CONGRESS SCHEDULE

From March, 11 (Wednesday) to March, 13 (Friday)
INTERNATIONAL CONGRESS SESSIONS
CNR- Consiglio Nazionale delle Ricerche - Sala Marconi
Piazzale Aldo Moro, 7 - Rome (Italy)

March, 14 (Saturday)
DISCUSSION MEETING *(Italian language)*
COMUNE DI ROMA - Musei Capitolini - Sala
Pietro da Cortona
Piazza del Campidoglio, 1 - Rome (Italy)

March, 15 (Sunday): GUIDED TOUR “THE HYPOGEA OF THE ALBAN HILLS”
March, 16 (Monday): GUIDED TOUR “SABINA UNDERGROUND”
March, 17 (Tuesday): GUIDED TOUR “NARNI UNDERGROUND”
WITH THE PATRONAGE OF

INTERNATIONAL UNION OF SPELEOLOGY

SOCIETÀ SPELEOLOGICA ITALIANA

PARCO REGIONALE DEI CASTELLI ROMANI

SOCIETÀ ITALIANA GEOLOGIA APPLICATA

IN PARTNERSHIP OF

CNR - CONSIGLIO NAZIONALE DELLE RICERCHE

IRPI - ISTITUTO RICERCA E PROTEZIONE IDR GEOLOGICA

CNCA - COMMISSIONE NAZIONALE CA VITÀ ARTIFICIALI

MEDIA PARTNERS

OPERA IPOGEA

JOURNAL OF SPELEOLOGY IN ARTIFICIAL CAVITIES

ARCHEO

ARCHEOLOGIA VIVA

ASSOCIAZIONE SCINTILENA - SPELEOLOGICAL NEWS

BLOG ROME INSIDER

TECHNICAL PARTNERS

ASSOCIAZIONE CULTURALE S UB TERRANE A

GRUPPO SPELEO ARCHEOLOGICO VESPERTILIO

GRUPPO STORICO ROMANO
CONTACTS
Web site: hypogea2015.hypogea.it
Mail: hypogea2015@gmail.com
Facebook: hypogeaweb
Twitter: hypogea2015

SCIENTIFIC COMMITTEE

- Mario PARISE - Bari (CNR-IRPI, President of Artificial Cavities Commission UIS)
- Kyung Sik WOO - Republic di Korea (President UIS; Department of Geology, College of Natural Sciences, Kangwon National University)
- George VENI - USA (Vice President UIS; NCKRI Executive Director National Cave and Karst Research Institute, Carlsbad, New Mexico)
- Fadi NADER - Libano/Francia (General Secretary UIS; Geologist; IFP Energie nouvelles - Geosciences Division - Geology)
- Mladen GARASIC - Croazia (University of Zagreb, Faculty of Civil Engineering; Society for Research, surveying and filming on Karst Phenomena /DISKF/, Zagreb; Croatian Speleological Federation)
- Philipp HAUSELMANN - Svizzera (Swiss Institute for Speleology and Karst studies, UIS working group survey and mapping)
- Boaz ZISSU - Israele (Bar-Ilan University, Martin (Szusz) Department of Land of Israel Studies and Archaeology; Artificial Cavities Commission UIS)
- Michele BETTI – Urbino (Pres. Italian Artificial Cavities Commission SSI; PhD University of Urbino ‘Carlo Bo’)
- Roberto BIXIO - Genova (Ispettore On. Cavità Artificiali – MiBACT; Artificial Cavities Commission UIS)
- Vittoria CALOI - Grottaferrata (RM) (CNR; Egeria Centro Ricerche Sotterrane; Commissione Nazionale Cavità Artificiali SSI)
- Sossio DEL PRETE - Italia (Geologo; Capo Redattore Opera Ipogea – Journal of Speleology in Artificial Cavities; Commissione Nazionale Cavità Artificiali SSI)
- Andrea DE PASCALE – Savona (Archeologo; Curatore del Museo Archeologico del Finale IISL; Commissione Nazionale Cavità Artificiali SSI)
- Carla GALEAZZI - Roma (Secretary of Artificial Cavities Commission UIS; Commissione Nazionale Cavità Artificiali SSI; Presidente Hypogea; Egeria Centro Ricerche Sotterrane)
- Mario MAZZOLI - Roma (General Manager A.S.S.O.)
- Adriano MORABITO - Roma (Presidente Roma Sotterranea)
- Roberto NINI - Narni (TR) (Archeologo; Utec/Subterranea)
- Simone SANTUCCI - Roma (Roma Sotterranea)
- Stefano SAJ - Genova (Architetto; Centro Studi Sotterranei Genova; Direttore Responsabile Opera Ipogea – Journal of Speleology in Artificial Cavities; Commissione Nazionale Cavità Artificiali SSI)
- Cristiano RANIERI - Salisano (RI) (Archeologo, Gruppo Speleo Archeologico Vespertilio)

