

CAPPADOCIA HYPOGEA

INTERNATIONAL CONGRESS OF SPELEOLOGY IN ARTIFICIAL CAVITIES 2017

PROGRAM

March 6-10, 2017



Photo: A. Ethem Keskin



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- UIS, International Union of Speleology
- BSU, Balkan Speleological Union
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- Stefano Saj – Centro Studi Sotterranei Genova, Director of Opera Ipogea – Italy



General Information

Congress Venue

The Congress will take place at Han Ciragan, Urgup.

Han Ciragan

Cumhuriyet Meydanı No:4

50400 Ürgüp - Nevşehir - TURKEY

Tel: +90.384.341 25 66

Accommodation

There are more than 70 different hotels and pensions in Urgup, most of them within a walking distance to Congress venue. If you are not sure about your reservation, you may ask us (info@hypo-gea2017.com) and we'll help you to find a nice place within your budget.

Climate and Clothing

In March the weather can be chilly in Cappadocia during night and sunny during the day. Mean daytime temperature ranges between 12-14 °C.

Liability and Insurance

The organizers have no responsibility whatsoever for injury or damage involving persons and property during the Congress. Participants are advised to carry their own personal insurance during their stay in Turkey.

Registration Desk Location

Registration Desk will be at the entrance of Han Ciragan. You will be provided with a name badge and a Certificate of Attendance when you arrive and / or register at registration desk.

Opening Hours of Desk

Monday March 6, 2017:	08.00-18.00
Tuesday March 7, 2017:	08.00-18.00
Wednesday March 8, 2017:	08.00-13.00
Thursday March 9, 2017:	08.00-18.00
Friday March 10, 2017:	08.00-13.00

Transfers

There will be a continuous and free of charge minibus service to all Cappadocia during the Congress; March 6,7 and 9, 2017.

Sessions

All oral sessions are held in English and will be maximum 20 minutes + 3 minutes of discussion.

All poster sessions are held in English and will be maximum 3 minutes + 3 minutes of discussion.



Social Events

Welcome Reception

Welcome Reception of HYPOGEA 2017 Congress will take place on Monday, March 5, 2017, 18:00 - 20:00 at the Wine Bar of Han Ciragan.

Gala Dinner

Gala Dinner will take place on Thursday, March 9, 2017, 20:00 - 00:00. If you didn't reserve and paid till your attendance, you can buy the tickets at registration desk on Monday, Tuesday and Wednesday.

Excursions

There will be 6 different excursions before, during and after the Congress. Those are:

- * Istanbul Excursion 5 March 2017
- * 1. Excursion of 8 March 2017
- * 2. Excursion of 8 March 2017
- * 1. Excursion of 10 March 2017
- * 2. Excursion of 10 March 2017
- * Istanbul Excursion 11 March 2017

You may find the details for the excursions both in our web page and in this brochure. You can buy the tickets at registration desk on March 6 and 7, 2017 or make a reservation via web page. Only March 5, 2017 Istanbul Excursion must be reserved and paid until March 1, 2017.

All excursion prices includes lunch and excursions with an attendance of less than 6 persons will be cancelled.





1. DAY - 6 MARCH 2017 MONDAY

9.00-10.30 SESSION MILITARY AND WAR WORKS (DEFENSIVE)

- * The concentric refuge of Kiliclar Kiliesi (Goreme - Cappadocia). *Bixio Andrea, Bixio Roberto, De Pascale Andrea, Traverso Mauro.*
- * Common Traits of Artificial caves and Rock-cut constructions in Ancient Armenia. *Bobokhyan Arsen, Davtyan Smbat.*
- * Underground Herodium: Guerrilla Warfare during the Bar Kokhba War (132–136 CE) under Herod's Royal Palace Fortress. *Porat Roi, Kalman Ya'kov, Chachy Rachel, Zissu Boaz.*

