

Natural and anthropic systems have voices and languages. Nowadays it is not difficult to intercept voices thanks to the development of analytical methods and sensor technology; the decoding of language, the communication of these voices, is more difficult. In particular, the problem is attributable to the language decoding in order to define if it contains messages of physiological normality or if it contains signals, often of small intensity, which must lead to the passage to the subsequent phases of risk management, attention and alert. This is further complicated by the risk perception and analysis by stakeholders and decision-making centre and by political and/or administrative management. Daily examples are: components of endemic environmental matrices, but unknown as such; physiological noise in rock masses, in whom are hidden those due to the propagation or beginning of new cracks; underground Cultural Heritages open to the public without adequate hazard analysis.

Some of the most quoted international experts have accepted the invitation to participate and share their experiences and the latest news in the field of their research. The attempt is to facilitate the transfer of best knowledge and technology into a safer systems management.

Scientific committee :

Prof David Amitrano, ISTerre, Université Grenoble Alpes, Grenoble.

Prof Nicola Casagli, Università degli Studi di Firenze.

Prof Giovanni B. Crosta, Università di Milano Bicocca, IAEG GNI President.

Prof Daniela Ducci, Università degli Studi di Napoli, IAH It. Chap. President.

Prof Mauro Fiorentino, DICEM, Università degli Studi della Basilicata.

Prof Antonella Guida, DICEM, Università degli Studi della Basilicata.

Dr Vincenzo Lapenna, CNR IMAA.

Prof Ignazio Marcello Mancini, SI, Università degli Studi della Basilicata.

Prof Mauro Maldonato, Università degli Studi della Basilicata.

Dr Luciano Masciocco, DST, Università degli Studi di Torino - SIGEA

Dr Guido Pasquariello, CNR ISSIA.

Prof Eugenio Scandale, Accademia Pugliese delle Scienze.

Prof Nicola Sciarra, Università di Chieti e Pescara.

Prof Francesco Sdao, SI, Università degli Studi della Basilicata.

Prof Vincenzo Simeone, Politecnico di Bari.

Prof Aurelia Sole, Università degli Studi della Basilicata Rector.

Prof Giuseppe Spilotro, DICEM, Università degli Studi della Basilicata.

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Accademia Pugliese delle Scienze



Fondazione Matera-Basilicata 2019



Ordine degli Ingegneri della Provincia di Bari

Requested support:



Regione Basilicata

REGIONE BASILICATA

Provincia di Matera

Comune di Matera

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Ordine Regionale dei Geologi della Basilicata

Ordine Regionale dei Geologi della Puglia

Ordine dei Chimici della Provincia di Matera

Organizing committee:

Dr Filomena Canora, Scuola di Ingegneria, UniBas, Potenza..

Dr Roberta Pellicani, DICEM, UniBas, Matera.

Dr Lucia Losasso, Scuola di Ingegneria, UniBas, Potenza.

Dr Ilenia Argentiero, DICEM, UniBas, Matera.

Dr Alessandro Parisi, DICATEch, Politecnico di Bari, Bari.

III International Workshop METHODS AND TECHNOLOGIES FOR ENVIRONMENTAL MONITORING AND MODELLING: EMERGING SIGNALS, RISK PERCEPTION AND MANAGEMENT



SEPTEMBER 14th, 15th and 16th, 2017

MATERA

Chiesa del Cristo Flagellato

organized by:



Dipartimento delle Culture Europee e del Mediterraneo



Università degli Studi della Basilicata



Scuola di Ingegneria

SEPTEMBER 14th, 2017

9:00 - 9:30 *Registration*

9:30 - 10:15 *Inaugural session*

Prof Ferdinando Mirizzi, Head of DICEM
Prof Ignazio Marcello Mancini, Head of School of Engineering
Prof Giovanni B. Crosta, IAEG GNI President
Prof Daniela Ducci, IAH Italian Chapter President
Prof Francesco Guadagno, AIGA President
Dr Antonello Fiore, SIGEA President
Avv Raffaello De Ruggieri, Mayor of Matera
Dr Marcello Pittella, President of Basilicata region
Prof Aurelia Sole, Università degli Studi della Basilicata Rector

