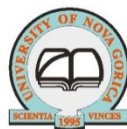




Città di Custonaci



United Nations  
Educational, Scientific and  
Cultural Organization



UNESCO Chair on Karst Education  
University of Nova Gorica in cooperation with  
ZRC SAZU Karst Research Institute



Cirs

# Inside and outside the Mountain

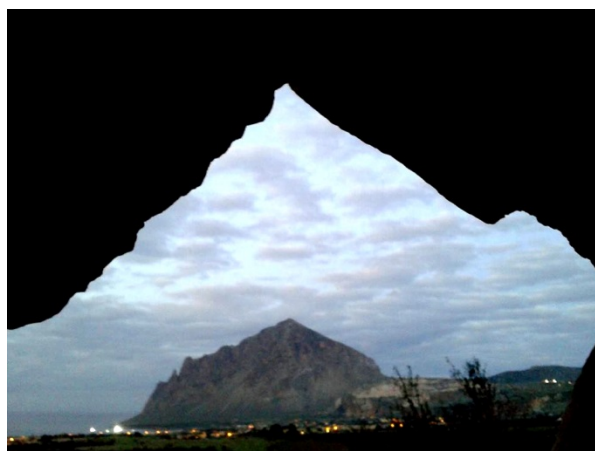
Information and excursions days on  
Geology - Karst & Palaeontology

## Sopra e sotto la Montagna

Giornate di incontri, divulgazione ed escursioni su  
Geologia - Carsismo & Paleontologia

**Custonaci 23<sup>rd</sup> - 26<sup>th</sup> April 2015**

2<sup>nd</sup> Circular



# Inside and outside the Mountain

Information and excursions days on geology, karst and palaeontology

**Custonaci 23<sup>rd</sup>-26<sup>th</sup> April 2015**

The City of Custonaci, in partnership with the CIRS Ragusa organizes days of meetings, dissemination activities and excursions on Geology, Karst and Palaeontology.

Not surprisingly, the event will be held in one of the most fascinating and spectacular landscapes of the Sicilian physical context, the Capo San Vito Mountains. The area, which includes keystone sites for studies on the geological history of Sicily and the central Mediterranean Basin, is of particular geomorphological-karst value for the high variety of its both surface and hypogeal morphologies. Some of these latter, having a considerable aesthetic value, proved to be of great scientific interest as rare archives of climate changes that occurred during the Pleistocene .

The conference, has been organized with the scientific support of Italian and foreign universities and research institutions. The study days will be organized in lectures, held by international specialists, and excursions on some aspects of the natural and earth sciences, and will end with a scientific symposium.

The event is aimed at people (including geologists, palaeontologists, biologists, naturalists professionals, cavers, enthusiasts, university and PhD students, as well as young researchers) dealing with geology and, particularly, with caves and their protection.

The conference participation is limited for logistic and organization reasons. It requires a pre-registration and payment of a € 35.00 fee, by April 15. A certificate of participation and credits will be given to students.

## **Contacts**

Informations and Registration: Segreteria CIRS: [info@cirs-ragusa.org](mailto:info@cirs-ragusa.org) - cell. +39 320 1898150

Logistics and Reservations: Antonella Adragna, Custonaci è Turismo - [www.custonaciinsicily.it](http://www.custonaciinsicily.it) - [press@custonaciinsicily.it](mailto:press@custonaciinsicily.it) – Mobile: + 39 333 3779908

# Program

Conference hall 'Stalla della Madonna Carmelo Solina Quartana'

**April 23<sup>rd</sup> Thursday**

**15.30:** Authorities welcome to the participants

- GIUSEPPE BICA, Mayor of Custonaci
- On. PAOLO RUGGIRELLO, Deputato Questore ARS