ORGANIZING COMMITTEE

Carla GALEAZZI, President (Egeria Centro Ricerche Sotterrane, Rome)
Vittorio COLOMBO (Roma Sotterranea, Rome)
Massimo D’ALESSANDRO (A.S.S.O., Rome)
Sandro GALEAZZI (Egeria Centro Ricerche Sotterrane, Rome)
Carlo GERMANI (Egeria Centro Ricerche Sotterrane, Rome)
Luigi MANNA (Gruppo Speleologico Cudini puli, Cosenza)
Elena SILVESTRO (Roma Sotterranea, Rome)
Marco VITELLI (A.S.S.O., Rome)
Elena VOLPINI (Roma Sotterranea, Rome)
WEDNESDAY, MARCH 11, 2015
Rome (Italy) CONSIGLIO NAZIONALE DELLE RICERCHE - Sala Marconi
Piazzale Aldo Moro, 7

9.00-10.00 Arrival and registration of participants
10.00 Opening Ceremony
Welcome coffee

All Sessions will be expected in English (max 12 min. + 3 min. discussion)

11.00-12.15 SESSION HYDRAULIC WORKS I
✓ Issues concerning ancient roman aqueducts. Lombardi Leonardo, Santucci Elettra
✓ The map of the ancient underground aqueducts in Italy. Parise Mario, Galeazzi Carla, Germani Carlo, Bisio Roberto, Del Prete Sossio, Sammarco Mariangela
✓ Trajan Aqueduct: the Santa Fiora branch. Germani Carlo, Colombo Vittorio
✓ The Campanian Aqueduct stairway rediscovered. Ferrari Graziano, Lamagna Raffaella
✓ A new stretch of the Turris Libisonis aqueduct in Punta di lu Cappotto (Porto Torres, Sassari, Sardinia): preliminary considerations and recent acknowledgements. Dore Pier Paolo, Piras Giuseppe

12.15 - 13.00 SESSION NEW TECHNOLOGIES FOR ARTIFICIAL CAVITIES
✓ Exploration and documentation of underwater artificial structures. Mazzoli Mario
✓ Potential and limitations of new technologies for the survey of morphology and colour of rupestrian habitat. Carpiuceci Marco, Inglese Carlo, Colonnese Fabio
✓ Laser scanner survey and tru view applications of the “Grotta della Lucerna” (Ravenna, Italy), a Roman mine for Lapis Specularis. Santagata Tommaso, Lugli Stefano, Camorani Marco Ennio, Ercolani Massimo
Lunch

15.00-16.15 SESSION HYDRAULIC WORKS II
✓ Lost Costantinople: subterranean water structures - application of speleology techniques in the archaeological research. Aygın Çiğdem Özkan, Eğilmez Ali Hakan
✓ Urban hydrographic network of Genoa’s historic centre the underground course of the Fossatello stream. Bisio Roberto, Saif Stefano, Traverso Mauro
✓ Water supply tunnels of Istanbul Küçükçekmece lake basin (Bathonea). Kuruçaylı Emre, Eğilmez Ali Hakan, Küçükali Gülşen, Albukrek Metin, Ulz Elif Aytekin, Aydingın Şengül G.
✓ Water tunnels of Güvercinlik Valley (Cappadocia, Turkey). Gilli Eric, Yamaç Ali
✓ Shafts and survey errors of ancient tunnel engineering in Jerusalem and Caesarea water systems, Israel. Frumkin Amos

16.15-16.30 SESSION RELIGIOUS AND CULT STRUCTURES
✓ Armenian central dome churches, the issue of their rock carved samples and the mithological bases of Armenian architecture. Shahinyan Samvel M.

