

## RMSW 2016 PRELIMINARY PROGRAM

**27 September, 2016**  
**Tuesday**

08.00 -	<b>RMSW 2016 REGISTRATION</b>	Building1, Foyer
<b>09.00 – 09.10</b>	<b>OPENNING CEREMONY</b>	<b>Assembly Hall, Building1</b>
09.10 – 10.50	<b>OUTSTANDING ADVANCES IN PHASED-ARRAYS AND RADAR</b> <b>Dr. ELI BROOKNER, Raytheon (retired), USA, IEEE AESS</b> Distinguished Lecturer	<b>Assembly Hall, Building1</b>
10.50 – 11.30	COFFEE – BREAK and General Photography	
<b>11.30 – 13.30</b>	SESSION A1 <b>PROGRESS IN SIGNAL PROCESSING</b> <b>Chair: Igor Prokopenko, Ukraine</b>	<b>Assembly Hall, Building1</b>
11.30-11.50	<b>RADAR TARGET CLASSIFICATION FOR RESONANCE SCATTERING REGION TARGETS WITH MIN-NORM SIGNAL PROCESSING METHOD,</b> <b>Ceyhan Turkmen, Mustafa Secmen, Yasar University Bornova, Turkey</b>	
11.50-12.10	<b>SLOWLY MOVING TARGETS DETECTION IN BACKSCATTER RADAR DATA,</b> <b>Igor Prokopenko, Vitalii Vovk, Kostiantyn Prokopenko, <u>Nadiia Babanska</u>, <i>National Aviation University, Ukraine</i></b>	
12.10-12.30	<b>ISAR IMAGING AND MOTION COMPENSATION WITH SPARSE BAYESIAN LEARNING,</b> <b>Gang Xu, Lei Yang, Song Zhou, <u>Guoan Bi</u>, <i>Nanyang Technological University, Singapore</i></b>	
12.30 – 12.50	<b>ESTIMATION OF COORDINATES ON GEOSTATIONARY ORBIT BY USING GNSS SIGNALS,</b> <b>Valeriy Konin, <u>Fedir Shyshkov</u>, and Olexei Pogurelskiy, <i>National Aviation University, Ukraine</i></b>	

12.50– 13.10	<b>UWB SIGNAL PROCESSING DURING THIN LAYERS THICKNESS ASSESSMENT,</b> <b>Dmitry O. Batrakov, <u>Mariya S. Antyufeyeva</u>, Alexandr V. Antyufeyev Angelika G. Batrakov, <i>V. N. Karazin Kharkiv National University, Kharkiv, Ukraine</i></b>	
13.10– 14.10	LUNCH	
<b>14.10 – 16.30</b>	<b>SESSION A2</b> <b>METEOROLOGICAL RADAR AND PASSIVE INTERFERENCE</b> <b>Chair: Felix Yanovsky, Ukraine</b>	<b>Assembly Hall, Building1</b>
14.10 – 14.30	<b>NUMERICAL METHOD FOR SOLUTION OF INVERSE PROBLEM OF RADAR REMOTE SENSING OF LIQUID PRECIPITATION,</b> <b><u>A. Linkova</u> and G. Khlopov, <i>O. Ya. Usikov Institute for Radiophysics and Electronics of National Academy of Sciences of Ukraine, Ukraine</i></b>	
14.30– 14.50	<b>PRINCIPLE OF DROPS DISCRIMINATION ON SIZES AND SHAPES WITHIN THE RESOLUTION VOLUME WITH RADAR POLARIMETRY,</b> <b><u>Yuliya Averyanova</u>, <i>National Aviation University, Ukraine</i></b> <b><u>Olga Averianova</u>, <i>National Technical University of Ukraine “Kyiv Polytechnic Institute”, Ukraine</i></b>	
14.50– 15.10	<b>REFINED MODELS AND NUMERICAL SIMULATION OF POLARIMETRIC RADAR SIGNALS SCATTERED BY VARIOUS TYPES OF HYDROMETEORS,</b> <b><u>A. Pitertsev</u> and F. Yanovsky, <i>National Aviation University, Ukraine</i></b>	
15.10– 15.30	<b>SPECTRAL POLARIMETRIC METHOD FOR TURBULENCE INTENSITY ESTIMATION IN RAIN,</b> <b><u>Anna N. Rudiakova</u>, <u>Daria N. Turenko</u>, and Felix J. Yanovsky, <i>National Aviation University, Ukraine</i></b>	
15.30– 15.50	<b>ADVANCED CHAFF USAGE IN MODERN EW,</b> <b><u>Jan Žák</u>, Marek Vach, <i>Czech University of Life Sciences Prague, Czech Republic</i></b> <b>Frantisek Dvoraček, <i>University of Defence, Brno, Czech Republic</i></b>	
15.50 – 16.10	COFFEE – BREAK	

