Program

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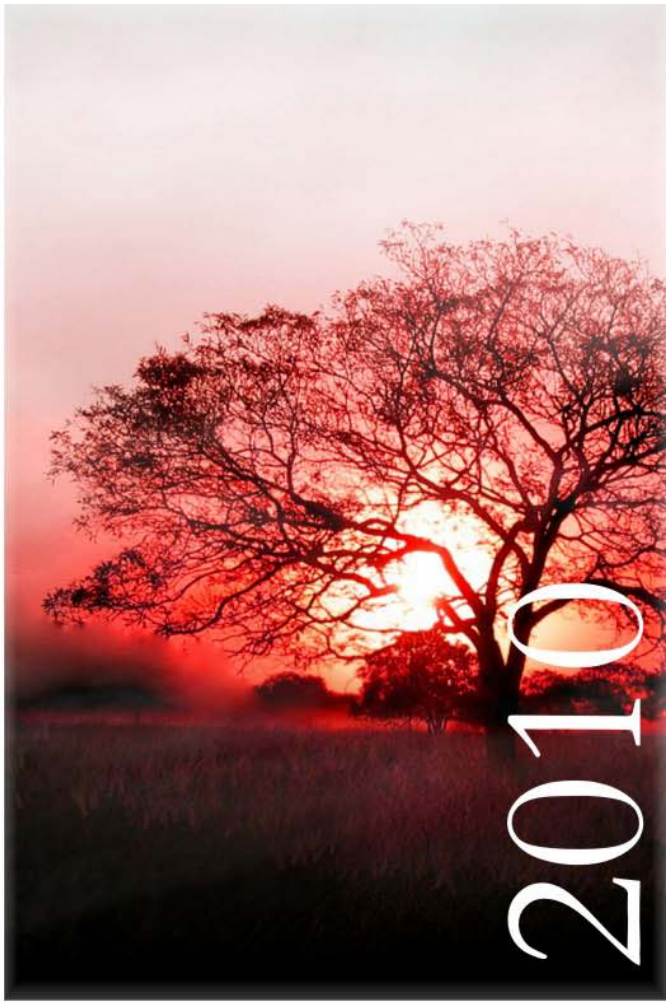

OTEM 2010

the 4th International Workshop on

OPTOELECTRONIC TECHNIQUES

FOR

ENVIRONMENTAL MONITORING

ORGANIZERS

Romanian Ministry of Education, Research and Innovation
National Institute of R&D for Optoelectronics, Bucharest
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"Alexandru Ioan Cuza" University of Iasi
Politechnica University of Timisoara
University of Bucharest
"Horia Hulubei"National Institute of R&D for Physics and Nuclear Engineering
National Meteorological Administration
Norwegian Institute of Air Research

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Christa Fittschen, France
George Georgoussis, Greece
Gerhard Ehret, Germany
Ioan Balin, Switzerland
Luca Fiorani, Italy
Philippe Goloub, France
Tymon Zelinsky, Poland
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Roxana Savastru, National Institute of R&D for Optoelectronics INOE 2000
Silviu Gurlui, "Alexandru Ioan Cuza" University of Iasi
Valentin Ristici, National Meteorological Administration

19 October 2010						
09:30	09:45		opening OTEM			
Modelling and Analysis Tools						
09:45	10:15	I	Studies of the impact of aerosol optical properties on climate change processes	Tymon	Zielinski	Institute of Oceanology, Polish Academy of Sciences
10:15	10:30		coffee break			
Sensors and Instrumentation(in situ, laboratory and remote sensing). Satellite Imagery.						
10:30	11:00	I	Lidar characterization of volcanic plumes	Luca	Fiorani	Italian National Agency for New Technologies, Energy and the Environment
11:00	11:30	I	OH Reactivity Measurements by FAGE	Christa	Fittschen	Université des Sciences et Technologies de Lille
11:30	11:45	O	Aerosol size distribution and composition near Bucharest during May 2010	Jeni	Vasilescu	National Institute of R&D for Optoelectronics
11:45	12:00	O	Comparative study of regional aerosols from columnar sunphotometric data in Romania	Nicolae	Ajtai	Babes-Bolyai University of Cluj-Napoca
12:00	12:15	O	Sea influence on AOD sunphotometric data	Sabina	Stefan	University Of Bucharest, Faculty of Physics
12:15	12:30	O	Diurnal variation of particulate matter in the proximity of Rovinari fossil-fuel power plant	Catalin	Nisulescu	Polytechnica University of Timisoara
12:30	15:00		lunch			

