

# ANNUAL REPORT FOR YEAR 2014

## IEEE AES SOCIETY

### Chapter Name: IEEE AP/MTT/ED/AES/GRS/NPS Societies East Ukraine Joint Chapter (CH 08199)

#### 1. BASIC INFORMATION

- A. Section Name: **Ukraine**  
 B. IEEE Region Number: **R8**  
 C. Societies that your chapter is joint with, if any: **AP/MTT/ED/AES/GRS/NPS**  
 D. Chapter Web address, if any: <http://www.rocket.kharkov.ua/~euachapter>  
 E. Officers for 2014:

	Chair	Vice Chair	Secretary	
Name	Dr. Nataliya K. Sakhnenko	Dr. Igor V. Ivanchenko	Ms. Anna M. Linkova	Dr Mikhail V. Balaban
Address	Kharkiv National University of Radio Electronics (KhNURE) Pr. Lenina 14, Kharkiv 61166, Ukraine	Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU), vul. Akad. Proskury 12, Kharkiv 61085, Ukraine	Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU), vul. Akad. Proskury 12, Kharkiv 61085, Ukraine	Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU), vul. Akad. Proskury 12, Kharkiv 61085, Ukraine
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F. Officers for 2015:

	Chair	Vice Chair	Secretary	Treasurer
Name	Prof. Nickolay T. Cherpak	Dr. Mikhail V. Balaban	Dr. Ganna B. Veselovska	Dr. Nadiia P. Stogniy
Address	Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU), vul. Akad. Proskury 12, Kharkiv 61085, Ukraine	Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU), vul. Akad. Proskury 12, Kharkiv 61085, Ukraine	Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU), vul. Akad. Proskury 12, Kharkiv 61085, Ukraine	Kharkiv National University of Radio Electronics (KhNURE) Pr. Lenina 14, Kharkiv 61166, Ukraine
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## 2. FINANCIAL INFORMATION

A. Chapter funds (US \$) on 1 January 2014: 0 USD

B. Income (US \$) during 2014:

1. Support from AESS\*: 500 USD

2. Support from other IEEE Societies: 3740 USD

3. IEEE Section support: 200 USD

4. Other support (specify): 0 USD

TOTAL INCOME: 4440 USD

\* Include annual support, special-project support, travel grant support, Best Chapter Award support, and any other support from AESS.

C. Expenditures (US \$) during 2014: 4440 USD

D. End of year balance (US \$) as of 31 December 2014: 0 USD

### **3. CHAPTER ACITVITIES DESCRIPTION**

#### **3.1 Summary Information for 2014**

##### **A. Number of technical meetings (in which a technical presentation is made)**

- 1. Presentations from student members of your chapter: 2**
- 2. Presentations from non-student members of your chapter: 16**  
(A member of your chapter is one who belongs to the AP-S Society and who lives within your Section. Do not include IEEE Distinguished Lecturers)
- 3. Presentations from outside speakers: 35**  
(This includes speakers from outside your chapter. Do not include IEEE Distinguished Lecturers.)
- 4. Presentations from IEEE Distinguished Lecturers: 0**
- 5. TOTAL numbers of technical meetings: 36**

##### **B. Average total attendance at the technical meetings: 20**

(Average over all of the technical meetings held during the year.)

##### **C. Number of non-technical (organizational) meetings held: 1**

##### **D. Number of workshops, short courses, or conferences organized or co-organized by your chapter: 4**

### 3.2 Technical Meeting Information for 2014

Note: For “Category”, please use the following:

S: speaker is a student member of the chapter

M: speaker is a non-student member of the chapter (but do not include IEEE Distinguished Lecturers)

O: speaker is from outside the chapter (but do not include IEEE Distinguished Lecturers)

D: speaker is an IEEE Distinguished Lecturer.