10.30-11.00 Coffee break

11.00-13.00 SESSION MINING WORKS

- * The rediscovery of the Formignano Sulphur Mine (Forlì-Casena, Italy). *Belvederi Giovanni, Ercolani Massimo, Garberi Maria Luisa, Gonnella Sabrina, Peruzzi Fabio, Rossi Giovanni, Sansavini Baldo.*
- * The redevelopment of abandoned underground mines to mining museum and hypogaeum walkway: a case from Gambatesa Mine, Aveto Natural Park (Italy). *Benedettini A., Cabella R., Chiappino Claudia, Cresta P., Faccini Francesco, Robbiano A., Stuppini Maurizio.*
- * The Latomie of Ragusa (Sicily, southern Italy): a study case of artificial cavities in the underground of the city. *Ruggieri Rosario.*

13.00-15.00 Lunch

15.00-18.00 SESSION ARCHAEOLOGY, ARCHAEOLOGY, ART HISTORY

- * Hypogea with niches of southern Apulia. Examples of rural economy in medieval cave settlements of Salento. *Calò Stefano, Santucci Elettra.*
- * Rock-Cut Façades from Byzantine Cappadocia. *Kalas Veronica.*
- * Graffiti of Boats from the Hellenistics and Early Roman Period in Underground Chambers in the Judean Foothills, Israel. *Klein Eitan, Zissu Boaz.*
- * If techniques help to date a monument... three cases of studies. *Lamesa Anäis.*
- * A link between "ancient words" and the "underground world": Cappadocian landscape, rock-cut structures and textual evidence from Hittite documentation. *Mora Clelia, Balza Maria Elena, Bixio Roberto, De Pascale Andrea.*
- * Image-Based Modeling Techniques for Visualization and Analyses of Cave Dwellings. *Polimeni Beniamino.*
- * Hiding Complexes in the Galilee, Israel-artificial refuges caves in the Early Roman Period. *Shivtiel Yinon.*



2. DAY - 7 MARCH 2017 TUESDAY

9.00-10.30 SESSION HYDRAULIC UNDERGROUND WORKS I

- * Challenges and conflicts in preserving traditional underground water channels (qanat/kariz). *Canavas Constantin.*
- * A study of an underground Medieval Water Distribution Network and other structures in a Spanish town. *Carrion Andrés, Fornes Antonio, Sisternas Alberto, Benedito Vicente, Romero José.*
- * Hellenistic-Roman underground water system: the case of Ma'abarta - Flavia Neapolis, southern Levant. *Frumkin Amos.*

10.30-11.00 Coffee break

11.00-13.00 SESSION HYDRAULIC UNDERGROUND WORKS II

- * Artificial Outlets: analysis of the drainage-related functions during planning. Integrated systems? *Germani Carlo, Galeazzi Carla, Galeazzi Sandro.*
- * The culverted streams in the hystorical amphitheatre of Genoa city (Italy): flood risk or geoheritage protecion? *Bixio Roberto, Faccini Francesco, Maifredi Alessandro, Perasso Luigi, Saj Stefano, Traverso Mauro.*
- * Underground hydraulic works related to artificial crop arenas in Cappadocia. *Gilli Eric.*
- * Dating and Understanding the Underground Water Structure in Gaziantep based on Seriyte Registers and Charter of Wakfs. *Uçar Meltem.*

13.00-14.30 Lunch

14.30-17.00 POSTER SESSION

MINING WORKS

- * Holodnaya Balka quarries research (Ukraine). *Grek Igor O., Shirokov M.N.*
- * Underground quarries of Gaziantep (Southeast Turkey). *Yamac Ali.*

ARCHAEOLOGY, ARCHAEOOMETRY, ART HISTORY

- * Signs on the rock. Red paintings in the Valley of Goreme and Kiliclar. *Andaloro Maria, Bordi Giulia, Bordino Chiara, Pogliani Paola, Valentini Valeria.*
- * Model and experience. Measuring deformations of rupestrian architectures in the area of Göreme. *Angelini Andrea, Carpiceci Marco, Colonnese Fabio, Inglese Carlo.*
- * Image-Based Modeling Techniques for Visualization and Analyses of Cave Dwellings. *Polimeni Beniamino.*



