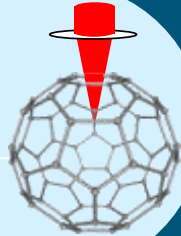


UNIVERSITY OF CRAIOVA

Faculty of Engineering and Management
of Technological Systems
Drobeta Turnu Severin

ADEM
IMST



CONFERENCE PROGRAM

10 years of Engineering & Management
in Drobeta Turnu Severin

10

2000-2010

VIVAT
CRESCAT
FLOREAT



May 19th – 21st, 2010
Drobeta Turnu-Severin

Final Program

Scientific Committee

Actis Grande, Marco	Politecnico di Torino, It
Abrao, Alexandre Mendes	Universidade Federal de Minas Gerais, Br
Amza, Gheorghe	Universitatea Politehnica București, Ro
Avram, Marioara	Universitatea din Craiova, Ro
Bizdoacă, Nicu	Universitatea din Craiova, Ro
Constantinescu, Radu	Universitatea din Craiova, Ro
Dehelean, Dorin	INCD în Sudură și Încercări de Materiale, Timisoara, Ro
Dumitru, Nicolae	Universitatea din Craiova, Ro
Gavrilăscu, Elena	Universitatea din Craiova, Ro
Gavrilăscu, Maria	Universitatea Tehnică "Gheorghe Asachi", Iași, Ro
Ghionea, Adrian	Universitatea Politehnica București, Ro
Gordo Odériz, Elena	Universidad Carlos III de Madrid, E
Groza, Joanna	University of California, Davis, USA
Îordăchiță, Iulian	Johns Hopkins Bayview Medical, Baltimore
Izvercianu, Monica	Universitatea "Politehnica" din Timișoara, Ro
Kappel, Wilhelm	ICPE-CA, București, Ro
Manolea, Gheorghe	Universitatea din Craiova, Ro
Marghitu, Dan	Auburn University, Alabama, USA
Maria, Nicolae	Universitatea Politehnica București, Ro
Mazilu, Dumitru	Johns Hopkins Bayview Medical, Baltimore
Orban, Radu	Universitatea Tehnică din Cluj-Napoca, Ro
Panaitescu, Șerban	Centrul Național de Management Programe, București, Ro
Richer, Edmond	Bobby B. Lyle School of Engineering
Rosso, Mario	Politecnico di Torino, It
Rubio, Juan Carlos Campos	Universidade Federal de Minas Gerais, Br
Sedmak, Aleksandar	University of Belgrade, Sr
Spănu, Cezar	Universitatea din Craiova, Ro
Șerban, Viorel-Aurel	Universitatea "Politehnica" din Timișoara, Ro
Tănăsescu, Speranța	Institutul de Chimie-Fizică "Ilie Murgulescu", București, Ro
Torrallba Castelló, José Manuel	Universidad Carlos III de Madrid, E
Trișcă-Rusu, Corneliu	AMCSIT, București, Ro
Veldhuis, Stephen	McMaster University, Ca
Vida-Simiti, Ioan	Universitatea Tehnică din Cluj-Napoca, Ro
Vladimirescu, Ion	Universitatea din Craiova, Ro
Vlase, Aurelian	Universitatea Politehnica București, Ro

Organizing Committee

Mangra, Mihail	Savu, Ionel Dănuț	
Ciupitu, Ion	Greco, Luminița	Fundamental Sciences
Benga, Gabriel	Sima, Gabriela	Advanced Materials
Demian, Mihai	Savu, Sorin	Manufacturing Engineering
Gingu, Oana	Demian, Gabriela	Management
Gruionu, Lucian	Ghermec, Olimpia	Navigation and Environment Engineering
Popescu, Traian	Coman, Daniela	Modeling and simulation

May 19th, 2010

16.00 – 20.00	Registration	“Continental” Hotel, Lobby
20.00 – 22.00	Welcome Reception	“Continental” Hotel, Restaurant

