

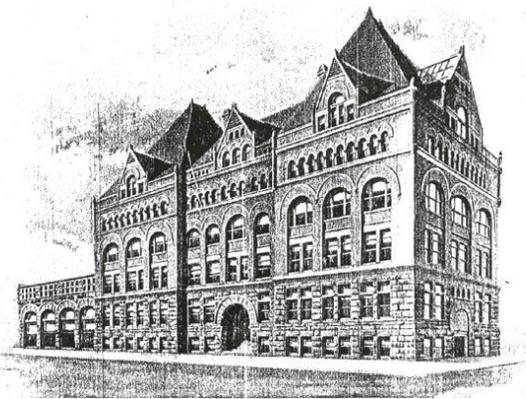


# IEEE

## IEEE CHICAGO SECTION FAIR

A CELEBRATION OF 125 YEARS OF SERVING CHICAGO'S ELECTRICAL ENGINEERING PROFESSIONALS

The Chicago Section of the Institute of Electrical and Electronics Engineers (IEEE) is hosting a fair in recognition of the 125th anniversary of its first meeting that was held at the Armour Institute in 1894. The IEEE is the world's largest technical professional organization for the advancement of technology, and the Chicago Section has the unique distinction of being the first section formed outside of the New York headquarters. The fair will be held on Saturday April 27, 2019 between the hours of 10:00 a.m. and 2:00 p.m. at the newly opened Kaplan Institute on the campus of Illinois Institute of Technology (IIT) to recognize the contributions made by Chicagoland electrical and electronics engineers, and to encourage high-school students to pursue careers in science and engineering.



*Armour Institute 1893*



*Kaplan Institute 2018*

**IEEE Chicago Section Fair**  
**Saturday April 27th**  
**10:00 a.m.-2:00 p.m.**  
**Kaplan Institute, Illinois Tech**  
**3137 S Federal St, Chicago, IL 60616**

High-school students, their families, IEEE members and non-members, IIT students, faculty and alumni are invited to attend. Admission is free although registration is required. Children under the age of 18 must be accompanied by an adult.

- There will be several table-top displays by IEEE society chapters demonstrating the technologies they represent while explaining their everyday work as engineers

- Poster-board displays relating the history of the IEEE Chicago Section and IEEE milestones granted to Chicago-area events
- Short presentations on the value of engineering to society, reasons for choosing engineering as a career, and scholarship opportunities
- Optional tours of the IIT campus, Microgrid, and the Real-Time Communications Lab will be offered.

## WHY YOU SHOULD ATTEND

The Fair is open to the public and free to attend although you must first register. This is an opportunity for the public to learn about the IEEE Chicago Section and to learn what Chicago area engineers do! For high-school students contemplating college, this is a chance to talk to enrolled students and working engineers on what it takes to have an engineering career. Virtually all disciplines within the electrical engineering profession are represented by IEEE Chicago Section society chapters where in the exhibit area, the society chapters will demonstrate and discuss their field of expertise. In the speaker's area, you can listen to professionals on how engineering contributes to the public good and what opportunities exist by having an engineering education. Whether you are a high school student, a university student, an industry professional, academic professional, retired, or love engineering and technology, learn how the Chicago engineering community continues contributing to society.

## ABOUT US

The Institute of Electrical and Electronic Engineers (IEEE) is the world's largest technical professional organization for the advancement of technology. In the spring of 1884, a small group of individuals in the electrical professions met in New York to form the American Institute of Electrical Engineers, or AIEE for short. Meetings were typically held only in New York making it difficult for "western engineers," those who lived outside the east coast, to attend. A highly successful Columbian Exposition in 1893 provided the opportunity for the western engineers to plead their case that local AIEE meetings should be allowed. New York was concerned that the quality of AIEE papers would be diluted if both Chicago and New York were inviting papers to be discussed. The compromise made was that there would be simultaneous readings of the same paper in Chicago and New York with a surrogate presenter in Chicago defending the author in New York.

