

## KATERYNA ARKHYPOVA

Candidate for IEEE Ukraine Section (East) AP/MTT/ED/AES/GRS/NPS Societies Joint Chapter  
Chairperson

### BIOGRAPHY

Kateryna Arkhylova (M'15-SM'19) was born on November 30, 1981 in Kharkiv, Ukraine. In 2006 she graduated from V.N. Karazin Kharkiv National University (KhNU), School of Radiophysics (Dept. of Biological and Medical Physics), and obtained Master Diploma with distinctions. Since then she has been working at O.Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU) where she currently holds a position of Senior Research Scientist. In 2012 she earned her Ph.D. in Biophysics from KhNU. From 2014 to 2019 she was also Assistant (part-time) of the Dept. of Rehabilitation, Sports Medicine and Exercise Therapy of Kharkiv Medical Academy of Post-Graduate Education.



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### IEEE ACTIVITIES

#### SECTIONS/CHAPTERS:

- IEEE Ukraine Section (East) AP/MTT/ED/AES/GRS/NPS Societies Joint Chapter *Chairperson* (2019-2020)
- IEEE Ukraine Section (East) AP/MTT/ED/AES/GRS/NPS Societies Joint Chapter *Secretary* (2017-2018)
- Chapter Representative: MTT-S CCM, IMS'2016 (San Francisco, USA); 2019 EDS R8 CCM (Tarragona, Spain); 2019 IEEE Ukraine Section CCM (Lviv, Ukraine); 2019 MTT-S CCM, EuMW'2019 (Paris, France); 2019 AESS R8 Chapter Summit (Cologne, Germany)

STUDENT BRANCHES: IEEE IRE NASU MTT-S Student Branch Advisor (2015-2018)

#### CONFERENCES:

- IEEE Ukrainian Microwave Week: *Financial Chair* (2020)
- IEEE International Microwave Bio-Conference (IMBioC): *TC and Outreach Committee member and reviewer* (2018-2020)
- IEEE International Conference on Mathematical Methods in Electromagnetic Theory: *Org. committee member* (2016, 2018, 2020)
- IEEE International Young Scientists Forum on Applied Physics and Engineering: *Secretary* (2015-2017)

#### OTHER:

- IEEE EDS Newsletter *Region 8 - Eastern Europe Regional Editor* (2020-2022)
- Memberships in IEEE Societies: EDS (2015); MTT (2016-2017, 2020); IEEE WiE (2016-2018); IEEE IAS (2018); IEEE APS (2018).
- Senior member since 2019.

### QUALIFICATIONS

Kateryna Arkhylova has more than 10 years of experience in multidisciplinary scientific cooperation. Her research interests are in design of clinically-oriented microwave applications for diagnostic and therapeutic purposes. She developed a successful technique and biomedical protocol for *in vitro* blood testing. Kateryna is a principal and corresponding author of more than 10 journal and 20 conference papers. Her experience in international collaboration includes participating in R&D projects, trainings (DAAD Workshop on Biochemistry and Biomedicine; Life Science Entrepreneurship Summer School, Campus Berlin-Buch, Germany), and attending various prestigious conferences such as European Microwave Conference (2014-2018), International Microwave Symposium (2016), European Medical Congresses (2015), and associated Workshops as an invited lecturer, in collaboration with French and Swedish researchers.

## **MAJOR ACCOMPLISHMENTS**

Since 2016 Kateryna Arkhypova is Technical Committee member of IEEE MTT-10 Biological Effects and Medical Applications of RF and Microwave, which is responsible for support and technical program review committees at the International Microwave Symposium (IMS), IMBioC, IMWS-Bio workshops, European Microwave Week (EuMW), and Asia Pacific Microwave Conference (APMC). Also, Kateryna serves as a reviewer of the EuMA International Journal of Microwave and Wireless Technologies, Organizing Committee and TC member of different IEEE Conferences (IEEE MTT-S IMBioC, IEEE MMET, EuMW) and Symposia (IEEE YSF 2015-2017, IEEE UKRCON-2019, IEEE UkrMW-2020).

Since 2019 she also serves as the EuMA General Assembly member representing Group 10 (Armenia, Azerbaijan, Georgia, Moldova, and Ukraine). In 2020, Kateryna Arkhypova has been appointed as the IEEE EDS Newsletter Region 8 - Eastern Europe Regional Editor for the term of 3 years. She is responsible for news coverage within EDS Chapters in the countries within the assigned region.

## **POSITION STATEMENT**

As a Chairperson of IEEE Ukraine Section (East) Joint Chapter, I will do:

- organize regular and effective meetings of the Chapter Officers;
- ensure punctual and correct reporting of the Chapter to IEEE;
- involve the Chapter for providing technical co-sponsorship for International scientific events (conferences, workshops) within the scope of topics related to the Chapter's supporting IEEE Societies;
- increase Chapter membership using IEEE MFSP, Chapter finances, and involving outside sponsors;
- support an effective communication with other Chapters and Affinity Groups belonging to the IEEE Ukraine Section;
- building strong cooperation with Public Union "IEEE Ukraine Section".