

SESSION I

Chairman: Dorin CRISTESCU

Vicechairman: Ion MERFU

Secretary: Tania NICOARĂ

I.0 INTRODUCTION ON OPTOELECTRONIC TECHNOLOGY – HISTORY

Andrei MARINESCU – ICMET Craiova, Romania

I.1 DISTRIBUTED TEMPERATURE MONITORING OF ENERGY TRANSMISSION SYSTEMS

Lucien ANTONISSEN - LIOS TECHNOLOGY, Germany

I.2 DISTRIBUTED TEMPERATURE SENSING ON HIGH VOLTAGE CABLES - DTS Technology

Michal MAZANEC - SAFIBRA, Czech Republic

I.3 DIGITAL DATA ACQUISITION SYSTEMS WITH OPTICAL INPUTS - USAGE IN ELECTRICAL ENERGY TECHNIQUE

Hans-Juergen JAEGER - BITGATE, Germany

I.4 FIBER-OPTICS - FIBERS, CABLES AND CONNECTORS FIBER-OPTIC TECHNOLOGY

Jens WORYNA - ROSENBERGER-OSI GMBH & CO. OHG, Germany

I.5 SMART METERING – IMPROVED ELECTRIC GRID UTILIZATION

Cosmin BRANZAN - Alcatel-Lucent Timișoara, Romania

Adrian DINESCU - Alcatel-Lucent Timișoara, Romania

I.6 OPTICAL MEASURING SYSTEMS IN ELECTRICAL POWER GRID. ASSESSMENT OF POWER QUALITY

Nicolae GOLOVANOV – University POLITEHNICA Bucharest, Romania

I.7 DATA COMMUNICATION IN SUBSTATION AUTOMATION SYSTEM (S.A.S.) USING IEC 61850 PROTOCOL

*Ion MERFU - CN TRANSELECTRICA SA, ST Craiova, Romania
Sorin NICULESCU - CN TRANSELECTRICA SA, ST Craiova, Romania
Nicolae DIMA - CN TRANSELECTRICA SA, ST Craiova, Romania*

I.8 OPTOELECTRONIC HYBRID INSTRUMENT TRANSFORMER WITH DIGITAL OUTPUT COMPATIBLE WITH IEC 61850-9-2

*Marinel POPESCU – ICMET Craiova, Romania
Alexandru MANTA – ICMET Craiova, Romania
Andrei MARINESCU – ICMET Craiova, Romania
Teodor POPA – ICMET Craiova, Romania*

I.9 THE DEVELOPMENT OF OPTICAL AND HYBRID SENSORS FOR VOLTAGE AND CURRENT MEASUREMENT IN HT NETWORKS

*Costin CEPIȘCĂ - University POLITEHNICA Bucharest, Romania
Dan Sorin GRIGORESCU - University POLITEHNICA Bucharest, Romania
Marcel STANCIU - University POLITEHNICA Bucharest, Romania
Horia ANDREI – University “Valahia”. Târgoviște, Romania
Nicolae JULA – Academia Tehnică Militară Bucharest, Romania
George SERIȘAN - University POLITEHNICA Bucharest, Romania
Eleonora DARIE – Uniersitatea. Tehnică de Construcții, Romania*

I.10 EMC ASPECTS REGARDING THE IMPLEMENT OF OPTICAL FIBER TRANSMISSION SYSTEMS IN HIGH -VOLTAGE SUBSTATIONS

*Sorin COATU – University POLITEHNICA Bucharest, Romania
Marian COSTEA – University POLITEHNICA Bucharest, Romania
Dan RUCINSCHI – University POLITEHNICA Bucharest, Romania*

SESSION II

Chairman: Traian ENE

Vicechairman: Sorin COATU

Secretary: Viorica VOICU

II.1 TEMPERATURE MEASUREMENT TO OHTL IN SIBIU TS

Daniel MORAR – CN TRANSELECTRICA SA, Romania

Ioan RODEAN – CN TRANSELECTRICA SA, Romania

II.2 OPTICAL FIBER THERMOMETRY BASED ON THE LICAF CRYSTALS

Marcel STANCIU – University POLITEHNICA Bucharest, Romania

Costin CEPIȘCĂ – University POLITEHNICA Bucharest, Romania

II.3 TRUE WINDING TEMPERATURE MEASUREMENT WITH FIBRE OPTIC THERMOMETERS

Michal MAZANEC - SAFIBRA, Czech Republic

Andrei MARINESCU – ICMET Craiova, Romania

II.4 ADVANTAGES OF FIBER OPTIC SENSOR UTILIZATION FOR DETERMINING THE TEMPERATURE OF POWER TRANSFORMER UNIT

Traian CHIULAN – ICEMENERG Bucharest , Romania

Badea POPA – ICEMENERG Bucharest , Romania

II.5 MONITORING AND DIAGNOSIS EQUIPMENT FOR TRANSFORMER UNITS, WITH FIBRE OPTIC ACQUISITION OF MONITORED QUANTITIES

Dumitru SACERDOȚIANU – ICMET Craiova, Romania

Iulian HUREZEANU – ICMET Craiova, Romania

Andrei MARINESCU – ICMET Craiova, Romania

Dorin POPA – ICMET Craiova, Romania

Mircea TEODORESCU – ICMET Craiova, Romania

Victor OPREA – ICMET Craiova, Romania

Ion PURCARU – VIG IMPEX Craiova, Romania

Gabriel TĂNĂȘESCU – SIMTECH Bucharest , România

II. 6 MONITORING OF INFRASTRUCTURE OPTICAL TRANSPORT FOR ROMANIAN POWER GRID

*Ion NEDELICU – TELETRANS, Romania
Dumitru GLODEANU – TELETRANS, Romania
Vasile MITRESCU – TELETRANS, Romania*

II.7 FIBER OPTIC FOR TELEPROTECTIONS USED IN EAST OF THE ROMANIAN TRANSMISSION POWER GRID

*Ioan P. VIZITEU – TELETRANS, Romania
Ion NEDELICU – TELETRANS, Romania
Florin BALAȘIU – CN TRANSELECTRICA SA, Romania
Alexandru MIRON – CN TRANSELECTRICA SA, Romania*

II.8 THE USING OF OPTICAL INSTRUMENT TRANSFORMERS IN HV SUBSTATIONS

*Elena MAZILU – CN TRANSELECTRICA SA, UnO DEN-DET Bacău, Romania
Adrian RUSU – CN TRANSELECTRICA SA, ST Bucharest, Romania
Alexandru MIRON – CN TRANSELECTRICA SA, ST Bacău, Romania*

II.9 ASSET CONDITION ASSESSMENT FOR TRANSMISSION AND DISTRIBUTION HV EQUIPMENT

*Gheorghe MAZILU – ELECTRICA, Romania
Mihaela CONU – ELECTRICA, Romania
Adrian MAZILU – ANRE, Romania*

II. 10 THE IMPROVEMENT OF THE PROTECTION AND CONTROL SYSTEM PERFORMANCE USING OPTICAL CURRENT SENSORS

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Ioan P. VIZITEU – TELETRANS Bacău, Romania
Adrian RUSU – CN TRANSELECTRICA SA, ST Bucharest, Romania
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Crenguța BOBRIC – University “Ștefan cel Mare”, Suceava, Romania*

