

**XI INTERNATIONAL CONFERENCE
ON ANTENNA THEORY
AND TECHNIQUES**



PROGRAM

Kyiv, Ukraine
24-27 May 2017

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WELCOME TO ICATT-2017

Dear colleagues, dear friends,

We are glad to welcome all the participants of the XI International Conference on Antenna Theory and Techniques (ICATT-2017), being held at the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”.

The ICATT-2017 Technical Program Committee has totally accepted over 110 papers for presentation at 3 plenary and 11 section sessions. As always, the Conference organizers paid special attention to invited papers presented by highly skilled scientists in different fields of the state-of-the-art antenna theory and techniques. No doubts this will raise the scientific level and significance of the Conference and will be greatly benefit young scientists.

It is already the fourth ICATT being held in the capital of Ukraine—the beautiful city of Kyiv whose glory is in its rich history, wonderful parks, places and memorials. On the one hand, this is tribute to and recognition of the high level of Kyiv antenna science and engineering. On the other hand, this is due to the warm hospitality and excellent work conditions, which are provided by the staff of Igor Sikorsky KPI. We would like to thank very much the Honorary Chairman of the ICATT-2017 Organizing Committee, the Rector of Igor Sikorsky KPI, Academician Mykhaylo Z. Zgurovsky as well as everyone in the Organizing Committee and Antenna Group of the Department of Theoretical Foundations of Radio Engineering, who made all their best efforts for this Conference to be successful.

We would like also to thank all the participants who contributed to the success of ICATT-2017 and made the Conference a reality.

We also wish to express our gratitude to ICATT-2017 sponsors, partners and supporters for their financial and technical support.

- ✓ Dear participants, please note that organizing committee will select the best young scientist presentation in each of the six topics of the conference. The winners will be awarded with valuable prizes at the closing ceremony of the conference.
- ✓ Also please remember to keep your unique registration number, as there would be a lottery during the conference banquet with a chance to win valued prizes.
- ✓ In addition we decided to offer extra prizes (the printed recent issue of **Radioelectronics and Communication Systems** journal) for each person who would ‘Like’ the ICATT-2017 conference FB event page and the journal’s Facebook page and answer few brief questionnaires on the conference Facebook event page.

We wish all the ICATT’17 participants a fruitful work and pleasant stay in Kyiv during these charming May days.

*Honorary Chairman Yakov S. Shifrin
Chairman Fedor F. Dubrovka*

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ICATT-2017 SCHEDULE

Date	Time	Academic Council Hall (A)	Room 262-1 (A)	Room 249-1 (A)	Room 214-1 (A)
Wednesday, May 24	8:30-17:00	Registration (Alma Mater)			
	9:00-10:00	Wellcome reception (Alma Mater)			
	10:00-10:20	Opening Ceremony (ACH)			
	10:20-11:40	PL-1			
	11:40-12:10	Coffee Break-1-1 (Alma Mater)			
	12:10-13:30	PL-1			
	13:30-14:50	Lunch-1			
	14:50-16:30	GAT-1	AA-1	UWB-1	MC-1
	16:30-17:00	Coffee Break-1-2 (Alma Mater)			
17:00-18:40	GAT-1	AA-1	UWB-1	MC-1	

Date	Time	Room office 4	Room 249-1 (A)	Room 255-1 (A)	Room 258-1 (A)
Thursday, May 25	9:30-10:50	PL-2			
	10:50-11:20	Coffee Break-2-1 (Alma Mater)			
	11:20-12:40	PL-2			
	12:40-14:00	Lunch-2			
	14:00-15:40	GAT-2	UWB-2	RSA-1	AA-2
	15:40-16:10	Coffee Break-2-2 (Alma Mater)			
	16:10-17:50	MAMT-1	UWB-2	MC-2	AA-2
	18:00-20:00	Banquet (Alma Mater)			

TIMETABLE

Date	Time	Academic Council Hall (A)	Room 262-1 (A)	Room 258-1 (A)
Friday, May 26	9:20-10:40	RSA-2	MAMT-2	MC-3
	10:40-11:10	Coffee Break-3-1 (Alma Mater)		
	11:10-12:30	RSA-2	MAMT-2	MC-3
	12:30-14:00	Lunch-3		
	14:00-16:00	PL-3		
	16:00-16:30	Coffee Break-3-2 (Alma Mater)		
	16:30-18:30	PL-3		
	18:30-19:00	Closing Ceremony (ACH)		

PL — **P**lenary Session (Invited papers)

GAT — **G**eneral **A**ntenna **T**heory, propagation, numerical and analytical methods

