Wednesday, 20 September 2017

REGISTRATION OF THE PARTICIPANTS
9.00 – 10.00

OPENING
10.00 – 10.10

PRESENTATION OF IEEE
10.10 – 10.20

IEEE Poland Section • Polish Chapter of the IEEE EMC Society

Session 1
10.20 – 11.20

Sources of electromagnetic disturbances

Session chairman -

1. MORA Maria Alejandra, COYITANGIYE L. A., CUCCHIARO M.
   ELECTROMAGNETIC FIELDS RADIATED BY HIGH SPEED RAILWAY LINES, APPLICATION CASE: COVER SLAB OVER THE RAILWAY LINES
   FRANCE

2. SADOWSKI Maciej
   MEASUREMENTS OF LEAKAGE FROM DEVICES OF CATV SYSTEM
   POLAND

3. SZAFAŃSKA Monika E.
   ELECTROMAGNETIC WAVES PROPAGATION IN TUNNELS – DETECTION OF THE EM DISTURBANCES SOURCE
   POLAND

Coffee break
11.20 – 11.40

Session 2
11.40 – 13.00

Measurements and simulation of disturbances

Session chairman -

1. BITTERA Mikulas, NOVAKOVA Tereza
   FREQUENCY DEPENDENT CONTRIBUTIONS OF RADIATED EMI MEASUREMENT UNCERTAINTY
   SLOVAKIA

2. KARNAS Grzegorz, FILIK Kamil, SZCZUPAK Paweł, MASŁOWSKI Grzegorz
   AN OPEN TEST SITE CALIBRATION OF ELF-MF ELECTRIC FIELD ANTENNA DEDICATED TO LIGHTNING MEASUREMENTS
   POLAND

3. MACHCZYŃSKI Wojciech, TYPANSKA Dorota
   COMPUTER SIMULATIONS OF EFFECTS OF LIGHTNING SURGE DISTURBANCES IN LIGHTING POWER CONTROLLER
   POLAND
4. ROŽANSKIENĖ Arnolda, MARKEVIČIUS Linas
   EVALUATION OF ELECTROMAGNETIC PROCESSES IN HIGH VOLTAGE OHL BY TRANSIENT FAST ANALYSIS MODELS
   LITHUANIA

   **LUNCH**
   13.00 – 14.00

   Visiting of High Voltage Laboratory and laboratory Inno-Eko-Tech
   14.00 – 14.40

   **Session 3**
   14.40 – 15.40
   **EMD emission and susceptibility**
   **Session chairman -**

   1. NOGA Artur, WÓJCIK Dariusz, SURMA Maciej, KARWOWSKI Andrzej
      FULL-WAVE NUMERICAL ANALYSIS OF EEG DEVICE RADIATED IMMUNITY
      POLAND

   2. WÓJCIK Dariusz, SURMA Maciej, MAGNUSKI Miroslaw, NOGA Artur, MOCHA Jan
      EXPERIMENTAL VERIFICATION OF SUSCEPTIBILITY TO EMI OF OPERATIONAL AMPLIFIERS
      POLAND

   3. NOGA Artur, WÓJCIK Dariusz, SURMA Maciej
      INFLUENCE OF LAYER STUCKUP AND DECOUPLING CAPACITORS PLACEMENT ON POWER DELIVERY NETWORK IMPEDANCE
      POLAND

   **Coffee break**
   15.40 – 16.00

   **Session 4A**
   16.00 – 17.20
   **EMD standards and testing**
   **Shielding techniques**
   **Session chairman -**

   1. FILIK Kamil, MASŁOWSKI Grzegorz, KARNAS Grzegorz, SZCZUPAK Paweł, KARPIŃSKI Lesław, ZIEMBA Robert, WYDERKA Stanislaw
      DIFFERENT APPLICATION OF MODULAR IMPULSE GENERATORS DEDICATED TO LIGHTNING OVERVOLTAGE TESTS OF AVIONICS
      POLAND

   2. HALLON Jozef, KOVÁČ Karol, BITTERA Mikuláš
      ELECTROMAGNETIC CLAMP FOR EFT PULSES INJECTION
      SLOVAKIA

   3. HARŤANSKÝ René, HALGOŠ Ján, MIERKA Martin
      TEM CELL DESIGN
      SLOVAKIA

   - 3 -
4. KACZMAREK Andrzej, STENCEL Przemysław
THE CONCEPT OF AUTOMATION TEST STANDS FOR THE PROCEDURE RS103 STANDARDS MIL-STD-461G
POLAND

