

“CENTRAL UKRAINE CHAPTER”

IEEE Ukraine Section (Kyiv) ED/MTT/CPMT/COM/SSC Societies Joint Chapter

ACTIVITY REPORT



Dr. KATERYNA IVANKO

koondoo@gmail.com

Chapter Officers

Chapter Chair:

Dr. KATERYNA IVANKO



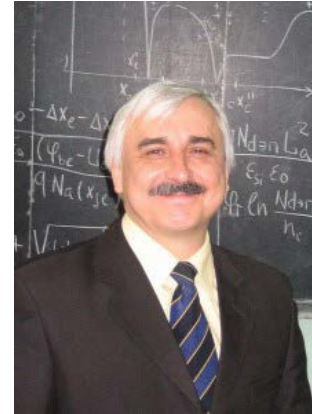
Vice Chair:

ANNA POREVA



Past Chapter Chair:

Prof. YURIY PROKOPENKO



Secretary:

KOSTIANTYN SAVIN



Treasurer:

PAVLO SERGIENKO



Web site of «Central Ukraine Joint Chapter»



Region 8 Chapter Chair Meeting of the IEEE Microwave Theory and Techniques Society, London

Posted on %A %B %e%q, %Y

Region 8 Chapter Chair Meeting of the IEEE Microwave Theory and Techniques Society was held in October 3, 2016 (Crowne Plaza London Docklands) in conjunction with the European Microwave Conference (London, United Kingdom, October 3-7, 2016). The 19th European Microwave Week at the London ExCEL Centre consisted of the Microwave Exhibition and three conferences: the 46th European Microwave

LANGUAGE

- English
- Ukrainian

CATEGORIES

- Conference
- Scientific meeting
- Без рубрики

<http://cua.ieee.org.ua/>

National Technical University of Ukraine
“Igor Sikorsky Kyiv Polytechnic Institute”,
Kyiv, Ukraine



Administrative activities

- Chapter expansion & development

- Promotion of students, graduate students, young scientists and engineers to IEEE.

- Organization of international scientific events

- Sponsorship and support of 3 international conferences and 1 congress
- 14 technical meetings took place in Kyiv during reported period (September 1, 2016 - May 20, 2017)

Main Sponsor of 37-th IEEE International Conference on Electronics and Nanotechnology (ELNANO-2017)

Financial involvement, informational and technical sponsorship

APRIL 18-20, 2017

*Igor Sikorsky Kyiv Polytechnic Institute,
Kyiv, Ukraine*

<http://www.elnano.kpi.ua>

373 authors from 19 countries

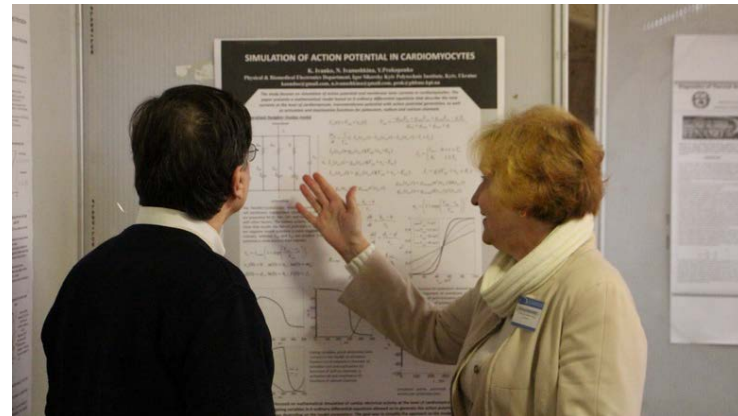
Submissions	140
Accepted	110



PLENARY SESSION, ORAL SESSION



POSTER SESSION



Co-Sponsor of
**2017 IEEE First Ukraine Conference on Electrical
and Computer Engineering (UKRCON)**

<http://ukrcon.ieee.org.ua>

Financial involvement, informational and technical support

May 29 – June 2, 2017

*Igor Sikorsky Kyiv Polytechnic Institute,
Kyiv, Ukraine*



The First IEEE UKRCON-2017 main goal, **Celebration of 25 Years of IEEE Ukraine Section**, reflects the profound impact of IEEE on the Ukrainian Science for the last 25 years. IEEE Ukraine Section was founded on **November 21, 1991**.

IEEE UKRCON-2017

Submissions Statistic

Track 1: Microwave Techniques, Antennas & Radar Systems = **57**

Track 2: Bioengineering & Robotics = **42**

Track 3: Energy Systems, Industry Application & Industry = **85**

Track 4: Nanoelectronics and Photonics, Electron Devices & Embedded Systems = **46**

Track 5: Systems Analysis, Computer Science & InfoCommunications = 135

Track 6: Engineering Education & History= **15**

More than 1000 authors from 39 countries

Submissions	380
Accepted	250

IEEE UKRCON-2017

Celebration of 25 Years of IEEE Ukraine Section Some Special guests and Speakers:



Prof. Sergei Gorlatch,
University of Muenster, Germany
“Future Distributed Applications Based on Mobile
Cloud Computing and Software-Defined Networks”



Mr. Costas Stasopoulos,
Past Director of the IEEE Region 8
(Europe, Middle East and Africa), Director Member of the
IEEE Board of Directors, Nicosia, Cyprus