AA — **A**ntenna **A**rrays, adaptive and smart antennas

UWB — **U**WB, low-gain, communication and printed antennas

MC — **M**icrowave **C**omponents and feeds

RSA — **R**emote **S**ensing **A**ntennas, signal processing and communications

MAMT — **M**easurements and **A**pplications of **M**icrowave **T**echnologies

WEDNESDAY, MAY 24

8:30–17:00	REGISTRATION	Alma Mater (A)
9:00–10:00	WELCOME RECEPTION	Alma Mater (A)
10:00–10:20	OPENING CEREMONY	ACH (A)
24.05.2017 10:20–13:30	PLENARY SESSION PL-1 Invited Papers	Room ACH (A)
Chairs:	<i>F. F. Dubrovka (Kyiv, Ukraine)</i> <i>Dmitry M. Vavriv (Kharkiv, Ukraine)</i> <i>Oleg O. Drobakhin (Dnipro, Ukraine)</i>	
10:20–11:00	INTRODUCING QUASI-OPTICAL TERAHERTZ CIRCULAR DICHROISM SPECTROSCOPY <i>Junyi Qui, Oleksandr Sushko, Yang Zeng, Bin Yang, Richard Pickersgill, Robert S. Donnan</i>	
11:00–11:40	ULTRAWIDEBAND TAPERED SLOT, WAVEGUIDE AND DIPOLE ANTENNA ARRAYS <i>F. F. Dubrovka, Sergiy Ye. Martynyuk, D. O. Vasylenko, O. S. Postulga</i>	
11:40–12:10	Coffee break	"Alma Mater"
12:10–12:50	TWO APPROACHES TO SOLVING THE ANTENNA SYNTHESIS PROBLEMS ACCORDING TO THE AMPLITUDE RADIATION PATTERN <i>Mykhailo I. Andriychuk</i>	
12:50–13:30	ANTENNA PATTERN MEASUREMENTS: UWB IMPULSE AND MULTIFREQUENCY SIGNALS COMPARISON <i>G. P. Pochanin, O. A. Orlenko, V. P. Ruban, V. G. Korzh, M. V. Andreev, Oleg O. Drobakhin</i>	
13:30–14:50	Lunch	
24.05.2017 14:50–18:40	Session GAT-1 GENERAL ANTENNA THEORY, PROPAGATION, NUMERICAL AND ANALYTICAL METHODS	Room ACH (A)
Chairs:	<i>Mykhailo I. Andriychuk (Lviv, Ukraine)</i> <i>Petro O. Savenko (Lviv, Ukraine)</i>	
14:50–15:10	NUMERICAL SOLUTION OF NONLINEAR SPECTRAL PROBLEMS IN SYHTHESIS THEORY OF ANTENNAS WITH FLAT APERTURE <i>Petro O. Savenko, Myroslava Tkach</i>	

15:10–15:30	NEAR-FIELD CALCULATION FOR REFLECTOR ANTENNA WITH SHAPE OF ASYMMETRICAL CUTTING FROM A PARABOLOID OF REVOLUTION <i>Sergey V. Nechitaylo, Oleg I. Sukharevsky, Vitaly A. Vasilets</i>
15:30–15:50	RADIATION FIELDS OF A RADIAL DIPOLE LOCATED ON A METAL SPHERE COATED BY A LAYER OF METAMATERIAL <i>Yuriy M. Penkin, Victor A. Katrich, Mikhail V. Nesterenko, Sergey L. Berdnik, Svetlana V. Pshenichnaya</i>
15:50–16:10	ELECTROMAGNETIC NEAR-FIELD OF CIRCUMFERENTIAL SLOT CUT IN COAXIAL LINE SHIELD <i>V. A. Lyashchenko, N. V. Medvedev, A. V. Olefir</i>
16:10–16:30	ELECTROMAGNETIC FIELDS IN THE NEAR ZONE OF APERTURE ANTENNAS WITH ROUND OPENING <i>Nikolay N. Gorobets, Ye. Ye. Ovsyannikova</i>
16:30–17:00	Coffee break
17:00–17:20	DIRECTIONAL PROPERTIES OF LINEAR AND V-ANTENNAS <i>Boris Levin</i>
17:20–17:40	DIRECTOR ANTENNA WITH IN-PHASE CURRENTS <i>Boris M. Levin</i>
17:40–18:00	LOG-PERIODIC ANTENNAS WITH IN-PHASE CURRENTS <i>Boris M. Levin</i>
18:00–18:20	ARTIFICIAL NEURAL NETWORKS IN TIME DOMAIN ELECTROMAGNETICS <i>Oleksandr M. Dumin, S. Khmara, D. Shyrokorad</i>
18:20–18:40	AIRY PULSE TRANSFORMATION ON TIME-SPATIAL JUMPS OF REFRACTIVE INDEX <i>Alexander G. Nerukh, O. V. Kuryzheva</i>

24.05.2017 14:50–18:40	Session AA-1 ANTENNA ARRAYS, ADAPTIVE AND SMART ANTENNAS	Room 262-1 (A)
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Chairs: *Oleksander O. Konovalenko (Kharkiv, Ukraine), Victor I. Djigan (Moscow, Russia), Sergiy Ye. Martynyuk (Kyiv, Ukraine)*

14:50–15:10	ODD SYMMETRY OF WEIGHTS VECTOR IN LINEARLY-CONSTRAINED ADAPTIVE ARRAYS WITH DESIRED SIGNAL <i>Victor I. Djigan</i>
15:10–15:30	ANALYSIS AND OPTIMIZATION OF THE

