

REGISTRATION FORM

ADVANCED METHODOLOGIES FOR LAND INSTABILITY HAZARD
MAPPING AND LANDSLIDE OCCURRENCE FORECASTING MODELS
IN ORDER TO MITIGATE THEIR EFFECTS

Matera, Mediateca Provinciale, 2-4 th May

Name and title : _____

Univ/Company: _____

Address: _____

Phone/fax/email : _____

Invoice data: _____

VAT code _____

Registration fees:

| Categories | Before the 26 th April | After the 26 th April |
|---|-----------------------------------|----------------------------------|
| Students, PhD students, OdG, SIGEA And IAEG members | 80 € | 100 € |
| All other participants | 100 € | 120 € |

Field trip and lunch of Saturday 4th 2013: 50 euros; VAT is included in the fee s.

The registration allows the submission of an abstract.

Payment may be done through bank transfer to : CIC, BANCO DI NAPOLI, SEDE DI BARI,

IBAN: IT2750101004015100000018667, SWIFT BIC: IBSPITNA, payment reason: ISCRIZIONE MATERA 2013.

Registration form has to be submitted together with the Bank Transfer copy to:

Dr.ssa Rachele Mizzi: Rachele@cicsud.it or fax to CIC Sud, +39 080 5043736



Università degli Studi della Basilicata

Dipartimento delle Culture Europee e del Mediterraneo



Closing of the Scientific Research Project of Relevant National Interest 2008

(PRIN 2008)

“ADVANCED METHODOLOGIES FOR LAND INSTABILITY HAZARD MAPPING AND LANDSLIDE OCCURRENCE FORECASTING MODELS IN ORDER TO MITIGATE THEIR EFFECTS”

ORGANIZATION:

Università della Basilicata, Dip. delle Culture Europee e del Mediterraneo (DiCEM)

Università della Basilicata, Scuola di Ingegneria

Università della Calabria

Politecnico di Bari, DICATECH

CNR-ISSIA Bari

Dottorato Scienze della Terra - Università degli Studi della Basilicata

Società Italiana di Geologia Ambientale (SIGEA)

International Association of Engineering Geology

SCIENTIFIC COMMITTEE:

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Prof. Antonio FEDERICO (PoliBa)

Prof. Dolores FIDELIBUS (PoliBa)

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Prof. Francesco SDAO (UniBas)

Prof. Giuseppe SPILOTRO (UniBas, IAEG, SIGEA)

Prof. Vincenzo SIMEONE (PoliBa, IAEG)

REQUESTED PATRONAGE:

Regione Basilicata

Autorità di Bacino della Basilicata

Autorità di Bacino della Puglia

Comune di Matera

Provincia di Matera

Ordine degli Ingegneri della Provincia di Matera

Ordine degli Ingegneri della Provincia di Potenza

Ordine degli Ingegneri della Provincia di Bari

Ordine dei Geologi della Regione Basilicata

Ordine dei Geologi della Regione Puglia

ORGANIZATIONAL SECRETARY

CIC sud, dr.ssa Rachele Mizzi: rachele@cicsud.it

Informations and instructions for Authors:

<http://www.sigeaweb.it/matera2013.html>

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15 APC credits for Geologist requested.

Matera, 2-4th May 2013: Mediateca Provinciale and historical landslide areas of Basilicata Region.

Final program



Closing of the Scientific Research Project of Relevant National Interest 2008 (PRIN 2008)

ADVANCED METHODOLOGIES FOR LAND INSTABILITY HAZARD MAPPING AND LANDSLIDE OCCURRENCE FORECASTING MODELS IN ORDER TO MITIGATE THEIR EFFECTS

Scientific Units: University of Basilicata, Polytechnic of Bari, University of Calabria, CNR - ISSIA Bari

The PRIN 2008 project has been focused on recent techniques for managing hazard and risk connected to instability phenomena (landslides and sinkholes) and mitigation strategies. In particular, the main objectives concerned the elaboration of landslide susceptibility and risk maps by using different forecasting models, the analysis of landslide occurrence and the monitoring of landslide precursors and kinematic markers.

The closing conference of the PRIN 2008 project is organized around three sessions and one special session.

The first session on Thursday morning concerns local experiences on the topics of the Scientific Project; the second session, on Friday morning, concerns the presentation of the project results achieved by the four Scientific Units; the third, on Friday afternoon, is dedicated to foreign and Italian scientists, and it is aimed at offering the updated state of the art and trends in the studies on hazard coming from landslides and land instability from natural and anthropogenic cavities (underground extraction of building materials, karst processes and sinkholes).

