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MESSAGE FROM THE GENERAL CO-CHAIRMEN

For its first edition, the IEEE International Symposium on Environment, Identities and Mediterranean Area (IEEE-ISEIM'2006) organizing committee has chosen Corte and Ajaccio (Corsica, France) for its venue. Corsica is known all around the world as the symbol of culture, identity and, of course, Mediterranean area because of its geographical situation. The third largest Mediterranean island has been a crossroad of different civilisations during the past centuries. With a population of 260,000, everything remains at the human size even at the beginning of the 21st century. The symbol of culture and tradition has been enhanced in the 80s by the re-opening of the University of Corsica "Pascale Paoli" and pursued today within multi-disciplinary research centre: the Institute of Environment.

Then, the IEEE "France Section" and the University of Corsica "Pascale Paoli" have associated their efforts to make this event possible. IEEE-ISEIM'2006 has been started to be a real international forum for researchers and scientists from all around the world interested by environment and identity. Even if many of them will come from the Mediterranean area, it will be the occasion to confront their point of view with colleagues coming from other places. It is important to mention that many submissions are coming from young researchers, some of them having their first international experience for IEEE-ISEIM'2006.

The symposium will start in Corte on July 9 with the Global Earth Observations Symposium (GEOSS) organized by our friends Jay Pearlman (Boeing Company, USA) and Rene Garelo (ENST Britany, France). This meeting will prove, if necessary, the importance of technology for the environment and for preventing natural catastrophic events. The symposium will continue between July 10 and 12 in Corte with 5 workshops on forest fire, renewable energy, water management, sustainable development and cultural heritage. The day of July 13 will be devoted to technology transfer and will be organized in "Palais des Congrès François Lanzi" in Ajaccio. The symposium has received more than 200 submissions among which 160 have been selected by the workshop co-chairs after the reviewing process. Moreover, 6 keynote lectures from distinguished speakers will be given during these 4 days both in Corte and Ajaccio.

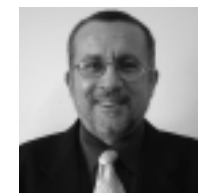
It is our duty to thank all the individuals who helped a lot in the organization: the workshop co-chairs who did a great job in the session programming, the reviewers who selected high standard papers and all the local organizers who made the venue in Corte and Ajaccio possible. Our gratitude is also going to the all the local authorities in Corsica who supported us in the organization with a special mention to the Major of Corte and the Major of Ajaccio who invited us for the two welcome receptions in their respective city. Last but not least, we would like to express our thanks to all the authors and the attendees of IEEE-ISEIM'2006 because the success of the symposium will belong to them!

Enjoy Corte, enjoy Ajaccio and enjoy Corsica!



Gerard-Andre Capolino
and
Jean-Francois Santucci

General co-chairmen of IEEE-ISEIM'2006



Workshop 1 (W-1) : Fire Forest

Workshop 2 (W-2) : Renewable Energy

Workshop 3 (W-3) : Water Management

Workshop 4 (W-4) : Sustainable Development

Workshop 5 (W-5) : Cultural Heritage

CONFERENCE ORGANIZATION

General Co-Chairs

Gerard-Andre Capolino, France

Jean-François Santucci, France

Technical program co-chairs

W-1

Paul Santoni, France

Domingos Xavier Viegas, Portugal

W-2

Aldo Boglietti, Italy

Gilles Notton, France

W-3

Sylvia Agostini, France

Carlos Feliu José, Spain

W-4

Paul-Marie Romani, France

Dominique Prunetti, France

Katheline Shubert, France

W-5

Alain Di Meglio, France

Normand Labrie, Canada

Technical program committee

W-1

Laura Bonora, Italy

Colomba Di Blasi, Italy

P.A. Martins Fernandes, Portugal

Rodman Linn, USA

Bernard Porterie, France

Bernard P. Zeigler, USA

W-2

Dominique Caccavelli, France

Ursula Eicker, Germany

Marcelo Godoy Simoes, USA

Vladimir Lazarov, Bulgaria

Fawaz Massouh, France

Manuel Perez Donsion, Spain

W-3

Bernard Blavoux, France

Gilles Boeuf, France

Jordi Torres Martinez, Spain

Graziella Mura, Italy

Zdzisław Swiderski, Poland

Angelo Tursi, Italy

W-4

Carlo Carraro, Italy

François Lemarchand, France

Lionello Punzo, Italy

Mondher Sahli, New-Zeland

Nelson Lourenço, Portugal

W-5

Alberto Merler, Italy

Claude Cortier, France

Fiorenzo Toso, Italy

Predrag Matvejevic, Croatia

Michael Hoskin, England

Franck Leandri, France

Organizing Committee

Antoine Aiello, France

Marie-Emmanuelle Arrighi, France

Paul Bisgambiglia, France

Amiel Buisset-Orsoni, France

Jean-Baptiste Calendini, France

Cyril Drocourt, France

Sylvia Flore, France

Nathalie Giorgi, France

Dominique Grandjean, France

Humberto Henao, France

Philippe Laclos, France

Marie-Françoise Saliceti, France

Colette Tomasi, France

ISEIM 06 - JULY 9 - 13 - 2006

Main topics :

Fire Forest (W-1), Renewable Energy (W-2), Water Management (W-3), Sustainable Development (W-4), Cultural Heritage. (W-5).

Oral sessions

They correspond to communications which will occur under workshops form. Each main topic contains one or more workshops. Posters will be presented during these oral sessions.

The University of Corsica Ph.D Forum : Tuesday, July 11

The University of Corsica Ph.D. Forum is a poster session hosted by ISEIM 06 for Ph.D. students of the University of Corsica, to present and discuss their dissertation research with people. This second edition of such a forum will allow the Ph.D students to get feedback on their research: 150-250 people are expected to attend ISEIM06.