Wednesday, May 24

	DECOUPLING IN ANTENNA SYSTEMS CONSISTING OF ANTENNA ARRAYS <i>Vladimir N. Lavrushev, A. I. Murtazina</i>
15:30–15:50	FREQUENCY AND PATTERN RECONFIGURABLE ANTENNA ARRAY BASED ON LIQUID CRYSTAL TECHNOLOGY <i>Yizhe Zhao, An-Yong Oing</i>
15:50–16:10	RADIATION, SCANNING AND MATCHING CHARACTERISTICS OF THE NEW DESIGN OF PHASED ANTENNA ARRAY OF PRINTED BOW-TIE DIPOLES <i>F. F. Dubrovka, Oleg E. Vydalko, V. I. Gouz</i>
16:10–16:30	CYLINDRICAL ANTENNA ARRAY DEVELOPMENT AND MEASUREMENTS FOR DOA-ESTIMATION APPLICATIONS <i>Yu. B. Nechaev, Ilia W. Peshkov, N. A. Fortunova</i>
16:30–17:00	Coffee break
17:00–17:20	RANDOM INCOHERENT ANTENNA ARRAYS FOCUSED IN THE NEAR FIELD ZONE <i>Denis A. Vedenkin, Aydar R. Nasybullin, Yuri E. Sedelnikov</i>
17:20–17:40	MUTUAL COUPLING INFLUENCE ON PARAMETERS OF ARC E-PLANE ANTENNA ARRAY OF VIBRATOR RADIATORS <i>Siarhei Zavadski</i>
17:40–18:00	RADIATION PATTERN OF LINEAR ANTENNA ARRAY WITH CONTROL OF DIRECTIVITY AND SUPER-SELECTIVITY PROPERTIES <i>V. M. Koshevyy, Anna A. Shevchenko</i>
18:00–18:20	PLANAR KU BAND ANTENNA FOR PERSPECTIVE TELECOMMUNICATION FACILITIES <i>Viktor I. Klassen, Evgeniy Yu. Olejnik, Yuri E. Sedelnikov, Mokhamed Shaaban</i>
18:20–18:40	W BAND PATCH ANTENNA ARRAY FOR MAGLEV SMART GRID TECHNOLOGY <i>Alexey B. Gnilenko, Sergey V. Plaksin</i>

24.05.2017 14:50–18:40	Session UWB-1 UWB, LOW-GAIN, COMMUNICATION AND PRINTED ANTENNAS	Room 249-1 (A)
Chairs:	<i>Victor A. Katrich (Kharkiv, Ukraine), Nikolay N. Gorobets (Kharkiv, Ukraine)</i>	
15:10–15:30	VARIANTS OF THE DOUBLE-FREQUENCY GPS ANTENNAS <i>A. A. Galischuk, V. M. Maslyey, O. L. Ol'shevs'kiy,</i>	

	<i>Y. D. Romanenko, V. V. Zaznabin</i>
14:50–15:10	NEAR FIELD ZONE OF THE UWB BOW-TIE DIPOLES <i>A. A. Orlenko, L. A. Varianytsia-Roshchupkina</i>
15:30–15:50	COMBINING ELECTRIC AND MAGNETIC DIPOLES IN THE CONSTRUCTION OF ANTENNAS <i>V. A. Katrich, A. I. Karpov, S. A. Yarmolchuk, N. A. Syvozalizov, Ye. Antonenko</i>
15:50–16:10	MODELING OF ULTRA-WIDEBAND ANTENNAS FOR MULTI-PURPOSE BROADBAND SYSTEMS <i>S. V. Bukharov, V. D. Ryabchiy</i>
16:10–16:30	WIDEBAND PLANAR ANTENNA BASED ON CRLH-TL FOR OPERATION ACROSS UHF/L/S-BANDS <i>Mohammad Alibakhshikenari, Ernesto Limiti, Bal S. Virdee</i>
16:30–17:00	Coffee break
17:00–17:20	ACTIVE LOOP SENSOR FOR RECEIVING PULSE MAGNETIC FIELDS OF NANOSECOND DURATION <i>P. V. Kholod, T. N. Ogurtsova</i>
17:20–17:40	SNRS OF TWO ACTIVE ANTENNA DESIGNS: INVERTED V VS HORIZONTAL DIPOLE <i>Alexander A. Konovalenko, Peter L. Tokarsky, Igor N. Bubnov, Serge N. Yerin</i>
17:40–18:00	ACTIVE ANTENNA WITH SWITCHABLE BEAMS FOR WIRELESS SENSOR NETWORKS AND IOT <i>J. M. Rigelsford, H. Hussein, Radhwan J. Alkhudhairi</i>
18:00–18:20	LARGE CURRENT RADIATOR FOR LONG RANGE GPR APPLICATIONS <i>Vladimir G. Sugak, Fang Gyfang</i>
18:20–18:40	STUDY OF PERTURBING FACTORS EFFECT ON THE PERFORMANCE DATA OF ANTENNAS FOCUSED IN THE NEAR-FIELD ZONE FOR MICROWAVE APPLICATION PROBLEMS <i>Yu. E. Sedelnikov, Olga V. Potapova, D. V. Nikishina</i>

24.05.2017 14:50–18:40	Session MC-1 MICROWAVE COMPONENTS AND FEEDS	Room 214-1 (A)
Chairs:	<i>A. A. Kirilenko (Kharkiv, Ukraine), Alexander V. Zakharov (Kyiv, Ukraine), Valeriy I. Oborzhytsky (Lviv, Ukraine)</i>	
14:50–15:10	COMPACT POLARIZATION PLANE ROTATOR FOR ARBITRARY ANGLE <i>Dmitry Y. Kulik, S. O. Steshenko, A. A. Kirilenko</i>	
15:10–15:30	NOVEL HIGH PERFORMANCE COHERENT DUAL- WIDEBAND ORTHOMODE TRANSDUCER	