Coffee break
17.20 – 17.30

Session 4B
17.30 – 18.30
EMD standards and testing
Shielding techniques
Session chairman -

5. MICHALAK Marek P.
ALTERNATIVE ELECTROMAGNETIC COMPATIBILITY METHODS TESTS OF MINING EQUIPMENT
POLAND

6. MICHALAK Marek P., SZAFRAŃSKA Monika E.
EMC IN IOT WORLD
POLAND

7. PRUDNIK Aleksander, KUDRYAVTSEVA Tamara, BELOGLAZOV Alexander, LYNKOU Leanid
PRODUCTION TECHNOLOGY AND SHIELDING PROPERTIES OF THE NEEDLE-PUNCHED NON-VOWEN FABRICS
WITH CARBON ADDITIVES
BELARUS / RUSSIA

Banquet
19.00 – 22.00

Thursday, 21 September 2017

Session 5
8.20 – 9.20
EMD in power systems, power quality
Session chairman -

1. MANIAK Krzysztof, TOMCZYK Tomasz
ELECTROMAGNETIC COMPATIBILITY IN DISTRIBUTED POWER SYSTEMS
POLAND

2. REBOUL Clément, CUCCHIARO Michel
IMPACT OF VOLTAGE LIMITING DEVICES ON RAIL POTENTIAL IN D.C. RAILWAYS
FRANCE
3. GUDŽIUS Saulius, MORKVĖNAS Alfonsas, BRAZIONIENĖ Dovilė, TIČKA Vidmantas, JASIŲNAS Kęstutis

EXPERIMENTAL INVESTIGATION OF SWITCHING OVERVOLTAGES OF SHUNT REACTOR
LITHUANIA

Coffee break
9.20 – 9.40

Session 6A
9.40 – 11.00

Lightning and overvoltage protection
Grounding and equipotential bonding

Session chairman

1. ALIPIO Rafael, De MIRANDA Audine S.
INFLUENCE OF FREQUENCY-DEPENDENT BEHAVIOR OF GROUNDING SYSTEMS AND LINE MODELS ON LIGHTNING OVERVOLTAGES IN OVERHEAD LINES
BRAZIL

2. NOGA Artur, KARWOWSKI Andrzej, TOPA Tomasz
EVALUATION OF THE MAGNETIC FIELD INSIDE GRID-LIKE LARGE VOLUME SHIELDS FOR PROTECTION AGAINST LEMP
POLAND

3. ALIPIO Rafael, SEGANTINI Renan C.
ELECTROMAGNETIC DISTURBANCES PROPAGATION ALONG A GROUNDING GRID SUBJECTED TO LIGHTNING CURRENTS
BRAZIL

4. ZIEMBA Robert, MASŁOWSKI Grzegorz, KOSSOWSKI T.
ANALYSIS OF THE OVERVOLTAGES CAUSED BY NEARBY LIGHTNING STROKE
POLAND

Coffee break
11.00 – 11.20

Session 9A
11.20 – 12.20

EMD in wire and radio communication

Session chairman

1. HANADA Eisuke, ISHIDA Kai, KUDOU Takato
ELECTROMAGNETIC INTERFERENCE WITH WIRELESS COMMUNICATION IN HOSPITALS: NEWLY IDENTIFIED PROBLEMS WITH MEDICAL TELEMETER SYSTEMS
JAPAN

2. ISHIDA Kai, GOTOH Kaoru, HIROSE Minoru, ARIE Sazu, HANADA Eisuke, MATSUMOTO Yasushi
ELECTROMAGNETIC COMPATIBILITY OF LIGHT-EMITTING DIODE (LED) LAMPS AND WIRELESS MEDICAL TELEMETERS
JAPAN

3. SOKOLOV Stanislav A.
THE INFLUENCE OF EXTERNAL ELECTROMAGNETIC FIELDS UPON OPTICAL CABLES
RUSSIA

- 5 -
Session 7
8.20 – 12.20
Poster session*

1. ANISEROWICZ Karol, MARKOWSKA Renata
   SEMI-ANALYTIC CALCULATIONS OF OVERVOLTAGES CAUSED BY DIRECT LIGHTNING STRIKE IN BURIED COAXIAL CABLE
   POLAND