**Introduction to the event 'Sopra e sotto la Montagna'**

ROSARIO RUGGIERI, President of CIRS Ragusa

**The promotion of geological heritage: science, culture, profession**

GIANVITO GRAZIANO, President of the Ordine Nazionale dei Geologi

**16.30:** Lectures concerning **Geology**

**New data on the geology of western Sicily**

PIETRO DI STEFANO, PIETRO RENDA, GIUSEPPE NAPOLI, SIMONA TODARO, GIUSEPPE ZARCONE  
Dipartimento di Scienze della Terra e del Mare, Università di Palermo, Italy

**17.00-17.30: Coffee break**

**Plio-pleistocene deformations in NW Sicily**

GIUSEPPE NAPOLI  
Dipartimento di Scienze della Terra e del Mare, Università di Palermo, Italy

**Triassic paleokarsts in the Custonaci area**

SIMONA TODARO  
Dipartimento di Scienze della Terra e del Mare, Università di Palermo, Italy

**Criteria and geological constraints for the construction of the Geological Map of Sicily  
1:250.000**

FABIO LENTINI, SERAFINA CARBONE  
Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

**Paleomagnetism applied to the evolution of orogens. Paleomagnetism in the Sicilian  
Maghrebides: review of data and implications for tectonic styles**

ROSANNA MANISCALCO  
Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

**First *Homo sapiens* of Sicily**

LUCA SINEO  
Dipartimento di Biologia Ambientale e Biodiversità, Laboratorio di Antropologia, Università di Palermo, Italy

**20.00: Welcome party**

**21.30: Video projections**

## **April 24<sup>th</sup> Friday**

Field trip: **Geology of the San Vito Peninsula**, lead by P. Renda & C. Di Maggio

**08.30:** Meeting point and departure at parking Hotel Il Cortile

### **Conference hall ‘Stalla della Madonna Carmelo Solina Quartana’**

**15.00:** Lectures concerning **Karst geomorphology**

**Lithomorphogenesis of continental karren** - The study cases of Custonaci, Italy and Yunnan, China

MARTIN KNEZ<sup>1</sup>, TADEJ SLABE<sup>1</sup>, ROSARIO RUGGIERI<sup>2</sup>

1 Institute of Karst Research, Postojna,, Slovenia, 2 CIRS - Centro Ibleo di Ricerche Speleo-Idrogeologiche, Ragusa, Italy

**Lithomorphogenesis of Sea karren** - The study cases of Minamidaito island, Japan

MARTIN KNEZ, TADEJ SLABE

Institute of Karst Research, Postojna, Slovenia

**17.00-17.30: Coffee break**

**Genesis and evolution of Macro karst morphologies** - The study cases of the doline/polje of Slovenia

MITJA PRELOVŠEK

Institute of Karst Research, Postojna, Slovenia

**Genesis and evolution of Macro karst morphologies** - The study case of the »Purgatorio polje - Bufara doline - Cipollazzo Gorge« karst system.

ROSARIO RUGGIERI

CIRS - Centro Ibleo di Ricerche Speleo-Idrogeologiche, Ragusa, Italy

**19.00: Prizegiving naturalistic photo competition**

**20.00 - 21.00: Dinner break**

**21.00: Night excursion in the Clava cave**

**21.00: Custonaci theater**

**Entertainment / Rassegna di Prosa “I beati anni dell’innocenza”\***

\* Entertainment with special prize for registered participants of “Sopra e sotto la montagna” event.