Wednesday, May 24

	FOR COAXIAL HORN FEEDS <i>Fedor F. Dubrovka, Stepan I. Piltyay</i>
15:30–15:50	DUAL BAND FEED HORN FOR MM-WAVE APPLICATIONS <i>Mykola M. Lytvyn, Serhiy M. Lytvyn, Yuriy A. Ovsianyk, Oleksandr Yu. Sushko</i>
15:50–16:10	HIGH PERFORMANCE EXTENDED C-BAND 3.4–4.8 GHZ DUAL CIRCULAR POLARIZATION FEED SYSTEM <i>Stepan I. Piltyay</i>
16:10–16:30	USE OF STRUCTURE SYMMETRY FOR THE DESIGN OF PASSIVE MICROSTRIP DEVICES <i>Valeriy I. Oborzhytskyy, Ivan Prudyus</i>
16:30–17:00	Coffee break
17:00–17:20	FORMING THE SENSITIVE AREA OF MICROWAVE MOTION SENSOR <i>Ivan N. Prudyus, V. G. Storozh, N.-V. I. Naida</i>
17:20–17:40	INVESTIGATION OF 3D PRINTED DIELECTRIC STRUCTURE FOR MICROWAVE LENS PROTOTYPING <i>Grigory K. Uskov, P. A. Kretov, V. A. Stepkin, N. S. Sbitnev, A. M. Bobreshov</i>
17:40–18:00	TUNABLE RX FILTER WITH FERROELECTRIC CAPACITORS FOR DCS, PCS AND IMT COMMUNICATION SYSTEMS <i>Alexander V. Zakharov</i>
18:00–18:20	UNCONVENTIONAL CONNECTION OF FERROELECTRIC CAPACITORS TO RESONATORS IN TUNABLE FILTERS <i>Alexander V. Zakharov</i>
18:20–18:40	DESIGN OF A COMPACT 7-12 GHZ MULTILAYERED STRIPLINE BANDPASS FILTER <i>Nima Azadi-Tinat, Ali Dorafshan</i>

THURSDAY, MAY 25

25.05.2017 9:30–12:40	PLENARY SESSION PL-2 Invited Papers	Room Office 4 (A)
Chairs:	<i>A. A. Kirilenko (Kharkiv, Ukraine), Mykhailo I. Andriychuk (Lviv, Ukraine), Peter L. Tokarsky (Kharkiv, Ukraine)</i>	
9:30–10:10	RECENT ADVANCES IN COMPUTATIONAL ELECTROMAGNETICS FOR MICROWAVES IN IRE NASU <i>Anatoliy A. Kirilenko, S. A. Steshenko, L. P. Mospan, D. Yu. Kulik, A. O. Perov</i>	
10:10–10:50	MEASUREMENTS OF NON-LINEAR SUB-THZ QUASI- OPTICAL DEVICES <i>Rostyslav F. Dubrovka, Oleksandr Sushko, Melusine Pigeon, Peter Lawrence Alizadeh, Andre Sarker Andy, Robert Donnan, Clive Parini, Theo Kreouzis</i>	
10:50–11:20	Coffee break	
11:20–12:00	TUNING RANGE OF MICROWAVE DEVICES WITH MICROMECHANICAL CONTROL <i>Victor Kazmirenko, Yuriy V. Prokopenko, Yuriy Poplavko</i>	
12:00–12:40	MILLIMETER-RANGE RADIOMETRIC SYSTEM FOR PERSPECTIVE PROBLEMS OF METEOROLOGY AND TELECOMMUNICATION <i>V. V. Pavlikov, N. V. Ruzhentsev, A. D. Sobkolov, A. I. Tsopa, D. S. Sal'nikov</i>	
12:40–14:00	Lunch	
25.05.2017 14:00–15:20	Session GAT-2 GENERAL ANTENNA THEORY, PROPAGATION, NUMERICAL AND ANALYTICAL METHODS	Room Office 4 (A)
Chairs:	<i>Viktor I. Naidenko (Kyiv, Ukraine), Oleksandr M. Dumin (Kharkiv, Ukraine)</i>	
14:00–14:20	EXCITATION OF THE NONMAGNETIC ISOTROPIC MEDIA WITH LINEAR DEPENDENCE CHARACTERISTIC IMPEDANCE ALONG THE DIRECTION OF PLANE WAVE PROPAGATION <i>O. Sh. Dautov</i>	
14:20–14:40	ANALYSIS OF AXIALLY SYMMETRIC DIFFRACTION GRATING <i>Maxim N. Legenkiy</i>	
14:40–15:00	PERFORMANCE EVALUATION OF AN IMPROVED ITU-R RAIN ATTENUATION PREDICTION MODEL	

Thursday, May 25

OVER MALAYSIA EQUATORIAL REGION
*Folasade Abiola Semire, Rosmiwati Mohd-Mokhtar,
Isaac Akinwale Akanbi*

15:00–15:20 PROOF OF SEPARATION OF ACTIVE AND REACTIVE
ENERGY OF WAVES IN A MEDIUM WITH LOSSES
Victor I. Naidenko

15:40–16:10 Coffee break

25.05.2017
16:10–17:50

Session MAMT-1
MEASUREMENTS AND APPLICATIONS
OF MICROWAVE TECHNOLOGIES

Room
Office 4
(A)

Chairs: *V. V. Pavlikov (Kharkiv, Ukraine),
O. V. Poliarus (Kharkiv, Ukraine)*

16:10–16:30 FREQUENCY DOMAIN MEASUREMENT
OF PERMEABILITY OF M400HH FERRITE RODS
IN THE VHF RANGE
*T. N. Ogurtsova, P. Kholod, G. Klochko, G. Pochanin,
S. Berdnik, O. Dumin*

16:30–16:50 ESTIMATION OF CLUTTERS FROM AIRCRAFTS
DURING IONOSPHERIC MEASUREMENTS USING
INCOHERENT SCATTER RADAR WITH 100-METER
TWO-MIRROR ANTENNA
*Yakiv Chepurnyy, Leonid Emelyanov, Dmytro Iskra,
Maryna Shulga*