16.30-17.00 SESSION MISCELLANEOUS (GEOLOGY)
✓ Palaeoclimate and palaeoenvironmental reconstructions from speleothems in artificial caves (Lazio, Italy). Tuccimei Paolo, Soligo Michele
✓ Subaqueous anti-stalactites: a new type of speleothem from the old aqueduct of Sassari (Sardinia, Italy). Sanna Laura, Forti Paolo
THURSDAY, MARCH 12, 2015
Rome (Italy) CONSIGLIO NAZIONALE DELLE RICERCHE - Sala Marconi
Piazzale Aldo Moro, 7

All Sessions will be expected in English (max 12 min. + 3 min. discussion)

9.30-11.00 SESSION MINING WORKS
✓ An ancient highway to the tufa quarries. New considerations on a forgotten monument North of Rome. Schatzmann Andreas
✓ Perticara mine (Emilia-Romagna, Italy): first re-exploration, documentation and problems. Belvederi Giovanni, Garberi Maria Luisa
✓ An underground historical quarry in the Hanbury Botanical gardens of Ventimiglia (Italy). Faccini Francesco, Corvi Marco, Parasso Luigi, Raso Emanuele, Mariotti Mauro G.
✓ The Cozzo Disi mine (Casteltermini, Sicily, Italy) a multi-disciplinary approach to record, study, preserve and develop the mining heritage in Sicily. Badino Giovanni, Chiappino Claudia, D’Aquila Antonio, Fiorenza Fiorenzo, Spitaleri Giuseppe, Vattano Marco
✓ Formignano mine: a study for the research project of Emilia-Romagna Regional Speleological Federation ‘Eastern Romagna Gypsum and Sulphur’. Ponti Elisa
✓ Ancient underground channels near Orvieto. Bellochi Edoardo, Morucci Marco

Coffee break

11.30-12.00 SESSION SYMBOLS, TIPOLOGIES AND CADASTRE OF ARTIFICIAL CAVITIES
✓ Artificial caves of Divnogorye (Russia). Gunko Alexey, Kondratyeva Sofya
✓ First remarks on some very interesting artificial cavities in Croatia. Garasic Mladen, Garasic Davor
✓ The UIS symbol set for cave maps and its possible extension for artificial cavities. Häuselmann Philipp

Lunch

14.00-18.00 GUIDED TOURS
Hypogea and archaeological sites of special interest in Rome. The program is being updated according to the access permits.
FRIDAY, MARCH 13, 2015
Rome (Italy) CONSIGLIO NAZIONALE DELLE RICERCHE - Sala Marconi
Piazzale Aldo Moro, 7

9:00 THE HISTORICAL ROMAN GROUP GREETINGS

All Sessions will be expected in English (max 12 min. + 3 min. discussion)

9.15-10.15 SESSION MISCELLANEOUS

✓ The galleries of Palmanova (Friuli-Venezia Giulia, NE Italy). Ferresin Fabio, Diqual Augusto, Giacomini Antonio
✓ Underground visions (movie). D’Alessandro Massimo
✓ Lapis Specularis (movie). Demaria Danilo FSRER

Coffee break

10.30-13.00 SESSION POSTER
Discussion (3 m. each)

HYDRAULIC WORKS

- Ancient and medieval underground hydro-technical structures of Armenia. Davtyan Smbat R.
- The old aqueducts of the Valley of Logalantu (Sassari, Sardinia). Dore Pier Paolo, Dallocchio Eleonora
- The Albano outlet (Castel Gandolfo, Rome, Latium): the Project Albanus and new acquisitions. Galeazzi Carla, Germani Carlo, Casciotti Luigi
- Survey, analysis and relevant interpretation of further interventions in the underground site of Claudium (Rome). Gradozzi Marco
- Infiltration galleries, ancient constructions and geology integrated in the landscape of Nemi Maar (Alban Hills, Central Italy). Loret Emanuele, Medici Franco, Medici Giacomo, Testana Carlo
- The Aqueduct Paul: new archaeological discoveries. Ranieri Cristiano, Felluca Elena

