

UNIVERSITATEA DIN ORADEA
FACULTATEA DE ENERGETICĂ



ELECTRICA TRANSILVANIA NORD S.A.
SDEE, AFEE, AISE ORADEA



SIER-FILIALA
UNIVERSITĂȚII DIN ORADEA



S.C. HIDROELECTRICA S.A.
Sucursala HIDROCENTRALE Oradea



C.I.E.-2011

“ENERGIE CURATĂ ȘI ACCESIBILĂ”

PROGRAM

COMITETUL DE ORGANIZARE

**UNIVERSITATEA DIN ORADEA
FACULTATEA DE ENERGETICA**

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Roșca Marcel – Decan
Badea Gabriela – Secretar Științific
Dzițac Simona
Albuț-Dana Daniel
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Barla Eva Maria**

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ENERGETICIENI DIN ROMÂNIA**

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Energetice Cluj
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Transilvania Nord” SA,
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Sucursala HIDROCENTRALE Oradea**

Groza Mihai - Director

CONFERINȚA DE INGINERIE ENERGETICĂ

BĂILE FELIX, 02-04 Iunie 2011

COMITETUL ȘTIINȚIFIC

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Nicolae COROIU	Universitatea din Oradea
Gabriel BENDEA	Universitatea din Oradea
Călin SECUI	Universitatea din Oradea
Laurențiu POPPER	Universitatea din Oradea

PROGRAM:

Miercuri 01 iunie:	orele 16.00 - 20.00	Primirea participanților la Hotelul Termal din Băile Felix
Joi, 02 iunie:	orele 08.00 - 10.00 orele 10.00 - 10.30 orele 10.30 - 10.45 orele 10.45 - 14.00	<p>Primirea participanților la Hotelul Termal din Băile Felix</p> <p>Deschiderea CIE 2011 în sala S1, Hotel Termal</p> <p>Coffee break</p> <p>Lucrări invitate:</p> <p style="text-align: center;">RESERVED SUBJECT BADEA A.</p> <p>TRANSMISSION EXPANSION PLANNING. CASE SSTUDY FOR THE ROMANIAN POWER SYSTEM KILYENI ST., BARBULESCU C., POP D., CRISTIAN D., SOLOMONESC FL.</p> <p>ENERGY EFFICIENCY AND PHOTOVOLTAIC SOLAR FOR GREENHOUSE AGRICULTURE CAMPIOTTI C., BIBBIANI C., DONDI F., SCOCCIANI M., VIOLA C.</p> <p>ENERGY WILLOW – AN ADVANTAGEOUS FUEL FOR BIOMASS POWER PLANTS DEZSI A.</p> <p>COULD SUSTAINABLE ENERGY TECHNOLOGY HELP OVERCOMING CRISIS? CASE STUDY: INSTALLATION OF A COGENERATION UNIT WITHIN A CHEMICAL COMPANY VORONCA M.</p> <p style="text-align: center;">MASĂ ROTUNDĂ UNIVERSITATEA - FORMATOR DE CULTURĂ ANTREPRENORIALĂ A. CARABULEA, L. POPPER, OPREA I., HOBINCU O., ARIONTE C.</p> <p>orele 14.00 – 15.30 Masa de prânz la Hotel Termal Băile Felix</p> <p>orele 15.30 – 17.30 Comunicări pe secțiuni</p> <p>orele 17.30 – 17.45 Coffee break</p> <p>orele 17.45 – 19.30 Comunicări pe secțiuni</p> <p>ora 20.00 Cina festivă la Hotel Termal Băile Felix</p>
vineri, 03 iunie:	orele 09.00 - 11.00- orele 11.00 – 11.15 orele 11.00 - 12.30-	<p>Comunicări pe secțiuni.</p> <p>Coffee break</p> <p>Comunicări pe secțiuni.</p> <p>Închiderea lucrărilor</p>

Secțiunea 1 – Sala S1 – Hotel Termal
FIABILITATEA SISTEMELOR ȘI CALITATEA SERVICIILOR ENERGETICE
RELIABILITY AND SYSTEMS ENERGY QUALITY SERVICES

joi, 02 iunie: orele 17.45 – 19.30

Coordonatori: prof.dr.ing. Ioan Felea
conf.dr.ing. Călin Secui

1. NUCLEAR RISK PERCEPTION, SAFETY GOALS AND SPECIFICATIONS

POPESCU GH., GHERGHINESCU S., VACARU M.