16:50–17:10 STUDYING THE PROPERTIES OF DIFFERENT
MATERIALS USING TERAHERTZ 3D IMAGER RADAR
Mykola A. Kosovets, O. I. Pavlov, L. Tovstenko

17:10–17:30 TWO-FREQUENCY METHOD FOR PROBING
OF IONOSPHERIC RESONANCE INHOMOGENEITIES
A. R. Nasybullin, D. A. Vedenkin

17:30–17:50 MEASUREMENT METHOD OF THE OBJECT SURFACE
DEFLECTIONS USING ANTENNAS THEORY
O. V. Poliarus, E. O. Poliakov, Ya. S. Brovko

18:00–20:00

Banquet

“Alma Mater”
(A)

25.05.2017
14:00–17:50

Session UWB-2
UWB, LOW-GAIN, COMMUNICATION
AND PRINTED ANTENNAS

Room
249-1
(A)

Chairs: *Victor A. Katrich (Kharkiv, Ukraine),
Peter L. Tokarsky (Kharkiv, Ukraine)*

14:00–14:20 USING OF PRINTED ANTENNAS TO EVALUATE
THE PERMITTIVITY OF MATERIALS
S. V. Bukharov, Leonid A. Filins'kyi

14:20–14:40 INVESTIGATION OF THE ELECTRODYNAMIC

	CHARACTERISTICS OF FRACTAL DOUBLE-RING ANTENNA <i>T. A. Tsaliev, Kirill V. Kutsuk</i>	
14:40–15:00	MICROWAVE IRRADIATOR IN THE FORM OF A PIECE OF RECTANGULAR WAVEGUIDE WITH DIELECTRIC INSERTION AND NARROW SLOT <i>Natalya K. Blinova, Ludmila P. Yatsuk, Andrey V. Selutin</i>	
15:00–15:20	CHARACTERISTICS OF DIRECTIVITY OF VIBRATOR ANTENNAS PLACED PARALLEL TO FLAT SCREEN <i>A. A. Bulgakova, Nikolay N. Gorobets, V. A. Lyashchenko</i>	
15:20–15:40	MICROSTRIP ANTENNA WITH COMPLEX CONFIGURATION OF RADIATORS <i>Leonid N. Lytvynenko, Sergey A. Pogarsky, Dmitriy V. Mayboroda, Artem V. Poznyakov</i>	
15:40–16:10	Coffee break	
16:10–16:30	MINIATURIZED BROADBAND PRINTED UNIDIRECTIONAL ANTENNA WITH PARASITIC SLOTS FOR INDOOR WIRELESS APPLICATIONS <i>Ali Houssein Harmouch, Rayane Mourad</i>	
16:30–16:50	MODELING MICROSTRIP ANTENNAS FOR UHF RFID TAGS <i>Dmitry N. Borisov, Sergey A. Zuev</i>	
16:50–17:10	METHODS FOR CALCULATING ELECTRICALLY SMALL WIRE ANTENNAS <i>Victor V. Ovsyanikov, Elena R. Beznosova, Victoria A. Barma, Sergei I. Veklich</i>	
17:10–17:30	TWO-BAND CIRCULAR POLARIZATION ANTENNA FOR ARGOS-3 <i>Alexandr A. Bezgin, Alexandr A. Savochkin</i>	
17:30–17:50	OPTIMIZATION OF CIRCULARLY POLARIZED RADIATION OF INPHASE CROSSED IMPEDANCE DIPOLES WITH SCREEN <i>Alexey N. Gorobets, N. P. Yeliseyeva, V. A. Katrich, M. V. Nesterenko</i>	
18:00–20:00	Banquet	“Alma Mater” (A)

25.05.2017 14:00–15:20	Session RSA-1 REMOTE SENSING ANTENNAS, SIGNAL PROCESSING AND COMMUNICATIONS	Room 255–1 (A)
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Chairs: *Mariya S. Antyufeyeva (Kharkiv, Ukraine), V. I. Vasylyshyn (Kharkiv, Ukraine)*

14:00–14:20 EQUIPMENT OPTIMIZATION FOR WEATHER

Thursday, May 25

	BALLOON AND GROUND-BASED WEATHER STATIONS USING GNSS <i>Anatolii G. Laush</i>
14:20–14:40	ANALYTICAL DESCRIPTION OF POLAR COORDINATES OF RANDOM VECTORS IN CASE OF ARBITRARY FLUCTUATIONS OF ITS CARTESIAN COORDINATES <i>Shamil M. Chabdarov, Alexey A. Korobkov</i>
14:40–15:00	SEGMENTATION FOR DETECTING BUILDINGS IN INFRARED SPACE IMAGES <i>Alexey N. Gorobets</i>
15:00–15:20	DOA ESTIMATION USING BEAMSPACE ROOT-MUSIC BASED ESTIMATOR BANK <i>V. I. Vasylyshyn</i>
15:40–16:10	Coffee break