2. SZCZUPAK Paweł, FILIK Kamil, KARNAS Grzegorz, MASŁOWSKI Grzegorz, KARPIŃSKI Lesław
   OPERATION TESTS OF PULSED POWER ELECTROMAGNETIC GENERATOR
   POLAND

3. WOJCIĘCHOWSKI Marcin
   EXTENSION OF THE SCOPE OF WORK OF THE GTEM CELL
   POLAND

4. LITWINCZUK Norbert
   ANALYSIS OF MULTIPORT EXCITATION CIRCUITS FOR ANTENNA ARRAY
   POLAND

5. ZANKIEWICZ Andrzej, SADOWSKI Maciej
   ANALYSIS OF TRANSMISSION RELIABILITY IN LTE SYSTEM FOR VARIOUS CHANNEL CONDITIONS
   POLAND

6. GRISZIN Jurij
   ADAPTIVE DATA PROCESSING ROBUST WITH RESPECT TO THE PULSE INTERFERENCES WITH UNKNOWN PROBABILITY OF ARISING
   POLAND

7. JANCIŁAK Dariusz
   ESTIMATION IN CONDITION OF HEAVY-TAILED DISTRIBUTION OF MEASUREMENT NOISE VARIANCE
   POLAND

8. NIKOLAJEW Adam
   A REDUCTION OF AN INFLUENCE OF DISTURBANCES ON UNDERSAMPLING OF PERIODICAL SIGNALS
   POLAND

* - Space of A1 dimension will be provided for each poster presentation in the session as well as basic mounting facilities.

Coffee break
12.20 – 12.40

Session 8
12.40 – 13.20
Presentations of companies

Session chairman -

1. WARZYWODA Mariusz; Rohde-Schwarz Österreich Sp. z o.o.
   PRESENTATION OF THE COMPANY
   POLAND

2. MRÓZ Małgorzata; AMETEK CTS Germany GmbH
   PRESENTATION OF THE COMPANY
   POLAND

LUNCH
13.20 – 14.20
Friday, 22 September 2017

Session 6B
8.20 – 9.20
Lightning and overvoltage protection
Grounding and equipotential bonding
Session chairman -

5. MARKOWSKA Renata, ANISEROWICZ Karol
   EXPOSURE OF UNDERGROUND CABLE INTRUSION DETECTION SYSTEM TO OVERVOLTAGES CAUSED BY LIGHTNING STRIKE
   POLAND

6. WIATER Jarosław
   FIRE HAZARD IN EX ZONES CAUSED BY LIGHTNING PROTECTION SYSTEM
   POLAND

7. WIATER Jarosław
   STEP VOLTAGE NEARBY OVERHEAD TRANSMISSION LINE PYLON EXITED BY HIGH VOLTAGE SURGE
   POLAND

Coffee break
9.20 – 9.40

Session 9B
9.40 – 10.40
EMD in wire and radio communication
Session chairman -

4. GARBARUK Marek, MIECZYŃSKA Marta
   DUAL-BAND ANTENNA WITH PARASITIC ELEMENTS FOR WI-FI APPLICATIONS
   POLAND

5. KONOPKO Krzysztof
   COMPARISON OF SENSING TECHNIQUES FOR COGNITIVE RADIO NETWORKS OPERATING IN NON-GAUSSIAN DISTURBANCES
   POLAND

6. ZANKIEWICZ Andrzej
   VULNERABILITY OF IEEE 802.11AC WAVE 1 NETWORKS TO MUTUAL INTERFERENCE
   POLAND

- 7 -
Coffee break
10.40 – 11.00

Session 10
11.00 – 12.20
Disturbances in electronic equipment
EMD in control and measurement systems

Session chairman -

1. GRISZIN Jurij, JAŃCZAK Dariusz
   REAL TIME ESTIMATION OF SIGNAL TO NOISE RATIO
   POLAND

2. NIKOLAJEW Adam
   A SIGMA UNDERSAMPLING APPLIED FOR AN IDENTIFICATION OF NONLINEAR OBJECT IN THE PRESENCE OF DISTURBANCES
   POLAND

3. ŚWIERCZ Ewa
   IMAGE ENCRYPTION ALGORITHMS BASED ON WAVELET DECOMPOSITION
   POLAND

4. GILEWSKA Grażyna
   DISTURBANCES OF MEASUREMENTS IN THE SELECTED IMAGING MEASUREMENT SYSTEMS
   POLAND

CLOSING CEREMONY
12.20 – 12.30

LUNCH
12.30 – 13.30