May 20th, 2010

09.30 – 12.30	Anniversary Plenary Session	“Theodor Costescu” Cultural Palace The Mirror Hall
13.00 – 14.00	Lunch	“Continental” Hotel, Restaurant
15.00 – 17.30	Oral Session	Faculty of Engineering and Management of the Technological Systems
17.30 – 18.00	Coffee Break	Faculty of Engineering and Management of the Technological Systems
18.00 – 19.30	Oral Session	Faculty of Engineering and Management of the Technological Systems
20.00 – 22.30	Banquet	“Continental” Hotel, Restaurant

May 21st, 2010

10.00 – 11.00	Visit at “The Iron Gate I” Power Plant	Faculty of Engineering and Management of the Technological Systems
12.00 – 16.00	Cruise on the Danube River	Orşova town

May 20th, 2010

“Theodor Costescu” Palace – The Mirror Hall

		Prof. Ion VLADIMIRESCU , <i>Rector</i> University of Craiova
		Ion MÎȚU , <i>Prefect</i> Mehedinți County
		Marius BĂLU , <i>President</i> Mehedinți County Council
09.30 – 10.30	Opening Ceremony	Constantin GHERGHE , <i>Mayor</i> Drobeta Turnu Severin City Hall
		Prof. Mihail MANGRA , <i>Vicerector</i> University of Craiova
		Prof. Ion CIUPITU , <i>Dean</i> Faculty of EMTS Drobeta Turnu Severin
10.30 – 11.00	ENGINEERING HIGHER EDUCATION IN DROBETA TURNU SEVERIN	Prof. Ion CIUPITU University of Craiova
11.00 – 11.30	CONTRIBUTION REGARDING THE KNOWLEDGE DEVELOPMENT THROUGH RESEARCH ACTIVITIES CARRIED OUT AT THE FACULTY OF ENGINEERING AND MANAGEMENT OF THE TECHNOLOGICAL SYSTEMS – EMST FROM DROBETA TURNU SEVERIN	Prof. Mihail MANGRA University of Craiova
11.30 – 12.00	WELDING – TECHNICAL FIELD OF INTEREST FOR INTEGRATING SUPERIOR TECHNICAL EDUCATION GRADUATES	Prof. Dorin DEHELEAN ISIM Timișoara
12.00 – 12.30	Pending Paper for Invited Speaker	Prof. Ioan ABRUDAN Technical University Cluj - Napoca

Section: Advanced Materials 1

Faculty of EMTS – B11 Hall

Chair Prof. Radu Liviu ORBAN
Co-Chair Prof. Oana GINGU
Secretary As. Prof. Gabriela SIMA

15.00 – 15.15	FRICTION COEFFICIENT IN DRY REGIME FOR STEEL PIN SLIDING ON PA COMPOSITES WITH MICRO GLASS SPHERES	Deleanu Lorena
15.15 – 15.30	USING 3D FUNCTIONAL PARAMETERS FOR ASSESSING SURFACE QUALITY	Deleanu Lorena
15.30 – 15.45	ABOUT THE COMPRESSIBILITY OF A FE-BASED FRICTION MATERIAL	Merie Violeta Valentina
15.45 – 16.00	EFFECT OF WC GRAIN SIZE ON THE CORROSION AND SLIDING WEAR BEHAVIOR OF WC-CO COATINGS	Uțu Ion Dragoș
16.00 – 16.15	INITIAL MECHANICAL CHARACTERISATION OF A Ti-25TA-5ZR BIOCOMPATIBLE ALLOY	Vulcan Andreea Daniela
16.15 – 16.30	COLD ROLL-MILLING AND MECHANICAL PROPERTIES OF A Ti-25TA-25NB BIOCOMPATIBLE ALLOY	Dumitrescu Cristiana
16.30 – 16.45	STRAIN RATE INFLUENCE UPON MECHANICAL PROPERTIES OF AN AS-CAST Ti-25TA-5ZR BIOCOMPATIBLE ALLOY	Dogaru Victor
16.45 – 17.00	DEVELOPMENT OF NEW PM IRON BASE ANTIFRICTION MATERIALS	Teișanu Cristina
17.00 – 17.15	ON THE OBTAINING OF BILAYERED POROUS SINTERED MATERIALS	Cotețiu Arthur Cristian
17.15 – 17.30	RESEARCH ABOUT BIOMATERIALS BASED ON TITANIUM POWDER PROCESSED BY SPS ROUTE	Pascu Ileana
17.30 – 18.00	COFFEE BREAK	

