

21 September

10⁰⁰, Assembly hall in the 1st building

FOURTH WORLD AVIATION CONGRESS Opening Ceremony and Plenary Session

13⁰⁰, Dining hall

Lunch

14⁰⁰, bus at the Dining hall

Social event (supposedly, boat tour along Dnieper river with a stand-up meal)



22 September

08²⁰, room 1.001

RADAR METHODS AND SYSTEMS WORKSHOP (RMSW 2010)

RMSW 2010 Chairman – Felix Yanovsky

RMSW 2010 Coordinator – Yuliya Averyanova

SESSION B1

Radar Waveforms and Signal Processing

Chairpersons – Krzysztof Kulpa (Poland), Igor Ivanchenko (Ukraine)

22 September, 08³⁰ -10³⁰,
room 1.001

- 08³⁰ – 09⁰⁰ 1. Radar Waveforms with Communication Ability
P.van Genderen, Delft University of Technology, Delft, The Netherlands (Invited)
- 09⁰⁰ – 09³⁰ 2. Wind Turbines and Radar - Simulations of Effects and Conditions for Coexistence
Gerhard Greving, NAVCOM Consult, Germany (Invited)
- 09³⁰ – 09⁵⁰ 3. Radar Detection Via Compressive Sensing Using Partial Fourier Coefficients
L. Anitori, M. Otten, P. Hoogeboom, TNO Defence, Security and Safety, The Netherlands
- 09⁵⁰ – 10¹⁰ 4. Analysis of the Multiple Assignment Detection Method in Radar Tracking
Jacek Karwatka, Telecommunications Research Institute, Warszawa, Poland
- 10¹⁰ – 10³⁰ 5. Monitoring of Biological Organisms in Environment Using Modern Technical Means
Elena Klyuchko, National Aviation University, Ukraine

Coffee-break

SESSION B2

Miniature Antenna Design and Field Effect Modeling

Chairpersons – Georgi Georgiev (Bulgaria), Sergey Kolomiets (Russia)

22 September, 10⁵⁰,
room 1.001

- 10⁵⁰ – 10²⁰ 1. A Novel Reconfigurable Dual Band Microstrip Circular Patch Antenna using Coaxial Feed
Pradeep Chhawchharia, Geetanjali Institute of Technical Studies, India (Invited)
- 11²⁰ – 11⁴⁰ 2. Small Size Axial-Symmetrical Antennas for WiMax Applications
I. Ivanchenko, D. Ivanchenko, M. Khruslov, N. Popenko, Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Ukraine
- 11⁴⁰ – 12⁰⁰ 3. Beamforming Regularities of the Axial-Symmetric Antennas for WiMax Applications
I. Ivanchenko, N. Popenko, Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Ukraine
L.Lighard, Delft University of Technology, Delft, The Netherlands
- 12⁰⁰ – 12²⁰ 4. The Development of Norms of Frequency and Distance Separation of Digital Broadcasting and Television of Standard T-DAB and DVB-T with Thin-Route Radio Relay Stations
I.V. Sibruk, D.P. Bondarenko, National Aviation University, Ukraine
- 12²⁰ – 12⁴⁰ 5. Blood Flow Modeling in Narrow Capillaries and Electric Field Effect
E. Aznakayev, V. Kalion, National Aviation University, Ukraine
- 12⁵⁰ – 13⁵⁰ Dining hall Lunch

SESSION B3

Microwaves and Antenna Techniques

Chairpersons – Pradeep Chhawchharia (India), Oleg Drobahin (Ukraine)

22 September, 14⁰⁰,
room 1.001

- 14⁰⁰ – 14³⁰ 1. The Tricomi Theory of Confluent Hypergeometric Functions and its application to waveguide propagation
G. Georgiev, M. Georgieva-Grosse, University of Veliko Tirново "St. St. Cyril and Methodius", Bulgaria (Invited)
- 14³⁰ – 14⁵⁰ 2. Multiband Resonance Generation by Feed Manipulation in Microstrip Antenna
K.S. Alimgeer, S. Muzahir Abbas, H. Zahra, Z. Qamar, Shahid A. Khan, COMSATS Institute of Information Technology, Islamabad, Pakistan
Raheel Maqsood Hashmi, Politecnico di Milano, Milan, Italy
- 14⁵⁰ – 15¹⁰ 3. Cosecant-Squared Parabolic Reflector Antenna Design for Air and Coastal Surveillance Radars
Okan Yurduseven, Marmara University, Turkey
Okan Mert Yucedag, Tubitak National Research Institute Of Electronics And Cryptology (Uekae), Turkey
Ahmet Serdar Turk, Yildiz Technical University, Turkey

