

## The recent IEEE MTT/ED/AP/EP/SSC West Ukraine Chapter Activity (XXII<sup>nd</sup> International Seminar/Workshop DIPED-2017)

The XXII<sup>nd</sup> International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2017) was organized by the IEEE MTT/ED/AP/CPMT/SSC West Ukraine and MTT/ED/AP Georgian Chapters. This year, DIPED was held at the Oles Honchar Dnipro National University (DNU), Dnipro, Ukraine, on September 25-28. Alongside with the DNU, the Ivane Javakhishvili Tbilisi State University (TSU) and Pidstryhach Institute of Applied Problems in Mechanics and Mathematics, NASU, Ukraine, were the co-organizers of DIPED-2017. IEEE Electron Devices Society, Antennas and Propagation Society, and Microwave Theory & Techniques Society provided the Technical Co-Sponsorship for the Seminar/Workshop.

The IEEE Solid State Circuits Society and IEEE Section Ukraine were the supporting IEEE institutions.

Prof. Oleg O. Drobakhin, Chairman of the Organizing Committee, Dr. Tamar Gogua, IEEE MTT/ED/AP Georgian Chapter Secretary, and Prof. Kakhaber Tavzarashvili, IEEE MTT/ED/AP Georgian Chapter Chairman, bended all efforts for the general and local organization of the event.

The DIPED-2017 technical program consisted of 57 papers, including 5 invited talks. Scientists from Georgia, Germany, Greece, Israel, Russia, South Africa, Turkey, and Ukraine brought forward their papers. The papers were arranged at the following sections:

- Diffraction and Scattering
- Waveguide and Layered Structures
- Inhomogeneous Media
- EM Field Applications
- Antenna Design
- Numerical Computational Techniques
- Acoustics and Application;

Similarly to previous years, the group of regular students, Ph.D. students and young scientist was presented at the Seminar/Workshop in large quantities. The group of young participants was granted by the Best Young Speaker Award. The Awards received:

- Mr. Giorgi Kapanadze (Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia) for “ELF Radio Emission Associated With Strong M6.0 Earthquake”;
- Mr. Vyacheslav Gorev (Oles Honchar Dnipro National University, Dnipro, Ukraine) for “On the Kinetics of a Many-Body Dissipative System Placed in a Random Field”;
- Mr. Pavle Tsotskolauri (Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia) for “Tbilisi State University Extremely Low Frequency Radiation Research Net (ELFTSU Net): the First Measurements at Station Locations”;
- Mr. Mykola Medvedev (V. N. Karazin Kharkiv National University, Kharkiv, Ukraine) for “Electromagnetic Near-Field of Arc Slot, Cut in Coaxial Line Shield”;
- Mr. Evhen Shulga (O. Ya. Usikov Institute of Radiophysics and Electronics, NASU, Kharkiv, Ukraine) for “Interaction of Eigen Oscillations in a Cylindrical Cavity with Composite Material”.

The recipients of Award were recognized by the especial certificate from the Program Committee and financial grant from the Organizing Committee.

Following to the DIPED tradition, time given up to the free lobby discussion takes a considerable part of total continuation of DIPED-2016.

The excursion tour to the Aero Cosmic National Center in Dnipro, where the latest achievements in the field of rocket engineering and space technology of the former Soviet Union and independent Ukraine are demonstrated, and bus tour to ancient Cossack fortress Kodak were organized in the framework of the Seminar/Workshop social events.



*Prof. Oleg O. Drobakhin, DIPED-2017 Organizing Committee Chairman, presenting the historical overview about the Department of Applied and Computer Radiophysics at the Oles Honchar Dnipro National University*

Traditional Seminar/Workshop dinner was held after completion of the technical program. The Best Young Speaker Awards were presented there, as well as the discussions about the improvement of the Seminar/Workshop format and proposals of the participants were taken into consideration.

It was announced by the organizers that the next XXIII<sup>rd</sup> International Seminar/Workshop DIPED will be held at the Samtskhe-Javahheti State University, Akhaltsikhe, Georgia, on September 24-27, 2018. The previous attendees and new participants are cordially invited. The reports about previous DIPEDs and information about forthcoming events one can see in Web Sites: <http://www.ewh.ieee.org/soc/cpmt/ukraine/> and <http://ewh.ieee.org/r8/ukraine/georgian/DIPED/>.

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