2. EXPERIMENTAL RESEARCH OF THE ELECTRIC STRESS LEVEL IMPACT ON TRADITIONAL STATE PARAMETERS OF POWER TRANSFORMERS INSULATING OIL

FELEA I., OLTEAN M., SECUI C.

3. THE IMPACT ANALYZE OF ELECTRIC STRESS LEVEL IN CONTENT OF INSULATING OIL GASES IN POWER TRANSFORMERS

FELEA I., SECUI C., OLTEAN M.

4. THE INTERFERENCES PRODUCED BY ANTHROPIC ELECTROMAGNETIC FIELDS ON THE NATURAL ELECTROCHEMICAL SYSTEMS

LINGVAY I., LINGVAY C., SZATMARI I.

5. DEGRADATION OF POWER CABLES POLYETHYLENE INSULATION DUE TO THERMAL CYCLING

LINGVAY I., STANCU C., CUCOȘ A., LINGVAY C.

6. INFORMATIONAL FEEDBACK – IMPROVING THE MAINTENANCE STRATEGIES AND SERVICE PERFORMANCE IN THE ELECTRICITY TRANSMISSION GRID

BARBULESCU C., FLORE M.

7. DETERMINING THE OPERATING TIME OF THE ELECTROINSULATING OIL FOR POWER TRANSFORMERS

CÂRLAN M., OLTEAN M., SAS A.

8. ASSESSMENT OF MEDIUM VOLTAGE EQUIPMENTS OPERATIONAL RELIABILITY WITHIN THE MANAGEMENT OF SDEE BRASOV

FELEA I., PACUREANU I., ALBUT-DANA D.

9. ASSESSMENT OF HIGH VOLTAGE EQUIPMENTS OPERATIONAL RELIABILITY WITHIN THE MANAGEMENT OF SDEE BRASOV

FELEA I., PACUREANU I., ALBUT-DANA D., BARLA E.

10. OPTIMAL DURATION EVALUATION OF PREVENTIVE MAINTENANCE AT A POWER EQUIPMENT BASED ON COSTS. APPROACHES IN ERP MAINTENANCE STRATEGY

M. CÂRLAN, V. BABĂU, M. LOLEA, P. CREȚ, S. DZIȚAC

11. NEW SOLUTIONS INTO MAINTAINING THE DIKES LIFE BY ESTABLISHING THE RISKS ZONES OF INFILTRATIONS

RĂDULESCU V.

vineri, 03 iunie: orele 11.15 – 12.30
Coordonatori: prof.dr.ing. Popențiu Florin
conf.dr.ing. Emil Dale

1. RELIABILITY ANALYSIS OF CUT-OFF PLATE (VIR) FROM HPP TILEAGD USING MONTE CARLO SIMULATION

HORA C., DZIȚAC S., DUMITRESCU D., HORA H.

2. RISK ANALYSYS ELEMENTS IN THE MANAGEMENT OF RENEWABLE ENERGY SOURCES

DUMITRESCU D., HORA C.

3. DIAGNOSIS OF THE ELECTRIC GENERATOR STATOR CORE BY MEANS OF THE LOW INDUCTION IRON TEST, PROFIM

ZLATANOVICI R., ZLATANOVICI D.

4. INFORMATION AIDED FLEXIBLE MAINTENANCE SYSTEMS

MĂCUICĂ - POPA L.