	<b>Title of Presentation/Name of Speaker</b>	<b>Attendance</b>	<b>Category</b>
<b>1</b>	21.01.14, Seminar with lecture: Kochetov B.A. "Interference interaction of counter-propagating pulses on a magneto-dielectric slab"	<b>18</b>	<b>O</b>
<b>2</b>	04.02.14, Seminar with lectures: 1. Belous R.I., Motorenko A.P., Skuratovkyi I.G., Hazov O.I. "Features of the waveguide-dielectric resonator with resonant short-circuiting piston". 2. Puzanov A.O., Efimov B.P., Kuleshov A.N. "Active resistance of torch discharge and frequency dependence of voltage of HF generator which is the lowest for its maintenance".	<b>14</b>	<b>O</b> <b>O</b>
<b>3</b>	06.02.14, Seminar with lecture: Balaban M.V., Somov A.V. "Study of the circular antenna array properties"	<b>21</b>	<b>M</b>
<b>4</b>	18.02.14, Seminar with lecture: Kozlov I.V. "Quantum oscillatory phenomena in organic layered conductors in a strong magnetic field"	<b>27</b>	<b>O</b>
<b>5</b>	20.02.14, Seminar with lecture: Trischuk O.B. "Excitation of conical and sphero-conical structures by elementary sources of electromagnetic fields."	<b>19</b>	<b>O</b>
<b>6</b>	26.02.14, Seminar with lectures: 1. Kravchenko V.F., Lutsenko V.I., Lutsenko I.V. "Scattering of radio waves by sea and objects detection against its background." 2. Nikolaenko A.P. "Definition of global thunderstorm parameters by records of Schumann resonance".	<b>20</b>	<b>O</b> <b>M</b>
<b>7</b>	12.03.14, Seminar with lectures: 1. Beletskyi N.N, Borysenko S.A., Gvozdev S.N. "Resonant interaction of electromagnetic waves in the defect-layered periodic structure, located in a parallel-plate waveguide". 2. Yurchenko V.B., Chydem M., Gradziel M.L., Murphy J.A., Altintas A., "Two-sided aspheric Fresnel lens with a fractional height of steps for quasi-experiments in the mm-wave band"	<b>23</b>	<b>O</b> <b>O</b>
<b>8</b>	13.03.14, Seminar with lectures: 1. Shapoval O.V. "Resonant scattering of electromagnetic waves by finite lattices of thin metal and graphene ribbons". 2. Veselovskaya A.B., Khlopov G.I., Voitovych O.A. "Backscattering from polydisperse medium of non-spherical water drops"	<b>21</b>	<b>S</b> <b>M</b>

<b>9</b>	26.03.14, Seminar with lectures: 1. Bychkov D.M., Ivanov V.K., Tsymbal V.N., Yatsevych S.E. "Determination of route for groundwater and underflooding and waterlogging areas by active-passive aviation remote sensing". 2. Bychkov D.M., Ivanov V.K., Tsymbal V.N., Yatsevych S.E. "Identification of hazards in drained soils by the method of multidimensional clustering of active-passive remote sensing data".	<b>17</b>	<b>O</b> <b>O</b>
<b>10</b>	27.03.14, Seminar with lecture: Linkova A.M., Khlopov G.I. "Reconstruction of liquid precipitation intensity using a multi-frequency active-passive sensing".	<b>15</b>	<b>M</b>
<b>11</b>	8.04.14, Seminar with lectures: 1. Tatyanko D.N. "Optical devices based on low-coherence spectral interferometry". 2. Khlopov G.I., Teplyuk A.L., Knehel R. "Solid coherently pulsed radars of millimeter wave range"	<b>22</b>	<b>O</b> <b>M</b>
<b>12</b>	10.04.14, Seminar with lectures: 1. Zheltov V.N. "Physical processes of excitation of electromagnetic oscillations in the generator of diffraction radiation with magnetostatic field, profiled in space by interaction". 2. Kuzmichev I.K. "Open resonator with a segment of rectangular waveguide".	<b>25</b>	<b>O</b> <b>O</b>
<b>13</b>	24.04.14, Seminar with lecture: Golovashchenko R.V. "Axisymmetric resonators with whispering gallery modes for microwave spectroscopy of millimeter wave band".	<b>13</b>	<b>O</b>
<b>14</b>	13.05.14, Seminar with lecture: Bezborodov V.I., Kosyak O.S., E.M. Kuleshov, V.V. Yachin "Differential phase section on the basis of form birefringence in the terahertz frequency range"	<b>16</b>	<b>M</b>
<b>15</b>	14.05.14, Seminar with lectures: 1. Zamaraev V.B., Sinytckiy V.B. "Definition of troposphere refraction characteristics in shadow zone by radiation of remote source. Part 1. Model" 2. Turgenev I.S., Kabanov V.A., Morgun V.B., Sinitckiy V.B. "Definition of troposphere refraction characteristics in shadow zone by radiation of remote source. Part 2. Experiment".	<b>20</b>	<b>O</b> <b>O</b>
<b>16</b>	14.05.14, Seminar with lecture: Beletsky N.N., Polevoy S.Y., Tarapov S.I. "Study of spectral and polarization characteristics of layered chiral media"	<b>23</b>	<b>O</b>
<b>17</b>	23.05.14, Seminar with lecture: Trofimenko S.V. "Ionization energy loss, slowing-down and transition radiation of ultrarelativistic electron with nonequilibrium field"	<b>18</b>	<b>O</b>
<b>18</b>	28.05.14, Seminar with lectures: 1. Kovorotnyi A.L., Kivva F.V., Goncharenko Y., Gorobetc V.N., Gorb A.I. "Comparative analysis of products for estimating the total water content of the troposphere over Kharkov on the basis of GPS measurements". 2. Goncharenko Y., Gorobetc V.N., Farquharson G. «Definition of the coastal roughness using interferometric synthetic aperture radar."	<b>16</b>	<b>M</b> <b>M</b>