Prof. Vincenzo Piuri,
The University of Milan, Milan, Italy
Candidate for 2018 IEEE President Elect
“Computational intelligence for industrial and
environmental applications”

IEEE UKRCON-2017

First IEEE Milestone Ceremony in Ukraine

IEEE MILESTONE

Zenit Parabolic Reflector L-band Pulsed Radar, 1938

The 1938 Zenit radar test at the Laboratory of Electromagnetic Oscillations of the Ukrainian Institute of Physics and Technology was a major advance in the development of radar. Designed by Abram Slutskin, Alexander Usikov, and Semion Braude, microwave scientists and magnetron pioneers, Zenit established the practicality of combining the pulsed method and a shorter wave band for determining precisely all three coordinates of airborne targets.

May 2017



Support of 2017 IEEE International Conference on Antenna Theory and Techniques (ICATT)

Informational and technical support

May 24, 2017 – May 27, 2017

TOPICS:

Adaptive antennas, smart antennas, signal processing;
Broadband and multifrequency antennas;
Antennas for mobile communications;
Antennas for remote sensing;
Antenna measurements;
Analytical and numerical methods;
Microwave components and circuits, fiber-optic links;
Industrial and medical applications of microwave technologies;
Antennas for radioastronomy.

Support of 4th IEEE Central European Student and Young Professionals Congress – CEuSYP 2017

30 June - 2 July, Lviv, Ukraine



Support of Scientific seminars

1. **Simulation of electro-mechanical processes in cardiomyosytes. *Natalia Ivanushkina***
2. **Study of the unsteady blood flow in aorta, pulmonary artery and ventricles based on the 4D MRI data. *Igor Nesteruk, Alberto Redaelli***
3. **Theoretical and numerical simulations of the platelets in micro-channels. *Igor Nesteruk, Alberto Redaelli***
4. **Fundamentals of nanomaterials and nanotechnology. Structures and properties of nanomaterials. *Zdzislaw Trzaska (Warsaw, Poland)***



6. Nanofabrications. Graphene, its properties and manufacturing. *Zdzislaw Trzaska (Warsaw, Poland)*

7. IMPLEMENTATION OF EMBEDDED LINUX IN SYSTEMS-ON-CHIP WITH NIOS II PROCESSOR. *Ievgen Korotkyi*

7. QUARTUS II INCREMENTAL COMPILATION AND LOGICLOCK TECHNOLOGY. *O. Antonyuk*

8. Mechano chemical synthesis of anticancer magnetic nanocomposites. *Ryhalskyy O.*

9. Methods and systems for the diagnosis of Alzheimer's disease by analyzing tomographic images of the human brain by means of fuzzy logic. *I. Krashenyi*

10. Microwave sensing: challenges and opportunities. *Olga Korostynska (Liverpool, UK)*

11. Simulation of electro-mechanical processes in cardiomyocytes. *Igor Nesteruk, Alberto Redaelli*

12. Motion efficiency and sport activity. *Igor Nesteruk, Alberto Redaelli*

13. Analysis of video data of cell oscillations on a microchip. *Nikolay Nikolov*

14. Spatially inhomogeneous magnetic field in the technology of radio frequency hyperthermia of malignant tumours. *Nikolay Nikolov*

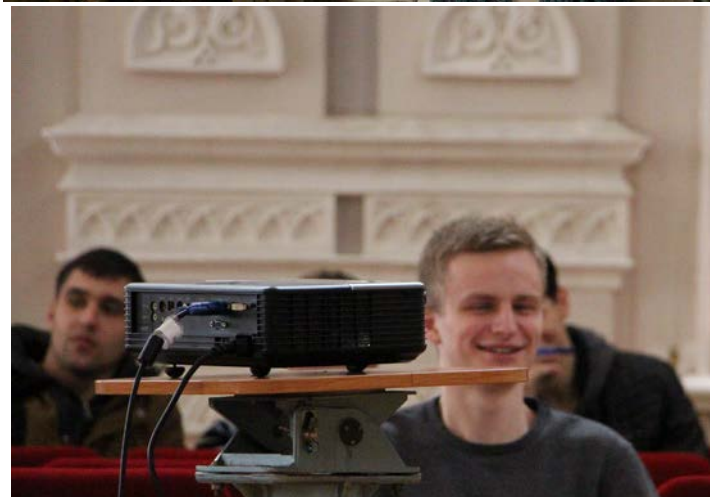
Participation in the IEEE Ukraine Section Executive Committee Meeting (August, 2016)



Cooperation with IEEE KPI Student Branch (Igor Sikorsky Kyiv Polytechnic Institute)



Involvement of students in research activities and volunteer work (ELNANO-2017 organization)



CONCLUSION

The best practices of CENTRAL UKRAINE Chapter (IEEE Ukraine Section (Kyiv) ED/MTT/CPMT/COM/SSC Societies Joint Chapter) are organization, sponsorship, support of the international conferences, as well as conduction of scientific seminars and technical meetings.

Should also be noted a growing interest of young people (students) to the IEEE as a result of our activity.

Worst practices are associated with financial difficulty of joining the IEEE for young people in our country.



Thank you!