

Monday, September 22, 2008

8:00-10:00	Registration	
	Assembly Hall Congress Opening Ceremony and Plenary Session	
12:20-13:20	Lunch	
13:30-14:00	MRRS 2008 Opening Ceremony Rector of NAU: M. Kulyk MRRS-2008 Chairman: F. Yanovsky President of EuMA: R. Sorrentino IEEE Representative: A. Nosich	
14:00-16:00	Room 1-001 SESSION A2 - ADVANCES IN ANTENNA TECHNIQUES Chairpersons: G. Vandenbosch, N. Popenko	Room 1-002 SESSION B2 - SCATTERING AND ABSORPTION IN RADAR Chairpersons: P. Bezousek, O. Drobakhin
	A2_1 Integrated Hardware Reduction Schemes for Retrodirective Array Architectures (invited) Tatsuo Itoh, Darren Goshi, University of California, Los Angeles, USA A2_2 Reconfigurable Reflectarrays based on RF MEMS Technology (invited) Roberto Sorrentino, University of Perugia, ITALY A2_3 Dual Band Reconfigurable Slot Antenna with High Frequency Ratio T. Debgovic, A. Karabelj, J. Bartolic, University of Zagreb, Zagreb, Croatia A2_4 Comparison of two configurations of a four-reflector beam-waveguide for a large space communication facility Andrey A. Nosich, Kharkiv National University, Kharkiv, Ukraine Ronan Sauleau, Yuriy V. Gandel, Université de Rennes Rennes Cedex, France A2_5 On realization of the transition radiation antenna S.D. Priimenko, L.A. Bondarenko, National Science Center. "Kharkov Institute of Physics and Technology", Kharkov, Ukraine	B2_1 Coherent Scattering from Distributed Targets (invited) Wasyli Wasyliwskyj, The George Washington University, USA Jimmy Alatishe, US Naval Research Laboratory, Washington, DC, USA B2_2 Status of Advanced Scattering Distortion System Analysis for NavAids and Radar - Examples of A380 and Wind Turbines (invited) Gerhard Greving, Wolf-Dieter Biermann, Rolf Mundt, NAVCOM Consult, Marbach, Germany B2_3 Material parameter measurements for Radar Absorbent Material developments (invited) Lajos Nagy, Budapest University of Technology and Economics, Hungary B2_4 Analysis of Generalized Polarimetric Measurement Equations for Stokes Polarimetry Techniques Sergey N. Savenkov, Yevgeny A. Oberemok, Alexander S. Klimov, Kiev Taras Shevchenko University, Ukraine
16:00-16:20	Coffee Break	
16:20-18:40	Room 1-001 SESSION A3 - SEMI-ACTIVE AND PASSIVE SYSTEMS Chairpersons: W. Wasyliwskyj, I. Ivanchenko	Room 1-002 SESSION B3 - ELECTROMAGNETIC FIELDS AND GUIDED WAVES Chairpersons: R. Sorrentino, S. Malyshev
	A3_1 Coherent Multilateration Systems (invited) Pavel Bezousek, Vladimir Schejbal, University of Pardubice, Czech Republic	B3_1 Microwave Study of Ferroelectrics in Waveguide (invited) Y. Poplavko, V. Molchanov, V. Pashkov, Y. Prokopenko, V. Kazmirenko, A. Yeremenko, National Technical University of Ukraine, Kiev, Ukraine

	A3_2 A Compact Highly Sensitive Radiometer for Thermal Sounding of Atmosphere in 5 mm Band (invited) <u>V.B.Khaikin</u>, <i>Special Astrophysical Observatory of RAS/NRTT Lab, St.Petersburg, Russia</i> V.N.Radzikhovsky, S.E.Kuzmin, <i>SRC “Iceberg” Kiev, Ukraine</i> S.V.Shlenzin, <i>The Special Astrophysical Observatory of RAS/NRTT Lab, St.Petersburg, Russia</i> A.V.Shaposhnikov, <i>Central Aerological Observatory, Dolgoprudny, Russia</i> A3_3 Interactive-mode X-Band Direction-Finder <u>Sergey Radionov, Igor Ivanchenko</u>, <i>Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, Kharkov , Ukraine</i> Alexey Korolev, <i>Institute of Radioastronomy of the National Academy of Sciences of Ukraine , Kharkov, Ukraine</i> Nina Popenko, <i>Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, Kharkov , Ukraine</i> A3_4 PaRaDe – Passive Radar Demonstrator Family Development at Warsaw University of