HYPOGEAN CIVILIAN DWELLINGS

- Underground anthropogenic landscape in the Armenian Highland: from the Late Stone Age to the Middle Ages. Shahinyan Samvel, Davtyan Smbat, Pogrosyan Gacik
- Dovecotes and cave dwellings of Gesi - Kayseri (Turkey). Tok Ezgi, Yamac Ali
- Cave dwellings of Hafetli - Urfa (Southeastern Turkey). Yamac Ali
- Underground cities of Kayseri (Turkey). Yamac Ali, Tok Ezgi, Filikci Betul

RELIGIOUS AND CULT STRUCTURES

- Artificial Christian religious cave ‘Skanovo’ in the Penza Region, Russia. Agapov Ilya, Leontev Mihael
- Religious buildings in Ortahisar (Turkey). The survey of the complex of Sakli and Ali Torun Kilise. Crescenzi Carmela, Giustiniani Claudio, Ricchera Giacomo
- Man made cavities on the South-East side of the Albano lake, within the Albano Volcanic Area (SE of Rome, Italy). Felici Alberta, Cappa Giulio, Cappa Emanuele
- Caves in Divnogorye and Belogorye: monastic and folk tradition in the river Don caves construction. Stepkin Vitaliy Viktorovich
- The artificial cavities of Bulgaria. Zhilov Aleksey

ARCHAEOLOGICAL STUDIES

- Archaeological study of Kvemo Kartli region rock-cut monuments in Georgia. Bakhtadze Nodar
- The underground cemetery of San Senatoro. Libera Roberto
- Artificial cavities within the hill of Prima Porta (Rome, Italy). Pellandra Davide Ivan
HYPOGEA2015
International Congress of Speleology in Artificial Cavities
Italy, Rome, March 11/17, 2015

MINING WORKS
- Sarmanovsky copper mine. Gunko Alexey
- Abandoned and deactivated mines in the Eastern Italian Alps (Trentino-Alto Adige, Veneto, Friuli-Venezia Giulia). Laureti Lamberto
- Underground history of Domodedovo District. Yanovskaya Ekaterina, Garshin Dmitry

NEW TECHNOLOGIES FOR ARTIFICIAL CAVITIES
- Rock hewn architecture survey: the problem of construction of the geometrical model. Carpiceci Marco, Cresciani Giovanna, Angelini Andrea
- Recent developments of 3D scanning in real time. Catoni Gabriele

SYMBOLS, TIPOLOGIES AND CADASTRE OF ARTIFICIAL CAVITIES
- Contribution to the definition of cartographic symbols for artificial cavities. Bixio Roberto, Saj Stefano, De Pascale Andrea
- The underground cavities in the city of Rome: typologies, distribution and sinkhole susceptibility. Ciotoli Giancarlo, Ferri Gianluca, Nisio Stefania, Succhiarelli Claudio
- Classification of artificial underground structures. Dolotov Yuri
- Terms about artificial cavities in UIS caver's multi-lingual dictionary. Garasic Mladen
- The Cadastre of artificial cavities of Rome and Lazio. Germani Carlo, Galeazzi Carla, Galeazzi Sandro

MISCELLANEOUS
- The (underground) architecture as subtractive act. Di Donato Stefania
- Speleology in artificial cavities and archaeoastronomy: the cave of Casnea in Briaglia (Cuneo, Italy). Milla Fabrizio

Lunch

15.00-16.45 SESSION HYPOGEAN CIVILIAN DWELLINGS
- A huge cultural and historical heritage at risk: the underground settlements of Southern Italy. Parise Mario
- Surveying some of the touristic underground cities of Cappadocia (Turkey). Yamaç Ali, Tok Ezgi
- The rupestrian heritage of Djabal Nafusa: a study on settlements and architectural forms. Polimeni Beniamino
- The San Pellegrino rock-hewn complex at Matera: a magnificent example of the rupestrian culture in Southern Italy. Lionetti G., Borneo V., Santarcangelo S., Pelosi M., Parise M.
- New surveys on underground structures in Cappadocia: a dialogue between art, historians, conservators, archaeologists and speleologists. Andaloro Maria, Benucci Michele, Bixio Roberto, De Pascale Andrea, Romagnoli Giuseppe
- The necropolis of Hellenistic Maresha Judean Foothills, Israel. Zissu Boaz, Kloner Amos
- Artificial caves cut into cliff tops in the Galilee and their historical significance. Shivtiel Yinon