The University of Corsica PhD forum is driven by the Dean of the University of Corsica Graduate Studies : Prof. Bernardini Antoine-François.

Program at a glance :

Sunday July 9 : "Earth Observations Symposium (GEOS)"	Monday 10 CORTE IUT	9h-18h30	Inscription	Tuesday 11 CORTE IUT	8h-9h	C3	Wednesday 12 CORTE IUT	9h-10h30	Oral Sessions	Thursday 13 AJACCIO Convention Centre	9h30	Welcoming To the Convention Centre
		10h-11h	C1		9h-11h	Oral Sessions		10h30-11h			10h-11h	C5
		11h-11h30			11h-11h30			11h-12h30	Oral Sessions		11h-12h30	Thematic stands
		11h30-12h30	C2		11h30-13h	Oral Sessions		12h30-14h			12h30-14h	
		12h30-14h			13h-14h30			14h-15h	C4		14h-15h	C6
		14h-15h30	Oral Sessions		14h30-16h	Oral Sessions		16h	Departure to Ajaccio		15h-17h	Thematic stands
		15h30-16h			16h-16h30			19h	Reception to the Ajaccio City Hall			Enclosing
		16h-18h30	Oral Sessions		16h30-18h30	Oral Sessions						
		19h-20h	Visit of the old town		20h	Social Event						
			20h		Reception to the City Hall							

Conferences :

Jean-Yves BOTTERO Jérôme ROSE	C1_Nanotechnology for sustainable development of our environment	David R. C HILL	C4_Distributed simulation for environmental and life sciences applications
René GARELLO	C2_Remote measurement for the monitoring of the water state and the pollution	Frede BLAABJERG	C5_Wind power - a power source enabled by power electronics
Jay PEARLMAN	C3_Global impacts on regional processes - a basis for GEOSS	Courtney HOUGH	C6_Aquaculture and sustainable development in Europe

GENERAL PROGRAM

9/07	Earth Observations Symposium (GEOSS)					
10 / 07	9h-18h30	Welcome and Inscriptions - IUT of Corsica				
	10h-12h30	Official opening - Amphitheatre IUT				
	12h30-14h	Conferences : Jean-Yves BOTTERO, Jérôme ROSE "Nanotechnology for sustainable development of our environment", René GARELLO "Remote sensing for sea-state and pollution monitoring"				
	14h-15h30	Buffet - University of Sciences, Pozzo di Borgo Building				
	15-30-16h	W-1 Workshop Fire Forest Fire Modelling : Room 102	W-2 Workshop Renewable Energy Solar thermal : Room 103	W-3 Workshop Water Management Water resources and habitats : Room 001	W-4 Workshop Sustainable Development Wastes management : Room 002	W-5 Workshop Cultural Heritage Languages and Society : Room 114 Astroarcheology : Room 003 Special session Wine : Room 104
	16h-18h30	W-1 Workshop Fire Forest Fire Modelling : Room 102 (16h-17h)	W-2 Workshop Renewable Energy Solar thermal : Room 103 (16h-17h)	W-3 Workshop Water Management Water resources and habitats : Room 001 (16h-18h)	W-4 Workshop Sustainable Development Wastes management : Room 002 (16h-18h)	W-5 Workshop Cultural Heritage Genetic : Room 114 Astroarcheology : Room 003 (16h-17h) Special session Wine : Room 104 (16h-17h30)
	19h-20h	Visit of the old town				
	20h	Reception to the Corte City Hall				
11 / 07	8h-9h	Conference : Jay PEARLMAN , "Global impacts on regional processes - a basis for GEOSS" - Amphitheatre IUT				
	9h-11h	W-1 Workshop Fire Forest Fire Chemistry : Room 102 (10h-11h)	W-2 Workshop Renewable Energy Photovoltaic and Hybrid Systems : Room 116 (9h30-11h) Wind Energy : Room 103 (9h30-11h)	W-3 Workshop Water Management Water Quality and Wastewater Management : Room 001 (9h30-11h)	W-4 Workshop Sustainable Development Tourism : Room 002	W-5 Workshop Cultural Heritage Musicology : Room 003 Archeology : Room 104 (10h-11h) Places, Men and texts between Corsica, Sardinia and Tuscany in Modern Age : Room 114
	11h-11h30	Coffee Break - IUT				
	11h30-13h	W-1 Workshop Fire Forest Fire Chemistry : Room 102	W-2 Workshop Renewable Energy Photovoltaic and Hybrid Systems : Room 116 (11h30-12h30) Wind Energy : Room 103	W-3 Workshop Water Management Water Quality and Wastewater Management : Room 001 (11h30-12h30)	W-4 Workshop Sustainable Development Tourism : Room 002 (11h30-12h30)	W-5 Workshop Cultural Heritage Agro Alimentary : Room 003 Archeology : Room 104 Places, Men and texts between Corsica, Sardinia and Tuscany in Modern Age : Room 114
	13h-14h30	Buffet - University of Sciences, Pozzo di Borgo Building				
	14h30-16h00	W-1 Workshop Fire Forest Fire Ecology and Fire Management : Room 102	W-2 Workshop Renewable Energy Others Renewable Energy (O.R.E) : Room 103 Wind Energy : Room 110	W-3 Workshop Water Management Marine Environmental Protection and Conservation : Room 001 (14h30-15h30)	W-4 Workshop Sustainable Development Tourism : Room 002	W-5 Workshop Cultural Heritage Territories : Room 003 - Archeology : Room 104 Places, Men and texts between Corsica, Sardinia and Tuscany in Modern Age : Room 114 (14h30-15h30)
	16h-16h30	Coffee Break - IUT				
	16h30-18h30	W-1 Workshop Fire Forest Fire Ecology and Fire Management : Room 102 (16h30-18h)	W-2 Workshop Renewable Energy O.R.E : Room 116(16h30-17h30) Network ENR / PECO / ADEME : Room 103		W-4 Workshop Sustainable Development Social and solidarity economy and Identities : Room 002	W-5 Workshop Cultural Heritage Territories : Room 003 (16h30-17h) Archeology : Room 104 (16h30-18h)
20h	Social Event - St Jean					
12 / 07	9h-10h30	W-1 Workshop Fire Forest Fire Ecology and Fire Management : Room 102 Computer Science and Fire Experiment : Room 108	W-2 Workshop Renewable Energy Electrical engineering applied to RES : Room 103 (9h30-10h30)	W-3 Workshop Water Management Water Innovative tools, Technology and Design : Room 001 (9h30-10h30)		W-5 Workshop Cultural Heritage Plurilingualism : Room 114
	10h30-11h	Coffee Break - IUT				
	11h-12h30	W-1 Workshop Fire Forest Fire Ecology and Fire Management : Room 102 Computer Science and Fire Experiment : Room 108(11h-12h)	W-2 Workshop Renewable Energy Electrical engineering applied to RES : Room 103 (11h-12h)	W-3 Workshop Water Management Water Innovative tools, Technology and Design : Room 001 (11h-12h)		W-5 Workshop Cultural Heritage Plurilingualism : Room 114 (11h-12h)
	12h30-14h	Buffet - University of Sciences, Pozzo di Borgo Building				
	14h-15h	C3 : Conference David R. C. HILL , "Distributed simulation for environmental and life sciences applications" - Amphitheatre IUT				
13 / 07	16h	Departure to Ajaccio - Reception to the Ajaccio City Hall				
	9h30	Welcome to the Ajaccio Convention Centre				
	10h-11h	Conference : Frede BLAABJERG , "Wind power - a power source enabled by power electronics"				
	11h-12h30	Thematic stands - Exposition Hall Convention Centre				
	12h30-14h	Lunch - Convention Centre				
	14h-15h	Conference : Courtney HOUGH , "Aquaculture and sustainable development in Europe"				
	15h-17h	Thematic stands - Exposition Hall				
17h	Enclosing					