<b>19</b>	05.06.14, Seminar with lecture: Miroshnichenko V.S., Kovalev V.A. "Properties of the resonant modes in an open resonant system with a focusing mirror, composed of several reflectors with a cylindrical surface (the case of H-polarization)"	<b>24</b>	<b>O</b>
<b>20</b>	11.06.14, Seminar with lectures: 1. Kharchenko A.A., "Spectral properties of spatially inhomogeneous structures in the millimeter wavelength range." 2. Vakula A.S., Neduh S.V., Polevoi S.Y., Tarapov S.I. "Ferromagnetic resonance of a hexagonal array of nanowires of permalloy in nanopores of alumina at temperatures of 300 K and 4.2 K"	<b>26</b>	<b>S</b> <b>M</b>
<b>21</b>	09.07.14, Seminar with lectures: 1. Pedenko Y.A. "Measurement of the elevation above the sea using the root-MUSIC method, the choice of solution subspace of signals". 2. Zhukov V.B., Odnovol A.V. "The influence of propagation channel on the operation of acoustic gauges".	<b>22</b>	<b>O</b> <b>O</b>
<b>22</b>	15.07.14, Seminar with lectures: 1. Kirichenko A.J., Golubnichnaya G.V. "Features of intertype interaction in quasi-optical disk resonators with a "purely internal "excitation of parasitic modes". 19 2. Veselovska A.B., Voitovych O.A., Khlopov G.I. "The removal of solution ambiguity of inverse problem of recovering the rain intensity using dual frequency radar sounding".	<b>19</b>	<b>O</b> <b>M</b>
<b>23</b>	18.09.14, Seminar with lecture: 1. Veselovska G.B. "Double frequency remote sensing of polydisperse liquid-drop environment with non-spherical particles"	<b>17</b>	<b>O</b>
<b>24</b>	30.09.14, Seminar with lectures: 1. Nesterov P.K., Yachin V.V., Zinenko T.L., Kuleshov E.M. "Study of thermos degradation CFRP by the method of polarization-frequency reflectometry in the sub-terahertz frequency range" 2. Belous R.I., Martynyuk S.P., Motornenko A.P., Skuratovsky I. "Tunable waveguide-dielectric resonator of millimeter range with advanced quality"	<b>26</b>	<b>M</b> <b>O</b>
<b>25</b>	07.10.14, Seminar with lecture: Tishchenko A.S., Yatsenko T.Y., Iliencko K.V. "Transportation of high-current particle beam in coaxial undulator with partly shielded cathode in leading uniform magnetic field"	<b>24</b>	<b>M</b>
<b>26</b>	28.10.14, Seminar with lecture: Dulova I.A. Kornienko Yu.V., Skuratovsky S.I. "Image overlapping in relief determination by photoclinometric method"	<b>20</b>	<b>O</b>
<b>27</b>	29.10.14, Seminar with lecture: Polevoy S.Y. "Electromagnetic properties of uniaxial gyrotropic materials in the millimeter range of wavelengths"	<b>16</b>	<b>O</b>
<b>28</b>	06.11.14, Seminar with lecture: Ruban V.P., Shuba A.A., Pochanin A.G., Pochanin G.P. "Strobe signal conversion for analog accumulation"	<b>19</b>	<b>M</b>

