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

0830, 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

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, 10:50, room 1.001

10:50 – 11:20
1. A Novel Reconfigurable Dual Band Microstrip Circular Patch Antenna using Coaxial Feed
Pradeep Chhawchharia, Geetanjali Institute of Technical Studies, India (Invited)

11:20 – 11:40
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

11:40 – 12:00
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

12:00 – 12:20
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

12:20 – 12:40
5. Blood Flow Modeling in Narrow Capillaries and Electric Field Effect
E. Aznakayev, V. Kalion, National Aviation University, Ukraine

12:50 – 13:50 Dining hall Lunch

SESSION B3
Microwaves and Antenna Techniques
Chairpersons – Pradeep Chhawchharia (India), Oleg Drobahin (Ukraine)

22 September, 14:00, room 1.001

14:00 – 14:30
1. The Tricomi Theory of Confluent Hypergeometric Functions and its application to waveguide propagation
G. Georgiev, M. Georgieva-Grosse, University of Veliko Tarnovo "St. St. Cyril and Methodius", Bulgaria (Invited)

14:30 – 15:00
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

15:00 – 15:30
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
*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, 16:40, room 1.001

1600 – 1630  1. Passive Radar for ATC  
*Krzysztof Kulpa, Warsaw University of Technology, Poland (Invited)*

1630 – 1700  2. Active Microwave and Millimeterwave ISAR Imagine and Millimeterwave Passive Radar Receiver Design  
*Harun Cetinkaya, Mustafa Tekbas, Ahmet Kızılan, 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*

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**23 September**

**SESSION B5**  
**Advanced Radar Methods in Meteorology**  
Chairpersons – Piet van Genderen (The Netherlands), Alexey Vertiy (Turkey)  

23 September, 10:00 - 11:50, room 1.001

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

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, Dolgoprudny, Russia

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, Dolgoprudny, Russia

5. Doppler-Polarimetric Radar Meteorological Applications

F. Yanovsky, Yu. Averyanova, National Aviation University, Ukraine

Closing remarks on the RMSW-2010

Lunch time

FOURTH WORLD AVIATION CONGRESS
Closing Ceremony