Technology Mateusz Malanowski, Krzysztof Kulpa, Jacek Misurewicz <i>Warsaw University of Technology, Warsaw, Poland</i> A3_5 Wide Range Time of flight Camera for outdoor surveillance Falie Dragos, Vasile Buzuloiu, <i>University Polytechnica of Bucharest, Romania</i> A3_6 Analysis of the Availabilities of Multilateration Surveillance System in Kyiv (Boryspil) Airport <u>Inna Konchenko</u>, <i>National Aviation University, Ukraine</i>	B3_2 Quasi-Optical Sapphire Resonators for Millimeter Wave Impedance Characterization of High-T_c Superconducting Thin Films (invited) <u>N.T. Cherpak, A.A. Barannik, S.A. Bunyaev</u>, <i>A.Usikov Institute for Radiophysics and Electronics, National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i> B3_3 Amplification of Space Charge Waves of Millimeter Wave Range in Transversely Inhomogeneous n-GaN Films V.Grimalsky, S.Koshevaya, F.Diaz-A., J.A.Hernandez-P., <i>Autonomous University of Morelos (UAEM), Mexico</i> B3_4 Simulation of Electromagnetic Wave Propagation Through Dielectric Waveguide with P-I-N Control Element <u>I.Moroz</u>, <i>Rivne Pedagogical University, Rivne, Ukraine</i> S.Koshevaya , V.Grimalsky, <i>Autonomous University of Morelos (UAEM), Mexico</i> A.Kotsarenko, <i>Centro de Geociencias en Juriquilla (CGEO), Querétaro, México</i> J.Escobedo –A., <i>Autonomous University of Morelos (UAEM), Mexico</i> B3_5 Microwave Oscillations in a Cavity with Dispersive Double Negative Medium <u>M. S. Antyufeyeva, A.Yu. Butrym</u>, <i>V.N. Karazin Kharkov National University, Kharkov, Ukraine</i> O.A. Tretyakov, <i>Gebze Institute of Technology, Turkey</i> B3_6 Hybrid Oscillations in Composite Resonators with Uniaxial Hexaferrites <u>T. G. Chamor, L. V. Chevnyuk, A. Yu. Gorpynyuk, V. I. Kostenko</u> , <i>National Taras Shevchenko University of Kyiv, Kyiv, Ukraine</i>
19:00	Welcome Party	
Tuesday, SEPTEMBER 23, 2008		
9:00-10:50	Room 1-001 SESSION A4 - NEW TECHNOLOGIES IN ELECTRONICS Chairpersons: A. Kawalec, P. Beasley	Room 1-002 SESSION B4 - DATA AND IMAGE PROCESSING Chairpersons: K. Kulpa, I. Prokopenko
	A4_1 System-in-a-Package Technology for 3D Integration of Radar Modules (invited) <u>G. Vandenbosch</u>, <i>Katholieke Universiteit Leuven, Leuven, Belgium</i> S. Brebels, X. Sun, G. Carchon, G. Posada, <i>IMEC, HRF group, Leuven, Belgium</i>	B4_1 Comparisons of 3 Dimensional Temperature Distributions of mm and IR Images (invited) <u>Jung-Young Son</u>, <i>Daegu University Kyungsan, Kyungbuk, Korea</i> Vladimir P. Guschin, Alexander G. Denisov, <i>State Research Center of Superconductive Radioelectronics “Iceberg” , Kiev, Ukraine</i>

	L. Dussopt, CEA Grenoble, LETI/DCIS/SMOC, Grenoble, France M.-A. Dubois, CSEM, RF & piezo components, Microelectronics, Neuchâtel, Switzerland W. De Raedt, IMEC, HRFP group, Leuven, Belgium A4_2 High-speed Photodiodes for Microwave and Millimeter-wave Systems (invited) Sergei Malyshev, Alexander Chizh, Yury Vasileuski, B.I. Stepanov Institute of Physics of National Academy of Sciences of Belarus, Minsk, Republic of Belarus A4_3 High-Temperature Superconductor-Films Microstrip Band-Pass Filters for Extreme Working Conditions Igor V. Korotash, Eduard M. Rudenko, Institute of Metal Physics, NAS of Ukraine, Kyiv, Ukraine A4_4 Quantum Interference in Transistors Timur A. Shutenko, Odessa National Academy of Telecommunications, Odessa, Ukraine Igor L. Aleiner, Boris L. Altshuler, Columbia University, New York NY, USA	Seok-Won Yeom, Dae-Hyun Jung, Daegu University Kyungsan, Kyungbuk, Korea B4_2 Microwave Multifrequency Radar Images of Electrodynamics Objects