19 October 2010						
Sensors and Instrumentation(in situ, laboratory and remote sensing). Satellite Imagery.						
15:00	15:30	I	Active Remote Sensing of Meteorological Parameter and Atmospheric Trace Gases by Airborne Lidar	Gerhard	Ehret	Institut für Physik der Atmosphäre, DLR
15:30	15:45	O	Ozone Vertical Profiles over Bucharest	Livio	Belegante	National Institute of R&D for Optoelectronics
15:45	16:00		coffee break			
Modelling and Analysis Tools						
16:00	16:15	O	Comparison of air quality in urban traffic areas and areas with air traffic	Francisc	Popescu	Polytechnica University of Timisoara
16:15	16:30	O	Ground based measurements comparison with forecast air pollution model Map3D for a suburban Bucharest area	Emil	Carstea	National Institute of R&D for Optoelectronics
16:30	16:45	O	The nocturnal boundary layer height at Bucharest-Baneasa: lidar measurements versus modelled values	Dan	Dobrovolschi	Romanian National Meteorological Administration
16:45	17:00	O	Cloud height top estimation from satellite imagery and LIDAR measurements	Luminita	Marmureanu	National Institute of R&D for Optoelectronics

20 October 2010						
Sensors and Instrumentation(in situ, laboratory and remote sensing). Satellite Imagery.						
09:30	10:00	I	Compact micropulse backscatter lidar: Airborne and groundbased applications	Valentin	Mitev	CSEM Centre Suisse d'Electronique et de Microtechnique SA Neuchatel
10:00	10:30	I	Depolarization measurement technique: definitions, calibration, and applications	Volker	Freudenthaler	Ludwig-Maximilian-Universität München, Germany
10:30	10:45		coffee break			
Sensors and Instrumentation(in situ, laboratory and remote sensing). Satellite Imagery.						
10:45	11:15	I	Development and optimization of high-accuracy multiwavelength lidars - the producer point of view	George	Georgoussis	Raymetrics
11:15	11:30	O	Optimization of aerosol optical properties retrieval by use of low-range and high-range lidars. Comparison with sun photometry.	Doina	Nicolae	National Institute of R&D for Optoelectronics
11:30	11:45	O	First Romanian LIDAR investigation of the EYJAFJALLAJOKULL volcanic ash	Adrian	Timofte	Al.I.Cuza University of Iasi
11:45	12:00	O	Preliminary results of SO2 measurements in SW Romania using UVGasCam cameras	Razvan	Radulescu	National Institute of R&D for Optoelectronics
12:00	12:15	O	Reduction of CO2 emission using biogas as a fuel for small spark ingnition engines	Adrian Eugen	Cioabla	Polytechnica University of Timisoara
12:15	12:30	O	Reduction of the pollution degree by fueling small scale cogeneration block with biobutanol blends	Lontis	Nicolae	Polytechnica University of Timisoara
12:30	15:00		lunch			
15:00	20:00		trip			