<b>29</b>	12.11.14, Seminar with lectures: 1. Nikolaenko A.P., Hayakawa M. "The disturbance of the lower ionosphere above the earthquake center and the abnormal signals of the global magnetic resonance. Part 1: Ionospheric model. Part 2: Anomalies in the energy spectra" 2. Varyanitsa-Roschupkina L.A., Pochanin G.P., Genarelli G., Soldovieri F. «Analysis of differential configurations of georadars in terms of display quality of subsurface objects"	<b>20</b>	<b>M</b>  <b>O</b>
<b>30</b>	26.11.14, Seminar with lecture: Matveev A.Y., Cubryakov A.A., Boev A.Y., Bychkov D.M., Ivanov V.K., Stanichny S.V., Tsymbal V.N. "Testing the model of oil spreading in problem of multiangle radar diagnosis of sea surface pollution"	<b>22</b>	<b>O</b>
<b>31</b>	03.12.14, Seminar with lectures: 1. Katsko S.V. "Effects of moderate ionospheric storms: the results of observations at the Kharkov incoherent radar" 2. Charkina O.V. "Diagnosis of ionospheric scintillations and absorption of radio emission from discrete cosmic sources using panoramic rheometers"	<b>26</b>	<b>O</b>  <b>O</b>
<b>32</b>	09.12.14, Seminar with lecture: Mizrakhi S.V. "Modeling the scattering of radio waves in a wide hollow dielectric beam guide"	<b>14</b>	<b>O</b>
<b>33</b>	10.12.14, Seminar with lectures: 1. Lutsenko V.I., Lutsenko I.V., Sobolyak A.V. "The action range of acoustic prospecting systems". 2. Ivanov V.K., Matveev A.Y., Tsymbal V.N., Yatsevich S.E. "Space radar monitoring of eolian transportation of sand and dust in the desert"	<b>21</b>	<b>O</b>  <b>O</b>
<b>34</b>	11.12.14, Seminar with lectures: 1. Tarapov S.I. "Radiophysical studies of magnetoactive materials: experiment in the mm range of wavelengths" 2. Brovenko A.V., Melezhik N.P., Melezhik P.N., Poedinchuk A.E. "Numerical-analytical method for solution of inverse problems of wave diffraction on layered nonuniform media"	<b>30</b>	<b>O</b>  <b>M</b>
<b>35</b>	17.12.14, Seminar with lecture: Ganapolsky E.M. "The phase transition of the 2nd kind in the quasi-optical microwave cavity resonator"	<b>18</b>	<b>O</b>
<b>36</b>	18.12.14, Seminar with lecture: Linkova A.M., Khlopov G.I. "Retrieval of microstructure characteristics of liquid precipitation by active-passive remote sensing"	<b>19</b>	<b>M</b>
<b>37</b>	29.12.14 Administrative Meeting: 1) Report about Annual Activity of East Ukraine Joint Chapter in 2014. (Chapter Chair N. Sakhnenko); 2) Elections on 2015; 3) International Publication Encouragement Award Ceremony	<b>31</b>	<b>S,M</b>

### 3.3 Summary of Workshops, Short Courses, and Conferences for 2014

April 16-19 2014, Kiev, Ukraine, XXXIII International Scientific Conference on Electronics and Nanotechnology(ELNANO 2014), [www.elnano.kpi.ua](http://www.elnano.kpi.ua), which is intended to bring together researchers from

the areas of nanotechnology, biomedical electronics and signal processing, power electronics, Smart Grid and electronic systems from leading universities, research laboratories and industry.

**August 26-28, 2014, 16th International Conference on Mathematical Methods in Electromagnetic Theory (MMET\*2014), Dnipropetrovsk, Ukraine, <http://www.mmet.org>.**

MMET is the largest forum of this sort in the Former Soviet Union (FSU). It is famous as efficient interface between the FSU and Western scientists and engineers in the broad area of modeling and simulation of electromagnetic fields including wave propagation, radiation, scattering, guidance, processing, etc. Characteristic feature of MMET is a stronger emphasis on the analytical and mathematical aspects of research into electromagnetics.