Section: Advanced Materials 2

Faculty of EMTS – B11 Hall

Chair Prof. Lorena DELEANU
Co-Chair As. Prof. Mihai DEMIAN
Secretary As. Prof. Gabriela SIMA

18.00 – 18.15	COMPARATIVE STUDY ON LEACHABLE PREFORM FABRICATION FOR METALLIC FOAMS	Bruj Emil
18.15 – 18.30	ALUMINA NANOPOROUS MEMBRANES OBTAINED BY TWO STEP ANODIZATION	Nemeș Dorel Ștefan
18.30 – 18.45	STUDY OF CRISTALLIZATION PROCESS OF FE-CR-GA-P-SI-C FERROMAGNETIC BULK AMORPHOUS ALLOYS	Șerban Viorel Aurel
18.45 – 19.00	THE INFLUENCE OF COBALT IN THE STRUCTURE OF CONTACTS W-CU-CO OVER THE ELECTRICAL PROPERTIES	Gavrilă Marin
19.00 – 19.15	ABOUT THE FE-BASED FRICTION COMPOSITE MATERIALS	Câdea Viorel
19.15 – 19.30	INFLUENCE OF SYNTHESIS PROCEDURE AND ADDITIVES ON THE SINTERING BEHAVIOR AND ELECTRICAL CONDUCTIVITY OF GD, SM-CO-DOPED CERIA	Cioateră Nicoleta

May 20th, 2010

Section: Advanced Materials 3

Faculty of EMTS – B13 Hall

Chair Prof. Viorel CÂNDEA
Co-Chair As. Prof. Cristina TEIȘANU
Secretary Lect. Cristian GHERMEC

15.00 – 15.15	NANOMETRIC AL ₂ O ₃ PARTICULATE - REINFORCED ALUMINUM COMPOSITES	Tsakiris Violeta
15.15 – 15.30	STRUCTURAL CHARACTERISTICS OF INOCULATED SLIGHTLY – HYPEREUTECTIC GREY CAST IRONS	Chisamera Mihail
15.30 – 15.45	ON THE PROCESSING OF NI-TI SHAPE MEMORY ALLOYS WITH SMALL FE ADDITIONS BY POWDER METALLURGY	Orban Radu Liviu
15.45 – 16.00	THE ELABORATION THROUGH POWDER INJECTION MOULDING, OF TUNGSTEN CARBIDE DESTINED FOR CUTTING TOOLS	Brîndușan Liviu
16.00 – 16.15	THE INFLUENCE OF THE TRIBOLOGICAL TESTING CONDITIONS ON THE WEAR RATE FOR SOME TITANIUM PLATES PROCESSED BY SPARK PLASMA SINTERING ROUTE	Olei Adrian Bebe
16.15 – 16.30	STUDIES REGARDING TRACTION TRY OF CARBON STEELS MADE OF IRON POWDERS ELABORATED IN METHANE GAS MEDIUM	Ghermec Cristian
16.30 – 16.45	DEVELOPMENT OF FINE GRAINED WC/CO ALLOY BY MECHANICAL ALLOYING TECHNIQUE	Nicolicescu Claudiu
16.45 – 17.00	HARDNESS ANALYSIS ON ACTIVE SURFACE OF GRINDING HAMMERS COAL FROM POWER PLANTS	Săceanu Dan
17.00 – 17.15	EFFECT OF ALLOYING CONTENTS AND PROCESSING FACTORS ON THE MICROSTRUCTURE AND HOMOGENIZATION OF LOW ALLOYED SINTERED STEELS	Bucșe Ionela Gabriela
17.15 – 17.30	INFLUENCING FACTORS OF THE GRAVITY SEDIMENTATION PROCESS	Moldovan Valentin
17.30 – 18.00	COFFEE BREAK	