25.05.2017 16:10–17:30	Session MC-2 MICROWAVE COMPONENTS AND FEEDS	Room 255-1 (A)
Chairs:	<i>A. A. Kirilenko (Kharkiv, Ukraine), Yuriy V. Prokopenko (Kyiv, Ukraine)</i>	
16:10–16:30	FABRY-PEROT RESONATOR WITH EVANESCENT COAXIAL-SECTOR HOLES <i>Yulia V. Antonenko, A. V. Gribovsky</i>	
16:30–16:50	BRAGG STRUCTURES WITH THIN LOSSY LAYERS <i>M. V. Andreev, Valentin F. Borulko, O. O. Drobakhin, D. V. Sidorov</i>	
16:50–17:10	PACKET SUPPRESSION OF A LEAKAGE OF MICROWAVE POWER FROM INDUSTRIAL HEATING SYSTEMS VIA THE HIGHER MODES OF OPEN WAVEGUIDE PORTS <i>Lyudmila P. Mospan, Anatoly A. Kirilenko</i>	
17:10–17:30	ADAPTIVE CONTROL OF HYBRID MODES IN A LONGITUDINALLY MAGNETIZED GYROELECTROMAGNETIC CIRCULAR WAVEGUIDE <i>Illia V. Fedorin, Volodymyr I. Fesenko, Vladimir R. Tuz</i>	
18:00–20:00	Banquet	“Alma Mater” (A)

25.05.2017 14:00–17:30	Session AA-2 ANTENNA ARRAYS, ADAPTIVE AND SMART ANTENNAS	Room 258-1 (A)
Chairs:	<i>Vadym I. Slyusar (Kyiv, Ukraine), Stanislav S. Sekretarov (Kharkiv, Ukraine) Sergiy Ye. Martynyuk (Kyiv, Ukraine)</i>	
14:00–14:20	EVALUATING THE INFLUENCE OF INTRASYSTEM	

	<p>PERTURBATIONS OF THE OBSERVATIONS COVARIANCE MATRIX ON THE DF RESPONSE OF ADAPTIVE ANTENNA ARRAY</p> <p><i>Valery V. Skachkov, Victor V. Chepkyi, Alexander N. Efymchykov, Hennadii D. Bratchenko, Vladislav I. Pavlovich</i></p>	
14:20–14:40	<p>SPATIAL DISTRIBUTION OF THE AMPLITUDE OF ELECTROMAGNETIC WAVES IN THE NEAR ZONE OF LINEAR AND FLAT ANTENNA ARRAYS</p> <p><i>Nikolay N. Gorobets, A. S. Lebedev, A. A. Elizarenko</i></p>	
14:40–15:00	<p>ELECTRODYNAMICS ALGORITHM OF CALCULATION OF HORNS PHASED ANTENNA ARRAY</p> <p><i>V. Morozov, V. I. Magro, M. Hnatyuk</i></p>	
15:00–15:20	<p>EFFECT OF THE GROUND SCREEN ON SENSITIVITY OF LOW-FREQUENCY RADIO TELESCOPE ARRAY ELEMENT</p> <p><i>Peter L. Tokarsky, Alexander A. Konovalenko, Serge N. Yerin</i></p>	
15:40–16:10	Coffee break	
16:10–16:30	<p>ARRAY OF THE TWO ARC MONOPOLES ON A SPHERE WITH SURFACE IMPEDANCE</p> <p><i>V. M. Dakhov, S. L. Berdnik, N. K. Blinova, Yu. M. Penkin</i></p>	
16:30–16:50	<p>FEATURES OF PHOTONIC BEAMFORMER MODEL BASED ON DWDM APPROACH AND FIBER DISPERSION</p> <p><i>S. I. Ivanov, A. P. Lavrov, Igor I. Saenko</i></p>	
16:50–17:10	<p>CHOICE OF NUMBER, STRUCTURE AND PLACEMENT OF COMPENSATION MODULES IN THE RADAR WITH PLANAR PAA</p> <p><i>V. P. Ryabukha, D. I. Lekhovitskiy, A. V. Semenyaka, E. A. Katyushin</i></p>	
17:10–17:30	<p>ORIGINS OF THE DIGITAL ANTENNA ARRAY THEORY</p> <p><i>Vadym I. Slyusar</i></p>	
18:00–20:00	Banquet	“Alma Mater” (A)

FRIDAY, MAY 26

26.05.2017 9:20–12:30	Session RSA-2 REMOTE SENSING ANTENNAS, SIGNAL PROCESSING AND COMMUNICATIONS	Room ACH (A)
Chairs:	<i>Mariya S. Antyufeyeva (Kharkiv, Ukraine), Vadym I. Slyusar (Kyiv, Ukraine)</i>	
9:20–9:40	REMOTE SENSING OF PLANE-LAYERED MEDIA WITH LOSSES USING UWB SIGNALS <i>Dmitry O. Batrakov, Mariya S. Antyufeyeva, Alexandr V. Antyufeyev, Angelika G. Batrakova</i>	
9:40–10:00	RADIOPHOTONIC METHOD FOR SPECTRUM ANALYSIS OF SHF-BAND SIGNALS BASED ON STIMULATED MANDELSTAM-BRILLOUIN SCATTERING <i>Daniil S. Dmitriev, Oleg G. Morozov, Lutsiya M. Sarvarova, Pavel V. Gavrilov, Igor A. Makarov, Anvar A. Talipov</i>	
10:00–10:20	IDENTIFICATION APPROACH FOR DEFINING RADIOSIGNAL FREQUENCY <i>Dmytro P. Kucherov, A. L. Berezkin</i>	
10:20–10:40	RADIO SIGNAL DISTORTION ASSESSMENT BY NON DIRECTIONAL ANTENNAS OF THE HELICOPTER <i>Vladimir A. Ivanov, Olexandr S. Zadorozhnyi</i>	
10:40–11:10	Coffee break	
11:10–11:30	METHOD OF ADAPTIVE SELECTION OF CHANNEL NUMBER IN MIMO SYSTEM <i>Andrei V. Shyshatskyi, A. G. Zhuk, S. N. Petruk</i>	
11:30–11:50	EXPERIMENTAL EVALUATION OF THE SHADING EFFECT OF ACCELERATING LENS IN AZIMUTH PLANE <i>V. M. Astapenya, V. Yu. Sokolov</i>	
11:50–12:10	COMBINED ANTENNA OF UNMANNED AIRCRAFT VEHICLE FOR EARLY WARNING SYSTEM AGAINST DANGEROUS WIND SHEARS <i>Yurii N. Ulianov, Vitalii L. Misailov</i>	
12:10–12:30	QUASI-OPTICAL APPROACH TO THE ANALYSIS OF THE ENERGY MODEL OF MILLIMETER WAVE PROPAGATION AND ANTENNA CHARACTERISTICS <i>Yana A. Kremenetskaya, Igor O. Liskovskiy, Elena R. Zhukova</i>	