16.10 – 17.50	SESSION A3 UWB SYSTEMS AND SHORT RANGE RADAR Chair: Ahmet Serdar Turk, Turkey	Assembly Hall, Building1
16.10 – 16.30	A RADAR SENSOR DESIGN AND PROTOTYPE FOR THROUGH-THE-WALL IMAGING RADAR APPLICATIONS, <u>Betul Yilmaz</u> , Caner Ozdemir, Mersin University, Turkey	
16.30 – 16.50	GEOMETRIC-OPTICAL MODEL OF RADIO WAVE REFRACTION IN MULTILAYERED SUBSOIL MEDIA AND ITS VERIFICATION VIA GPR EXPERIMENTS, M Mejibovsky, <u>N. Blaunstein</u> , Ben Gurion University (BGU) of the Negev, Israel	
16.50 – 17.10	AN EXPERIMENTAL INVESTIGATION OF F-K MIGRATION AND SAR ALGORITHM USING BEAMSPACE MUSIC FOR UWB THROUGH-THE-WALL IMAGING, <u>Huseyin Onder Bektas</u> , Ozgur Ozdemir, Istanbul Technical University, Turkey Melek Orhan, Ahmet Serdar Turk, Yildiz Technical University, Turkey	
17.10 – 17.30	MILLIMETER WAVE SHORT RANGE RADAR SYSTEM DESIGN, <u>Ahmet Serdar Turk</u> , Ahmet Kenan Keskin, Husamettin Uysal, Ahmet Kizilay, Salih Demirel, Yildiz Technical University, Turkey	
17.30 – 17.50	A SECURITY DOPPLER RADAR EXPERIMENT, <u>G.Ye. Sokolov</u> , National Aviation University, Ukraine	
18.00-	WELCOME PARTY	

28, September, 2016  
Wednesday

09.00-10.40	<b>MIMO RADAR – DEMYSTIFIED AND WHERE IT MAKES SENSE</b> <b>Dr. ELI BROOKNER, Raytheon (retired), USA, IEEE AESS</b> Distinguished Lecturer	Assembly Hall, Building1
10.40-11.10	COFFEE – BREAK	
11.10 -13.10	<b>SESSION A6 PASSIVE AND ACOUSTIC RADARS</b> <b>Assembly Hall, Building1</b> <b>Chair: Rustem Sinitsyn, Ukraine</b>	Assembly Hall, Building1
11.10 – 11.30	<b>ON SOUND SOURCE LOCALIZATION WITH A 3D AMBISONIC MONOPULSE SONAR,</b> <u>Francesca Ortolani</u> , Aurelio Uncini, <i>Sapienza University of Rome, Rome, Italy</i>	
11.30 – 11.50	<b>MOVING TARGET DETECTION AND TRACKING USING PASSIVE ACOUSTIC RADAR,</b> <u>Rustem Sinitsyn</u> , Felix Yanovsky, Yevhen Chervoniak, Vitaliy Makarenko, Vadim Tokarev, and Oleksandr Zaporozhets, <i>National Aviation University, Ukraine</i>	
11.50 – 12.10	<b>PASSIVE ACOUSTIC GRAPHENE NANOSENSOR MODELING,</b> D.E. Aznakayeva, I.A. Yakovenko, <u>E.G. Aznakayev</u> , <i>National Aviation University, Ukraine</i>	
12.10 – 12.30	<b>NUMERICAL CALCULATION OF PASSIVE ACOUSTIC GRAPHENE NANOSENSOR PARAMETERS,</b> D.E. Aznakayeva, I.A. Yakovenko, <u>E.G. Aznakayev</u> , <i>National Aviation University, Ukraine</i>	
12.30– 12.50	<b>RADIOMETER WITH SIGNAL ENERGIES RATIO,</b> Vladimir Pavlikov, <u>Semen Zhyla</u> , Alexej Odokienko, M. O. Antonov, <i>NAU KhAI, Kharkiv, Ukraine</i>	
12-50 – 13.10	<b>ALGORITHM FOR RADIOMETRIC IMAGING BY ULTRAWIDEBAND SYSTEMS OF APERTURE SYNTHESIS</b>	