Section: Advanced Materials 4

Faculty of EMTS – B13 Hall

Chair Prof. Viorel Aurel ȘERBAN
Co-Chair Prof. Gheorghe ȘTEFAN
Secretary Lect. Cristian GHERMEC

18.00 – 18.15	WEAR AND TRIBOLOGICAL BEHAVIOR OF SPARK PLASMA SINTERED TI	Benga Gabriel Constantin
18.15 – 18.30	PM STEELS PROCESSED BY CARBURIZING-SINTERIZNG PROCESS. TRS VS. RAW MATERIAL AND COMPACTION FEATURES	Criveanu Marius
18.30 – 18.45	ELECTRODEPOSITED NANOCOMPOSITES WITH ZN-BASE ALLOY MATRIX AND CERAMIC PARTICLES	Ciupitu Iulian
18.45 – 19.00	STUDIES REGARDING THE IMPROVEMET OF MECHANICAL PROPERTIES OF PM COPPER BASED BEARINGS	Gheorghe Ștefan
19.00 – 19.15	STRUCTURAL CHANGES AND THERMAL FIELD IN STEELS OBTAINED BY CW CO ₂ LASER RADIATION STRUCTURAL CHANGES AND THERMAL FIELD IN STEELS OBTAINED BY CW CO ₂ LASER RADIATION	Demian Gabriela
19.15 – 19.30	STUDIES REGARDING MORPHOLOGICAL EFFECTS OF FE ₂ O ₃ IRON OXIDE CONCERNING SYNTHESIS PARAMETERS OF BARIUM HEXAFERRITE TYPE M	Ștefan Iulian

May 20th, 2010

Section: Manufacturing Engineering 1

Faculty of EMTS – A14 Hall

Chair Prof. Adrian CERNĂIANU
Co-Chair Prof. Dănuț IORDĂCHESCU
Secretary Lect. Sorin SAVU

15.00 – 15.15	ESTABLISHING THE FUNCTIONS OF A MANUFACTURING FIXTURE USING THE METHOD OF THE SURROUNDING ELEMENTS	Ungureanu Ion
15.15 – 15.30	DEGRADATION PHENOMENA OF ENERGY TRANSFER TUBE CUTTING WITH ABRASIVE WATER JET	Fleșer Traian
15.30 – 15.45	OPTIMIZED SOLUTIONS FOR ALUMINA PLATES PROCESSING	Fleșer Traian
15.45 – 16.00	SURVEILLANCE TECHNIQUES TO MONITOR AND PREVENT INDOOR/OUTDOOR INTRUSION	Trufașu Aurelian Ovidiu
16.00 – 16.15	RAPID TOOLING APPLICATIONS	Moustakas Panagiotis
16.15 – 16.30	FRICTION STIR WELDING SYSTEMS	Cojocaru Radu
16.30 – 16.45	DESIGNING THE WELD CONSTITUTION OF DISSIMILAR METALS JOINTS	Iordăchescu Mihaela
16.45 – 17.00	LASER SHOCK PROCESSING TO IMPROVE THE RELIABILITY OF WELDED METAL STRUCTURES	Iordăchescu Dănuț
17.00 – 17.15	COMPARATIVE STUDY OF ELECTRICAL RESISTANCE MEASUREMENT, MICRO-JOINTS PRODUCED BY EUTECTIC AND THERMOSONIC PROCESS	Sebeș Grigore
17.15 – 17.30	ANALYSIS OF THERMAL PHENOMENA IN THE CENTERLESS GRINDING PROCESS	Cernăianu Adrian
17.30 – 18.00	COFFEE BREAK	

Section: Manufacturing Engineering 2

Faculty of EMTS – A 14 Hall

Chair Prof. Adrian CERNĂIANU
Co-Chair Prof. Dănuț IORDĂCHESCU
Secretary Lect. Sorin SAVU

18.00 – 18.15	DETERMINATION OF ANGULAR AND LINEAR DEFORMATIONS OF THE SHAFTS WITH ARE PARTS OF CENTERLESS GRINDING MACHINES WITH TRANSVERSAL ADVANCE	Cernăianu Adrian
18.15 – 18.30	STUDIES REGARDING OBTAINING OF BICOMPONENT SAMPLES MADE OF RECOVERED METAL POWDERS	Radu Ștefan
18.30 – 18.45	PULSED ARC WELDING VISUALIZATION AND MONITORING	Mistodie Luigi Renato
18.45 – 19.00	FSW INVESTIGATION USING HIGH SPEED CAMERA	Mistodie Luigi Renato
19.00 – 19.15	THERMOGRAPHY TECHNIQUE IN FSW PROCESS	Rusu Carmen Cătălina

May 20th, 2010

Section: Modeling and Simulation 1

Faculty of EMTS – A15 Hall

Chair Prof. Nicolae DUMITRU
Co-Chair As. Prof. Lucian GRUIONU
Secretary Lect. Daniela COMAN

15.00 – 15.15	WELDING AND STRESS RELIEF SIMULATION OF WEBS AND STIFFENERS JOINTS	Bîrsan Dan Cătălin
15.15 – 15.30	GAME THEORY – A METHOD TO DETERMINE THE TOPOLOGICAL NUCLEUS ON WHICH TO DESIGN FLEXIBLE MANUFACTURING SYSTEM	Chiş Ionuţ Adrian
15.30 – 15.45	ELASTIC BEHAVIOR OF LATTICE STRUCTURES FOR ORTHOPEDIC IMPLANTS	Ghiba Ovidiu
15.45 – 16.00	SIMULATING THE BEHAVIOR OF MANUFACTURING SYSTEMS IN EXCITABLE MEDIA	Ionescu Adela
16.00 – 16.15	KNOWLEDGE ACQUISITION AND STRUCTURING FOR DIAGNOSIS IN COMPLEX VIRTUAL SYSTEMS	Postolache Florin
16.15 – 16.30	THE DEPENDENCE ON THE INITIAL STATES AND THE TRANSITIVITY OF THE REGULAR AUTONOMOUS ASYNCHRONOUS SYSTEMS	Vlad Şerban
16.30 – 16.45	CAD TOOLS AND VIBRATION ANALYSIS OF THE FORK-ARM SUBASSEMBLY	Semenescu Daniel
16.45 – 17.00	KINEMATICAL ANALYSIS OF THE RACKET TIP IN TENNIS SERVE	Toth – Taşcău Mirela
17.00 – 17.15	POSITION DYNAMIC CONTROL OF A GRASPING TENTACLE ROBOT	Ivănescu Mircea
17.15 – 17.30	ON THE DYNAMIC OPTIMIZATION OF A HYDRAULIC TURBINE DYRECTORY APPARATUS	Dumitru Nicolae
17.30 – 18.00	COFFEE BREAK	

Section: Modeling and Simulation 2

Faculty of EMTS – A15 Hall

Chair Prof. Nicolae DUMITRU
Co-Chair As. Prof. Lucian GRUIONU
Secretary Lect. Daniela COMAN

18.00 – 18.15	EXPERIMENTS ON CONCRETE IRON STATISTICAL PROCESSING OF THE MECHANICAL-PHYSICAL CHARACTERISTICS	Burada Cristian
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May 20th, 2010

Section: Management

Faculty of EMTS – A16 Hall

Chair Prof. Vladimir KLEIN MĂRĂSCU
Co-Chair Prof. Marioara AVRAM
Secretary As. Prof. Gabriela DEMIAN