10:15 - 10:30 *Keynote speech*
Prof Giuseppe Spilotro, DICEM

10:30 - 10:45 *Coffee break*

10:45 - 13:00 *Session 1*

*SOIL, ENVIRONMENT AND GROUNDWATER INTERACTIONS:
WHEN TROUBLES BEGIN*

CHAIRMAN: Prof Daniela Ducci
10:45 - 11:15 *Prof Benedetto De Vivo*
L'atlante geochimico d'Italia: la Basilicata
11:15 - 13:00 *Oral presentations*

13:15 - 14:45 *Lunch break*

15:00 - 18:00 *Session 2*

*PERCEPTION, ANALYSIS AND MANAGEMENT OF MULTIPLE SIGNALS
TO AVOID DISASTERS*

CHAIRMAN: Prof Nicola Casagli
15:00 - 15:30 *Prof David Alexander & Dr Gianluca Pescaroli*
New theory to help understand, monitor and manage
cascading disasters
15:30 - 16:00 *Prof Nicola Sciarra*
La gestione dell'emergenza frane in Abruzzo dopo la
recente crisi sismica e idrologica del gennaio 2017

16:00 - 16:20 *Coffee break*

16:20 - 17:45 *Oral presentations*

17:45 - 19:30 Guided tour: *RUPESTRIAN CHURCHES OF MATERA*

SEPTEMBER 15th, 2017

09:00 - 11:00 *Session 3*

In memory of Prof MARCO MUCCIARELLI

*CATCHING SMALL SIGNALS: INTEGRATED MONITORING AND
MODELS FOR HAZARD AND RISK EVALUATION*

CHAIRMAN: Prof Giuseppe Spilotro

09:00 - 09:15 *Marco's memory and teaching*

09:15 - 09:45 *Prof Giovanni Battista Crosta*

Issue on monitoring, modelling and early warning

09:45 - 11:00 *Oral presentations*

11:00 - 13:00 *Session 4*

MULTIPLE RISK IN CULTURAL HERITAGES

CHAIRMAN: Prof Francesco Sdao

11:00 - 11:30 *Prof Nicola Casagli*

Beni culturali e frane: casi di studio nel Mondo

11:30 - 12:00 *Dr Daniele Spizzichino & Dr Claudio Margottini*

Civiltà rupestri e rischi naturali

12:30 - 13:00 *Prof Paolo Frattini*

Multicriteria approach for risk analysis on Cultural
Heritage UNESCO sites in Europe

13:00 - 13:30 *Prof Vincenzo Simeone*

Condizionamenti geologico ambientali nello sviluppo e
salvaguardia del centro storico di Matera

13:30 - 14:45 *Lunch break and visit to: PALOMBARO LUNGO*

14:45 - 17:30 *Session 5*

LANGUAGES OF THE NATURAL SYSTEMS AND THEIR PERCEPTION

CHAIRMAN: Prof Giovanni Battista Crosta

14:45 - 15:15 *Prof David Amitrano*

The language of rock masses

15:15 - 15:45 *Prof Mauro Maldonato*

Uncertainty, Risk perception and Communication

15:45 - 17:30 *Oral presentations*

17:30 - 18:30 *Round-table discussion*

*COMMUNICATION BETWEEN THE KNOWLEDGES IN THE
MANAGEMENT OF LAND HAZARD*
MODERATOR:

Invited:

Presidents of Professional Associations
Regional and River Basin Authorities
Civil protection Authorities

SEPTEMBER 16th, 2017

08:30 - 15:00

*Field trip: MONTECAGLIOSO AND STIGLIANO LANDSLIDES,
CRIPTA DEL PECCATO ORIGINALE*

INFORMATION

IMPORTANT DATES

*30TH JUNE 2017 ABSTRACT SUBMISSION**
30TH JULY 2017 ACCEPTANCE OF ABSTRACT AND SCHEDULE
30TH AUGUST 2017 REGISTRATION

**Abstracts should be submitted to the official workshop e-mail:*

www.3intriskworkshop.unibas.it

A special issue is being arranged for this conference.

*All participants are kindly invited to prepare their manuscript and submit
it before the beginning of workshop.*

NOTE:

*The registration and participation to sessions are fee free, while the
participation to tours are subjected to a charge.*

FOR MORE INFORMATION: www.3intriskworkshop.unibas.it

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