5. DEVELOPMENT OF OPERATIONAL RELIABILITY OF THE STRUCTURE OF TRANSPORT EQUIPMENT AND MANUFACTURE OF SOLID FUEL FROM ELECTRIC CENTRAL HEATING ORADEA

FELEA I., GOIA E., CIOBANCA A.

6. ENERGETIC PERFORMANCES SIMULATION OF A TECHNOLOGICAL LINE COMPOSED BY ASYNCRONOUS MOTORS, POWERED UP IN HARMONIC REGIME

FELEA I., RANCOV N.

7. VULNERABILITIES GENERATED BY THE NON-QUALITY CORRELATIONS BETWEEN THE PRODUCTION AND COMPETITIONAL MARKET

NICOLAU M.

8. ANALYZE OF OPERATIONAL RELIABILITY OF THE EQUIPMENTS WITHIN THE STRUCTURE OF THE ORADEA'S URBAN TRANSPORT SYSTEM

FELEA I., CSUZI I., SILAGHI E.

9. THE INFLUENCE OF ASYMMETRICAL REGIMES ON THE FUNCTIONING RELIABILITY OF ELECTRO-ENERGETIC SYSTEMS,

POPESCU V.

10. HIGH OUTPUT ELECTRIC MOTORS

MIRCEA I., TOMA ST.GH.

11. CONSIDERATIONS ON STRESS CORROSION CRACKING OF UNDERGROUND STEEL PIPELINES

P. CREȚ, A. COJOCARU, G.E. BADEA, G. GAVRIS, M. LOLEA,

12. CONSIDERATION ON 18CR-10NI STAINLESS STEEL PITTING POTENTIAL AS PH FUNCTION

G. E. BADEA, A.COJOCARU, D.VAIREANU, I.MAIOR, S. CAPRARESCU

Secțiunea 2 – Sala S2 – Hotel Termal
RESURSE REGENERABILE DE ENERGIE. TEHNOLOGII ENERGETICE SUSTENABILE
RENEWABLE SOURCES OF ENERGY. SUSTAINABLE ENERGY TECHNOLOGIES

joi, 02 iunie: orele 15.30 – 17.30

Coordonatori: prof.dr.ing. Ferenc Kalmár
prof.dr.ing. Marcel Roșca

1. BEST AVAILABLE TECHNOLOGY AND SUSTAINABLE DEVELOPMENT – FEATURES FOR THE LIGHTING DESIGN

ALBU H., BEU D., POP FL.,

2. PARAMETERS OF THERMAL GROUNDWATER IN THE NORTHERN SECTOR OF HIGHER PANNONIAN WESTERN PLAINS

ANTAL C., SETEL A., GAVRILESCU O., BADEA G.E.

3. SEAWATER ELECTROLYSIS FOR HYDROGEN PRODUCTION

BADEA G.E., CORBU I., CARABAN A., CRET P.

4. RESEARCHES VIEWING THE OPTIMIZATION OF ELECTRIC ENERGY PRODUCING WITH PV PANELS

BARLA E.M., ALBUT – DANA D.

5. SOFTWARE TO IDENTIFY OPTIMAL SOLUTION FOR RESIDENTIAL BUILDINGS

BLAGA A.C., MOLDOVAN V.

6. MONOAGENT HEATING SYSTEM FOR SOLITARY CONSUMERS, USING HEAT FROM BIOMASS BURNING

BLAGA C.A., PANEA C., GLIGOR E.

7. ECONOMIC IMPLICATIONS OF POLLUTION PREVENTION OF GEOTHERMAL WASTEWATER DISCHARGES IN THE PERIMETER OF ORADEA (NORTHWESTERN ROMANIA)

CĂLBUREAN R., ROBA C.

8. ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH THE PRESENCE OF RADIONUCLIDES IN THE GEOTHERMAL WATERS ORIGINATING FROM THE TRIASSIC AQUIFER OF ORADEA (BIHOR COUNTY)

CĂLBUREAN R., ROBA C.

9. ENERGY EFFICIENCY AND PHOTOVOLTAIC SOLAR FOR GREENHOUSE AGRICULTURE

CAMPIOTTI C., BIBBIANI C., DONDI F., SCOCCIANI M., VIOLA C.

10. GREEN ROOFS AND FAÇADES AGRICULTURE (GRF) FOR SUPPORTING BUILDING ENERGY EFFICIENCY

CAMPIOTTI C., BIBBIANI C., ALONZO G., GIAGNACOVO G., RAGONA R., VIOLA C.

11. FUEL AND ENERGY CONSUMPTION DECREASE IN ORDER TO PRODUCE PIG-IRON FOR STEELMAKING USING INJECTION REDUCING GAS IN THE BLAST FURNACE

CONSTANTIN C., MIHAIU A. C., DOBRESCU C., NICOLAE C.

12. POTASSIUM PERMANGANATE OXIDATION TREATMENT FOR THE POLYCYCLIC AROMATIC HYDROCARBONS CONTAMINATED SOILS

CHOPLIN L., LAZAROIU GH., STROE C., BOGDAN I.

13. CONSIDERATIONS REGARDING THE COMPETITIVENESS OF THE CENTRALIZED HEATING SYSTEM

CIOBANCA A., FELEA I.

14. CONVENTIONAL PYROLYSIS OF SPRUCE WOOD AND HAZELNUT SHELL DELIVERING OILY PRODUCTS

DESIDERI U., LAZAROIU GH., STROE C.

15. THE EVALUATION OF THERMAL COMFORT INDICES IN HOUSEHOLDS

DINU R. C., MIRCEA I., RUIENEANU L., POPESCU N.

16. ENVIRONMENTAL IMPACT ASSESSMENT ON THE HYPOTHESIS OF USING GEOTHERMAL RESOURCES AT MAXIMUM CAPACITY IN THE MUNICIPALITY OF ORADEA

BLAGA A. C., GOIA E. CIOBANCA A.

17. SIMULATION AID TO THE SUSTAINABLE USE OF GEOTHERMAL PRODUCTION WELLS

O.D. STĂNĂȘEL, M. SEBEȘAN, A. M. CĂRĂBAN, G. E. BADEA, A. PETREHELE

18. THERMODYNAMIC ANALYZE OF SOME ECOLOGICAL REFRIGERANT – MIXTURE OF DIMETHYL ETHER AND CARBON DIOXIDE

POPESCU GH., POP H., APOSTOL V., FEIDT M., ALIONTE C.G.

19. OBTAINING ELECTRIC ENERGY FROM A SOLAR PARK BASED ON PHOTOVOLTAICS FOR ORADEA MUNICIPALITY

BARLA E.

joi, 03 iunie: orele 17.45 – 19.30

**Coordonatori: prof.dr.ing. Gabriela Badea
conf.dr.ing. Nicolae Coroiu**

1. RUNNING ONE HYDROELECTRIC POWER PLANT WITH POMPED STORAGE FACILITIES USING INFORMATIC SYSTEMS

GUZUN B.D., ANGHEL

2. EFFICIENCY IMPROVEMENT OF THE HYDRO POWER LAKES CAPACITY BY COMBAT THE EXCEED DEVELOPED VEGETATION

RĂDULESCU V.

3. MODELING AND DYNAMIC SIMULATION OF STRATIFIED DOWNDRAFT GASIFIERS

LAZAROIU GH., DESIDERI U., STROE C., BOGDAN I.

4. TECHNOLOGICAL MODELLING AND TRAINING OF THE ENERGY PERSONNEL THROUGH ENGINEERING SYSTEMS

LAZAROIU GH.

5. OPTIMIZING THE WATER-HYDROGEN ADSORPTION SYSTEMS BY THE RECOVERY OF COLD LOSSES TO ENVIRONMENT

GHERGHINESCU S., POPESCU G.