O. O. Drobakhin, V. V. Alekseev, A. I. Chekh, Dnepropetrovsk National University, Dnepropetrovsk, Ukraine B4_3 An Automatic Approach to Lossy Compression of Images Corrupted by Poisson Noise V.V. Lukin, M.S. Zriakhov, N.N. Ponomarenko, National Aerospace University, Kharkov, Ukraine Arto Kaarna, Lappeenranta University of Technolog, Lappeenranta, Finland B4_4 Edge-Preserving Piecewise-Constant Image Restoration via Method of Minimum of Extension Oleg S. Antropov, Dnepropetrovsk National University, Dnepropetrovsk, Ukraine B4_5 Microwave Fourier-Holography Approach Improvement via Minimum Duration AmplitudeMultifrequency Data Extrapolation Oleg S. Antropov, Valentine F. Borulko, Oleg O. Drobakhin, Sergey M. Vovk, Dnepropetrovsk National University, Dnepropetrovsk, Ukraine
10:50-11:10	Coffee Break	
11:10-13:00	Room 1-001 SESSION A5 - RADAR SIGNAL PROCESSING Chairpersons: L. Ferro-Famil, V. Lukin	Room 1-002 SESSION B5 - REMOTE SENSING OF THE ATMOSPHERE Chairpersons: I. Nicolaescu, D. Vavriv
	A5_1 The CLEAN Type Algorithms for Radar Signal Processing (invited) Krzysztof Kulpa, Warsaw University of Technology, Warsaw, Poland A5_2 Modification of Newton-Kantorovich Iteration Procedure for Piecewise-Constant Real Permittivity Profile Reconstruction Sergey G. Alexin, Oleg O. Drobakhin, Vladimir O. Tkachenko, Dniepropetrovsk National University, Dniepropetrovsk, Ukraine A5_3 Spectral Estimation by the Model of Autoregressive Moving Average and its Resolution Power I. G. Prokopenko, A .J. Churina, National Aviation University, Kiev, Ukraine A5_4 Radar pulse trains classification Andrzej Pieniężny, Military University of Technology, Warsaw, Poland	B5_1 Weather Radar - Recent Developments and Trends (invited) Dusan Zrnic, NOAA/National Severe Storms Laboratory, USA B5_2 The Estimate of Instantaneous Power of Polarization Spectrum Components in Polarimetric Weather Radars Yu. Averyanova, A. Averyanov, F. Yanovsky, National Aviation University, Kiev, Ukraine B5_3 Use of Spectral Differential Reflectivity at Remote Sensing of Precipitation Vitaliy Marchuk, National Aviation University, Kiev, Ukraine B5_4 Multivariate Algorithm for Dangerous Turbulence Detection in Weather Formations Ya. Ostrovsky, National Aviation University, Kiev, Ukraine

	A5_5 Nonparametric method for estimating the spoken language sound multivariate probability function <u>Zhanna Bokal</u> , <i>National Aviation University, Kiev, Ukraine</i> <u>Rustem Sinitsin</u> , <i>National Aviation University, Kiev, Ukraine</i>	B5_5 Recent Researches in the in the Field of Weather Radar at the National Aviation University <u>Felix Yanovsky</u> , <i>National Aviation University, Kiev, Ukraine</i>
13:10-14:10	Lunch	
14:20-16:30	Room 1-001 SESSION A6 - ANTENNA ANALYSIS AND MEASUREMENTS Chairpersons: T. Itoh, N. Cherpak	Room 1-002 SESSION B6 - SYNTHETIC APERTURE RADAR Chairpersons: L. Nagy, G. Khlopov
	A6_1 2-D Analysis and Synthesis of Dielectric Lens Antennas with Boundary Integral Equations (invited) <u>A.V. Boriskin</u> , <u>A.I. Nosich</u> , <i>Institute of Radiophysics and Electronics NASU, Kharkiv, Ukraine</i> <u>R. Sauleau</u> , <i>University of Rennes, Rennes, France</i> A6_2 Quasi-Loop Antenna for SAW RFID Device <u>Mateusz Pasternak</u> , <u>Jerzy Pietrasinski</u> , <i>Military University of Technology, Warsaw, Poland</i> A6_3 Test Results of a Compact Smooth-Walled Spline-Profile Horn at 30-38 GHz for Radio Astronomy Application <u>Roman Chernobrovkin</u> , <u>Nina Popenko</u> , <i>Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine</i> <u>Vladimir Khaikin</u> , <i>Special