2. DAY - 7 MARCH 2017 TUESDAY

HYDRAULIC UNDERGROUND WORKS

- * Background history on the presence of an underground snow-house in Potenza Picena (Marche, Italy). *Carestia Luca.*
- * Underground areas of the Villa Farnese in Caprarola Viterbo, Italy). *Germani Carlo, Mazzoli Mario, Galeazzi Sandro, Vitelli Marco.*
- * Tank of the Roman Villa in Tor Vergata (Rome, Italy). *Pellandra Davide Ivan, Mazzoli Mario.*
- * Underground hydraulic structures of Gaziantep (Southeast Turkey): Livas and Qastels. *Yamac Ali, Okuducu Zafer.*

GEOLOGY, GEOMORPHOLOGY, ENVIRONMENTAL HAZARDS

- * Historical research and geological-structural stability problems in artificial cavities of Marche (Italy). *Campagnoli Marco.*
- * The consequence of erosion caused by watercourses on the conservation of hollowed in the soft sedimentary stratus in Cappadocia. *Coupré Pierre.*
- * Cave Settlements in Volcanic Areas of the Armenian Republic. *Davtyan Smbat.*

HYPOGEAN CIVILIAN DWELLINGS

- * Rock shelters of the Upper Turia Valley. A testimony of a lost society. *Carrion Andrés, Fornes Antonio, Sisternas Alberto, Benedito Vicente, Romero José.*
- * The rock-cut settlement of Karlik (Central Turkey). Speleological investigations. *Galeazzi Carla, Germani Carlo.*
- * Caves settlements in Peristrema (Ilhara) Valley Turkey. *Leontev Mikhail, Ianovskaia Ekaterina.*
- * Kirkmerdiven Underground City of Doganli Village, Kayseri (Southeast Turkey). *Yamac Ali.*

RELIGIOUS – CULT STRUCTURES

- * The use of natural caves in the Christian religious practise in the Karoulia (Mount Athos, Greece). *Agapov Ilya.*
- * Survey on a monastic complex in the area of Göreme (Nevşehir, Turkey). *Benucci Michele, Crescenzi Carmela, Giustiniani Claudio, Romagnoli Giuseppe.*
- * Catacomb of Kerch (Ukraine). *Bytritskaya D.D., Grek Igor O.*
- * Exploration and researches in the Holy Cave of Altura (Castellón, Spain). *Carrion Andrés, Fornes Antonio, Sisternas Alberto, Benedito Vicente, Fernandez José, Barciela Virginia.*
- * The expedititious survey of Tokalı kilise in Soğanlı valley (Turkey). *Crescenzi Carmela, Firenzuoli Virginia, Salvadori Chiara, Vannacci Elena.*
- * Gülşehir Karşı Kilise (a 13th century church in Cappadocia, Central Turkey). *Gokcan F. Sema.*
- * Artificial caves in chalk outcrops in the Don basin. *Gunko Alexey Alexandrovich, Stepkin Vitaliy Viktorovich, Kondratyeva Sofia Konstantinovna.*



2. DAY - 7 MARCH 2017 TUESDAY

TYOLOGIES, SYMBOLS, TERMS AND CADASTRE OF ARTIFICIAL CAVITIES

- * Painting on rock settlements in Cappadocia. A database and a virtual museum for the enhancement of the area. *Andaloro Maria, Valentini Valeria, Pogliani Paola.*
- * Rock-cut roads in the Middle Ages: reuse, new elements and “service” road. *De Minicis Elisabetta.*
- * Principles of speleostological zoning. *Dolotov Yuri.*
- * 20 centuries of excavation in Laon (France). *Montagne Denis.*
- * The anthropogenic caves in Finalese (northern Italy) during historical age. *Mordeglia Simona.*

17.00-17.30 Coffee break

17.30-19.00 SESSION GEOLOGY, GEOMORPHOLOGY, ENVIRONMENTAL HAZARDS

- * A project to promote the importance of the natural and cultural heritage of the underground environment in Southern Italy. *Lapenna Vincenzo, Leucci Gianni, Parise Mario, Porfyriou Heleni, Genovese Laura, Varriale Roberta.*
- * Paleontological and physico-chemical methods for identification of limestone as a construction stone. *Albov Dmitry, Isakova T.N., Yanovskaia Ekaterina.*
- * Carbonate deposits in artificial galleries: chronology and past-environmental reconstruction. Case studies of Versailles Palace and northern Paris underground aqueducts (France). *Pons-Branchu Edwige, Roy-Barman Matthieu, Dumont Emanuel, Duserre Gérard, Largier Jean-Luc, Guillerme André, Fernandez Mathieu, Bultez Gilles, Malnar Daniella, Foliot Lorna, Thil François, Dapigny Arnaud, Douville Eric, Brachu Philippe, Petillon Gaele, Bordier Louise.*
- * Engineering-geological studies on artificial cavities, aimed and evaluating the possibility of failures in underground settings. *Parise Mario*