# April 25<sup>th</sup> Saturday

Field trip: **Karst morphology** lead by T. Slabe - M. Knez & R. Ruggieri

**08.30:** Meeting point and departure at parking Hotel Il Cortile

- **Superficial and epikarst morphologies:** Bufara doline - Muciara dry valley - Purgatorio polje - Mt. Sparagio karrenfields and Stone Forest

- **Endokarst** morphologies: Abyss of Purgatorio (for expert cavers)

## Conference hall 'Stalla della Madonna Carmelo Solina Quartana'

**15.00:** Lectures concerning **Palaeontology & Dating of cave records**

### **Submarine caves in the coastal zone: ecological refuges and very special biodiversity hotspots**

JEAN-GEORGE HARMELIN

Station Marine d'Endoume, M.I.O. (Mediterranean Institute of Oceanography) & GIS Posidonie, Marseille, Francia

### **Fossil invertebrate associations from submarine caves**

ANTONIETTA ROSSO

Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

### **Stabilization role of microbialite in bioconstructions from submerged caves**

ADRIANO GUIDO

Dipartimento di Biologia, Ecologia e Scienze della Terra, Università della Calabria, Cosenza, Italy

### **Dating sea level and faunal evidence in Mediterranean coastal karst settings**

DAVID RICHARDS

School of Geographical Sciences, University of Bristol, United Kingdom

**17.00 - 17,30:** Coffee break

### **Quaternary fossil mammals of Sicily: the record from caves**

ANTONELLA CINZIA MARRA

Dipartimento di Fisica e di Scienze della Terra, Università di Messina, Italy

### **Cave terrestrial invertebrates**

GIORGIO SABELLA

Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

### **Fossil and modern bioconstructions organisms in the Custonaci area**

ROSSANA SANFILIPPO

Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

**Palaeoecological and taphonomical study of the microfaunal assemblage from Kleissoura Cave I, Peloponnese, Greece**

KOLENDRIANOU MARIA<sup>1</sup>, ILIOPOULOS GEORGE<sup>1</sup>, KOUMOUZELI MARGARITA<sup>2</sup>

1 Department of Geology, University of Patras, Patras Greece

2 Ephoreia of Palaeoanthropology and Speleology, Ministry of Culture, Greece

**21.30: Video-projections**

**April 26<sup>th</sup> Sunday**

**08.30: Plate apposition: Geosite of worldwide heritage ‘Grotta Rumena’**

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**Symposium ‘Inside and outside the Mountain’**

**11.30: Conference hall ‘Stalla della Madonna Carmelo Solina Quartana’**

**1<sup>st</sup> Session - Cave environments: present and past**

Conveners: Antonietta Rosso & Rossana Sanfilippo

**11.30-13.30: oral presentations**

Chairperson: SANFILIPPO R.

**Taphonomic analysis of some archaeological layers in San Lussorio cave (Romana, Sardinia, Italy). Environment and human lifestyle in prehistoric times**

CARENTI G.

Dipartimento di Scienze della Natura e del Territorio. Università di Sassari, Italy

**Morphological and biological evidences of an Upper Pleistocene shoreline inside a cave near Taormina (north-eastern Sicily)**

BONFIGLIO L.<sup>1</sup>, SANFILIPPO R.<sup>2</sup>, ROSSO A.<sup>2</sup>, RICHARDS D.<sup>3</sup>

1 Fauna Museum, Annunziata Academic Centre, Università di Messina, Italy

2 Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

3 School of Geographical Sciences, University of Bristol, United Kingdom

**Evaluating marine cave biodiversity in the eastern Mediterranean Sea**

GEROVASILEIOU V.<sup>1,2</sup>, VOULTSIADOU E.<sup>1</sup>

1 Department of Zoology, School of Biology, Aristotle University of Thessaloniki, Greece

2 Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Crete, Greece

**Autochthonous vs detrital micrite in the biotic crusts of the Rumena Cave (Custonaci, Sicily)**

GUIDO A.<sup>1</sup>, ROSSO A.<sup>2</sup>, SANFILIPPO R.<sup>2</sup>, MASTANDREA A.<sup>1</sup>, RUSSO F.<sup>1</sup>