15.00 – 15.15	ECONOMIC ASPECTS OF MATERIAL SELECTION IN MANUFACTURING SYSTEMS	Mărăscu Klein Vladimir
15.15 – 15.30	ANALYSIS OF THE RELATIONSHIPS BETWEEN INTEROPERABILITY, RESILIENCE AND AGILITY OF PRODUCTION SYSTEMS	Neaga Elena Irina
15.30 – 15.45	DIAGNOSTIC ANALYSIS. CASE STUDY	Gazdac Roxana Mirela
15.45 – 16.00	THE EVOLUTION AND BEARINGS OF WORLD-WIDE ECONOMY AND THEIR INFLUENCE OVER THE POSSIBLE STRATEGIES FOR ADOPTION OF MOBILITY DECISION	Lupu Vișănescu Demetra
16.00 – 16.15	INVOLVING PROJECTS' MANAGEMENT IN THE BUILDING OF A NEW COMPANY	Dobrotă Gabriela
16.15 – 16.30	THE IMPORTANCE OF MANAGEMENT IN THE TECHNOLOGICAL PROCESSES	Demian Mihai
16.30 – 16.45	SOME CONSIDERATIONS ABOUT THE CREDIT INSTITUTIONS PERFORMANCE'S EVALUATION	Avram Marioara
16.45 – 17.00	NEW REGULATIONS REGARDING THE QUALIFICATION/CERTIFICATION OF WELDING AND NDT PERSONNEL ACCORDING TO SR EN ISO 3834:2006BCORRELATED WITH SR EN 473:2008	Fulga Doru
17.00 – 17.15	PROJECT MANAGEMENT OF PHD THESE	Chirteș Daniel Sorin
17.30 – 18.00	COFFEE BREAK	

Section: Navigation and Environment Engineering

Faculty of EMTS – A12 Hall

Chair As. Prof. Traian POPESCU
Co-Chair As. Prof. Luminița GRECU
Secretary Lect. Olimpia GHERMEC

15.00 – 15.15	REAL TIME REMOTE MONITORING OF AIR POLLUTANTS AND THEIR ONLINE TRANSMISSION	Alecua Georgeta
15.15 – 15.30	MODELLING OF VESSEL TRAFFIC AND SHIP LOCKING PROCESS AS FUNCTION OF WATERWAY CAPACITY	Bačkalić Teodor
15.30 – 15.45	RECYCLING MATERIALS FROM MUNICIPAL WASTE	Buçse Ionela Gabriela
15.45 – 16.00	ECOLOGICAL NEUTRALIZATION OF HOSPITAL AND BODY ANIMAL RESIDUES	Bucur Ilie
16.00 – 16.15	ECOLOGICAL NEUTRALIZATION OF PCBS BY REDUCTION WITH POTASSIUM METAL	Bucur Ilie
16.15 – 16.30	STUDIES REGARDING THE EVOLUTION OF THE GENERATION OF MUNICIPAL WASTE IN MEHEDINTI COUNTY	Ghermec Olimpia
16.30 – 16.45	THE ASSESSMENT OF THE BILGE WASTE DISPOSAL ON BOARD	Ghiba Mihai

May 20th, 2010

16.45 – 17.00	THE MANAGEMENT OF ENVIRONMENT AN IMPERATIV STEP TOWARDS QUALITY	Mazilu Mirela
17.00 – 17.15	USE OF SELF-LUBRICATING BEARINGSS OBTAINED FROM SINTERED METAL POWDERS IN OUTBOARD MOTORS CONSTRUCTION	Popescu Traian
17.15 – 17.30	CONSIDERATIONS REGARDING EMISSION EVOLUTION IN CRAIOVA	Tita Mirela
17.30 – 17.45	THE APPLICATION OF FUZZY EXPERT SYSTEM IN THE INLAND WATERWAYS NAVIGATION ENSURANCE	Dubovan Sandu
17.45 – 18.00	COFFEE BREAK	

Section: Fundamental Sciences

Faculty of EMTS – A12 Hall

Chair As. Prof. Traian POPESCU
Co-Chair As. Prof. Luminița GRECU
Secretary Lect. Olimpia GHERMEC

18.00 – 18.15	CONSIDERATIONS ABOUT THE DIRECT AND INDIRECT TECHNIQUES IN BEM APPLIED TO THE COMPRESSIBLE FLUID FLOW	Greco Luminița
18.15 – 18.30	FUZZY MODEL FOR RISK ASSESSMENT AND ENVIRONMENTAL POLLUTION	Pătrășcoiu Constantin

