



ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

il Direttore

**Istituto Nazionale di Geofisica
e Vulcanologia**

AOO INGV

Protocollo Generale - U

N° 0000611

del 15/01/2019



Al Centro Servizi per il coordinamento delle attività a supporto della Ricerca

Gestione WEB

Ai Direttori dei Dipartimenti

Ai Direttori delle Sezioni

Al Direttore della Direzione Centrale Affari Generali e Bilancio

All'Ufficio Bilancio

Al Dott. Fabio VILLANI

Al Dott. Vincenzo SAPIA

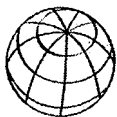
Al Dott. Luigi IMPROTA

Alla Segreteria della Presidenza

Oggetto: Pubblicità atti

Si notifica in copia l'allegata Delibera n. 756/2018 del 20/12/2018 – Allegato N al Verbale n. 11/2018 concernente: *Memorandum of Understanding* tra l'Istituto Nazionale di Geofisica e Vulcanologia (INGV) e l'Università di Ginevra – Sezione delle Scienze della Terra e Ambientali.

Tullio PEPE



Delibera n. 756/2018

Allegato N al Verbale n. 11/2018

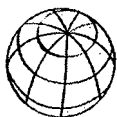
Oggetto: *Memorandum of Understanding* tra l'Istituto Nazionale di Geofisica e Vulcanologia (INGV) e l'Università di Ginevra - Sezione delle Scienze della Terra e Ambientali.

IL CONSIGLIO DI AMMINISTRAZIONE

- **VISTO** il Decreto legislativo 29 settembre 1999, n. 381, concernente la costituzione dell'Istituto Nazionale di Geofisica e Vulcanologia (INGV);
- **VISTO** il Decreto legislativo 25 Novembre 2016, n. 218, recante "*Semplificazione delle attività degli Enti Pubblici di Ricerca ai sensi dell'art. 13 della Legge n. 124/2015*";
- **VISTO** lo Statuto dell'Istituto Nazionale di Geofisica e Vulcanologia approvato con Delibera n. 424/2017 del Consiglio di Amministrazione, in data 15 settembre 2017 - pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana – Serie Generale n. 27 del 02 febbraio 2018 in particolare l'art. 8, comma 6, lettera f), il quale prevede che il CdA "*...delibera la partecipazione a società, fondazione e consorzi, nonché la stipulazione di accordi con organismi nazionali, europei e internazionali*";
- **VISTO** il Regolamento di Organizzazione e Funzionamento dell'Istituto Nazionale di Geofisica e Vulcanologia emanato con Decreto del Presidente n. 45 del 21/02/2018 e pubblicato sul sito istituzionale;
- **VISTO** il Regolamento di Amministrazione, Contabilità e Finanza pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana – Serie Generale n. 119 del 14 maggio 2018 e pubblicato sul sito istituzionale;
- **VALUTATA** l'opportunità di sottoscrivere il *Memorandum of Understanding* con l'Università di Ginevra;
- **CONSIDERATO** che le Parti, con il presente Memorandum, istituiscono una cooperazione internazionale, avente come obiettivo il *subsurface geophysical imaging* delle faglie attive presenti nell'area affetta dalla sequenza sismica del 2016-2017 in Italia centrale;
- **VISTI** i pareri favorevoli dei Direttori di Sezione e di Dipartimento,

DELIBERA

L'approvazione dello schema del *Memorandum of Understanding* tra l'Istituto Nazionale di Geofisica e Vulcanologia (INGV) e l'Università di Ginevra - Sezione delle Scienze della Terra e Ambientali, allegato alla presente quale parte integrante e sostanziale (all. 1).



Viene dato mandato al Presidente dell'INGV alla sottoscrizione definitiva dell'atto in questione.

Letto, approvato e sottoscritto seduta stante.

Roma, 20/12/2018

La segretaria verbalizzante
(Sig.ra Silvana TUCCI)

Silvana Tucci

IL PRESIDENTE
(Prof. Carlo DOGLIONI)

MEMORANDUM OF UNDERSTANDING

(hereinafter referred to as "MOU")

between

Istituto Nazionale di Geofisica e Vulcanologia

Via di Vigna Murata 605, 00143 Rome – Italy

(hereinafter referred to as "INGV")

and the

Université de Genève

Section of Earth and Environmental Sciences, Group of Crustal Deformation and Fluid Flow

24 rue du Général-Dufour, 1211 Genève 4 – Switzerland

(hereinafter referred to as "Unige")

(hereinafter jointly referred to as the "Parties")

concerning

Collaboration in the field of subsurface geophysical imaging of active faults in the area affected by the 2016-2017 seismic sequence in central Italy

Whereas the Parties, on the basis of this MOU, are mutually interested in developing and reinforcing their cooperation in the field of geophysical imaging of active faults in the area affected by the 2016-2017 seismic sequence in central Italy;

Whereas this MOU establishes a framework for this cooperation in joint investigations, international projects, scientific exchanges and training of specialized personnel in the field of subsurface geophysical imaging, on other subjects of mutual interest and their applications;

Whereas the Parties are participating to this MOU with a view to reinforce and strengthen the institutional links between the two organizations.

The Parties therefore have reached the following understanding:

BACKGROUND

INGV's main purposes are the study and monitoring of the processes governing the solid and fluid Earth and develop science focusing on the understanding of Earth main mechanisms, to assess the main natural hazards and contribute to their reduction as well as to collaborate with national and international research entities that are working in this field.