1 Department of Biology, Ecology and Earth Sciences, Università della Calabria, Italy

2 Department of Biological, Geological and Environmental Sciences, Università di Catania, Italy

## **How studying caves has changed our ideas of how evolution works: examples from across the Mediterranean**

HERRIDGE V.<sup>1</sup>, RICHARDS D.<sup>2</sup>, RHODES E.<sup>3</sup>, BONFIGLIO L.<sup>4</sup>, MANGANO G.<sup>4</sup>, INSACCO G.<sup>5</sup>, BORG J.J.<sup>6</sup>, ILIOPOULOUS G.<sup>7</sup>

1 Department of Earth Sciences, Natural History Museum, London, SW7 5BD, UK

2 School of Geographical Sciences, University of Bristol, Bristol, BS8 1SS, UK

3 Department of Geography, University of Sheffield, UK

4 Fauna Museum, Università di Messina, Italy

5 Museo Civico di Storia Naturale, Comiso, Italy

6 National Museum of Natural History, Mdina, Malta

7 Department of Geology, University of Patras, Greece

## **The Balearic Islands cave goat (*Myotragus Bate, 1909*): a model for understanding the evolutionary trends on islands**

JORDANA X.<sup>1</sup>, KÖHLER M.<sup>2</sup>

1 Institut Català de Paleontologia Miquel Crusafont (ICP), Universitat Autònoma de Barcelona, Spain

2 ICREA at ICP, Spain

## **Quaternary vertebrate sites from the San Vito Lo Capo Peninsula**

Marra A.C.<sup>1</sup>, Di Maggio C.<sup>2</sup>, Masini F.<sup>2</sup>, Petruso D.<sup>2</sup>, Ruggieri R.<sup>3</sup>

1 Dipartimento di Fisica e di Scienze della Terra, Università di Messina, Italy

2 Dipartimento di Scienze della Terra e del Mare, Università di Palermo, Italy

3 CIRS - Centro Ibleo di Ricerche Speleo-Idrogeologiche, Ragusa, Italy

## **The precious red coral, *Corallium rubrum* (Linnaeus), a fascinating component of Mediterranean cave communities**

HARMELIN J.-G.

Station Marine d'Endoume, M.I.O. (Mediterranean Institute of Oceanography) & GIS Posidonie, Marseille, France

**13.30-15.00:** lunch break

**15.00-17.00:** oral presentations

Chairperson: MARRA A.C.

## **Bryozoans from shallow-water submarine caves of Capo Caccia (Sardinia, Italy)**

DI MARTINO E.<sup>1</sup>, ROSSO A.<sup>1</sup>, SANFILIPPO R.<sup>1</sup>, DI MARTINO V.<sup>2</sup>

1 Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

2 ISAFOM/Consiglio Nazionale Ricerche, OU Catania, Italy

## **Faunal remains from Grotta Verde, Alghero (Sardinia)**

MASALA S.

Department of Science for Nature and Environmental Resources (DIPNET), Università di Sassari, Italy

## **New data on morphology and geographic distribution of the genus *Petrobiona* (Porifera: Calcarea)**

MELIS P.<sup>1</sup>, CAEDDU B.<sup>1</sup>, LEDDA F.D.<sup>2</sup>, MANCONI R.<sup>1</sup>

1 Department of Science for Nature and Environmental Resources (DIPNET), Università di Sassari, Italy

2 Center of Integrative Biology (CIBIO), Università di Trento, Italy

### **Visitation and conservation of marine caves**

PETRICIOLI D.<sup>1</sup>, BUZZACOTT P.<sup>2</sup>, RADOLOVIĆ M.<sup>3</sup>, BAKRAN-PETRICIOLI T.<sup>3</sup>, GEROVASILEIOU V.<sup>4,5</sup>

