

# IEEE as Global Professional Platform in Azerbaijan



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# IEEE History in Brief

- American Institute of Electrical Engineers (AIEE) was formed in 1884. AIEE founders:
  - President Norvin Green of Western Union
  - Thomas Edison
  - Alexander Graham Bell
  - Nikola Tesla
- Institute of Radio Engineers (IRE) came in 1912. Technologies triggered IRE establishment:
  - Marconi's wireless telegraph
  - John Fleming's diode
  - Lee de Forest's triode



# IEEE History in Brief

- in 1957 IRE became larger than AIEE;
- On 1 January 1963, the AIEE and the IRE merged to the Institute of Electrical and Electronics Engineers (IEEE):
- IEEE had 150,000 members, 140,000 of whom were in the United States

# IEEE Quick Facts

- more than 400,000 members in more than 160 countries;
- more than 100,000 student members;
- 333 sections in 10 geographic regions worldwide;
- 2,081 technical chapters;
- 1,855 student branches at colleges and universities in 80 countries;
- 533 student branch chapters;
- 38 societies and 7 technical councils;
- IEEE Xplore Digital Library has nearly 3 million documents

# IEEE Quick Facts

- 1,300 standards and projects under development;
- more than 150 transactions, journals and magazines;
- sponsors more than 1,200 conferences in 78 countries;
- attracting more than 450,000 conference attendees;
- publishing more than 1,200 conference proceedings via IEEE Xplore;

# IEEE Core Areas of Activity

- ▣ Membership
- ▣ Conferences
- ▣ Standards
- ▣ Education
- ▣ Publishing



# IEEE Mission

*IEEE promotes the engineering process of creating, developing, integrating, sharing, and applying knowledge about electro and information technologies and sciences for the benefit of humanity and the profession*





# IEEE Regional World Map

Over 400,000 Members



# Staying Technically Current

## IEEE Spectrum Magazine

- Monthly, the award-winning IEEE Spectrum magazine explores the creation, application and implications of new technologies

## IEEE.tv

- IEEE's Internet television, exclusive Member programming and file downloading privileges

## The Institute Newsletter

- Monthly (4 print, 8 online) newsworthy IEEE activities both in professional and technical areas

## IEEE Potentials Magazine

- 6 issues (online), the magazine for technology's rising, student innovators

## IEEE Xplore Digital Library

- Table-of-contents and abstracts (1.9 million documents)

### *Additional Benefits (add-ons)...*

- IEEE Member Digital Library, Proceedings of the IEEE



# Professional Networking

## Sections, Student Branches, and Technical Chapters

- ❑ Local, face-to-face technical and social meetings
- ❑ Engage peers through informative technical meetings
- ❑ Recognition of accomplishments



## IEEE MemberNet

- ❑ Authoritative member directory of IEEE
- ❑ Networks personalized to each member
- ❑ Opt-in privacy protection



## IEEE e-Mail Alias

- ❑ Identifies you as the IEEE 'family'
- ❑ Virus protection and spam filtering

## IEEE Mentoring Connection

- ❑ Peer-to-peer advice and counsel
- ❑ Participate as either mentor or mentee



## Volunteering

- ❑ Opportunities that build leadership skills and networking opportunities

# Society Membership

- Aerospace & Electronic Systems
- Antennas & Propagation
- Broadcast Technology
- Circuits & Systems
- Communications
- Components, Packaging, & Manufacturing Technology
- Computer
- Computational Intelligence (formerly Neural Networks)
- Consumer Electronics
- Control Systems
- Dielectrics & Electrical Insulation
- Education
- Electromagnetic Compatibility
- Electron Devices
- Engineering in Medicine & Biology
- Geoscience & Remote Sensing
- Industrial Electronics
- Industry Applications
- Information Theory
- Instrumentation & Measurement
- Intelligent Transportation Systems
- Magnetics
- Microwave Theory & Techniques
- Nuclear & Plasma Sciences
- Oceanic Engineering
- Photonics
- Power Electronics
- Power Engineering
- Product Safety Engineering
- Professional Communication
- Reliability
- Robotics & Automation
- Signal Processing
- Society on Social Implications of Technology
- Solid-State Circuits
- Systems, Man, & Cybernetics
- Ultrasonics, Ferroelectrics, & Frequency Control
- Vehicular Technology

# IEEE Standards Association

*A standards program that serves the global needs of industry, government, and the public*

## ❑ Individual Membership

- ❖ Unlimited balloting
- ❖ IEEE-SA news
- ❖ IEEE-SA Member Central
- ❖ Member discounts
- ❖ Voting Rights, IEEE-SA governance