Astrophysical Observatory of Russian Academy of Sciences/NRTT Lab, St.Petersburg, Russia</i> <u>Christophe Granet</u> , <i>BAE Systems Australia, Australia</i> A6_4 Monopole Antenna with Plug-Shape Ground plane <u>M. Khruslov</u> , <u>I. Ivanchenko</u> , <u>N. Popenko</u> , <i>Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine , Kharkov, Ukraine</i> A6_5 Near-Field Measurements in the Microwave and Millimetre Ranges <u>I. Ivanchenko</u> , <u>D. Ivanchenko</u> , <i>Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, Kharkov , Ukraine</i> <u>Alexey Korolev</u> , <i>Institute of Radioastronomy of the National Academy of Sciences of Ukraine , Kharkov, Ukraine</i> <u>M. Khruslov</u> , <u>Nina Popenko</u> , <i>Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, Kharkov ,</i>	B6_1 Remote sensing of urban areas from polarimetric SAR data using Time-Frequency and spectral analysis methods (invited) <u>Laurent Ferro-Famil</u> , <i>University of Rennes, France</i> B6_2 High-Accuracy Doppler Measurements for Airborne SAR Imaging (invited) <u>D. M. Vavriv</u> , <u>O. O. Bezvesilniy</u> , <u>V. V. Vynogradov</u> , <i>Institute of Radio Astronomy of NAS of Ukraine, Kharkov, Ukraine</i> B6_3 Multilook Technique for Dominant Scatterer Removal in SAR Images <u>K. Kulpa</u> , <u>J. Misiurewicz</u> , <i>Warsaw University of Technology, Warsaw, Poland</i> <u>P. Samczynski</u> , <u>M. Smolarczyk</u> , <i>Telecommunications Research Institute, Warsaw, Poland</i> B6_4 New Difference Doppler Centroid Estimation Method with High Space Resolution <u>Ievgeniia V. Dukhopelnikova</u> , <i>Institute of Radioastronomy NAS Ukraine, Kharkiv, Ukraine</i> B6_5 The Coherent MapDrift Technique Robustness to Low SNR SAR Data <u>Piotr Samczynski</u> , <i>Telecommunications Research Institute Warsaw, Poland</i>

	<i>Ukraine</i> A6_6 Analysis of the Parameters of Asymmetrical Dual Feeding Full Wave Dipole Antenna <u>Yahya S. H. Khraisat</u>, Al-Balqa Applied University/ Al-Huson university College, Jordan Khedher A. Hmood, A. Anwar, Universiti Sains Malaysia Seri, Ampangan, Penang, Malaysia	
16:30-16:50	Coffee Break	
16:50-18:50	Room 1-001 SESSION A7 - ADVANCES IN RADAR SYSTEMS Chairpersons: G. Greving, M. Pasternak	Room 1-002 SESSION B7 - IMPROVEMENT OF SYSTEM CHARACTERISTICS Chairpersons: I. Balajti, Yu. Poplavko
	A7_1 Advances in Millimetre Wave FMCW Radar (invited) Patrick Beasley, QinetiQ, UK A7_2 Procedures to improve the performances of SFCW radar used for landmine detection (invited) Ioan Nicolaescu, Military Technical Academy, Bucharest Romania Piet van Genderen, Delft University of Technology, Delft, The Netherlands A7_3 Target Tracking Using Radar and Direction Finder Jacek Karwatka, Telecommunications Research Institute, Warszawa Poland A7_4 An Adaptive Kalman Filter for Radar Tracking Application Van Tho Dang, National Aviation University, Kiev, Ukraine	B7_1 Global stability analysis and stabilization of power amplifiers (invited) Almudena Suárez, University of Cantabria, Santander Sanggeun Jeon, David Rutledge, California Institute of Technology, Pasadena B7_2 More Efficient ATR System Using the Decision Fusion between HRR and Video Imaginary Iulian-Constantin Vizitiu, Ioan Nicolaescu, Military Technical Academy, Bucharest, Romania B7_3 Bandwidth Suppression in mm-wave Photonic Structure with Magnetic "Defect" M. V. Mozhyrovskiy, V.V. Oliynyk, Taras Shevchenko Kiev National University, Kiev, Ukraine B7_4 Computation Method of Mutual Impact Coefficient of the Quarter-wave Wire Antennas Placed on Airplane Wire-grid Model Alexander V. Vishnevsky, National Aviation University, Kiev, Ukraine