	<b><u>Vladimir Pavlikov</u>, Kiem Nguyen Van, <i>NAU KhAI, Kharkiv, Ukraine</i></b> <b><u>O. M. Tymoshchuk</u>, <i>KSMA Kyiv, Ukraine</i></b>	
13.10-14.10	LUNCH	
<b>14.10 -15.50</b>	<b>SESSION A5 ADVANCED RADAR SYSTEMS</b> <b>Chair: Ievgen Gorovyi, Ukraine</b>	<b>Assembly Hall, Building1</b>
14.10 – 14.30	<b>MULTICHANNEL TARGET SPEED ESTIMATION BY A DISTRIBUTED DOPPLER-PULSE MIMO RADAR</b> <b>Igor Omelchuk, <u>Iurii Chyrka</u>, <i>National Aviation University, Ukraine</i></b>	
14.30 – 14.50	<b>FREQUENCY MANAGEMENT IN MULTIPOSITION RADAR SYSTEMS,</b> <b>Igor Prokopenko, <u>Vitalii Vovk</u>, <i>National Aviation University, Ukraine</i></b> <b>Serhii Stavytskyi, Valerii Medvediev, <i>Central Research Institute of Navigation and Control, Ukraine</i></b> <b>Bohdan Stavytskyi, <i>National Technical University of Ukraine “Kyiv Polytechnic Institute”, Ukraine</i></b>	
14.50 – 15.10	<b>FOCUSING OF STATIC AND MOVING TARGETS IN REAL FLIGHT CONDITIONS USING SAR TECHNIQUE,</b> <b><u>Ievgen Gorovyi</u>, Oleksandr Bezvesilniy and Dmytro Vavriv, <i>Institute of Radio Astronomy of NAS of Ukraine, Ukraine</i></b>	
15.10 – 15.30	<b>FORWARD-LOOKING SAR,</b> <b><u>Ksenia Semenova</u>, <i>National Aviation University, Ukraine</i></b>	
15.30 – 15.50	<b>JOINT DETECTOR AND ESTIMATOR DESIGN FOR WIDELY SEPARATED MIMO RADARS,</b> <b>S. Sharify, <u>M.M. Navebi</u>, <i>Sharif University of Technology, Iran</i></b>	
15.50 -16.00	COFFEE – BREAK	
<b>16.00 -17.20</b>	<b>SESSION A4 ANTENNAS AND EM WAVES IN WAVEGUIDES</b> <b>Chair: Leonid Sibruk, Ukraine</b>	
16.00 - 16.20	<b>MICROSTRIP FREQUENCY SELECTIVE SURFACE FOR USE IN HORN FILTENNAS,</b>	

	<b>Zafar Sharipov, Filiz Güneş, <u>Ahmet S. Türk</u>, Mehmet A. Belen, Peyman Mahouti, Salih Demirel, Yıldız Technical University, Turkey</b>
16.20-16.40	<b>FREQUENCY MULTIPLICATION OF TERAHERTZ RADIATION IN WAVEGUIDES ON THE BASE OF PARAELECTRICS,</b> <b><u>V. Grimalsky</u>, S. Koshevaya, J. Escobedo-Alatorre, <i>Autonomous University of State Morelos (UAEM), Mexico</i></b> <b><u>Yu. Rapoport</u>, <i>T. Shevchenko National University, Ukraine</i></b>
16.40 – 17.00	<b>STRONG MILLIMETER WAVES IN WAVEGUIDES WITH INTEGRATED P-I-N-STRUCTURES,</b> <b><u>I. Moroz</u>, <i>Rivne Pedagogical University, Ukraine</i></b> <b><u>V. Grimalsky</u>, S. Koshevaya, J. Escobedo-Alatorre, <i>Autonomous University of State Morelos (UAEM), Mexico</i></b>
17.00 – 17.20	<b>DIRECTIONAL ANTENNA FOR UNMANNED AERIAL VEHICLES,</b> <b><u>L.V. Sibruk</u>, R.O. Zadorozhniy, O.A. Shcherbyna, D.P. Bondarenko, <i>National Aviation University, Ukraine</i></b>
17.20 -	<b>CLOSING CEREMONY</b>