## ❑ Corporate Membership

- ❖ Corporate Forum
- ❖ Corporate Advisory Group
- ❖ Online Community
- ❖ Complimentary Individual memberships
- ❖ Voting Rights, IEEE-SA governance



# IEEE History in Azerbaijan

- AICT2009 | The 3rd International Conference in Baku, 14-16 October 2009, [www.aict.info/2009](http://www.aict.info/2009)



# IEEE History in Azerbaijan

- AICT2010 | The 4th International Conference in Tashkent, 12-14 October 2010

[www.aict.info/2010](http://www.aict.info/2010)



# IEEE History in Azerbaijan

- AICT2011 | The 5th International Conference in Baku, 12-14 October 2011, [www.aict.info/2011](http://www.aict.info/2011)





# IEEE History in Azerbaijan

- AICT2012 | The 6th International Conference in Tbilisi, 17-19 October 2012, [www.aict.info/2012](http://www.aict.info/2012)



# IEEE History in Azerbaijan

1-st International Information Security Workshop

Baku, Azerbaijan, June 19 - 20, 2012,

<http://ce.qu.edu.az/InfoSec/>



The 1<sup>st</sup> International Workshop on  
**Information Security**

Think security first, protect your vital information...

Baku, Azerbaijan, 19-20 June, 2012

<http://ce.qu.edu.az/InfoSec/>



# IEEE History in Azerbaijan

- AICT2013 | The 7th International Conference in Tbilisi, 09-11 October 2013, [www.aict.info/20123](http://www.aict.info/20123)



# Conferences Endorsed and Supported by IEEE Azerbaijan Chapter

- The 4th International Conference on Problems of Cybernetics and Informatics (PCI'2012), Baku-Azerbaijan, 12-14 September, <http://www.pci2012.science.az/en/>
- The 6th International Conference on Application of Information and Communication Technologies (AICT2012), Tbilisi-Georgia, 17-19 October 2012, <http://www.aict.info>
- The 3rd Asian Himalayas International Conference on Internet (AH-ICI2012), Kathmandu-Nepal, November 23-25, <http://www.ah-ici.org/AH-ICI2012/>

# Conferences that will be Supported by IEEE Azerbaijan Chapter

- The 10th International Conference on Electronics Computer and Computation (ICECCO'2013), Ankara-Turkey,  
<http://www.icecco.org/index.php/ICECCO/ICECCO>
- International Conference on Artificial Intelligence and Systems, Divnomorskoye-Russia (Black Sea Coast),  
<http://icai.tsure.ru>

# Seminars and Workshops organized by IEEE Azerbaijan Chapter

- ❖ Seminar on "Features and Benefits of Subscribing to the IEEE/IET Electronic Library (IEL)", National Center For Scientific and Technical Information of Kazakhstan, Almaty-Kazakhstan, 23 August 2012
- ❖ Keynote speech on "IEEE Contribution for Academic Excellence and Research", Eurasian Higher Education Leaders' Forum at the Nazarbayev University, Astana-Kazakhstan, 20-21 August 2012
- ❖ The 1st International Information Security Workshop at the Qafqaz University, Baku-Azerbaijan, 19-20 June 2012, <http://ce.qu.edu.az/InfoSec>
- ❖ IEEE Seminar on "IEEE as a Global Student Engagement Professional Platform" at the Nazarbayev University, Astana-Kazakhstan, 14 June 2012
- ❖ The 3rd Local IEEE Seminar "IEEE as a Global Student Engagement Professional Platform" at the Qafqaz University, Baku-Azerbaijan, 17 December, 2011
- ❖ The 2nd IEEE Seminar "IEEE Membership Benefits and Opportunities" at the Information Technology Institute (ANAS), Baku-Azerbaijan, 09 February 2011
- ❖ The First IEEE Seminar in Azerbaijan "IEEE Membership Benefits and Opportunities" at the Qafqaz University, Baku-Azerbaijan, 26 January 2011

# Qafqaz University's IEEE Activities

- IEEE Azerbaijan Joint Chapter has been approved in 12 September 2011 - [www.ieee.org/go/azerbaijan](http://www.ieee.org/go/azerbaijan)
- IEEE Computer Society Azerbaijan Chapter - <http://chapters.computer.org/azerbaijan/>
- IEEE Communication Society Azerbaijan Chapter – <http://chapters.comsoc.org/azerbaijan/>
- Activities - <http://ieee.qu.edu.az>

# Join to IEEE



**Go to [www.ieee.org/JOIN](http://www.ieee.org/JOIN)**



# Thank you



## Questions