6. ENERGY RESOURCES IN AFGHANISTAN AND MEASURES TO IMPROVE FOR SUSTAINABLE DEVELOPMENT

NADEEM M.

7. USING PULVERIZED COAL AS AN ALTERNATIVE ENERGETECHNOLOGICAL SOURCE TO PRODUCE PIG-IRON FOR STEELMAKING

OANCEA V., TUDOR M., CRISTIAN D., NICOLAE C.

8. GLOBAL AND EUROPEAN STATUS OF RES USE IN COMPARISON WITH MACEDONIAN CASE

POPOVSKA-VASILEVSKA S.

9. COST ANALYSIS FOR CENTRALISED AND DISTRIBUTED COGENERATION

RUIENEANU L., MIRCEA I., GOŞEA I., DINU R. C.

10. COULD THE SUSTAINABLE ENERGY TECHNOLOGY HELP OVERCOMING CRISIS? CASE STUDY: INSTALLATION OF A COGENERATION UNIT WITHIN A CHEMICAL COMPANY

VORONCA M.M., VORONCA S.L.

11. DETERMINATION OF HYDROELECTRIC GENERATOR EFFICIENCY BY MEANS OF THE RETARDATION METHOD

ZLATANOVICI D., DUMITRESCU S., BAUER A., TELIVETS Y.

12. PRELIMINARY STUDIES CONCERNING ELECTRICITY GENERATION IN MICROBIAL FUEL CELLS

MAIOR I., COJOCARU A., VĂIREANU D.I., BADEA G. E., CĂPRĂRESCU S.

13. CAPACITOR PROPERTIES OF ELECTROCHEMICALLY SYNTHESIZED POLYANILINE

COJOCARU A., MAIOR I., VAIREANU D.I., CAPRARESCU S., BADEA G.

14. STUDY REGARDING THE PRODUCING OF HEAT ENERGY WITH SOLAR – GEOTHERMAL HYBRID SYSTEM

FELEA I., BLAGA A.C., MOLDOVAN V.

15. HEAT TRANSFER PROBLEMS IN AN ENERGY EFFICIENT BUILDING

IANCAU M.

16. GEOTHERMAL WATER SIMULATION AND EXPLOITATION PROGRAM

ANTAL C., SETEL A., BADEA G. E.

17. BIOCHEMICAL INVESTIGATIONS OF SOME EXOGENE FACTORS ON BIOETHANOL-PRODUCTION AS ALTERNATIVE FUEL

CĂRĂBAN A., BADEA G.E., GAVRIŞ G., STĂNAŞEL O.

18. EFFECTS INDUCED FOLLOWING THE TREATMENTS WITH MICROELEMENTS ON BIOMASS FERMENTATION

CĂRĂBAN A., BADEA G.E., GAVRIŞ G., STĂNAŞEL O.

19. THE DYNAMICS ANALYSIS OF A HYDRO AGGREGATE

VERES M., TURCAN R.

20. CRITICAL ANALYSIS OF VIBRATIONS SOURCES OF HYDRO AGGREGATES IN OPERATING REGIME

VERES M., TURCAN R.

Secțiunea 3 – Sala S1 – Hotel Termal
EVOLUȚIA SISTEMELOR ELECTROENERGETICE DE TRANSPORT ȘI DISTRIBUȚIE.
SISTEME ENERGETICE PERFORMANTE
EVOLUTION OF POWER ELECTRIC SYSTEMS TRANSPORT AND DISTRIBUTION. ENERGY
SYSTEM'S PERFORMANCE.

joi, 02 iunie: orele 15.30 – 17.30

Coordonatori: prof.dr.ing. Ștefan Kilyeni
prof.dr.ing. Ioan Felea

1. TRANSMISSION EXPANSION PLANNING. CASE SSTUDY FOR THE ROMANIAN POWER SYSTEM

KILYENI ST., BARBULESCU C., POP D., CRISTIAN D., SOLOMONESC FL.