1 D.I.I.V. Ltd., Department for marine, freshwater and subterranean ecology, Croatia

2 School of Sports Science, Exercise and Health, University of Western Australia M408, Australia

3 University of Zagreb, Faculty of Science, Division of Biology, Zagreb, Croatia

4 Department of Zoology, School of Biology, Aristotle University of Thessaloniki, Greece

5 Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Crete, Greece

### **Lithistid sponges from submarine caves: are they really relict?**

PISERA A.<sup>1</sup>, VACELET J.<sup>2</sup>, PEREZ T.<sup>2</sup>

1 Institute of Paleobiology, Polish Academy of Sciences, Warszawa, Poland

2 Institut Méditerranéen de la Biodiversité et d'Ecologie marine et continentale, Station Marine d'Endoume, Marseille, France

### **Pleistocene cave communities from the Capo Milazzo Peninsula (north-eastern Sicily)**

ROSSO A.<sup>1</sup>, SANFILIPPO R.<sup>1</sup>, VERTINO A.<sup>2</sup>, ZIBROWIUS H.<sup>3</sup>

1 Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

2 Dipartimento di Scienze della Terra e dell'Ambiente, Università di Milano-Bicocca, Milano, Italy

3 Formerly at the Station Marine d'Endoume, Marseille, France

### **The submarine caves: a natural laboratory to brachiopods study**

RUGGIERO E.<sup>1</sup>, GARGIULO M.<sup>2</sup>

1 Università "Federico II", Napoli, Italy

2 Corso Italia 246/h - Sorrento, Italy

### **Endo- and epilithic faunal succession in a Pliocene-Pleistocene cave on Rhodes, Greece - record of a transgression**

STEINTHORSDDOTTIR M.<sup>1</sup>, HÅKANSSON E.<sup>2</sup>

1 Department of Geological Sciences & Bolin Centre for Climate Research, Stockholm University, Sweden

2 UWA Centre for Energy Geoscience, School of Earth & Environment, The University of Western Australia, Perth, Australia

**17.00-17.45:** coffe break and poster session

## **2<sup>rd</sup> Session: Conservation Protection and Fruition of Geosites**

Conveners: TADEJ SLABE & ROSARIO RUGGIERI

**17.45-19.45**

### **Quality of waters in karst aquifers and protection strategies**

ROCCO FAVARA

Istituto Nazionale di Geofisica e Vulcanologia, Palermo, Italy

### **L.R. 25 – from promulgation to the execution: geosites of geological interest and existing geosites**

ELGA ARINI, ROSANNA GIORDANO, GAETANA LO CASCIO

Assessorato Territorio e Ambiente, Regione Siciliana, Palermo, Italy

### **Karst Gosites of Custonaci: 'Karst and Speleological Park of Piano Zubbia and Rumena cave'**

ROSARIO RUGGIERI, DAVIDE MESSINA PANFALONE, PAOLO VULTAGGIO

CIRS - Centro Ibleo di Ricerche Speleo-Idrogeologiche Ragusa, Italy



## **The Late Miocene Diatremes of Northern Hyblean Mts. (Se Sicily): The Geosite of Costa Giardini (Sortino - Syracuse)**

SERAFINA CARBONE<sup>1</sup>, ALBERTO PISTORIO<sup>2</sup>, FABIO C. MANUELLA<sup>1</sup>

<sup>1</sup> Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università di Catania, Italy

<sup>2</sup> Funzionario A.R.T.A., Regione Siciliana, Palermo, Italy

## **Geodiversity: Karst area. Environmentally friendly tourist development and enjoyment of geosites**

ALESSIO FABBRICATORE, direttore Museo scientifico speleologico Grotta Gigante Trieste

## **Worldwide geosites in the Peloritani chain (north-eastern Sicily, italy)**

ANTONIA MESSINA., CATERINA GALLO, VERONICA MANZELLA, ROSARIO TORRE

Dipartimento di Fisica e Scienze della Terra, Università di Messina, Italy

## **Conclusion**

### **20.00: Closing party at Grotta Mangiapane**

Tasting of typical local foods

(Associazione Museo Vivente - Gruppo Folk Cala Bukutu)

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### **Side Events (23-26 April)**