21 October 2010						
09:00	09:30		opening ELSEDIMA			
Facilities and Network Observations						
09:30	10:00	I	The future of ground-based aerosol remote sensing with Cimel sunphotometer - PHOTONS network evolution	Philippe	Goloub	Universite de Lille 1, Laboratoire d'Optique Atmosphérique
10:00	10:30	I	Extreme Phenomenon Observations From Satellite Using EUMETCAST	Colin	Opie	Dartcom
10:30	11:00	I	MAP3D: MesoScale Air Pollution modeliing : Implementation in Romania and analysis of first results	Ioan	Balin	ENVIROSCOPY CH
11:00	11:30		coffee break			
ELSEDIMA						
11:30	12:00	I	ELSEDIMA			
12:00	12:30	I	ELSEDIMA			
12:30	13:00	I	ELSEDIMA			
13:00	15:30		lunch			
InfoHour: research, education and funding opportunities						
15:30	15:45	O	RADO: opportunities for research and education	Doina	Nicolae	
15:45	16:00	O	Funding opportunities for environmental research	Viorel	Vulturescu	
16:00	16:30	D	Discussions, brainstorming			
16:30	16:45		coffee break			

21 October 2010						
Poster session, exhibition & cocktail						
16:45	16:50	P01	An assessment of the state and evolution of the quality of the atmosphere in Cluj-Napoca area, using lichens as heavy metal bioindicators	Andrea	Gagyi-Palffy	Babes-Bolyai University of Cluj-Napoca
16:50	16:55	P02	The impact of the mine field activity on the surface waters from Baia Mare area.	Cret	Ioana	Faculty of Environmental Science, "Babes-Bolyai" University of Cluj-Napoca
16:55	17:00	P03	A preliminary assesment of the environmental impact of the tailings dumps belonging to Lupeni mine (Valea Jiului)	Irimia	Georgiana-Ioana	Babes-Bolyai University of Cluj-Napoca
17:00	17:05	P04	Mining risk assessments - Valea Sesei tailings Pond	Utiu	Raluca-Ioana	Babes Bolyai University
17:05	17:10	P05	Filtering ponds Colbu 1 and Colbu 2.	Cozma	Alexandra Iulia	Babes Bolyai, Cluj-Napoca
17:10	17:15	P06	Angstrom turbidity in the lower layers of troposphere.	Andreea	Boscornea	University of Bucharest, Faculty of Physics, Dept. of Atmospheric Physics.
17:15	17:20	P07	Light Scattering in Particulate Matter Monitoring as tool for health exposure. Case study: Central Park Cluj-Napoca, Romania	Ioana-Nicoleta	Pop	Babes-Bolyai University of Cluj-Napoca
17:20	17:25	P08	Holographic method for local atmospheric aerosol statistics	Mona	Mihailescu	Politehnica University from Bucharest, Romania
17:25	17:30	P09	Non-destructive, qualitative analysis of rare earth elements from meteoritic samples, using a laser ablation system coupled with a plasma mass spectrometer	Tanaselia	Claudiu	INCDO-INOE2000 ICIA

21 October 2010						
Poster session, exhibition & cocktail						
17:30	17:35	P10	Experimental validation of MAP 3D environmental data in NE region of Romania-Iasi area	Mihai	Cazacu	Al.I.Cuza University of Iasi
17:35	17:40	P11	Reduction of CO2 emission applying co-firing technology of biomass waste resource	Gabriel	Trif	Polytechnica University of Timisoara
17:40	17:45	P12	State of the art of the lidar systems development for the ROmanian LIdar national NETwork ROLINET	Ion	Balin	ENVIROSCOPY CH
17:45	17:50	P13	Ceilometer's aplications to observe troposphere-preliminary study	Ioana	Ungureanu	Universitatea Bucuresti-Facultatea de fizica
17:50	17:55	P14	Importance of corrections applied to Lidar data	Vetres	Ion	Polytechnica University of Timisoara
17:55	18:00	P15	Reduction of greenhouse gases emission by post combustion capture	Viorica	Cebrucean	Polytechnica University of Timisoara
18:00	18:05	P16	Comparative study of regional aerosols from columnar sunphotometric data in Romania	Nicolae	Ajtai	Babes-Bolyai University of Cluj-Napoca
18:05	19:30		Visit to posters and exhibition, discussions, cocktail			