SESSION III

Chairman: Costin CEPIȘCĂ

Vicechairman: Maria BROJBOIU

Secretary: Daniela POPESCU

III.1 THE USE OF TELEMATIC DATA TRANSMISSION METHODS FOR THE STRATEGIC WATER RESERVE DETERMINATION

Ion IONESCU – ICEMENERG Bucharest , Romania

Irina RACOVITAN – ICEMENERG Bucharest , Romania

Vasile RUGINĂ – ICEMENERG Bucharest , Romania

III.2 FO MONITORING OF MOV PROTECTION DEVICES FOR POWER AUTOTRANSFORMERS

Andrei MARINESCU – ICMET Craiova, Romania

Alexandru MANTA – ICMET Craiova, Romania

Daniel TRUȚĂ – ICMET Craiova, Romania

III.3 HIGH VOLTAGE COMPOSITE INSULATORS WITH INTEGRATED FIBRE OPTIC ACHIEVEMENTS AND OUTLOOK

Nicolae PĂDURARU – ICMET Craiova, Romania

Andrei MARINESCU - ICMET Craiova, Romania

Adrian VINTILĂ - ICMET Craiova, Romania

III. 4 OPERATIONAL RELIABILITY OF OPTIC TRANSMISSION IN TRANSMISSION POWER GRID

Daniel MORAR – CN TRANSELECTRICA SA, Romania

Dan Basarab GUZUN – University POLITEHNICA Bucharest, Romania

Ioan RODEAN – CN TRANSELECTRICA SA, Romania

III.5 THE COMPUTATION PROGRAM OF THE FABRY PEROT INTERFEROMETER PARAMETERS USED FOR THE PARTIAL DISCHARGE DETECTING IN THE ELECTRICAL EQUIPMENT

Maria BROJBOIU – Univ Electrotehnică , Craiova, Romania

III.6 PD LOCATION BY ACOUSTIC EMISSION METHOD AND OPTICAL TRANSMISSION AT INSTRUMENT TRANSFORMERS IN REVERSED MOUNTING

*Dorin POPA – ICMET Craiova, Romania
Tania NICOARĂ – ICMET Craiova, Romania
Andrei MARINESCU – ICMET Craiova, Romania
Alexandru MANTA – ICMET Craiova, Romania*

III.7 OPTICAL SENSORS APPLICATION FOR STRAIN AND FORCE MEASUREMENT IN INSTALLATIONS USED IN HIGH POTENTIAL ENVIRONMENT

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Ion PĂTRU – ICMET Craiova, Romania
Radu GEORGESCU – ICMET Craiova, Romania
Mircea TEODORESCU – ICMET Craiova, Romania*

III.8 FIBER OPTIC APPLICATIONS IN COMMANDS AND INFORMATION TRANSMISSION REALIZED WITHIN ICMET INSTITUTE

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Costel CĂRĂMIDĂ - ICMET Craiova, Romania
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Andrei MARINESCU - ICMET Craiova, Romania
Daniel TRUȚĂ - ICMET Craiova, Romania
Alin DINCĂ - ICMET Craiova, Romania*

III.9 A METHOD FOR INCREASING OF THE EFFICIENCY REGARDING THE TRANSPORT OF ELECTRICAL ENERGY THROUGH CABLES BASED ON THE POYNTING-UMOV VECTOR MODIFICATION AND ITS MONITORING

*Alexandru SOTIR - Academia Navală “Mircea cel Bătrân”, Constanța, Romania
Mircea CONSTANTINESCU - Academia Navală “Mircea cel Bătrân”, Constanța, Romania
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Andrei MARINESCU – ICMET Craiova, Romania
Mihai BĂDIC – ICPE Bucharest, Romania*

III.10 A NEW MONITORING AND DIAGNOSTIC SYSTEM FOR MEDIUM AND HIGH POWER ELECTRICAL MACHINES INSULATION SYSTEMS

Gabriel TĂNĂȘESCU – SIMTECH Bucharest , Romania

Petru NOTINGHER – University POLITEHNICA Bucharest, Romania

Ștefan BUSOI – University POLITEHNICA Bucharest, Romania

III.11 TEST AND SIMULATION OF EMI FILTERS USED FOR REDUCING THE DISTURBANCES GENERATED BY PWM CONVERTERS

Horia BALAN –Univ. Tehnica Cluj Napoca, Romania

Mircea BUZDUGAN –Univ.y Tehnica Cluj Napoca, Romania

Cosmina NICULA –Univ.y Tehnica Cluj Napoca, Romania

Alexandru RICOBON –Univ.y Tehnica Cluj Napoca, Romania

Ana IACOB –ICMET Craiova, Romania

Marian DUTA – ICMET Craiova, Romania

III.12 DIAGNOSIS OF POWER TRANSFORMER INCIPIENT FAULT USING DISSOLVED GAS ANALYSIS

Cristina CIULAVU – Univ Brașov, Romania