**September 23-25, 2014 4th Microwaves, Radar and Remote Sensing Symposium (MRRS-2014), Kiev, Ukraine, <http://ieee.nau.edu.ua/index-36.html>.** Symposium integrates researchers, experts and students who work in the field of electromagnetic theory and applications; microwaves; radar technology, systems and signal processing; remote sensing methods and data processing.

**October 14-17, 2014, X-th Kharkiv Young Scientists Conference on Radiophysics and Microwave Electronics, <http://www.ysc.org.ua>.**

Scientific program of the conference includes oral presentations on the following topics: microwave and terahertz electronics, geoscience and remote sensing, solid-state radiophysics, nano- and metamaterials, optics and photonics, biophysics. Besides of organizing the meetings, the funds are requested for covering the cost of postal and electronic mailing, membership promotion, and a moderate program of the young scientist conference travel support.

## **Special Projects**

The funds of 200 USD were used to award of young scientists at the 16th International Conference on Mathematical Methods in Electromagnetic Theory (MMET\*2014, August 26-28, 2014 – Dnipropetrovsk, Ukraine). The Conference web-site: <http://www.mmet.org>.

The winner of IEEE AESS young scientist's best paper award is Alexander Pitertsev for the paper "**Efficiency estimation for the parametric radar algorithm of detection of probable aircraft icing zones**" by A. Pitertsev and F. Yanovsky (Ukraine). He has received \$200 and the certificate that states that these funds come from IEEE AESS.

## **4. DESCRIPTION OF OTHER ACTIVITIES**

### **4.1 Are there any ways in which your chapter has improved over last year?**

- **IEEE Milestone.** Last year in November the IEEE Committee on the History assigned status IEEE Milestone to the decimeter radar "Zenith", developed and tested in 1938 in Kharkov by scientists of the electromagnetic oscillations laboratory of UPTI under the direction of A. Slutskina and with the participation of A. Usikova and S. Braude. Now the committee's decision is waiting for approval by the IEEE Council of Directors, and then, presumably in spring of year 2015, an official award ceremony will be held at the old building UPTI by brass memorial plate with the inscription: Zenit Parabolic Reflector L-band Pulsed Radar, 1938. The 1938 Zenit radar test at the Laboratory of Electromagnetic Oscillations of the Ukrainian Institute of Physics and Technology was a major advance in the development of radar. Designed by Abram Slutskin, Alexander Usikov and Semion Braude, microwave scientists and



magnetron pioneers, Zenit established the practicality of combining the pulsed method and a shorter wave band for determining precisely all three coordinates of airborne targets.

- **International Publication Encouragement Award** was established by the Chapter Committee, for a paper published by any Ukrainian scientist in an IEEE technical journal of a Chapter parent society in 2014. It consists of a colorful certificate signed by Chairman and Secretary, a bundle of high-quality A4 paper, and a bottle of Crimean Muscat champagne (the last component only at the awards ceremony in the end of year). 10 Awards were given in 2014.

#### **4.2. Were there any unique or innovative activities within your chapter?**

- Collaboration with other IEEE societies and chapters
  - Chapter Chair N.K. Sakhnenko attended AP-S Chapter Meeting in Memphis, USA, which was held in the framework of IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, July 6–11, 2014.
  - N.T. Cherpak took part in AP-S Chapter Meeting in Rome, Italy, which was held in the framework of European Microwave Week, October 6–10, 2014.
  - N.T. Cherpak represented Ukraine at the European Microwave Association
- The Chapter held the New Year Party for its Members: 31 Members took part.
- Young scientist conference travel grant program:

Ex-USSR applicants are welcome to apply for the annual Conference Travel Grant for attending international conferences outside of the ex-USSR. The scope of the conference must be within the topic area of electromagnetic theory and applications, including such topics as antennas, waveguides, scattering, etc. Applicants should be 1) under 40; 2) have completed or be in the process of completing a PhD thesis in Radio Physics or Microwaves; and 3) have good oral and written English skills. Preference is given to young researchers from Ukraine traveling to the West for the first time. However, applicants from other countries are also eligible.