PROGRAM ISEIM06 - JULY 10-12, CORTE

WORKSHOP 1 : FIRE FOREST

Workshop organisation

The workshop is divided in **four** different topics : Fire modelling, Fire chemistry, Fire ecology and fire management, Computer science and fire experiment. Oral sessions correspond to each one of these subjects.

Posters

Some oral communications are illustrated with posters which are exposed in the room of the workshop.

Fire Ecology and Fire Management. Concerned authors:

- [1] R. Marongiu, G. Garau, M. Caredda, P. Deiana : Impact of soil management on the functional activity of microbial communities associated to cork oak rhizosphere

Workshop program

MONDAY 10 th [Room 102]			
14 h : Professor Domingos Xavier Viegas : A Mathematical Model for Eruptive Fire Behavior			
Fire modelling 14h30-15h30			Fire modelling 16h-17h
<ul style="list-style-type: none"> ● Jacques-Henri Bailbl, Thierry Marcelli, Jean-Louis Rossi, Jean-François Bertolino : Several different scenarii of forest fire spread modelling ● Virginie Tihay, Albert Simeoni, Paul Santoni, Lucile Rossi : Computational and experimental study of laminar flames from forest fuels 			<ul style="list-style-type: none"> ● Nicolas Sardoy, Jean-Louis Consalvi, Bernard Porterie, Ahmed Kais : Transport and combustion of Ponderosa Pine firebrands from isolated burning trees ● Bernard Di Martino, Fabien Flori, Catherine Giacomoni, Pierre Orenge, Mathieu Peybernes : Recent developments on free domain simulation: a possible application in fire spread modelling
TUESDAY 11 th [Room 102]			
Fire chemistry 10h-11h	Fire chemistry 11h30-13h	Fire ecology and Fire management 14h30-16h	Fire ecology and Fire management 16h30-18h
<ul style="list-style-type: none"> ● Styllanos Liodakis, Tilemachos Kakardakis : Measuring the particle flammability of forest species from wildland/urban interface (WUI) near athens by thermal analysis ● Styllanos Liodakis, D. Vorisls, I. Agiostitidis : The retardancy effect of (NH₄)₂HPO₄ and (NH₄)₂SO₄ on six dominant Mediterranean forest species 	<ul style="list-style-type: none"> ● Dominique Cancelleri, Valérie Leroy, Eric Leoni : A kinetic study of the thermal degradation of ligno-cellulosic fuels ● Styllanos Liodakis, Ioannis Antonopoulos : Evaluating the fire retardation efficiency of diammonium phosphate, ammonium sulphate and magnesium carbonate minerals on Pistacia lentiscus L. ● Toussaint Barboni, Nathalie Chiaramonti, Eric Leoni, Jean-Marie Desjober, Paul-Antoine Santoni : Analysis of smoke during prescribed fires 	<ul style="list-style-type: none"> ● Agoston Restas : Forest Fire Management Supported by UAV Based Air Reconnaissance Results of Szendro Fire Department ● V. Pasquallini, C. Ballini, C. Robles, N. Korboulewsky, L. Ferrat, G. Bonin : Seasonal variations of water status and SPOT NDVI in Mediterranean woody plants ● Claudio Conese, Elisabetta Checcacci : Burned forest mapping from satellite images 	<ul style="list-style-type: none"> ● Eric Maillé, Bernard Espinasse : Decision support for forest fire risk evaluation : dynamic modelling and spatio-temporal integration ● Francesca-Maria Ceccaldi, Philippe Pestell : Fire, risk and prevention ● Agoston Restas : Forest Fire Management at Aggtelek National Park Integrated Vegetation Fire Management Program from Hungary