2. CONTINGENCY – CONSTRAINED CONGESTION MANAGEMENT TRANSMISSION COST ALLOCATION

POP O., BARBULESCU C., KILYENI ST.

3. OPTIMAL ENERGY STORAGE CAPACITY FOR A GRID CONNECTED HYBRID WIND-PHOTOVOLTAIC GENERATION SYSTEM

VUC GH., BORLEA I., JIGORIA-OPREA D., VINTAN M.

4. THE POSSIBILITY OF APPLICATION OF CHAOS THEORY IN ASSESSING THE FUNCTIONING OF ELECTRICAL DISTRIBUTING SYSTEMS STATE AGRARIAN UNIVERSITY OF MOLDOVA, AGRICULTURAL ENGINEERING AND AUTO TRANSPORTATION

APARATU S.

5. INSULATED RURAL AREA ELECTRIFICATION: ASPECTS, ENERGY POLICIES AND DESIGN PRINCIPLES

BUNDA S.

6. ELECTRIC ENERGY FORECAST FOR THE INDUSTRIAL CONSUMERS

FELEA I., YANNIG GOUDE, DAN F.

7. THE MOUNTING OF MEDIUM VOLTAGE SURGE ARRESTERS IN NEPTUNE CONNECTION. SIZING AND ADVANTAGES

DEZSI AL., DOBRE I., BADEA L.

8. ENERGY WILLOW – AN ADVANTAGEOUS FUEL FOR BIOMASS POWER PLANTS

DEZSI AL., DOZESCU S.I.

9. THE USE OF PASSIV CURRENT LIMITERS, A MODRN ALTERNATIVE AND EFFICIENT ALTERNATIVE TO REACTANCE COILS

DEZSI AL., ROSCA I., VUC G., DOZESCU S.I.

10. DETERMINATION PRINCIPLES OF POWER INTENSITY OF AGRICULTURAL PRODUCES

ERCHAN F, ROTARI V.

11. USE THE METHOD GODUNOV FOR ESTIMATION OF THE TRANSISTOR'S PROCESSES IN POWER ELECTRICAL DISTRIBUTION SYSTEM

ERCHAN F.

vineri, 03 iunie: orele 09.00 – 11.00
Coordonatori: prof.dr.ing. Mihai Moga
conf.dr.ing. Gabriel Bendea

1. EXPERIMENTAL RESEARCH OF THE NON-SYMMETRICAL REGIME IMPACT ON PROPER TECHNOLOGY CONSUME OF ELECTRIC GRIDS

FELEA I., BOJA I., ALBUȚ-DANA D., LUPĂU D.

2. CONSIDERATION ABOUT SYMMETRIC COMPONENTS CIRCULATION IN THREE-PHASES SYSTEMS

MATICA L.M.

3. ELECTRICAL ENERGY ALIMENTATION EFFICIENCY ESTIMATION BY ANALYZING INSTANTANEUS POWER COMPONENTS CIRCULATION

MATICA L.M.

4. GROUND WIRES INFLUENCE ON AC POWER LINES IMPEDANCES

VINTAN M., MIHU I., BORLEA I.

5. COMPUTATIONAL METHODS OF AC POWER LINES IMPEDANCES

VINTAN M., MIHU I., BORLEA I.

6. STUDY OF THE POWER TRANSFER THROUGH THE DISTRIBUTION LINES OF THE NATIONAL POWER SYSTEM ACCORDING TO THE VOLTAGE STABILITY

ROȘCA I.

7. TYPE B UNCERTAINTY ESTIMATION TO MEASURE THE LOSSES IN TRANSFORMERS AT SHORT CIRCUIT

MIRCEA P.M., MARIN M.

8. OPERATION OF ENERGY GROUPS IN PRIMARY SETTING

IOVAN G., MIRCEA I.

9. ELECTRIC ENERGY FORECAST FOR THE RESIDENTIAL CONSUMERS

KILYENI S., JIGORIA-OPREA D., DAN F.