- 1. Exposure photo of “Sopra e sotto la Montagna” (see Attached 1)**
- 2. Stand - Exhibition of popular and scientific books on natural themes (see Attached 2)**
- 3. Visit of karst caves (Abisso del Purgatorio)\***
- 4. Trekking / canyoning (Mt. Cofano / Cipollazzo gorge)\***

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### **Post Symposium field-trips\***

**April, 27<sup>th</sup> Monday**

Field-trip: **Karst morphology of the Zingaro Natural Reserve**

**April, 28<sup>th</sup> Tuesday**

Field trip: **Nebrodi Regional Park - Grotta del Lauro**

**April, 29<sup>th</sup> Wednesday**

Field trip: **Gypsums of the Agrigento area - Vallone del Ponte**

**April, 30 Tuesday**

Field trip: **Iblei region** (south-eastern Sicily)

**Valle dell'Anapo e Pantalica - Cava Grande del Cassibile - Valle del Tellesimo**

**\* Participation to the trekking and caves excursions requires a pre-registration and will be accepted if a minimum of participants is achieved. For information contact: [info@cirs-ragusa.org](mailto:info@cirs-ragusa.org)**

\* La partecipazione alle escursioni trekking e in grotta richiede una pre-iscrizione e verranno effettuate al raggiungimento di un minimo di partecipanti. Gli interessati possono richiedere informazioni o pre-isciversi contattando la segreteria del CIRS ([info@cirs-ragusa.org](mailto:info@cirs-ragusa.org)).

The above program may suffer irrevocable changes, by the Organizing Committee, due to reasons of force majeure

**Il programma su esposto può essere soggetto a insindacabili variazioni da parte del Comitato organizzatore, se determinate circostanze lo richiederanno o per sopravvenuti motivi di forza maggiore.**

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### **Scientific participations**

Unesco Chair for Karst education - University of Nova Gorica  
Karst research Institute ZRC SAZU, Postojna, Slovenia  
University of Palermo, Italy  
University of Messina, Italy  
University of Catania, Italy  
University of di Bristol, United Kingdom  
University of Patras, Greece  
Natural History Museum, United Kingdom  
Istituto Nazionale di Geofisica e Vulcanologia, Palermo, Italy  
Station Marine d'Endoume, Marseille, France  
Institut Català de Paleontologia, Barcelona, Spain

### **Istitutional Patronages**

Regione Siciliana  
Comune di Custonaci

### **Cultural Patronages**

Consiglio Nazionale dei Geologi  
Unione Internazionale di Speleologia  
Società Speleologica Italiana  
Federazione Speleologica Regionale Siciliana  
Società Paleontologica Italiana  
Accademia Gioenia di Scienze Naturali in Catania  
Sigea

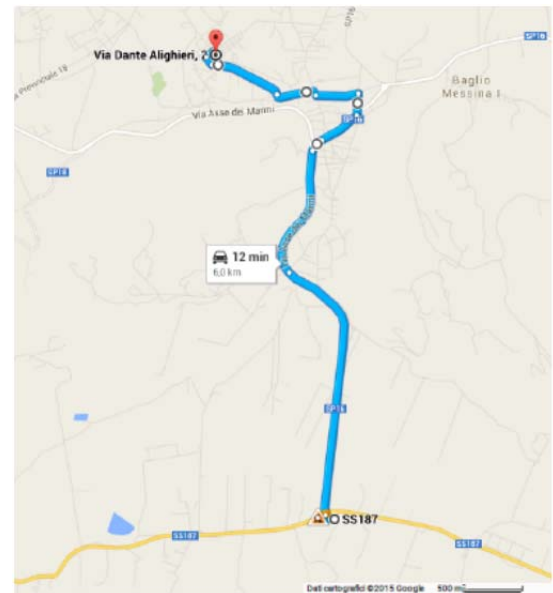
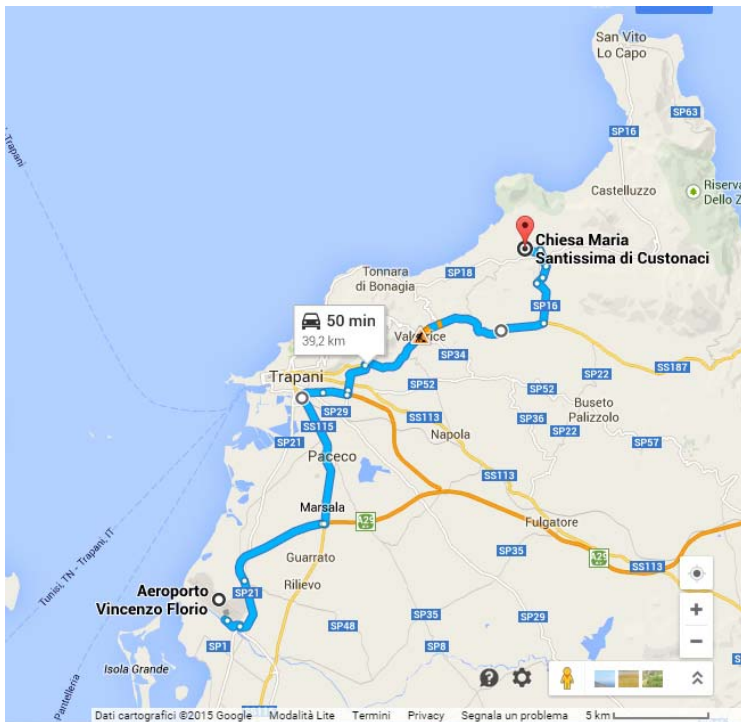
## HOW TO REACH US

You can arrive by flight through the Trapani Birgi “ Vincenzo Florio” airport (47 km aside, about 47 minutes by car) or the Palermo “Borsellino” airport 73 km aside, about 1 hour and 5 minutes by car. Fly to Trapani is the better because this airport is closer to Custonaci and flight prices are usually cheaper.

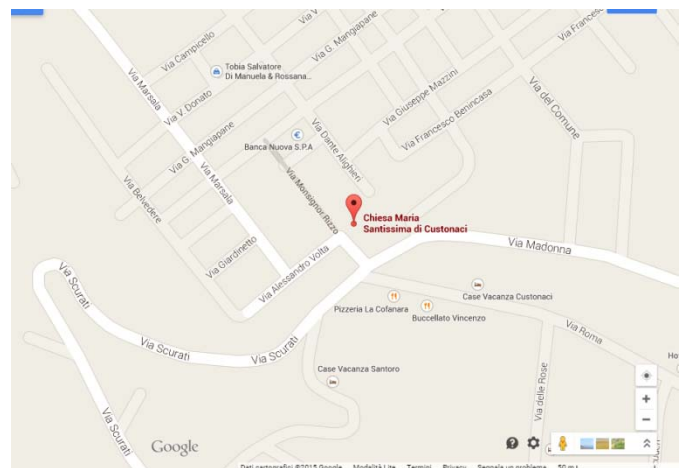
From Trapani airport you can reach Custonaci by bus through Autolinee AST (Azienda Siciliana Trasporti). Visit [www.airgest.it](http://www.airgest.it) for further information.

From Palermo you can reach Custonaci by bus through [Autolinee Prestia e Comandè](#) to the Palermo Railway Central Station and then through [Autolinee Segesta](#) to Trapani and through Autolinee AST from Trapani to Custonaci. Visit [www.gesap.it](http://www.gesap.it) for further information.

From both these airports (Trapani and Palermo) you can reach Custonaci by transfer agreement, within this event contacting [press@custonaciinsicily.it](mailto:press@custonaciinsicily.it) or phone + 39 333-3779908.



Road from Trapani airport to Custonaci city



Location of Symposium in Custonaci city