3. DAY - 8 MARCH 2017 WEDNESDAY

1. Excursion

GOREME OPEN AIR MUSEUM and KAYMAKLI UNDERGROUND CITY

Cappadocia provides one of the most unique experiences imaginable. The famous misty hues and curious contours of the landscape each way you turn make this region a true natural wonder of the world. Stone hewn cave dwellings of the Hittite, Roman and Byzantine periods with impeccable interior designs simply ooze history, and the intriguing and creative energy of those who lived here before is almost tangible.

GOREME OPEN-AIR MUSEUM

This incredible museum captures the essence of the monastic culture of Cappadocia with its rock-hewn architecture and early Christian fresco art. Each of the 11 monasteries in this enormous complex has its own church dating variously from the 8th, 11th and 12th centuries. The Karanlik and Tokali churches have astoundingly beautiful frescoes, the colors of which still retain their original brilliance.

THE UNDERGROUND CITY OF KAYMAKLI

There are 36 troglodyte underground cities in Cappadocia and one of the largest is Kaymakli, a must-see for visitors, with 8 stories, nearly 20 miles of tunnels, and reaching 85 meters underground to the water table. Four storeys of Kaymakli are open for exploration to the public, with wineries, kitchens, churches and living areas.

Full day, 70.- €





3. DAY - 8 MARCH 2017 WEDNESDAY

2. Excursion

VALLEYS, DWELLINGS & CHURCHES OF CAPPADOCIA

HIKE THROUGH THE VALLEY OF SOGANLI

A natural phenomena created through volcanic eruptions, earthquakes, and erosion, forming valleys and plateaus of incredible beauty. Occupied since the Roman period, they used the stone cones on the slopes of the valley as graveyards and houses, and the Byzantine's as churches and monasteries with frescos dating to the 9th thru 13th centuries.

KESLIK MONASTRY

This small but interesting monastery complex has two main churches and a refectory carved out of rock. The Archangelos Church, thought to date to the 11th or 12th century, has extensive, but blackened, frescoes (a flashlight is essential), including one on the wall facing the entrance that shows the Archangel Michael fighting Lucifer in a landscape that strongly resembles Cappadocia. The walls and ceiling of the nearby Stefanos Church are covered with colorful, almost contemporary-looking floral and geometric designs dating to the 7th or 8th century.

HIKE THROUGH THE RED VALLEY

The Red Valley is one of the most dazzling spots in Cappadocia with its variety of multi-hued rock formations. During your hike, explore the valley's hidden rock-cut churches and experience the incredible glow of the land at sunset. Ending at Cavusin, another old rock hidden village to blow your mind off.

Full day, 60.- €





4. DAY - 9 MARCH 2017 THURSDAY

9.00-11.00 SESSION HYPOGEAN CIVILIAN DWELLINGS

- * Cave dwellings of Euphrates River (southeast Turkey). *Yamac Ali*.
- * The rock-cut settlement and the courtyard complex of Şahinefendi (Nevşehir, Turkey). *Benucci Michele, Carpiceci Marco, Colonnese Fabio, Inglese Carlo, Romagnoli Giuseppe*.
- * The rock-cut sites in the basin of Şahinenfendi (Ürgüp - Cappadocia). *Bixio Andrea, Bixio Roberto, De Pascale Andrea*.
- * Rock-cut dwellings in Syunik, Armenia. *Shahinyan Samvel, Davtyan Smbat, Alexanyan Taron, Khudoyan Anush, Enokyan Vruyr, Asrabyan Areg, Nahapetyan Davit*.
- * Underground Settlements and Cave Dwellings of Ağırnas Village, Kayseri (Southeast Turkey). *Yamac Ali*.