	Social Events	
	Wednesday, September 24, 2008	
9:00-11:00	Room 1-001 SESSION A8 - REMOTE SENSING OF EARTH AND ATMOSPHERE Chairpersons: D. Zrnic, Yu. Averyanova	Room 1-002 SESSION B8 - INFORMATION SYSTEMS AND SIGNALS Chairpersons: J. Y. Son, A. Pieniezny
	A8_1 An Airborne P-Band Ice Sounding Radar: RF Technologies and Novel Solutions (invited) Viktor Krozer, Carlos Cilla Hernandez, Jens Vidkjar, Jorden Dall, Technical University of Denmark, Kgs. Lyngby, Denmark A8_2 Remote Sensing for Systems of Active Impact on Clouds (invited) G.I. Khlopov, Institute of Radio-Physics and Electronics of National	B8_1 Measurement of Shifts in Bell Tower of Sophia Cathedral Using Ka-band Noise Waveform SAR Konstantin Lukin, Anatoliy Mogyla, Vladimir Palamarchuk, Pavlo Vyplavin, Evgeniy Kozhan, Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine B8_2 Noise Modeling for Global Satellite Aeronavigation Systems

	<i>Academy of Science of Ukraine</i> N.V. Sirota, Crimean paramilitary service of active impact on hydrometeorological processes, Autonomous republic of Crimea, Simferopol, Ukraine S.I. Khomenko, V.E. Morozov, O.A. Vojtovich, Institute of Radio-Physics and Electronics of National Academy of Science of Ukraine A.L. Tepljuk, Technical University of Kiel, Germany A8_3 Radar Determination of Probable Icing-in-Flight Alexander Pitertsev, National Aviation University, Kiev, Ukraine A8_4 Regional Analytical Algorithm of Sea Chlorophyll Concentrations Retrieving from Sea Reflectance E.N. Korchemkina, E.B. Shybanov, M.E. Lee, Marine Hydrophysical Institute of NAS of Ukraine, Sevastopol, Ukraine A8_5 Massive Sulphide Deposites Exploration by used Remote Sensing Technique "ASTER IMAGERY" Ali Mohammed Ali Asiri, King Abdulaziz City for Science & Technology (KACST), Kingdom of Saudi Arabia	N. Kasperovych, V. Shvets, Y. Ostrovsky, National Aviation University, Kiev, Ukraine B8_3 Organization of Programmed Means for Dynamic Scenes Visualization and Analysis in Real-Time Geoinformation Complexes Viktor A. Borodin, National Aviation University of Ukraine, Kiev, Ukraine B8_4 Multi-Switch Satellite Digital System (MSDS) Yahya S.H. Khraisat, Al-Balqa Applied University/ Al-Huson university College, Jordan B8_5 Mathematical modeling of the cardiac electrical signals formation E. Aznakayev, E. Melnikov, National Aviation University of Ukraine, Kiev, Ukraine B8_6 The Effect of Amplitude Fades on a Forward Transmission System Using a DS CDMA Abdel-Rahman Al-Qawasmi, Communications and Electronics Department, Philadelphia University, Jordan Ayman Al-lawama, Mutah University, Karak– Jordan
10:40-11:00	Coffee Break	
11:00-11:50	Room 1-001 SESSION A9 - NON-INFORMATION APPLICATIONS Chairpersons: V. Scheibal, E. Aznakaev	Room 1-002 SESSION B9 - LOGISTICS AND ORGANIZATION OF RADAR MEASUREMENTS Chairpersons: A. Suarez, J. Misiuriewicz
	A9_1 Application of Microwave Radiation in Incinerator V. I. Naidenko, D. S. Shumakov, National Technical University of Ukraine "Kiev Polytechnic Institute", Kiev, Ukraine A9_2 Electromagnetic energy application for soil infectious diseases sterilization V. Karpovich, A. Ermolovich, G. Volinets, I. Kostukevich, Belarussian State University, Minsk, Belarus	B9_1 Performance Measurements of the Radar "In Situ" (invited) Istvan Balajti, NATO Maintenance and Supply Agency, Luxembourg B9_2 Organization of Computer Experiment for Radar Research S. S. Kostina, National Aviation University of Ukraine, Kiev, Ukraine
12:00-13:00	MRRS_2008 Closing Ceremony – EuMA and IEEE Awards	
13:10-14:10	Lunch	
	Social Events	