One special session on Thursday afternoon will deal with the multidisciplinary approach in the study of an instability process: Kinematics, petrography, hydrodynamics, hydrogeochemistry, remote sensing, hazard evaluation. Finally at the end of the morning of the second day, experts will debate on the possibility to improve the public board action in hazard management by exploiting the recent advances in this field.

Long abstract are welcome on the topics of the workshop (land instability hazard and risk assessment and mapping landslide occurrence provisional models, early warning techniques); they will be referred and published on a special issue of «*Geologia dell'Ambiente – Periodico SIGEA*». Selected authors will be invited to present a full paper, which will be published in a special issue of an international journal.

Thursday, 2nd May 2013, Mediateca della Provincia

9:00

Opening conference and first session

10:00-12:30

A1 **Vitone C.**, Cotecchia F., Palmisano F., Santalucia F. (Polytechnic of Bari)

Mechanical behavior of clayey soils part of Daunian turbidites as predisposing factor to landsliding: some results from the Daunian area.

A2 **Candela L.** (ASI Matera)

The ASI experiences for Hazard Support

A3 **Pellicani R.** (DICEM- University of Basilicata)

Assessing landslide exposure and risk in Apulian Southern Apennine

A4 **Di Pasquale A.**, Leandro GF, Nico G., Vitelli F.

Ground-based radar interferometry for the monitoring of land instability: properties, current applications and new developments, advantages and drawbacks.

Examples of application in the Basilicata region.

11:00 -11:15

Coffee break

12:30-13:00

Open discussion

13:00-14:30

Lunch Break

14:30-16:30

Special session: Multidisciplinary approach in the study of instability phenomena: The Lesina Marina area

B0 **Dr. S. Nisio**

B1 **A. Refice**, F. Boveniga, G. Pasquarillo, (CNR ISSIA Bari)

Displacement monitoring at Lesina Marina through persistent Scatterers SAR interferometry

B2 **V. Festa**, P. Acquafredda, L. Sabato, G. Teofilo, M. Tropeano (UniBa)

Petrographic and geological features of the Trassico Burano Anhydrites in the Lesina Marina area: geodynamic implications.

B3 **Campana C.**, Fidelibus M.D. (Politecnico di Bari, DICATECH)

Hydrodynamics and associated geochemical processes: experimental data and modeling of multi-component reactive transport with variable density groundwater flow

B4 **D'Angella A.**, Canora F., Pellicani R., Spilitro G.(UniBas)

The sinkhole susceptibility assessment in the Lesina Marina area: Methodologies and results

17.00 – 17.30

Discussion

Friday, 3rd May 2013 Mediateca della Provincia

9:15-9:30

C1 **Prof. G. Spilitro** (DICEM- University of Basilicata)

Presentation of the PRIN 2008 project

9:30-10:30

C2 **Prof. A. Federico** (Polytechnic of Bari)

Temporal prediction of slope failure occurrence

C3 **Dr. G. Pasquarillo** (CNR – ISSIA Bari)

DInSAR monitoring techniques

10:30 -10:45

– Coffee break

10:45- 11:45

C4 **Canora F.**, D'Angella A., Pellicani R., Spilitro G., Straziuso K. (UniBas)

Complexity in landslide hazard and risk assessment

C5 **Guerricchio A.**, Fortunato G., Ponte M. (Unical)

Landslides in Calabria. High precision GPS and SAR interferometric monitoring about two case histories:

San Lucido and Piana di Lamezia

12:00-13:00

Scientists and experts debate about the improvement of the public Authority action in the hazard management

with the most recent advances in hazard and risk evaluation and mapping and in the early warning techniques: national and local experiences

13:00-14:30

Lunch Break

14:30-18:00

Mediateca della Provincia

Lectures of invited speakers

Prof. D. Amirano

On the use of acoustic emission and seismic monitoring for assessing the stability of rock slopes

Dr. P. Reichenbach

Use of remote sensing for landslide susceptibility zonation

Dr. G. Lolino, D. Giordan, P. Allasia, A. Manconi

Multi-Instrumental Methodology for the landslide Monitoring: The Montaguto case history

Prof. A. Puzrin

Case studies of constrained creeping landslides in Switzerland

Prof. D. Alexander

Emergency management, disaster risk reduction and resilience

Dr. P. Fattini

Local scale multiple quantitative risk assessment and uncertainty evaluation in densely urbanized area

(Brescia, Italy)

Saturday, 4th May 2013

Visit to the historical landslides in the Lucanian

Apennines (Craco, Aliano, Pisticci). Departure at 8:30

Return to Matera at 17:00