11.00-11.30 Coffee break

11.30-13.00 SESSION RELIGIOUS – CULT STRUCTURES I

- * Typological and Chronological problems of David-Gareji (Georgia) Cave Churches against the background of Cappadocian rock-cut monuments. *Bakhtadze Nodar*.
- * Negotiating Above and Underground Sacredness in the Nineteenth-Century Cappadocia: the Use of Underground Cities. *De Tapia Ayde Aylin*.
- * People behind Places. The Role and value of the hermitages of San Michele in the settlement of Colli Albani (Latium, Italy) during the Middle Age. *Giannini Nicoletta*.
- * From columbaria to dovecotes: two thousand years of use of cave dwellings in Ağırnas (Kayseri, Turkey). *Gilli Eric*.
- * Rock-cut hydraulics in Cappadocia: the tunnel-cisterns of Göreme. *Bixio Andrea, Bixio Roberto, De Pascale Andrea, Maifredi Alessandro, Traverso Mauro*.

13.00-14.30 Lunch

14.30-15.30 SESSION TYPOLOGIES, SYMBOLS, TERMS AND CADASTRE OF ARTIFICIAL CAVITIES

- * From Karalis to Cagliari (Sardinia, Italy). A three thousand years journey inside the artificial cavities of the city. *Cilla Cristiana, Contu Marco, Fadda Jessica, Mascia Riccardo, Mattana Marco, Mereu Lucio, Mura Lucia, Sanna Roberto, Scanu Alice*.
- * Southern Italy underground space: from the history to the future. *Varriale Roberta*.

15.30-17.00 SESSION RELIGIOUS – CULT STRUCTURES II

- * Cave temples in Don Region, Russia and Ukraine. *Gunko Alexey Alexandrovic, Kondratieva Sofia Konstantinova*.
- * Hypogean structures under the jurisdiction of the monastery of St. Silvestro in Capite between 10th and 13th century, in the Viterbo area, central Italy. *Pastura Giancarlo*.
- * Caves in Italo-Greek Medieval monasticism. New explorations and cultural function. *Zagari Francesca*.
- * Preliminary report on the Rock-Cut and underground Cisterns of Medieval and Post-Medieval Messina (Greece). *Germanidou Sophia*.

CAPPADOCIA HYPOGEA

INTERNATIONAL CONGRESS OF APPLIED ROCK SCIENCE AND ARTS 2017



HYPOGEA 2017	DAY 1 MONDAY, MARCH 6, 2017	DAY 2 TUESDAY, MARCH 7, 2017	DAY 3 WEDNESDAY, MARCH 8, 2017	DAY 4 THURSDAY, MARCH 9, 2017	DAY 5 FRIDAY, MARCH 10, 2017	
9:00 - 10:30	Session 1: MILITARY AND WAR WORKS (DEFENSIVE)	Session 1: HYDRAULIC UNDERGROUND WORKS I	EXCURSIONS	Session 1: HYPOGEAN CIVILIAN DWELLINGS	EXCURSIONS	
10:30 - 11:00	Coffee break	Coffee break				
11:00 - 11:30	Session 2: MINING WORKS	Session 2: HYDRAULIC UNDERGROUND WORKS II		Coffee break		
11:30 - 12:00				Session 2: RELIGIOUS – CULT STRUCTURES I		
12:00 - 12:30						
12:30 - 13:00						
13:00 - 13:30	Lunch	Lunch		Lunch		EXCURSIONS
13:30 - 14:00						
14:00 - 14:30		POSTER SESSION		Session 3: TYPOLOGIES, SYMBOLS, TERMS AND CADASTRE OF ARTIFICIAL CAVITIES		
14:30 - 15:00						
15:00 - 15:30	Session 3: ARCHAEOLOGY, ARCHAEOOMETRY, ART HISTORY			Session 3: RELIGIOUS – CULT STRUCTURES II		
15:30 - 16:00						
16:00 - 16:30		Coffee break				
16:30 - 17:00						
17:00 - 17:30	POSTER SESSION					
17:30 - 18:00						
18:00 - 18:30		GALA DINNER (reservation required)				
18:30 - 19:00						
20:30						