WEDNESDAY 12th [Room 102]Fire ecology and Fire management
9h00-10h30

- **Elena Ormeno, Jean-Philippe Mévy, Anne Bousquet-Mélou, Bruno Vila, Stéphane Greff, Gilles Bonin, Catherine Fernandez** : Intra and interspecific competition impact on foliage terpene emissions and content. Assessment of environmental flammability consequences.
- **I. Oliveras, J. Piñol** : Relationships among number of fires, total area burnt, and large fires in southern France, eastern Spain and Portugal
- **Mariele Japlot, Claude Napoleone** : Study physical and social dimensions of fire for evaluate localised risk level

Fire ecology and Fire management
11h00-12h30

- **Magali Cannac** : Responses of Pinus laricio in Corsican island to prescribed burning
- **U. Im, U. Anteploglu, S I; Incecik, S. Topcu, Tt. Onay, O. Yenigun** : An overview of the forest fires and meteorology in Turkey and Greece
- **R. Maronglu, G. Garau, M. Caredda, P. Delana** : Impact of soil management on the functional activity of microbial communities associated to cork oak rhizosphere

WEDNESDAY 12th [Room 108]Computer science and Fire experiment
9h-10h30

- **Thierry Antoine-Santoni, Jean-François Santucci, Emmanuelle de Gentill, Bernadette Costa** : Using wireless sensor network for wildfire detection. A discrete event approach on environmental monitoring tool
- **Stéphane Garreau, Evelyne Vittori, Jean-François Santucci, Alexandre Muzy** : Specification languages as front-end towards DEVS formalism
- **Paul-Antoine Bisgambiglia, Jean-Baptiste Filippi, Emmanuelle de Gentill** : A fuzzy approach of modelling evolutionary interfaces systems

Computer science and Fire experiment
11h-12h

- **Xavier Silvani, Frédéric Morandini** : An intrusive sensor system for experimental investigations of free wildland fires
- **F. Glroud, C. Picard, G. Rosello** : Analysis of the houses vulnerability at the Wildland Urban interface

WORKSHOP 2 : RENEWABLE ENERGY

Workshop organisation

The workshop is divided in **five** different topics : Solar thermal, Photovoltaic and hybrid systems, Wind energy, Others renewable energy, Electrical engineering applied to RES.

Oral sessions correspond to each one of these subjects.

Poster

Some oral communications are illustrated with posters which are exposed in the room of the workshop.

Solar thermal. Concerned authors :

- [2] Fausto Cavallaro, Luigi Ciruolo : A life cycle assessment (LCA) of a paraboloidal-dish solar thermal power generation system.

Workshop program

MONDAY 10 th [Room 103]			
Solar Thermal 14h-15h30	Solar Thermal 16h-17h		
<ul style="list-style-type: none"> ● Catalin Teodosiu, Iolanda Colda, Catalin Lungu, Andrei Damian : Simulation of HVAC systems energy consumption ● Ahmed Abbas, Isabelle Marie-Joseph, Laurent Linguet, Henri Clergeot : Improvement of individual solar heater efficiency ● Simon Boddaert, Rodolphe Morlot, Dominique Caccavelli, Christophe Ménézo : Hybrid PVTh panel optimisation using a Femlab/atlab/Simulink approach 	<ul style="list-style-type: none"> ● Christian Cristofari, Gilles Notton, Philippe Poggi, Marc Muselli, Nicolas Heraud : Copolymer hybrid photovoltaic/thermal solar collector for water heating ● Fausto Cavallaro, Luigi Ciruolo : A life cycle assessment (LCA) of a paraboloidal-dish solar thermal power generation system 		
TUESDAY 11 th [Room 116]			
Photovoltaic and hybrid systems 9h30-11h	Photovoltaic and hybrid systems 11h30-12h30	Others renewable energies 14h30-16h	Others renewable energies 16h30-17h30
<ul style="list-style-type: none"> ● Daniela Zuga, Laurentia Alexandrescu, Florica Ionescu, Elena Manaila, Diana Martin, Gabriela Craclun : Elastomer crosslinking by means of accelerated electrons - a new elastomer crosslinking technology resulting in a more efficient process and decreased power input. ● Ivan Zullm, Tihomir Bettl : Investigation of a-Si photovoltaic module parameters in actual operating conditions ● Mustapha Hatti : Neural network approach for semi-empirical modelling of PEM fuel-cell 	<ul style="list-style-type: none"> ● Gilles Notton, Vladimir Lazarov, Zahari Zarkov, Ludmil Stoyanov : Optimization of hybrid systems with renewable energy sources: trends for research ● Ghaziel Mbarek : Modeling of the quantity of water pumped by a photovoltaic solar system(Case of Tunisia) 	<ul style="list-style-type: none"> ● Gilles Notton, Christian Cristofari, Marc Muselli, Philippe Poggi, Nicolas Heraud : Hourly solar irradiations estimation: from horizontal measurements to inclined data ● Amine Yazidi, Franck Betin, Gilles Notton, Gérard-André Capolino : Low cost two-axis solar tracker with high precision positioning ● Owen Clus, Marc Muselli, Daniel Beysens, Vadim Nikolayev, Jallil Ouazzani : Computational fluid dynamic (CFD) applied to radiative cooled dew condensers 	<ul style="list-style-type: none"> ● Adrea Cavagnino, Alberto Tenconi, Pasquale Campanile, Franco Anzioso : Thermally integrated induction generator for adjustable speed reciprocating cogeneration systems Presentation by Prf. Boglietti ● Luca Ferraris, Paolo Ferraris : Approach to the problem of water condensation by means of photo voltaic energy