10. ELECTRIC ENERGY FORECAST USING NEURAL NETWORKS

DAN F.

11. THE USE OF THE CONSUMERS LOAD PROFILE CLASSIFICATION INTO THE ELECTRIC ENERGY FORECAST

FELEA I., DAN F.

12. SOLUTION TO INCREASE THE ENERGY EFFICIENCY OF INDUSTRIAL CONSUMERS. CASE STUDY CELESTICA ROMANIA

FELEA I., ALBUT-DANA D., BARLA E.

Secțiunea 4 – Sala S2 – Hotel Termal
PIATA SI BURSA DE ENERGIE. MANAGEMENTUL SISTEMELOR ENERGETICE
MARKET AND STOCK-MARKET OF POWER. MANAGEMENT OF POWER SYSTEMS

vineri, 03 iunie: orele 09.00-11.00, 11.15-12.30

**Coordonatori: prof. dr. ing. Anatolie Carabulea,
conf. dr. ing. Laurențiu Popper**

**1. CSR CONTRIBUTION TO SUSTAINABLE DEVELOPMENT IN THE ENERGETIC SECTOR -
SILVIA@ICEMENERG.RO**

NISIPEANU S., DAMIAN G.S., CÂRȚĂNĂ C., BANTAȘ A., SERAFIM A.

**2. CONCEPTUAL APPROACH TO REDUCE THE VULNERABILITY OF RESOURCES IN
EVOLUTION POWER SYSTEM TO 2050 PERIOD IN EUROPEAN AND NATIONAL ENERGY
SYSTEM**

CARABULEA A., GHEORGHIU I. D., GOSTIN C.

3. THE DESIGN OF ENERGY HOLDINGS IN INDUSTRIAL REENGINEERING CONCEPTION

BĂLĂȘOIU C., GOSTIN C., CIRICĂ R.

**4. REENGINEERING THE CUMULATED POWER TECHNOLOGICAL RESOURCES
MODELLED ACCORDING TO THE EFFICIENT MANAGEMENT CONCEPTION**

PETRU T., CIRICĂ R.

5. THE MANAGEMENT OF MASS-MEDIA ORGANIZATIONS.

BADEA M., GOSTIN R. C.

**6. HIERARCHICAL CONTROL STRUCTURES APPLIED IN DYNAMICAL
ENERGOTECHNOLOGICAL SYSTEMS REMOVAL**

RADA D.G., CIRICĂ R.

**7. REENGINEERING OF THE ECONOMIC – FINANCIAL PROCESSES OF THE INDUSTRIAL
SYSTEMS MODELLED IN OPERATIONAL RESEARCHES**

PĂZITOR T.

**8. MODELLING THE ELECTRICITY SUPPLY MARKET RESORTING TO THE INTELLIGENT
INFORMATION AGENTS**

SAVA I.

**9. MODELLING THE TECHNICO-ECONOMIC EFFICIENCY OF INDUSTRIAL SYSTEMS
SUBMITTED TO DYNAMICAL EVOLUTION**

FOCZE I.

**10. MANAGEMENT OF SUPPORT SERVICES WITHIN THE ROMANIAN NUCLEAR
ACTIVITIES**

POPESCU GH., ANA R.G.

**11. NEUROEXPERT SYSTEMS DESTINED TO REMOVING THE VULNERABILITIES IN THE
STRUCTURE OF THE HOLISTIC BUSINESS INTEGRATED INTO THE COMPETITIONAL
MARKET.**

ROȘCAN B., ROȘCAN P.

**12. THE ENTREPRENURIAL CULTURE AN ESSENTIAL CONDITION OF SUCCESS IN
DOMAIN OF MECHANIC ENERGY**

POPESCU GH., POP H., V. APOSTOL, G. POPPER, C.G. ALIONTE

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Aparate de măsură și control



ENERGY
PERFORMANT SYSTEMS

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