
- Singapore Chapter
- Spain Chapter
- Taipei Chapter
- Tainan Chapter
- Tunisia Chapter
- UK and Ireland Chapter

COUNCIL MEMBERSHIP BENEFITS FOR SOCIETIES

Member Societies control the Council

1. A society-appointed representative holds a voting seat on the administrative committee, providing direct input to Council direction. These representatives can participate in Council committees, similarly influencing future activities.

The Council is not in competition for society members

2. Councils have no dues-paying members, only Member Societies. Therefore, there is no competition in society membership between Member Societies and the Sensors Council.

The Council offers visibility to its Member Societies

3. The Council website links to each Member Society's home page. Social media accounts are similarly linked.
4. Splash ads for Member Societies if provided will appear on a rotation in the Council Newsletter. A new newsfeed is planned for the Council website and will integrate splash ads as space is available.
5. Member Society informational slides are highlighted between sessions at the annual IEEE SENSORS Conference.
6. Annual IEEE SENSORS Conference shared booth space available at no cost to Member Societies. AdCom members are available at our exhibit booth at the annual IEEE SENSORS Conference to assist IEEE-member attendees in obtaining IEEE Senior Member elevation. Option for Member Society owned conference or publication advertising material can be added to SENSORS attendee bags.

The Council offers services to Member Society members

7. Distinguished Lecturers are available. They have presented at conferences and chapter meetings, most frequently in collaboration with Member Society chapters. The Sensors Council's Distinguished Lecturer Program (DLP) promotes the field of sensors to the broad engineering and scientific community, and to the public at large.
8. The Council delivers value to your society members who are technology-focused IEEE members whose careers involve sensors technology research, development, and its applications. This is accomplished through technical conferences, presentations, standards and publications. Society members interested in Sensors can form or join local Sensors Chapters.
9. Member Societies (or groups of societies) can choose to partner with the Council in joint ventures.
10. Member Society members hold a range of editorial positions in Sensors Council publications.

IEEE SENSORS COUNCIL MEMBER SOCIETIES

AdCom representatives appointed by their society are listed on this website:

ieee-sensors.org/administrative-committee-and-other-officials

Aerospace and Electronic Systems
Antennas and Propagation
Broadcast Technology
Circuits and Systems
Communications
Computer
Consumer Electronics
Dielectrics and Electrical Insulation
Electromagnetic Compatibility
Electron Devices
Electronics Packaging
Engineering in Medicine and Biology
Industrial Electronics
Industry Applications
Instrumentation and Measurement
Magnetics
Microwave Theory and Techniques
Oceanic Engineering
Photonics
Power and Energy
Reliability
Robotics and Automation
Signal Processing
Solid State Circuits
Ultrasonics, Ferroelectrics, and
Frequency Control
Vehicular Technology

IEEE SENSORS COUNCIL CONTACTS

President (2020-2021)

ANDREI SHKEL
ashkel@uci.edu

President Elect

RAVINDER DAHYIA
ravinder.dahiya@glasgow.ac.uk

Past President

FABRICE LABEAU
fabrice.labeau@mcgill.ca

Publicity Chair

CHRIS SCHOBBER
chris.schober@honeywell.com