The amount of the grant depends on the circumstances, but does not exceed 200 USD. The grant may be used to partially cover travel, accommodation, and registration expenses. There is no application deadline. However, applications should be made well before a proposed event. They should be written in English, in free format, and should contain references. A document certifying the acceptance of the conference paper must be enclosed. The potentially successful applicant may expect to sit for a personal interview.

#### **This year Young scientist conference travel grants were awarded to:**

1. **Anna Linkova (IRE NASU, Kharkiv, Ukraine)** received the grant in partial support of her attendance at the European Geosciences Union General Assembly 2014 that took place in Vienna, Austria, April 27 - May 2, 2014.
2. **Volodymyr Kudryashov (IRE NASU, Kharkiv, Ukraine)** received the grant in partial support of his attendance of the 15<sup>th</sup> International Radar Symposium 2014 (IRS 2014) which was held 16 - 18 June 2014 in Gdansk, Poland.

#### **4.3. Miscellaneous information, elaboration on any of the above topics, or special factors to be considered.**

- Our Chapter was awarded by “**IEEE MTT Society Outstanding Chapter Award**” from MTT Society. Award ceremony was held in the framework of European Microwave Week (EuMW 2014), 6 October 2014, Rome, Italy.

- Our Chapter held **annual elections** of the Chapter Committee Officers in December 2014 in full agreement with IEEE Bylaws – by a **secret ballot** with two alternative candidates recommended by the current Committee and the chapter members and, additionally, a possibility to write-in any other name; of chapter 73 members, 43 took part; votes were counted and announced by the tellers commission.

## 5. ACTIVITIES PLANNED FOR 2015

**April 21-24 2015, Kiev, Ukraine, XXXIV International Scientific Conference on Electronics and Nanotechnology(ELNANO 2015), [www.elnano.kpi.ua](http://www.elnano.kpi.ua).** Scientific program of the conference includes the topics on the nanotechnology, biomedical electronics and signal processing, power electronics, Smart Grid and electronic systems from leading universities, research laboratories and industry.

**September, 2015, X-th Kharkiv Young Scientists Conference on Radiophysics and Microwave Electronics, [www.ysc.org.ua](http://www.ysc.org.ua).**

Scientific program of the conference includes oral and poster presentations on the following topics: microwave and terahertz electronics, geoscience and remote sensing, solid-state radiophysics, nano- and metamaterials, optics and photonics, biophysics. Besides of organizing the meetings, the funds are requested for covering the cost of postal and electronic mailing, membership promotion, and a moderate program of the young scientist conference travel support.

**We plan to have at least 15 chapter meetings.** These meetings entail small expenses that are in part covered from the chapter budget. Besides of organizing the meetings, the funds are requested for covering the cost of postal and electronic mailing, membership promotion, and a moderate program of the young scientist conference travel support.

We also plan two small travel grants to young scientists from the ex-USSR.

### **Funds requested from AES: 300 USD**

Preferable way of the funds transfer: wire transfer to the account of the chapter treasurer,  
Miss **Nadiia Stognii**:

The wire transfer should be accomplished via the intermediate bank:

TROUGH CITIBANK N.A., N.Y., USA SWIFT CITI US 33 ACC. 36083522

for the PAYING BANK: THE STATE EXPORT-IMPORT BANK OF UKRAINE  
UKRAINE, 03150 KIEV, 127 GORKOGO STR.  
SWIFT EXBS UA UX

**The transfer should be accomplished for Kharkiv Branch of the bank:**  
**UKRAINE, 61057 KHARKIV, 11 CHERNYSHEVSKOGO STR.**

**Beneficiary: MISS NADIYA P. STOGNII**  
**ACC. 26204000132185**

**Post address of the beneficiary:**  
**UKRAINE, 61166 KHARKIV, 14 LENINA AVE.**

**REMARK:** Please, use the following “voluntary support” for the payment purpose.

**6. PREPARED BY**

N.K. Sakhnenko, 2014 IEEE East Ukraine Joint Chapter Chair  
A.M. Linkova, 2014 IEEE East Ukraine Joint Chapter Secretary

January 31, 2014