

Serbia and Montenegro IEEE MTT-S Chapter Activities in 2017

The members of the IEEE MTT-S Chapter of Serbia and Montenegro were very active during 2017. As in the previous years, the activities were related to participation of the Chapter members in the organization of international and national scientific conferences, organization of technical meetings where invited lectures were given and publishing of two issues of the Microwave Review journal, a joint publication of the MTT-S Chapter of Serbia and Montenegro and the national Society for Microwave Technique, Technologies and Systems. Zlatica Marinković, Chapter Chair, attended the Chapter Chair Meeting held during the European Microwave Week on October 9, 2017 in Nuremberg Germany and presented the Chapter activities. The most important activities are listed below.



The Chapter members supported the organization of the 61th national conference ETRAN 2017 and 4th international conference IcETRAN, which were held from June 5 to 8, 2017 in Kladovo, Serbia. "Microwave Technique, Technologies and Systems" mini-conference took place within the conference. (<http://etran.efz.rs/>). As done in the previous years, in conjunction with the ETRAN conference, the chapter organized the annual meeting of members of the IEEE MTT-S Chapter and national Society for Microwave Technique, Technologies and Systems. It was held on June 8, 2016.



The chapter members from the University of Niš participated in organization of 52nd International Scientific Conference on Information, Communication and Energy Systems and Technologies – ICEST 2017, which was held in Niš, Serbia on June 28 – 30, 2017. The detailed report about the conference can be found in this issue of the Microwave Review.



The central activity in 2017 was organization of 13th International Conference on Advanced Technologies, Systems and Services in Telecommunications – TELSIKS 2017. The conference was organized at the Faculty of Electronic Engineering of University of Niš, Serbia on October 18 - 20, 2017.



Details from the TELSIKS 2017 Conference: Prof. Zoya Popović delivering his plenary talk (left) and Moderators of the DIACAS professional Conference (right)

The conference was organized under auspices of Serbian Ministry of Education, Science and Technological Development, in cooperation with the Academy of Engineering Sciences of Serbia, IEEE Serbia and Montenegro Section, Serbia and Montenegro IEEE MTT-S Chapter, Serbia and Montenegro IEEE Communications Chapter, Telecommunications Society of Serbia and Serbian ETRAN Society. Two IEEE societies: Antennas and Propagation Society and Microwave Theory and Technique Society, and IEEE Region 8 were technical co-sponsors of the

Conference. The technical program included 95 papers written by the authors from 22 countries. More information about the conference can be found in the report published in this issue of the Microwave Review.

In particular, the MTT-S chapter members were responsible for organization of the following events:

- October 18, 2017: Plenary lecture “*Near- and Far-Field Wireless Power Transfer*” given by Prof. Zoya Popović, University of Colorado, Boulder, USA
- October 15, 2015: Professional Conference “*Development and Implementation of Advanced Cable Services and Effective Business Models - DIACAS 2017*”. The conference was organized by PUKOS – Business Association of Cable Operators of Serbia and MTTS – Society for Microwave Technique, Technologies and Systems.

The MTT-S Chapter participated in organization of the jubilee 10th “*IEEEESTEC Student project conference*” (<http://ieee.elfak.ni.ac.rs>) held on November 23, 2017 in Niš. The Conference was organized by IEEE Student Branch Niš, EESTEC LC Niš and the Faculty of Electronic Engineering in Niš in co-operation with IEEE Serbia and Montenegro Section, IEEE ED/SSC Chapter and IEEE MTT-S Chapter. The interest in the conference is getting higher over the years and the number of authors from other Serbian and regional universities has been increasing, as

 well as the number of authors from the high schools. The best papers presented at the IEEEESTEC Conference are to be sent to IEEE Region 8 competition. The MTT-S Chapter awarded a paper “Realization of an ASK/PSK modulator” authored by Ana Veljanovska, Nikola Ilić, and Lazar Tešić, master students of the Faculty of Electronic Engineering Niš, Study Programme „Telecommunications“, which was among the top rated papers according to the review scores.



IEEEESTEC Student Project Conference Opening Session

In this year the Chapter organized several technical meetings where the invited professionals gave the talks in their field of research. Here is the list of the lectures:

- Dr. Ivana Radnović, IMTEL Institute, Belgrade, gave at the Institute of Physics, on February 6, 2017, the talk “*Circularly Polarized Antennas Formed of Crossed Dipoles with Conjugate-Complex Impedances*”.
- On March 6, 2017, at the Faculty of Electronic Engineering in Niš, Prof. Irini Reljin, University of Belgrade, Deputy Minister for Electronic Communications and Postal Services, delivered the talk “*Future of Telecommunications – Trends of Development in Republic of Serbia*”. This lecture was very well attended by the Faculty staff and students.
- At the Institute of Physics, Belgrade, Dr. Andelija Ilić, researcher of this institute, presented the research results related to the graphene application in THz-wave range “*Waveguide Resonators with Graphene Discontinuities for Applications in Submillimeter - Wave Range*” on March 27, 2017. For these results, Dr. Ilić and her collaborators won the prestigious national award “Aleksandar Marinčić”.
- Prof. Vincenzo Stornelli, University of L’Aquila, Italy, gave the lecture “*RF and Microwave Filter Design by Means of Single Transistor Active Inductor: a Review*” at the Chapter annual gathering in Kladovo, on June 8, 2017.

- Prof. Nuno Carvalho, University of Aveiro, Portugal MTT-S Distinguish Microwave Lecturer, delivered his DML talk: “*Energy Efficient Future Wireless Communications*”. The event was organized at the Faculty of Electronic Engineering, University of Niš, on October 20, 2017. The lecture was well attended not only by the MTT-S members but also and the faculty staff and students.
- Dr. Marija Milijić, University of Niš gave the talk “*Printed Antenna Structures Integrated With 3D Reflector Surfaces*” at the Institute of Physics, Belgrade, on October 30, 2017.
- Till end of the year there is a plan to organize one more lecture at the Institute of Physics and one joint event with the local IEEE Women in Engineering Affinity Group at the Faculty of Electronic Engineering in Niš.



Prof. Nuno Carvalho (7th from the left) with a part of the attendees of his DML talk

The twenty third volume of the Microwave Review, a publication of IEEE MTT-S Chapter of Serbia and Montenegro and national Society for Microwave Technique, Technologies and Systems has been published in 2017. The first issue was published in June 2017 and the current issue to appear in December 2017. Microwave Review is available in electronic version on the web site: www.mwr.medianis.net. The journal is included into IET INSPEC, Scopus and EBSCO host databases.

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