TUESDAY 11th [Room 103]

Wind energy 9h30-11h	Wind energy 11h30-13h	Wind energy 14h30-16h	17h30-18h30
<ul style="list-style-type: none"> ● Gianfranco Chicco, Paolo Di Leo, Federico Scapino, Filippo Spertino : Experimental analysis of wind farms connected to high voltage grid: the viewpoint of power-quality ● Phillippe Poggi, Marc Muselli, Christian Cristofari, Gilles Notton, Nicolas Heraud : Coupling hydro and wind electricity production by water - pumping storage ● Chalabla Benoudjit, Benoudjit, Youcef Ettoumi : Design of a wind power system for the site of Ain Amenas (Algeria) 	<ul style="list-style-type: none"> ● Pascal Oberti, Marc Muselli, Philippe Poggi : Wind farms territorial integration in Corsica : methodology and case study in Bonifacio ● Fawaz Massouh, Ivan Dobrev : Investigation of flow downstream a horizontal axis wind turbine ● Mohamed-Amine Fnalech, Gérard-André Capolino, Franck Betin, Farhat Fnalech, Babak Nahidmobarakeh : Synchronous and induction wind power generators as renewable power energy sources 	<ul style="list-style-type: none"> ● Munif Jourieh, Patrick Kusza, Ivan Dobrev, Fawaz Massouh : Hybrid rotor models for the numerical optimisation of wind turbine farms ● Ouadie Bennouna, Nicolas Heraud, Christian Cristofari, Marc Muselli, Gilles Notton, Philippe Poggi : Gross error detection of the generator of a wind turbine ● Takao Maeda, Yasunari Kamada, Kei Tanaka, Keita Naito, Yuu Ouchi : Experimental studies on unsteady aerodynamics effect on the blade root load of HAWT field rotor 	Network ENR / PECO / ADEME

WEDNESDAY 12th [Room 103]

Electrical engineering applied to RES 9h30-10h30	Electrical engineering applied to RES 11h-12h
<ul style="list-style-type: none"> ● Stefka Nedelcheva, Nedelcho Nedelchev : Analysis of short circuit currents in distribution networks with dispersed generation ● Vladimir Lazarov, Delan Apostolov : PWM inverter power transfer under unbalanced voltage conditions 	<ul style="list-style-type: none"> ● Stefka Nedelcheva, Philippe Poggi, Gilles Notton, Marc Muselli, Vesselin Chobanov : Examination of the influence of the dispersed generation in the distribution networks for medium voltage ● Laurent Capocchi, Dominique Federici, Paul-Antoine Bisgambiglia, Humberto Henao, Gérard-André Capolino : A BFS-DEVS approach for induction generator non traditional modelling

WORKSHOP 3 : WATER MANAGEMENT

Workshop organisation

The workshop is divided in **four** different topics : Water resources and habitats, Water quality and wastewater management, Marine environmental protection and conservation, Water innovative tools, technology and design.

Oral sessions correspond to each one of these subjects.

Posters

Some oral communications are illustrated with posters which are exposed in the room of the workshop.

Water quality and wastewater management. Concerned authors:

- [3] Karine Franceschi : Legal management of water on the Corsican territory.
- [4] Ermelinda Prato, Maria Immacolata Acquaviva, Francesca Biantolino, Marcella Narracci, Rosa Anna Cavallo : Bioassays utilization for toxicity assessment of sediments along Apulia Coast.
- [5] Béatrice Khouméri, Marie-Emmanuelle Arrighi : Multidisciplinary survey regarding sustainable water management in Corsica: main results of hydrological, social and economical analysis.
- [6] Mariam El. Adnani, A. Ait. Boughrous, M. Yacoubi Khebiza, M. L. Sbai, A. Nejmeddine : Mine tailings impact on the physico-chemical and biological characteristics of underground waters in Marrakech mining area (Morocco)

Workshop program

MONDAY 10 th [Room 001]	
Water resources and habitats 14h-15h30	Water resources and habitats 16h-18h
<ul style="list-style-type: none"> ● Anthony Pere, Alessandra Falchi, Laurianne Giovannoni, Corinne Pelaprat, Christine Pergent-Martini, Pierre Lejeune, Laurent Varesl : Mitochondrial DNA phylogeny of the spiny lobster genus <i>Palinurus</i> (Decapoda: Palinuridae) ● Yann Qullichini, Joséphine Foata, Joseph Mattel, Antoine Orsini, Bernard Marchand : Parasites communities in brown trout <i>Salmo trutta</i> (Pisces, Teleostei) from corsican rivers ● Céline Levron : Vitellogenesis in the fish tapeworm <i>Bothriocephalus scorpii</i> (Cestoda: Pseudophyllidea) 	<ul style="list-style-type: none"> ● Julia-Laurence Culloli, Christophe Mori, Antoine Orsini, Bernard Marchand : The Branchiopoda (Crustacea) of Corsica (France): review and status ● Yann Qullichini, Joséphine Foata, Antoine Orsini, Joseph Mattel, Sylvia Agostini, Bernard Marchand : Statistical analysis of the parasites distribution in corsican salmonids ● Daniela Minelli, Bruno Sabelli, Stefano Tommasini, Violetta Collevicchio, Raffaele Gattelli : Comparative aspects of habenulae in some species of Chondrohycthes and Ostehycthes ● Daniela Minelli, Bruno Sabelli, Stefano Tommasini, Violetta Collevicchio, Serena Giannattasio, Hadar Omiccioli, Gian Maria Balducci : Reproductive biology and substitution of two species of Nassariidae

TUESDAY 11TH [Room 001]

<p style="text-align: center;">Water quality and wastewater management 9h30-11h</p> <ul style="list-style-type: none"> ● Ermelinda Prato, Maria Immacolata Acquaviva, Francesca Blandolino, Marcella Narracchi, Rosa Anna Cavallo : Bioassays utilization for toxicity assessment of sediments along Apulia Coast ● Mariam El Adnani, A. Alf. Boughrous, M. Yacoubi Khebiza, M. L. Sbai, A. Nejmeddine : Mine tailings impact on the physico-chemical and biological characteristics of underground waters in Marrakech mining area (Morocco) ● Jean Ferrandini, M. Ferrandini, L. Simon, F. Martineau, C. Lécuyer : Chemical and stable isotope characterization of mountain aquifers from central Corsica. 	<p style="text-align: center;">Water quality and wastewater management 11h30-12h30</p> <ul style="list-style-type: none"> ● Béatrice Khoumeri, Marie-Emmanuelle Arrighi : Multidisciplinary survey regarding sustainable water management in Corsica: main results of hydrological, social and economical analysis ● Karine Franceschi : Legal management of water on the Corsican territory 	<p style="text-align: center;">Marine environmental Protection and Conservation 14h30-15h30</p> <ul style="list-style-type: none"> ● Alexandre Muzy, Dominique Prunetti, Eric Innocenti : A simulation-based tool for the creation of marine reserves ● Gianluigi Bacchetta, Giuseppe Fenu, Gianluca Lirffi, Efisio Mattana : Territory defence throughout conservation of the plant diversity: the project of the Protected Sea Area of Capo Carbonara (south eastern of Sardinia).
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WEDNESDAY 12TH [Room 001]

<p style="text-align: center;">Water innovative tools, technology and design 9h30-10h30</p> <ul style="list-style-type: none"> ● Dominique Urbani, Martelle Delhom : Water management using a new hybrid multi-agents system - Geographic information system decision support system framework ● Julien Serment, Bernard Espinasse, Erwan Tranvouez : Environmental decision support system for hydraulic management of the Camargue: Functionalities and Software Architecture 	<p style="text-align: center;">Water innovative tools, technology and design 11h-12h</p> <ul style="list-style-type: none"> ● Bernard Di Martino, Fabien Fiori, Catherine Giacomoni, Pierre Orenge, Mathieu Peybernes : Oil spill simulation using the megafuge software ● Lakhdar Zella, Dalila Smadhi : Design and simulation of microirrigation network
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WORKSHOP 4 : SUSTAINABLE DEVELOPMENT

Workshop organisation

The workshop is divided in **three** different topics : Wastes management, Tourism, Social and solidarity economy and identities. Oral sessions correspond to each one of these subjects.

Workshop program

MONDAY 10 th [Room 002]			
14h-14h15 Introduction : Paul- Marie Romani, Marie-Antoinette Maupertuis			
Waste Management 14h15-15h30	Waste Management 16h00-18h		
<ul style="list-style-type: none"> ● Carlo Carraro : International Environmental Agreements on Climate Change (to be confirmed) <p>Discussion</p> <ul style="list-style-type: none"> ● Marie-Antoinette Maupertuis, Dominique Prunetti : Spatial distribution of economic activities and transboundary pollution 	<ul style="list-style-type: none"> ● Akira Hibiki, Tetsuya Shimane : Empirical study on determinants of household solid waste and the effect off the unit pricing in Japan ● A. Casablanca : Economic and Environmental Effectiveness of Incentives Tools for the Building Waste Recycling ● Akira Hibiki, Shunsuke Managi : Environmental information provisions, valuation of the market and firm's incentive: empirical analysis of PRTRs in Japan ● Frédéric Lemarchand : Waste Management: the Sociologist's point of view 		
TUESDAY 11 th [Room 002]			
Tourism 9h-11h	Tourism 11h30-12h30	Tourism 14h30-16h	Social and Solidarity Economy and Identities 16h30-18h30
<ul style="list-style-type: none"> ● Nelson Lourenço, Carlos Russo Machado, Maria do Rosario Jorge : Tourism, environment and sustainable development. Local Strategies for improving rural livelihoods in Bahia (Brazil) and Goa (India) ● Sabena Simona, Mondini Giulio : Strategies, tools and opportunities for the development of a sustainable tourism: the case of the Torino 2006 Winter Olympic Games ● Romain Melot, Michaël Sertinelli, Jean-Christophe Paoli : Conflicts and concertations on the use of littoral spaces in Corsica ● Sauveur Giannoni : Tourism, growth and the environment with monopoly power 	<ul style="list-style-type: none"> ● Lionello Punzo : Tourism and Environment: Stylised facts ● Antoine Belgodere, Alexandre Muzy, Eric Innocenti, Sauveur Giannoni : Modelling and simulation of tourist land uses through a multiagent system 	<ul style="list-style-type: none"> ● Mondher Sahli : Tourism, Employment and National Welfare ● Carlo Bottazzi, Daniela Raineri, Gemma Sirchia : Impact evaluation of Olympic Games ' TORINO 2006 ' in the Mountain Landscape across an integrated approach among stated preferences method and multicriteria analysis ● Carlo Bottazzi, Marta Bottero, Giulio Mondini, Daniela Raineri : Analysis of the tourist demand to support of the Management Plan of the UNESCO sites: the case of the Cinque Terre Park (Italy) 	<ul style="list-style-type: none"> ● Michel Rombaldi : Social and Solidarity Economy: the Case of Corsica; ● Davide Gualerzi : Identity and regional development: an introductory analysis; ● Hans Connor : Strategies for development in islands: assessing the need for a paradigm shift; ● Hans Connor : Economic development and Island Identity in Prince Edward Island;

WORKSHOP 5 : CULTURAL HERITAGE

Workshop organisation

The workshop is divided in **seven** different topics : Languages and society, Musicology, Territories, Agroalimentary, Plurilingualism, Astroarcheology, Archeology. Oral sessions correspond to each one of these subjects.