In February 1894, the Chicago group made a formal request to hold meetings in Chicago and the request was granted. Professor Stine of Armour Institute (predecessor to IIT) offered the use of his lecture room for the first meeting to be held on March 21, 1894. The Chicago Telephone company setup long distance lines to New York for the simultaneous paper reading. The meeting was a great success and several years later the concept of "sections" was formalized by the AIEE.

In 1963, the Institute of Radio Engineers (IRE) and the AIEE merged to form the IEEE. The IEEE Chicago Section remains as the first section established outside of New York residing in IEEE's Region 4.

## VENUE

The IEEE Chicago Section Fair will be held at the Ed Kaplan Family Institute for Innovation and Tech Entrepreneurship. This LEED-Gold designated building is the first new academic building built on Illinois Tech's Mies Campus in more than 40 years. The Kaplan Institute houses unique facilities and equipment for implementing novel, educational, and entrepreneurial strategies, programs and initiatives. It features workshops, media labs, classrooms, collaborative hubs, new and emerging technologies, and "maker spaces." The Kaplan Institute houses and supports programming of the Interprofessional Projects (IPRO) Program where students collaborate on interdisciplinary teams in tackling real-world problems. Examples of their work will be shown in the exhibit area.

The Fair will be held on the ground floor of the Kaplan Institute with an exhibit area for tabletop and poster board displays, and a speaker's area for short, informal talks. Visitors can sign up for optional scheduled tours of the IIT campus during or after the event.

## OUR HOST

The IEEE Chicago Section recognizes the generosity of IIT in the use of the new Kaplan Institute, and for participating in the fair. Interdisciplinary teams from IPRO Day have been invited to showcase their accomplishments. IIT ambassadors are offering scheduled tours of the resources on campus. From the Chicago Section's first meeting 125 years ago, IIT has continually supported the IEEE.

## OUR SPONSORS

The Chicago Engineers' Foundation (CEF) – formed in 1903 to encourage and empower young people to become the next generation of engineers.

The Western Society of Engineers (WSE) – originator of the annual Washington Award which has been bestowed annually since 1916 to an engineer whose professional attainments have preeminently advanced the welfare of human kind.

## OUR DONORS

**S&C Electric** – founded in 1911, a Chicago-based global provider of equipment and services for electric power systems.

**UL** – a global independent safety science company with more than a century of expertise innovating safety solutions.

**BMW Technology Corporation** – Personal mobility companion

**Weldy-Lamont** – Manufacturers' Representatives of Electrical Power Products and Engineered Sales since 1946, with offices in Northern Illinois, Northwestern Indiana, and Iowa.

**Contemporary Controls** – Applying network solutions to automation projects.

**IEEE PACE** – Professional Action Committees for Engineers

**IEEE Life Members** – IEEE members who have attained life member status

## REGISTRATION

There is no cost to attend the Fair but registration is mandatory. All children under the age of 18 must be accompanied by an adult. For registration instructions, go to <https://ieeechicago.org/125th/>.

On the day of the event, check in at the registration desk for your badge.

## OPTIONAL TOURS

Illinois Tech student ambassadors will be hosting tours at 12:00pm and at 2:00pm of the IIT campus. A combined tour of IIT's Microgrid and Real-Time Communications Laboratory is also available at 2:00pm. You can register for these tours the day of the event at the registration desk.

## EXHIBIT AREA

**LOCATION: TELLABS INNOVATION ALLEY**

**10:00 A.M.–2:00 P.M.**

The 9,000 sq.-ft. Tellabs Innovation Alley will house tabletop displays, poster board displays and active demonstrations showcasing both technical and professional activities that represent the diverse makeup of the IEEE Chicago Section, the Chicago engineering community, and the educational community of researchers, educators and students.