CONFORT IMOBILIARE S.R.L. CONSILIUL JUDEȚEAN MEHEDINȚI



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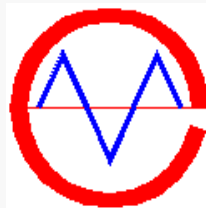
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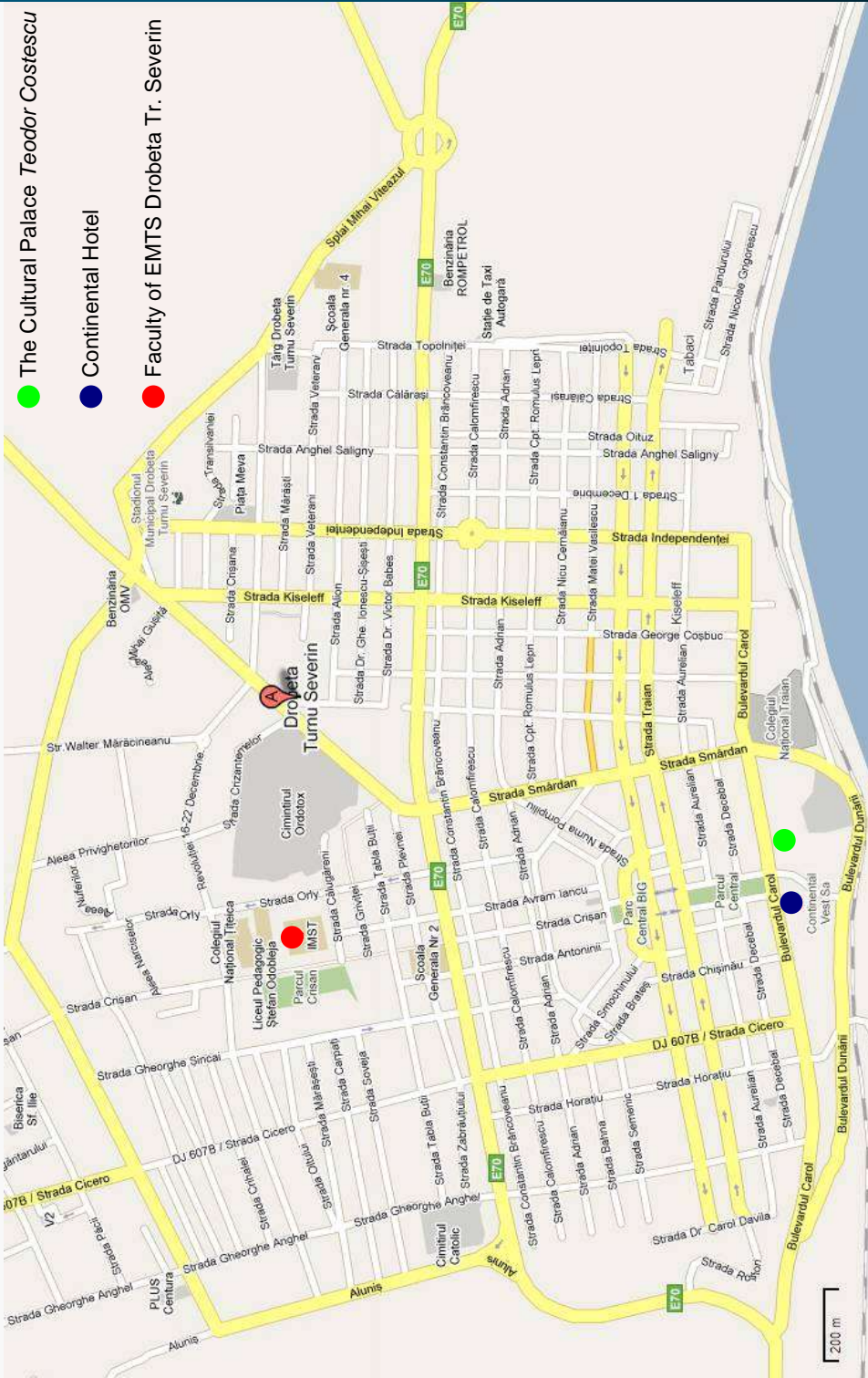
REGIA AUTONOMĂ PENTRU
ACTIVITĂȚI NUCLEARE



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The Cultural Palace Teodor Costescu

Continental Hotel

Faculty of EMTS Drobeta Tr. Severin