The contents of this workshop is enriched by **three special sessions** :

- Genetic (Person in charge: Laurent Varesi)
- Places, men and texts between Corsica, Sardinia and Tuscany in Modern Age (Persons in charge: Giancarlo Nonnoi, Jean Chiroboli)
- Wine (Person in charge: Giancarlo Scalabrelli)

Posters

Some posters are exposed in order to illustrate the special session Wine.

Concerned authors:

- [7] V.A., Prota, A. Sechi, S. Botti, G. Tolu, R. Garau, A. Bertaccini : New findings on phytoplasmas-affected Auchenorrhyncha populations in Sardinian "vineyard systems".
- [8] V.A., Prota, A., Sechi, G., Tolu, R. Garau, U. Prota : Recover and sanitary selection of local vines of the Sardinian.
- [9] M. Agnolucci, S. Scarano, C. Sassano, A. Toffanin, M. P. Nuti : Malolactic Bacteria affect the Occurrence of Biogenic Amines in Chianti Wines.
- [10] Zinnai G., F.Venturi, Andrich : A dilution/sampling apparatus for continuous process monitoring.
- [11] H. Bouyahia, A. Materazzi, E. Triolo : Grapevine Vein Necrosis: further data on etiology and diagnosis.

Workshop program

MONDAY 10 th [Room 114]	
<p>Languages and society 14h-15h30</p> <ul style="list-style-type: none"> ● Abdelhamid Abidi : Language and society: Arbi/Souri in Tunisia ● Dominique Foata : The stakes and challenges of the spoken corsican corpus in education ● Marie-Ange Mazzoni : Representation of the corsican identity towards the language's utilisation in a supermarket 	<p>Genetic 16h-18h30</p> <ul style="list-style-type: none"> ● Alessandra Falchi, Laurianne Giovannoni, Michela Barsotelli, Laurent Varesi, Giuseppe Vona : Prevalence of MTHFR gene polymorphisms among Mediterranean populations: a possible genetic selection from malaria ? ● Laurianne Giovannoni, Alessandra Falchi, Ignazio-Stefano Piras, Jean-Pierre Amoros, Giorgio Paoli, Sergio Toffanelli, Giuseppe Vona, Laurent Varesi : Diversity of B-Globin haplotypes associated with B-Thalassemia in Corsica (France) ● Ignazio Piras, Laurent Varesi, Alessandra Falchi, Laurianne Giovannoni, Maria Elena Ghiani, Carla Calo, Giuseppe Vona : Distribution of B-globin cluster haplotypes in Sardinia (Italy) ● Sergio Tofanelli, Stefania Bertoncini, Luca Taglioli, Laurent Varesi, Giorgio Paoli : Y-STR haplotyping in french immigrants of Maghreb origin: drop of diversity and implications on the matching probability and the assignment of ethnic affiliation ● Giuseppe Vona, Carla M. Calo, Antonio Lopez-Alomar, Mostafa Kandil, Nordin Harich, Emili Gonzalez Perez, Marc Via, Ester Esteban, Jean-Michel Dugoujon, Pedro Moral : Variability of candidate genes for cardiovascular risk in the Mediterranean

MONDAY 10th [Room 003]

Astroarcheology
14h-15h30

- **Antoine-Marie Ottavi, Enrico Calzolari** : De Aequinoctium dies
- **Chantal Jègues Wolkiewiez** : The equinox: roots of astronomy
- **Jean-François Santucci, El-Hadi Khoumeri, Ghjasippina Thury-Bouvet** : Archaeology and astronomy: similarities ad differences between Corsica, Balearic islands and Sardinia

Astroarcheology
16h-17h

- **Michael Hoskin** : Orientations of dolmens in southern France and Catalunya
- **Jérôme Magall** : Sundials at the early bronze age at mount bego (Alpes-maritimes)

MONDAY 10th [Room 104]

Wine Session
14h-15h30

- Introduction : Giancarlo Scalabrelli, Angela Zinnal :**
Viticulture and enology: present and future perspective for the mediterraneum
- **Alberto Materazzi, E Triolo, Giancarlo Scalabrelli, Claudio D'Onofrio, A Luvisi, G Ferroni** : Clonal selection of aleatico grapevine along tuscan coastal area
 - **Giancarlo Scalabrelli, Claudio D'Onofrio, G Ferroni** : Amplelographic and biomolecular studies on the grapevine variety "Aleatico"

Wine Session
16h-17h30

- **Gianni Nieddu Chessa I., Mercenaro L.** : Primary and secondary characterization of a grape Vermentino clones selected in Sardinia and in Corsica
- **Angela Zinnal, Gianpaolo Andrich, Francesca Venturi, Y Calamita** : Cold maceration in production of high quality wine
- **Marilena Budroni, Gianfranca Ladu, Giacomo Zara, Severino Zara, Giovanni Antonio Farris** : Molecular and Enological Characterization of Autochthonous Saccharomyces cerevisiae Strains Isolated from Grape-musts and Wines Cannonau
- **Zinnal G., F.Venturi, Andrich** : Isolation and characterization of malolactic bacterial strains by musts and wines for high quality wine production.