The IEEE Chicago Section is comprised of various societies within the IEEE that are active locally. Each of these society chapters has been invited to the fair to demonstrate their technology. Representatives will be on hand to discuss career opportunities in their field.

- Antennas & Propagation/Microwave Theory and Techniques (APS/MTT)
- Communications (COM) Computer (CS)
- Electro Magnetic Compatibility (EMC)
- Engineering in Medicine and Biology (EMB)
- Industry Applications / Industrial Electronics (IAS/IES)
- Information Theory (ITS)
- Power and Energy (PES)
- Product Safety Engineering (PSES)
- Professional Communications (PCS)
- Reliability (RS)
- Signal Processing (SP)
- Systems, Man and Cybernetics (SMC)
- Technology and Engineering Management (TEMS)
- Vehicular Technology (VTS)

In addition, the IEEE-Chicago Section has non-technical affinity groups which will be represented.

- Chicago/Rockford Consultants' Network
- Women in Engineering
- Life Members
- Young Professionals

IEEE student branches are invited.

- Concordia University
- DePaul University
- Illinois Institute of Technology
- Lewis University
- Northwestern University
- University of Illinois at Chicago

## SPEAKERS SCHEDULE

### LOCATION: THE VICTOR MORGENSTERN PITCH

Grab a cushion and listen to short pitches about our long history, milestones that were achieved, the engineering challenges facing our society, the engineering community in Chicago, our recognition of individual engineer accomplishments, engineering education and scholarship opportunities, and why it is cool to be an engineer.