15¹⁰ – 15³⁰ 4. Tem Horn Fed Parabolic Reflector Antenna Design for Hyper Wide Band Impulse Radar Systems
M. Dagcan Senturk, Ahmet S. Turk, Yildiz Technical University, Turkey

15³⁰ – 15⁵⁰ 5. Polarization Selective Antennas for Radar Application
Yu. Averyanova, F. Yanovsky, National Aviation University, Ukraine

Coffee-break

SESSION B4

Passive and Semi Active Radar Applications

Chairpersons – Gerhard Greving (Germany), Victor Sterlyadkin (Russia)

**22 September, 16⁴⁰,
room 1.001**

16¹⁰ – 16⁴⁰ 1. Passive Radar for ATC
Krzysztof Kulpa, Warsaw University of Technology, Poland (Invited)

16⁴⁰ – 17⁰⁰ 2. Active Microwave and Millimeterwave ISAR Imagine and Millimeterwave Passive Radar Receiver Design
Harun Cetinkaya, Mustafa Tekbas , Ahmet Kizilhan, Alexey Vertiy, TUBITAK-MRC, Material Institute, International Laboratory for High Technologies (ILHT), Gebze-Kocaeli, Turkey

17⁰⁰ – 17²⁰ 3. Multifrequency Measurements in Millimeter Wave Range as a tool of Artificial Structures Research
O. Drobakhin, V. V. Alekseev, D. Yu. Saltykov, A. D. Saltykov, Dnepropetrovsk National University, Ukraine

17²⁰ – 17⁴⁰ 4. Comparison of Using SAR Processing and Hough Transform as a Methods for GPR Radar Image Creation
Mariusz Zych, Warsaw University of Technology, Poland

17⁴⁰ – 18⁰⁰ 5. The Radio Sources Coordinates Estimation by the Range-Difference Method Using Low-Orbit Constellation of Small Satellites
Voroshilin Eugene, Mikhail Mironov, Tomsk State University of Control Systems and Radioelectronics, Russia

23 September

SESSION B5

Advanced Radar Methods in Meteorology

Chairpersons – Piet van Genderen (The Netherlands), Alexey Vertiy (Turkey)

**23 September, 10⁰⁰ - 11⁵⁰,
room 1.001**

10⁰⁰ – 10³⁰ 1. Methods of Doppler Tomography in Radar Meteorology
A.G. Gorelik, V.V. Sterlyadkin, Moscow Institute of Physics and Technology, Dolgoprudniy, Russia

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- 10³⁰ – 10⁵⁰ 2. Application of Differential RCS for Measurements of Rain Parameters
Yu. Belov, A. Linkova, G. Khlopov, S. Khomenko, O. Vojtovich, Institute of Radiophysics and Electronics of NAS of Ukraine, Ukraine
- 10⁵⁰ – 11¹⁰ 3. Generalized Multiplicative Coefficient in Rainfall Rate - Radar Reflectivity Factor Relationship under Assumption of Modified Gamma Drop Size Distribution and its Use Within Wide Range of Wavelength and Time Intervals
Sergey F. Kolomiets, Moscow Institute of Physics and Technology, Dolgoprudniy, Russia
- 11¹⁰ – 11³⁰ 4. Study of Dynamic Processes in Clouds During Rain and Rain Microstructure by Means of Multiwave Doppler Radars
Sergey F. Kolomiets, Andrey G. Gorelik, Moscow Institute of Physics and Technology, Dolgoprudniy, Russia
- 11³⁰ – 11⁵⁰ 5. Doppler-Polarimetric Radar Meteorological Applications
F. Yanovsky, Yu. Averyanova, National Aviation University, Ukraine
- 11⁵⁰ – 12⁰⁰ **Closing remarks on the RMSW-2010**
- 12⁰⁰ – 14⁰⁰ **Lunch time**
- 14⁰⁰, Assembly hall in the 1st building

FOURTH WORLD AVIATION CONGRESS Closing Ceremony