TUESDAY 11th [Room 003]

Musicology 9h-11h	Agro Alimentary 11h30-13h	Territoires 14h30-16h	Territoires 16h30-17h
<ul style="list-style-type: none"> ● Toni Casalonga, N Acquaviva, J S Guaitieri, C Bellagamba, Dominique Verdoni, Jean-François Santucci : Computer aided characterization, and synthesis of Corsican songs ● Mondher Ayari : Aural analysis of arabic improvised instrumental music ● Francis Rousseaux, Pierre Saurel : Towards new on-line cultural possibilities ● Catherine Hergott : Gestual and vocality in polyphonic corsican vocal practices 	<ul style="list-style-type: none"> ● F Brocchia, Teodora Lantini, Anne Luciani, Anna Maria Carcassi : Is the corsican and sardinian students' diet a Mediterranean-style diet ? ● Ange de Cicco, Emmanuelle de Gentili, Jean-François Santucci : Modelling and simulation applied to the cheese tradition ● Laure Bonnaud, Christine Nicourt : When farmers face criticisms 	<ul style="list-style-type: none"> ● Elena Moreddu : To belong to places: sketches from six cumbessias villages ● Piero Castell, Giorgio Cavallo, Marcello Schirru, Gianni Fanni : Memory paths in Sardinia ● Pierre Bertoni : Spray-can graffiti and public signposting : a thirty yearsold conflict 	<ul style="list-style-type: none"> ● Frédérique Valery : Representation of the "Moor" in the Baroque Paintings

TUESDAY 11th [Room 104]

Archaeology 10h-11h	Archaeology 11h30-13h	Archaeology 14h30-16h	Archaeology 16h30-18h
<ul style="list-style-type: none"> ● Leria Franceschini, Séverine Leconte-Tusoli : The valorization of the pre-and protohistoric archaeological heritage of Corsica, from interest from practical application in the field ● Marie-Laurence Marchetti : Grotta piatta new results from corsican burials of the iron age 	<ul style="list-style-type: none"> ● Paul Franceschi : A note on the legend associated with the archaeological site of the Monte Revincu ● Sylvain Mazet : Habitat and stone enclosure of Corsica: what is the function of the enclosed area during the Neolithic and the Bronze age ? ● Nathalie Marini : Occupation and environmental context of a prehistoric and protohistoric settlement on the corsican east coast 	<ul style="list-style-type: none"> ● El-Hadi Khoumeri, Jean-François Santucci : GIS in archaeology ● Antonia Colonna : Tools of the environmental exploitation to the corsican neolithic: polished stone axes ● Frédérique Nucci : The Mariana territory (North-eastern of Corsica) at the archaic period 	<ul style="list-style-type: none"> ● Stéphanie Oberli : Corsica and commerce in the mediterranean sea during the antiquity: study of the ceramic material discovered on the site of Santa Mariona (Corte) ● Denis Luciani : Corsica and its historical perception of the South ● Denis Terrachon : To Ghjuvella. Discovery of a territory of the inside of Corsica through ages by a study of sites

TUESDAY 11TH [Room 114]Places, men and texts between Corsica, Sardinia and Tuscany in modern Age
9h-11h

Introduction : Giancarlo Nonnoi

- **Fabrizio Franceschini** : Nine religions, sixteen tongues, languages, cultures, identities at Leghorn in the eighteenth and nineteenth centuries
- **Silvia Confi** : The manuscript treatises used as textbooks at the university of Cagliari (17th-18th century)
- **Francis Beretti** : The Britanic community in Livourne during the Pasquale Paoli government

Places, men and texts between Corsica, Sardinia and Tuscany in modern Age
11h30-13h

- **Jean Chiorboli** : Orthography and languages in contact
- **Giancarlo Nonnoi** : Plants, names and places of eighteenth century Sardinia in Flora Sarda by Michele Antonio Piazza
- **Annalisa Nesl** : Chestnut growing and chestnut products: language and tradition in Tuscany (CaLiTraT). Promotion of the cultural identity of the region's chestnut growing areas

Places, men and texts between Corsica, Sardinia and Tuscany in modern Age
14h30-15h30

- **Walter Falgio** : Circulation of Ideas in eighteenth-century Sardinia: the book tool of the Enlightenment
- **Angélique Salvarelli** : Niccolò Tommaseo in France

WEDNESDAY 12TH [Room 114]Plurilingualism
9h-10h30

- **Diane Gérin-Lajole** : The role of the school in the Mediterranean of French language minority identity in English Canada
- **Alexandra M. Jaffe** : Bilingual education on Corsica : the management of multiple and competing cultural linguistic goals
- **Phyllis Dalley, Claire Isabelle, François Desjardins** : Principals, knowledge, responsibilities and identity construction in French as a first language schools in Canada

Plurilingualism
11h-12h

- **Pascal Ottavi** : Bilingual school teachers : the concept of linguistic elaboration put to the test in schools
- **Claude Cortier, Alain Di Meglio** : Education in language and culture and intercomprehension between closely related languages

Workshop V - Enclosing
14h-15h30

Normand Labrie

PROGRAM ISEIM06 - JULY 13 - AJACCIO

**Special meeting : Innovation and Technology Transfer.
Convention Centre François Lanzi, Ajaccio**

This day dedicated to the research valorisation, occurs in the Ajaccio Congresses Centre from 10 am to 17 pm. The goal is to promote the links between enterprises and the researchers present in Corsica for the first ISEIM.

This special session is divided in two distinct parts :

- **Conferences** carried out by two international experts concerning the renewable energy and the aquaculture. These communications focus on the economical development and the technologies control. They will be followed by discussions with the participants.
- **Thematic stands** presented in the hall of exposition of the Centre. This space, available in parallel with the conferences, is proposed to all the participants :
 - Researchers of the University of Corsica,
 - Researchers from foreign University who attend the ISEIM,
 - Representatives of the socio economical world,
 - Institutional actors.

This place of presentation of products and expertise, aims to create favourable conditions for the apparition of collaborations.

This event corresponds to a new step of the University of Corsica, confirming its will of opening towards its socio-economical environment. Finally, the objective of this day is to propose the largest panel of competences to the public.

Free entrance.

Contact :

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IUT – Ground Floor. Rooms location



IUT – First Floor. Rooms location