16.45-17.00 SESSION MISCELLANEOUS (ARCHITECTURE)
- Urban undergrounds: the worldwide perspective. Varriale Roberta

17.00 Closing of the international conference sessions

20.30 SOCIAL DINNER
Social dinner in a typical Roman “Tavern” located in the Jewish Quarter of Rome.

PROCEEDINGS

**SATURDAY, MARCH 14, 2015**

**Rome (Italy) COMUNE DI ROMA - Musei Capitolini - Sala Pietro da Cortona**

Piazza del Campidoglio, 1

10:00 - 13:00 **Mundus Subterraneus**

Round table (in Italian language) between Speleologists, experts and organisations responsible for the environment, history and cultural heritage in Italy to discuss the standards, valorisation and risks of artificial cavities. In conclusion of the Congress Internazionale gli speleologi incontrano geologi, archeologi, architetti, amministratori e divulgatori. Opinioni e progetti a confronto sul potenziale scientifico e di sviluppo socio economico delle cavità artificiali. Conoscenza, documentazione, valorizzazione e costante sfida tra modernizzazione e tutela.

**Modera:**

▷ Stefano Saj  Direttore Opera Ipogea - Journal of Speleology in Artificial Cavities

**Intervengono:**

▷ Fabrizio Ardito Giornalista e scrittore
▷ Michele Betti Presidente Commissione Nazionale Cavità Artificiali S.S.I.
▷ Andrea De Pascale Archeologo, curatore Museo del Finale Ligure - Savona
▷ Carla Galeazzi Presidente Hypogea Ricerca e Valorizzazione Cavità Artificiali
▷ Mario Mazzoli Direttore Generale A.S.S.O.
▷ Adriano Morabito Presidente Roma Sotterranea
▷ Mario Parise Geologo, C.N.R. - I.R.P.I.
▷ Natalino Russo Scrittore e fotografo
▷ Maurizio Todini Referente Progetto Umbria Underground

**SONO STATI INOLTRE RIVOLTI INVITI AD ALTE PERSONALITÀ DEL SETTORE ARCHEOLOGICO E TURISTICO, PROTEZIONE DELL’AMBIENTE E REALIZZAZIONI MUSEALI. IN ATTESA DI CONFERMA PARTECIPAZIONE.**

**THEY ARE ALSO INVITED HIGH PERSONALITIES OF ARCHAEOLOGICAL AND TOURISTIC SECTOR, ENVIRONMENT PROTECTION AND REALIZATION OF MUSEUMS. PENDING CONFIRMATION OF PARTICIPATION.**

**GUIDED TOURS** to hypogeae and archaeological sites of special interest in Rome. The program is being updated according to the access permits.

**FOLLOWING THE CONGRESS, EXCURSIONS WILL TAKE PLACE**
REGISTRATION

Registration fee to March 1st, 2015 (registration closing date) € 190.00
Social dinner on March 14th (reservation required) € 30.00
Tour of March, 15th free only for registered (meals not included) € 40.00
Tour of March, 15th for not registered (accompanists, etc., meals not included) € 40.00
Tour of March, 16th (meals not included) € 40.00
Tour of March, 17th - limited places (meals not included) € 40.00
Paper Proc. one copy free for each registered (additional copies or not registered) € 180.00

For registration form and payment information: http://hypogea2015.hypogea.it/registration

REGISTRATION CONGRESS FEE INCLUDES:

- one copy each of the paper proceedings
- welcome folder
- visits at hypogea particularly significant of Rome (just for registered)
- welcome coffee and welcome lunch on March, 11th
- coffee break and lunch on March 12th and 13th
- excursion of Sunday March 15th (Discovering the Alban Hills and their artificial cavities)
- insurance for civil liability (the insurance for accidents covers only the owners of Italian tax code)

REGISTRATION CONGRESS FEE DOES NOT INCLUDE:

- what not expressly specified in the section ‘includes’
- overnight stays and dinners
- the social conference dinner on Saturday, March 14th (reservations required)
- public transportation in Rome (bus, taxi, etc.)
- post conference tours of March 16th and 17th (reservations required)

The social dinner and the excursions tours must be booked in advance (at the time of registration).