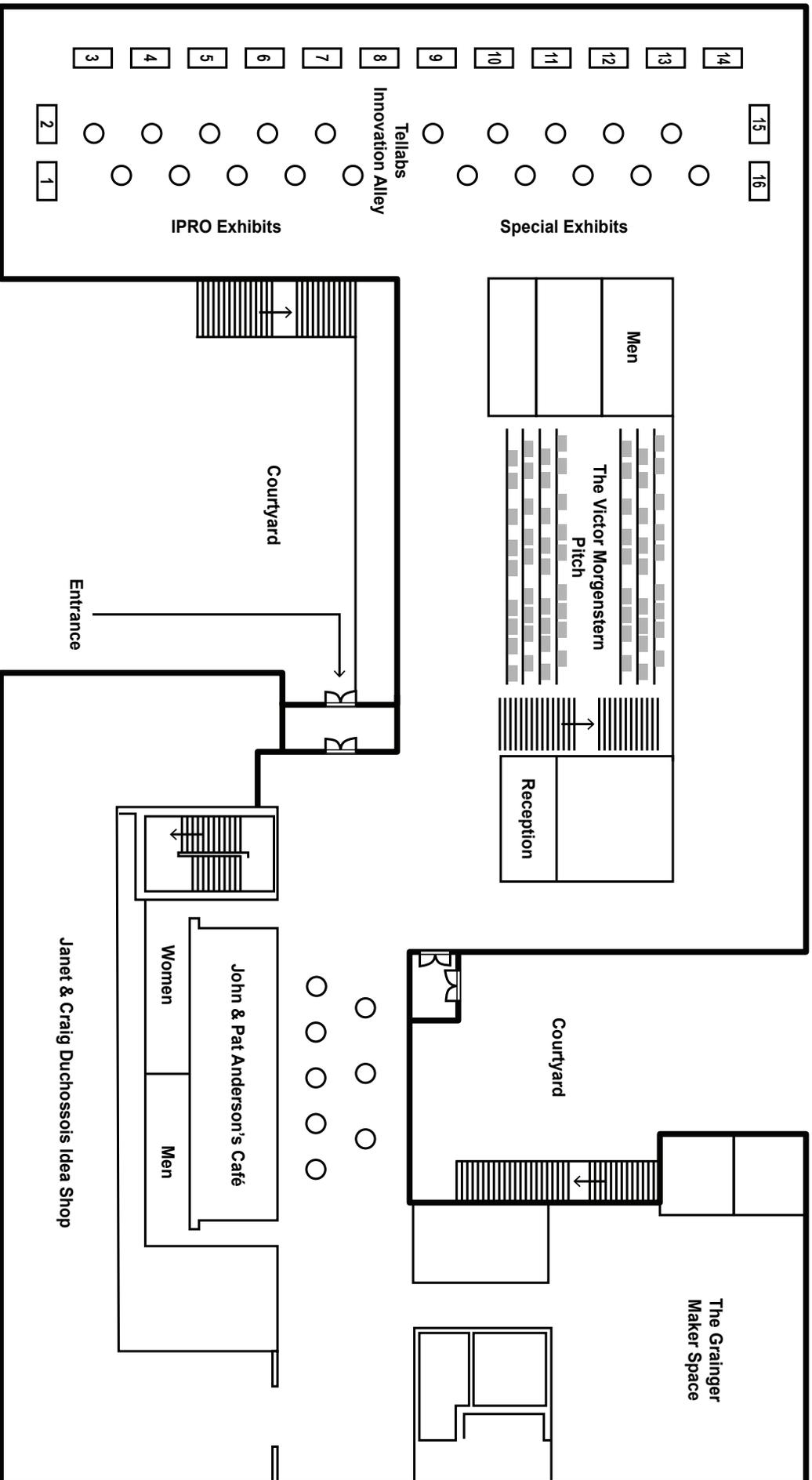
10:20 a.m. – 10:35 a.m.	“Welcome to the Fair” Lisa Schoedel – IEEE-Chicago Section Chair
10:40 a.m. – 10:55 a.m.	“1894 Was a Good Year for the Chicago Section” George Thomas – IEEE-Chicago Section History Chair
11:00 a.m. – 11:15 a.m.	“Scholarship Opportunities with the Chicago Engineers’ Foundation” Debbie Birrell – Executive Director, Chicago Engineers’ Foundation
11:20 a.m. – 11:35 a.m.	“Washington Award – Recognizing Accomplished Engineers” Pat Hennelly – Chairman, Western Society of Engineers
11:40 a.m. – 11:55 a.m.	“Machine Learning of Driver Behavior or Preferences” Alvin Chin – Senior Machine Learning Researcher, BMW Technology Corporation
12:00 p.m. – 12:15 p.m.	“Addressing the Ethical Challenges of Big Data” Dr. Ray Klump – Lewis University, Professor and Chair of Computer and Mathematical Sciences
12:20 p.m. – 12:35 p.m.	“Saving lives with Indoor Location Reporting.” Carol Davids – Director, IIT Real-Time Communications Laboratory
12:40 p.m. – 12:55 p.m.	“Origins of the Edison Medal” David Bart – Treasurer, IEEE History Committee
1:00 p.m. – 1:15 p.m.	TBD
1:20 p.m. – 1:35 p.m.	TBD

## REFRESHMENTS AND SNACKS

### LOCATION: JOHN & PAT ANDERSON’S CAFÉ

Coffee, juices, water, and snacks are available for purchase within the Kaplan Institute. Take a break at the John & Pat Anderson’s Café.

# Kaplan Institute – Ground Floor





# ILLINOIS INSTITUTE OF TECHNOLOGY

## Access, Card, and Parking Services



-  **Flex Permit Lots**
-  **Residential Permit Parking**
-  **A2 Permit Lot**  
Lot specific permit required
-  **Visitor Lot**
-  PlayStation location  
(Credit/Debit Card Only)
-  **Gold Parking**  
Lot specific gold permit, access to all general spaces

### Notes on Parking

Visitor parking areas on both Federal Street and State Street are denoted in yellow.

On Saturdays you do not need to feed the meters. Permit lot restrictions are not enforced on Saturdays.

However, at all times you are not allowed to park in reserved parking areas such as Gold, no parking zones, or areas restricted for special vehicles or pedestrians.

Overnight parking is not allowed.