26.05.2017 9:20–12:30	Session MAMT-2 MEASUREMENTS AND APPLICATIONS OF MICROWAVE TECHNOLOGIES	Room 262-1 (A)
Chairs:	<i>V. V. Pavlikov (Kharkiv, Ukraine), O. Sh. Dautov (Kazan, Russia)</i>	
9:20–9:40	PARAMETERS OF FOAM LAYERS DEFINITION FOR CALCULATION OF REFLECTION COEFFICIENTS <i>Leonid A. Filins'kyi</i>	
9:40–10:00	INVESTIGATION OF REFLECTION IN THE FOAMED STRUCTURES <i>Leonid A. Filins'kyi, V. M. Morozov</i>	
10:00–10:20	RADIOPHOTONIC METHOD FOR INSTANTANEOUS FREQUENCY MEASUREMENT BASED ON PRINCIPLES OF “FREQUENCY-AMPLITUDE” CONVERSION IN FIBER BRAGG GRATING AND ADDITIONAL FREQUENCY SEPARATION <i>Alexander A. Ivanov, Oleg G. Morozov, Vladimir A. Andreev, Artem A. Kuznetsov, Lenar M. Faskhutdinov</i>	
10:20–10:40	EFFECT OF THE LOW ENERGY ELECTROMAGNETIC RADIATION OF CELL PHONE FREQUENCY (1.8 GHZ, 2.4 GHZ) ON THE CHROMATIN STATE IN CELLS OF HUMAN BUCCAL EPITHELIUM <i>Andrey Y Mudrak, Alexey A Demchenko, Nikolay N. Kolchigin, Yuriy G. Shckorbatov</i>	
10:40–11:10	Coffee break	
11:10–11:30	OPTIMIZATION OF MICROWAVE HEATING OF DIELECTRICS TAKING INTO ACCOUNT ERRORS IN AMPLITUDES OF THE EXCITATION ELECTROMAGNETIC FIELD EMITTERS <i>Vladimir I. Anfinogentov, Gennadiy A. Morozov, Nataliya E. Stakhova, Sergey V. Smirnov, Svetlana R. Ganieva</i>	
11:30–11:50	INVESTIGATION OF PROCESSING OF DENSE OILY SLUDGE USING MICROWAVE ENERGY <i>Denis A. Vedenkin, Dmutry E. Sharonov</i>	
11:50–12:10	RETRIEVING THE REFLECTION COEFFICIENT OF A SAMPLE FROM THE FREQUENCY RESPONSE OF A SPECIAL OPEN RESONATOR <i>Yu. I. Choni, A. G. Romanov, V. N. Lavrushev</i>	
12:10–12:30	TECHNOLOGY OF WIRELESS TRANSMISSION OF ENERGY TO REMOTE OBJECTS BASED ON MULTI- FREQUENCY SYSTEM OF TRANSMITTERS <i>Igor Yurievich Grishin, Rena R. Timirgaleeva, Sergey Vl. Titov, Yelena V. Titova</i>	