The Unige's Department of Earth Sciences is dedicated to the advancement of fundamental research as well as to its application to societal problems, such as the management of natural resources, the identification of risks posed by natural hazards, and the consequences of human activities on the environment. In particular, the Group on Crustal Deformation and Fluid Flow investigates crustal processes combining geophysical and numerical methods with geological observations: the main focus of this research is the high-resolution imaging of subsurface structures through acquisition, processing and inversion of electromagnetic, electrical resistivity and induced-polarization data by using innovative instruments and computational resources.

Article One

General objectives

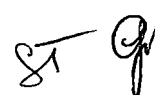
The objective of this MOU is to establish a framework for cooperation between the Parties based on equality, overall reciprocity and mutual benefits.

Article Two

Areas of interest

Cooperation under this MOU may include the following areas of interest, where appropriate:

Seismology and tectonics



1. Design and development of observation and imaging systems: subsurface imaging of active faults in central Italy, with particular focus on the area hit by the 2016-2017 Amatrice-Visso-Norcia seismic sequence (Castelluccio basin, Mt. Vettore area);
2. Seismic hazard: hazard assessment in seismically active areas;
3. Tectonics, earthquake geology, structural geology.

Article Three

Scientific supervisors

The Parties have designated the following scientific supervisors:

From INGV:

1. Dr. Fabio Villani and Dr. Vincenzo Sapia, researchers at INGV (scientific supervisors of the Task 1.2 of the INGV project named "*Project Top-Down FISR 2016 - L'Italia Centrale in 4D e ricostruzione dei processi geodinamici in atto*" - Task 1.2: *Sviluppo di prospezioni geofisiche e tecniche di misura innovative ad alta risoluzione per la caratterizzazione del sottosuolo e della deformazione di bacini continentali nell'area epicentrale della sequenza di Amatrice-Visso-Norcia* (hereinafter referred to as "*Project FISR*");
2. Dr. Luigi Improta, researcher at INGV (coordinator of the INGV project named "*Project Top-Down FISR 2016 - L'Italia Centrale in 4D e ricostruzione dei processi geodinamici in atto*")

From Unige:

1. Prof. Matteo Lupi, Assistant Professor at Unige.

Article Four

Scientific activities

The scientific activities described in this MOU are part of the research programme focused on shallow high-resolution geophysical investigations in the area hit by the 2016-2017 seismic sequence in Central Italy, and extensively described in the framework of the *Project FISR*.

In particular, INGV and Unige will cooperate to perform in the Castelluccio basin and Mt. Vettore areas several high-resolution and deep electrical resistivity tomography surveys with innovative instrumentation provided by Unige. The activities will include geophysical data collection, processing, inversion and interpretation of the obtained subsurface electrical resistivity and induced-polarization models.

Article Five

Funding and Financial Issues

INGV will provide funding for the overall scientific planning, operation, and management of the geophysical surveys in the study area (Castelluccio basin, Mt. Vettore area) in the amount of 3,000 Euro, taxes excluded, to the Section of Earth and Environmental Sciences, Group of Crustal Deformation and Fluid Flow. Financial resources are available in the framework of *Project FISR* (Task 1, funding code 0865.060, chief Dr. Luigi Improta).

INGV will pay the total amount of **3,000 Euro** (+ VAT where due) through bank transfer to the Section of Earth and Environmental Sciences - Group of Crustal Deformation and Fluid Flow, in order to cover all field costs supported by UNIGE.

Article Six

Results and Publications

Scientific works produced under this MOU by personnel of the two Parties can be made available to the general scientific community through international publications, seminars, lectures and conferences.

Article Seven

Intellectual Property Rights

1. Any intellectual Property Rights brought by one of the Parties for implementation of the cooperation activities under this MOU shall remain the property of the Party.

2. Each Party certifies that the intellectual property right is not resulted from the infringement of any third party's legitimate rights. Further, that Party shall be liable for any claim-made by any third Party on the ownership and legality of the use of the intellectual property rights which is brought in by the aforementioned Party for the implementation of the cooperation activities under this MOU.

3. Any intellectual Property Right, data and information resulting from research activities conducted under this MOU shall be jointly owned by the two Parties and both Parties shall be allowed to use such property for no-commercial purposes free of royalty.

4. Termination of this MOU shall not affect intellectual property rights and/or obligations linked to any data and information resulting from the activities conducted under this MOU, after termination.

Article Eight

Data Property and Data Policy

The data acquired by the equipment and materials purchased by each Party for the existing joint cooperation remain the property of the Party and will be shared between the Parties.

The policy of the data acquired by this equipment and materials for the existing joint cooperation follow the data policy of the equipment and materials owner Party.

Article Nine

Duration and Termination

1. This MOU shall enter into force upon signature and shall remain in force for an initial period of one year. This MOU will automatically be prolonged, provided funding for supporting research and field activities is available.
2. Either Party may terminate this MOU upon six months' written notice to the other Party / Parties.

Article Ten

Amendment

This MOU can be modified only by mutual written consent.

Article Eleven

Resolution of Conflicts

The Parties will attempt in good faith to resolve any controversy or claim arising out of, or relating to, this MOU.

If the Parties fail to resolve any such controversy or claim in the amicable fashion contemplated above, such controversy or claim will be submitted to the competent court.

Signed in two originals

for the Université de Genève	for the Istituto Nazionale di Geofisica e Vulcanologia
Vice-Rector: Prof. Brigitte Galliot	President: Prof. Carlo Doglioni
Date:	Date: