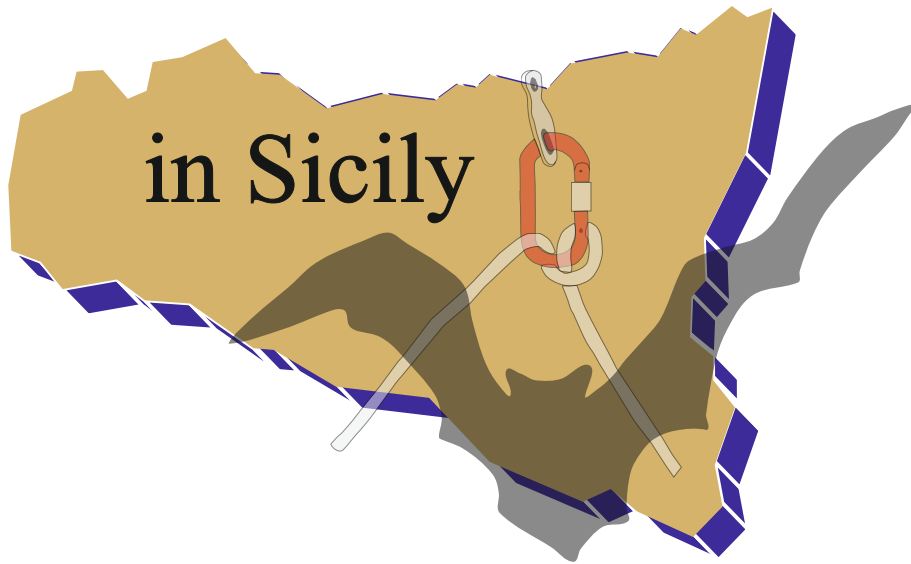


# Man and Karst 2019



**International Scientific Conference**  
June 24<sup>th</sup> - 26<sup>th</sup> Ragusa, Italy

## PROGRAM & ABSTRACTS



## PROGRAM

### MONDAY 24 JUNE

8.00 - Pullman departure to Donnafugata Castle

#### Donnafugata Castle

8.30 - Registration

9.00 - Welcome of the authorities to the participants

<i>Giuseppe Cassì</i>	<i>Mayor of Ragusa</i>
<i>Giuseppe Piazza</i>	<i>Commissioner of Libero Consorzio Comunale di Ragusa</i>
<i>Carmelo Monaco</i>	<i>Director of Dipartimento di Scienze Biologiche, Geologiche e Ambientali Università degli Studi di Catania</i>
<i>Giuseppe Collura</i>	<i>President of Ordine Regionale Geologi di Sicilia</i>
<i>Giovanni Signorello</i>	<i>Director of Cutgana</i>
<i>Franci Gabrovšek</i>	<i>ZRC SAZU, Karst Research Institute Postojna, Slovenia</i>

#### Presentation of the event

*Rosario Ruggieri*     *President of CIRS Ragusa*

#### Sala degli Stemmi: Open of Sessions

### I SESSION: Karst geomorphology

9.45 - **A new on-site experiment to estimate the evaporate dissolution rate:  
the real case-study of Quinis (NE Italy).**

Calligaris Chiara, Cucchi Franco, Lenaz Davide, Petrini Riccardo, Forti Paolo, Zini Luca,  
Ghezzi Lisa, Buseti Alice, Terribili Luca.

10.00 - **Morphologies of a karst area: from scientific interest to public fruition.**

F. Finocchiaro, M. Ferneti, F. Cucchi.

10.15 - **Combined river paleo-long profile modelling and hanging fluvio-karst  
morphologies distribution as a tool for regional analysis of active tectonic deformation.**

Pavano F., Lo Furno G., Paternò G., Romagnoli G., Salerno A., Tortorici G., Catalano S.

10.30 - **The lake depressions of Serradifalco (central-southern sicily):  
a geomorphological study of an urbanized karst area.**

Matteo Crucillà, Enrico Curcuruto, Giuliana Madonia

10.45 - **Outlining the principles of carbonate rocks denudation rate  
Kupa River catchment case study.**

Ivana Boljat, Josip Terzić, Jasmina Lukač Reberski, Ana Selak

11.00 - *Coffee break*



## II SESSION: Geology and karst hazard

- 11.30 - **Neogene - Quaternary evolution of the Hyblean Plateau: Geological, morphological and Tectonic aspects.**  
Romagnoli G., Lo Furno G., Paternò G., Pavano F., Salerno A., Tortorici G., Catalano S.
- 
- 11.45 - **Hazard in the karst areas in Sicily: “Case history” in the plain of Cinisi (Palermo)**  
Vincenzo Liguori
- 
- 12.00 - **Main lithotypes employed in the Baroque cities of the Hyblean area: an overview.**  
Rosalda Punturo, Eugenio Fazio, Rosanna Maniscalco, Rosolino Cirrincione
- 
- 12.15 - **New evidence of the tectonic inversion in the Hyblean Plateau.**  
Catalano S., Lo Furno G., Paternò G., Pavano F., Romagnoli G., Salerno A., Tortorici G.
- 
- 12.30 - **Geoelectric- Resistivity Investigation of The Structure of Karst Cavities in Sidi Al-Hemri Area, SE - Al-Bayda City.**  
Saad M. El-Shari
- 
- 12.45 - **Structural effect on Al Coeffiah-Ayn Zayanah groundwater karstic system in Benghazi plain, al Jabal al Akhdar, NE Libya.**  
Fathi M. Salloum, Maher A. El Amawy, Ahmed A. Al Amin, Moftah H. El-Shawaihdi, Ahmed M. Muftah, Mohammed H. Al Riaydh
- 
- 13.00 - **Geology of the rupestrian town “Sassi di Matera” (Italy), European Capital of Culture 2019.**  
Marcello Tropeano, Luisa Sabato, Vincenzo Festa, Claudio I. Casciano, Domenico Chiarella, Salvatore Gallicchio, Sergio G. Longhitano, Massimo Moretti, Luigi Spalluto
- 
- 13.15 - *Lunch break*

## III SESSION: Karst hydrogeology and water protection

- 15.00 - **Evaluation of the transfer of pollutants from groundwater body of “Castelvetro-Campobello di Mazara Plain” (Trapani - Italy) to the interconnected lakes of karstic origin “Preola, Murana and Gorgi Tondi” and estimate of related impacts on their environmental quality status.**  
Anna Abita, Virginia Palumbo, Marco Nicolosi, Santino Pellerito, Nunzio Costa.
- 
- 15.15 - **The hydrokarst system of the cave-springs “Oro-Misericordia” a singular case-study of pollution in the hyblean Mountains (South-eastern Sicily)**  
Rosario Ruggieri
- 
- 15.30 - **Water protection in karst areas: the example of “Vorra Bosco” in Salento (Italy).**  
Mazzei M., De Salve F., Parise M., Martellotta M.
- 
- 15.45 - **Quantitative characterization of karst hydrogeological systems: Challenges and solutions.**  
Attila Kovács

16.00 - **Epiphreatic flow in Karst Aquifers: Concepts, Models and Field Cases.**

Franci Gabrovšek

16.15 - **Impacts of multi-pollution sources of groundwater on health and environment in Ras Almingar area, Benghazi-Libya.**

Saad K. El Ebaidi, Ahmed M. Muftah and Alriaydh Mohamed.

16.30 - *Coffee break*

**IV SESSION: Caves conservation and Speleology**

17.00 - **Armenian Karst Project, 2<sup>nd</sup> phase: karst surveys in the Region of Ijevan and Lori (North-eastern Armenia).**

Rosario Ruggieri, Smbat Davtyan, Riccardo Orsini

17.15 - **Some new interesting caves opened by man activity in Dinaric karst of Croatia.**

Davor Garašić & Mladen Garašić

17.30 - **Cerkniško jezero (The Lake of Cerknica) and Kircher's Theory about Hydrophilacia.**

Andrej Kranjc

17.45 - **Evaluation of the Carrying Capacity of the Monello cave (SE-Sicily): preliminary results.**

Cirriuncione R., Costanzo S., Tortorici G., Signorello G.

18.00 - **Lampenflora**

Fabbricatore Alessio

18.15 - **Caves, rock shelters and subterranean water systems: Sites of ritual significance in the highlands of Papua New Guinea.**

Henry Dosedla, Natalie Uomini

18.30 - **The role of Groundwater and rain waters in karstification of Al Jabal al Akhdar, Northeast Libya: A Hydrogeochemical Appraisal.**

Mohamed S. E. Al Faitouri, Osama A. El Fallah, Hasan El Shaafi, Fathi M. Salloum, Ahmed M. Muftah

18.45 - **Degassing driving crystallization of plagioclase phenocrysts in lava tube stalactites on Mount Etna (Sicily, Italy).**

Gabriele Lanzafame, Carmelo Ferlito

19.00 - **Clean up the dark - A proposal for a european network for cave cleaning and protection.**

Ferdinando Didonna, Francesco Maurano, Bärbel Wogel, Sarah Linders

19.15 - **Visit of the Donnafugata Castle**

20.15 - **Welcome party for CIRS 45th Anniversary Celebration**

23.00 - Pullman departure to the Hotels

**TUESDAY 25 JUNE**

8.00: Pullman departure to Donnafugata Castle

**Donnafugata Castle**

8.30 - Registration

**V SESSION: Protection and fruition of Karst Geosites**

8.45 - **An extensive chemical, faunistic and microbial monitoring of sulfidic spring in Monte Conca sinkhole.**

Salvatore Petralia, Giuseppe Nicolosi, Fiorenzo Fiorenza, Francesco Leone, Maria Anna Messina.

9.00 - **200 years of cave exploration, karstological research and tourism in Škocjan Caves, Slovenia.**

Rosana Cerkenik

9.15 - **Habitat maps in karst landscape geocological assessment – example of Mountainous Croatia.**

Nenad Buzjak, Suzana Buzjak, Valerija Butorac

9.30 - **Management of caves in geoparks, case studies in Danube Geoparks in GeoTour project.**

Martina Stupar

9.45 - **Toward enactment of the British Columbia Cave Protection Act: a 45-year history of advances and setbacks.**

Paul A. Griffiths, Carolyn L. Ramsey

10.00 - **Nature conservation and agriculture in the kras (Slovenia).**

Anica Cernatič Gregorič, Astrid Ličen

10.15 - **Hydrological and morphological changes caused by natural breaking of tufa barrier in Plitvice Lakes National Park.**

Kazimir Miculinić, Nikola Markić, Sanja Žalac, Andrijana Brozinčević

10.30 - **Future regional hot-spot for science and education of caves and karst**

**“Center of excellence - Cerovac caves: sustainable management of natural heritage and karst underground”.**

Stipe Tutiš, Petra Kovač Konrad, Dalibor Jirkal, Matea Talaja, Nina Trinajstić

10.45 - **Microplastic pollution in Slovenia Karst.**

Lara Valentic

**11.00 - Coffee break**



## VI SESSION: Archaeology and paleontology in karst caves

11.30 - **Rupestrian sanctuaries in the prehistoric Sicily - The hyblean area: the case of Grotta Lazzaro (Modica).**

Giovanni Distefano

---

11.45 - **Turning a structural-karst cave into a mine: how the Romans exploited the gypsum crystals of lapis specularis in the Grotta Inferno complex (Agrigento, Sicily).**

Stefano Lugli, Rosario Ruggieri, Nuccia Gulli

---

12.00 - **Miraculous milk caves (Lattaie) of Italy.**

Ann Pizzorusso

---

12.15 - **The oldest drawings and inscriptions in caves and rocks in Bosnia and Herzegovina.**

Jasminko Mulaomerović

---

12.30 - **“Ice House” - the first safe founding on the mountain Visočica in southern Bosnia.**

Jasminko Mulaomerović

---

12.45 - **The contribution of karst sites in the knowledge of Quaternary mammals of Sicily.**

Antonella Cinzia Marra

---

13.00 - **Reassessment of age and identification of a relatively complete large felid fossil in Gua Naga Mas, Perak, West Malaysia.**

Ros Fatihah Muhammad

---

*13.15 - Lunch break*

## POSTER SESSION

**14.30 - Start of the session**

---

**Hydrologically the most important water resource in the croatian karst.**

Maja Oštrić, Maja Radišić, Josip Rubinić

---

**Soil radon concentration in the Ragusa province (Sicily, Italy)**

Marianna Siino, Giuseppe Alessandro, Salvatore Buonmestieri,  
Antonino D'Alessandro, Rosario Mineo, Salvatore Scudero

---



**Vulnerability of karst sites: natural reserve grotta di Sant'Angelo Muxaro and the problems related to the city above the protected vault. (Sant'Angelo Muxaro - Agrigento)**

Giovanni Buscaglia - Daniele Gucciardo - Marco Mariano Interlandi  
Giuseppe Lombardo - Giovanni Noto

---

**Criteria of groundwater protection in a coastal karst region of North-western Sicily.**

Cimino Antonio & Abbate Rosario

---

**The karst geomorphology of the central Middle Atlas (Morocco): Towards a heritage valuation.**

Khaoula Baadi, Abdellah Sabaoui, Bernard Lebreton, Brahim Tekiout.

---

**Diversity and community structure of Ephemeroptera,  
Plecoptera and Trichoptera in rivers Ruda and Grab**

Cvitanić M, Meknić S, Piasevoli G.

---

**Clay mineralogy and magnetic susceptibility of a possible sedimentary record of Bronze Age deforestation practices in a karst area of SW Romania.**

L.Faur, I. C. Mirea, C. Panaiotu, B. Soare, V. Drăgușin.

---

**The Geomorphological Response of Siliclastic and Carbonate Rocks to Fluvial Erosion. The case of the Gravina Creek Drainage Basin (Southern Italy).**

Claudio I. Casciano, Domenico Capolongo, Marcello Tropeano

---

**Tracing ancient rural landscapes in southeastern Sicily: integrating new and traditional survey methods within the Hidden Archaeological Hyblaean Landscapes Project (HAHLP).**

Rodolfo Brancato, Saverio Scerra, Edoardo Tortorici.

---

**Ancient artefacts in the Hyblean Plateau: a puzzling case study from the Palagonia area.**

Rosalda Punturo, Giovanni Sturiale, Carmela Vaccaro, Rosanna Maniscalco, Rosolino Cirrincione.

---

**Mills on old postcards from Bosnia and Herzegovina - water, man, karst -**

Mirnes Hasanspahić

---

**Use of unroofed cave for recognition of neotectonic deformations of karst surface - case study of the unroofed cave Loza, W Slovenia.**

Astrid Svara, Jože Čar, Andrej Mihevc

---

**A miniaturized chemical sensor for the monitoring of sulfide species on water caves.**

Salvatore Petralia, Sabrina Conoci, Emanuele L. Sciuto, Francesca Santangelo,  
Sebania Libertino, Maria Anna Messina, Giuseppe Nicolosi, Fiorenzo Fiorenza

---

**Faunistic study of the “inghiottitoio Monte Conca”**

Giuseppe Nicolosi, Sandro Galdenzi, Fiorenzo Fiorenza, Francesco Leone,  
Maria Anna Messina, Salvatore Petralia, Serban M. Sarbu.

---

**Geo-tourism: Karstic geosites in Libya**

El-Shawaihdi M. H, Salloum F. M, Awami Y. M.

---



**Karst Geosites of the Favignana island**

Rosario Ruggieri, Antonio Bambina, V. Davide Messina Panfalone, Flaminia Asta, Antonello Ingallinera, Giovanni Gianninoto, Roberto Gintoli, Giorgio Sammito, Giusi Adragna, Paolo Vultaggio, Andrea Barone, Riccardo Orsini, Tonino Trovato, Paolo Costanzo.

---

**The karst on the selenitic gypsum of the San Bartolomeo hydrogeological basin (Calatafimi, TP) related to the geochemistry of the waters of the "Fiume caldo": speleology as a method of deepening**

Roberto Grammatico, Luigi Fontana, Rosario Bonventre

---

**FIELD TRIP**

15.30 - Departure for Field Trip: Geosite asphalt mine of Tabuna and limestone mine of Cava Gonfalone

---

17.30 - Welcome refreshment by Ragusa Cementi Spa

---

18.30 - Pullman departure for Ragusa Ibla town

---

19.00 - Visit of old town of Ragusa Ibla (Barocco UNESCO World Haeritage)

---

20.30 - Free dinner

---

23.00 - Pullman departure to Hotel Ragusa

---

**WEDNESDAY 26 JUNE: FULL DAY EXCURSION**

7.30 - Departure for field trip of Pantalica Natural Reserve (Ferla town side)

---

9.00 - Valle dell'Anapo - Necropoli of Pantalica - Calcinara gorge excursion

---

12.00 - Departure to Monello Cave

---

13.00 - Welcome light lunch by Cutgana

---

14.00 - Visit of Monello Cave (Natural Reserve) and Chiusazza Cave

---

17.00 - Departure for return to Ragusa

---

20.00 - Pullman departure for Visit of Scicli town (Barocco UNESCO World Haeritage)

---

**Events: Gala reception at the Monumental sixteenth century Convento della Croce  
Photo Contest award**



## Man and Karst 2019

in Sicily

International Scientific Conference  
June 24<sup>th</sup> - 26<sup>th</sup> Ragusa, Italy

### SIDELINE EVENTS OF MAN AND KARST

1. Photo Contest (Geology and Karst landscapes)
2. Books showroom
3. Posters exhibition

### POST CONFERENCE EXCURSIONS

**Thursday 27 June** (see excursion sheet)

“Realmonte mine, Scala dei Turchi, Agrigento archaeological Park”

**Friday 28 June** (see excursion sheet)

“Valle del Bove and lava tube cave in the Mount Etna Volcano