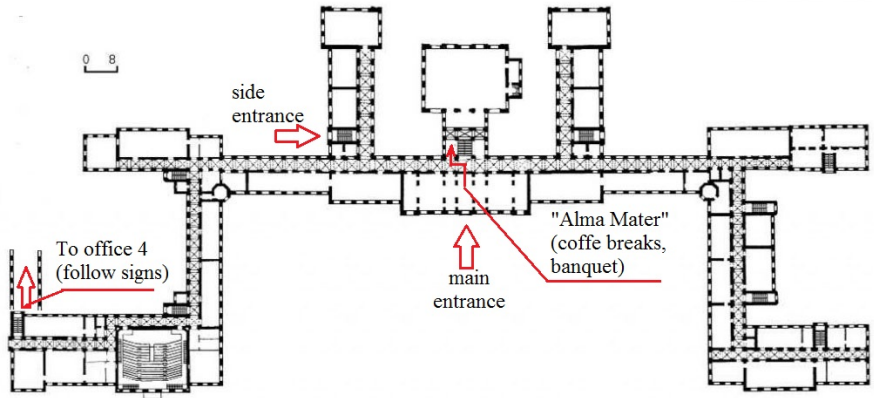
26.05.2017 9:20–12:30	Session MC-3 MICROWAVE COMPONENTS AND FEEDS	Room 258-1 (A)
Chairs:	<i>A. A. Kirilenko (Kharkiv, Ukraine), Rostyslav F. Dubrovka (London, UK), Valeriy I. Oborzhytskyk (Lviv, Ukraine)</i>	
9:20–9:40	COUPLING OF WAVEGUIDE WITH RESONATOR THROUGH DIAPHRAGM WITH SLOT WITH DIELECTRIC SLAB <i>A. F. Lyakhovsky, L. P. Yatsuk, A. A. Lyakhovsky</i>	
9:40–10:00	FEATURES OF THE DISPERSION CHARACTERISTICS OF PLANAR DIELECTRIC WAVEGUIDE-GRATING SYSTEM <i>Anatolii V. Hnatovskyi, S. A. Provalov</i>	
10:00–10:20	HELICON ISOLATOR WITH QUARTER-WAVE NONRECIPROCAL TRANSFORMER <i>Vladimir S. Vountesmery, Youry V. Vountesmery</i>	
10:20–10:40	AUTODYNE EFFECT APPLICATION FOR STABILITY ANALYSIS OF THE STEADY-STATE MODE OF UHF OSCILLATING SYSTEMS <i>Gennadiy P. Ermak, A. S. Vasiliev, V. Ya. Noskov, K. A. Ignatkov, A. P. Chupahin, S. M. Smolskiy</i>	
10:40–11:10	Coffee break	
11:10–11:30	SIGNAL ANALYSIS OF DOUBLE-DIODE AUTODYNE <i>Gennadiy P. Ermak, A. S. Vasiliev, V. Ya. Noskov, K. A. Ignatkov, A. P. Chupahin, S. M. Smolskiy</i>	
11:30–11:50	RADIOFREQUENCY DETERMINISTIC CHAOS OSCILLATOR BASED ON TRANSISTOR STRUCTURE WITH NEGATIVE RESISTANCE <i>Andriy O. Semenov</i>	
11:50–12:10	INFLUENCE OF THE AUTODYNE OSCILLATOR COUPLING DEGREE WITH ANTENNA UPON ITS TRANSFER AND NOISE CHARACTERISTICS <i>Gennadiy P. Ermak, A. S. Vasiliev, V. Ya. Noskov, K. A. Ignatkov, A. P. Chupahin, S. M. Smolskiy</i>	
12:10–12:30	COAXIAL HORN ANTENNA AND ITS USAGE PERSPECTIVES IN GROUND-PENETRATING RADAR SYSTEMS <i>Vitalyi D. Sakhatsky, Sergii Ianushkevych</i>	

12:30–14:00	Lunch	
26.05.2017 14:00–18:00	PLENARY SESSION PL-3 Invited Papers	Room ACH (A)
Chairs:	<i>Fedor F. Dubrovka (Kyiv, Ukraine), Dmitry M. Vavriv (Kharkiv, Ukraine)</i>	
14:00–14:40	RADOME INTEGRATED SLOTTED WAVEGUIDE ANTENNAS <i>Stanislav S. Sekretarov, D. M. Vavriv</i>	
14:40–15:20	ACHIVEMENTS IN ANTENNAS RESEARCH AT LVIV POLYTECHNIC NATIONAL UNIVERSITY <i>Viktor V. Hoblyk, V. A. Pavlysh, N. M. Hoblyk, Ye. I. Yakovenko, O. M. Liske, I. V. Nychai, D. V. Nevinskyi, D. A. Nikolayev, I. Yu. Teplakov</i>	
15:20–16:00	ADAPTIVE METHODS OF CONTROL FOR SIGNALS IN THE DIGITAL CHANNELS OF THE TROPOSPHERE COMMUNICATION <i>Vladymyr I. Rudakov</i>	
16:00–16:30	Coffee break	
16:30–17:00	MODELING AND OPTIMIZATION OF MICROWAVE HEATING IN CYLINDRICAL VOLUMES <i>Gennadiy A. Morozov, Vladimir I. Anfinogentov, Oleg G. Morozov, Sergey V. Smirnov, Svetlana R. Ganieva</i>	
17:30–18:00	NONLINEAR COMPOSITE MEDIA ON OPAL MATRIXES AND METALLOCARBON NANOSTRUCTURES <i>Gennady P. Sinyavsky, Dmitry A. Bezuglov, Larissa V. Cherckesova, Georgy N. Shalamov</i>	
18:00–18:30	X-RAY OPTICS: TRANSMISSION DIFFRACTIVE PATTERNS OF LARGE MICROCHANNEL PLATES <i>Aleksander M. Lerer, M. I. Mazuritskiy</i>	
18:30–19:00	CLOSING CEREMONY	ACH (A)

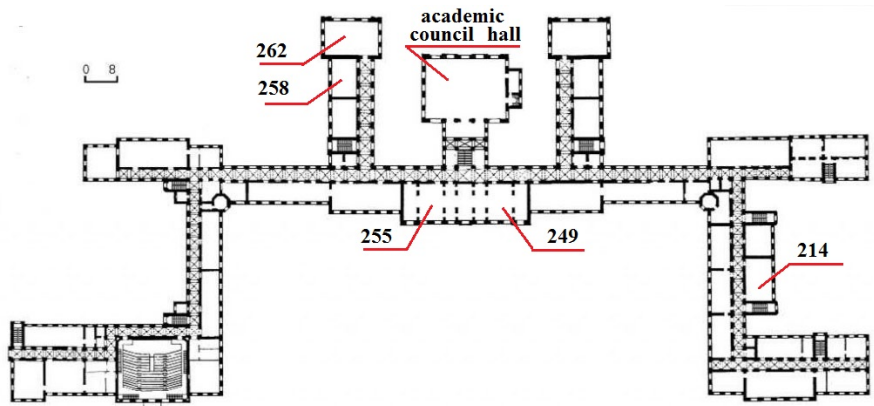
SATURDAY, MAY 27

9:30–14:00	SOCIAL EVENTS	Kyiv, Ukraine
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BUILDING PLAN (A)



Ground floor



First floor