5. DAY - 10 MARCH 2017 FRIDAY

1. Excursion

GELVERI AND PERISTREMA VALLEY

Gelveri / Güzelyurt / Karballa

Walk to a viewpoint at the far side of town (above the Sivasli Church), toward the snowy slopes of the Fuji-like volcano that rules the horizon. Before you is a lush and living gorge. The cliff rising from the gorge is stacked with building styles: Upon the 1,600-year-old church sit troglodyte caves, Selçuk arches, and Ottoman facades. The honey that holds this architectural baklava together is the people. Put your camera away, close your mouth, and sit silently in the sounds of 1000 B.C. Children play, birds chirp, roosters crow, shepherds chase goats, and mothers cackle. Below you, sleeping in the greens and wet browns of this tidepool of simple living, is the church of St. Gregorius. Built in 385, it's thought by Gregorian fans to be the birthplace of church music, specifically the Gregorian chant.

Rick Steves

Ihlara /Peristrema Valley

The dramatic Ihlara Valley gorge, cut by a small stream through the volcanic Cappadocian landscape. Valley holds about 60 Byzantine churches, chapels, monasteries and hermits' caves dating from the 11th to 13th centuries.

Come to the Ihlara Valley, once called Peristrema, as much for the scenery and the hike as for the churches, which are small and mostly semi-ruined. The best way to visit the valley is on a day-trip excursion.

Tom Brosnahan, Turkey Travel Planner

Full day, 70.- €





5. DAY - 10 MARCH 2017 FRIDAY

2. Excursion

UNKNOWN UNDERGROUND STRUCTURES OF CAPPADOCIA

Personal helmet and lighting equipment is required

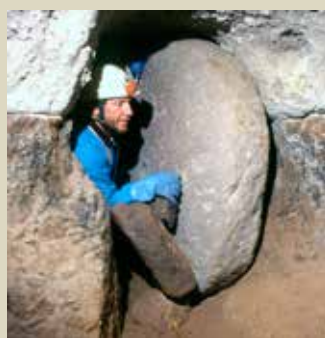
Within this special excursion we'll go to two most interesting but least visited villages of Cappadocia and travel 4000 years in time.

We'll first visit Sivasa Village (Gokcetoprak), 55 kms west of Avanos. This village is set amidst a natural amphitheatre of the cliff that forms the eastern side of a small hill and has one of the most unbelievable underground network systems of Cappadocia. Digged into the vertical walls of rock, there are eleven non-touristic underground shelters in this village, in addition to a Roman Zeus Stratis bas-relief in the village.

After visiting a small Hittite hieroglyphic stele nearby, we'll visit another underground refuge at Göstesin Village and pass to astonishing Filiktepe with an unbelievable underground complex.

After Filiktepe we'll visit two different Hittite settlements: Topakhoyuk is a small Hittite village but Yassihoyuk which is 500 meters far from that village is a walled, 4000 years old Hittite city.

Full day, 60.- €





ISTANBUL EXCURSIONS

CLASSICAL ISTANBUL

5 or 11th March 2017

**Hipodrome – Blue Mosque – Hagia Sophia – Cistern – Topkapı Palace –
Grand Bazaar**

This tour would give you change of going through the basics and the musts.

Mighty Byzantine walls, mysterious underground cisterns, majestic basilicas, opulent Ottoman palaces and the glittering Bosphorus strait, lend this cosmopolitan city an aura of magic. Traditions rooted in 2,500 years of history are observed in age-old bargaining techniques in the covered bazaar, the heartfelt hospitality of the local people and the cadences of the muezzin's call to prayer.

BLUE MOSQUE

One of the most famous monuments of Turkish-Islamic art. Over 20,000 exquisite Iznik tiles decorate the galleries of the interior chamber.

HAGIA SOFIA

The world's oldest cathedral, built in the glory days of Byzantium as an attempt to revitalize the dwindling Roman Empire, the Hagia Sophia remained the greatest Church in Christendom for 7 centuries. The architecture is of particular interest.

THE MYSTERIOUS BYZANTINE CISTERNS

The largest and most magnificent underground cistern in Istanbul was built during the reign of Justinian I to supply water to the palaces in the vicinity. During a 1987 restoration, the original brick pavement and 2 magnificent marble heads of Medusa were uncovered.

TOPKAPI PALACE

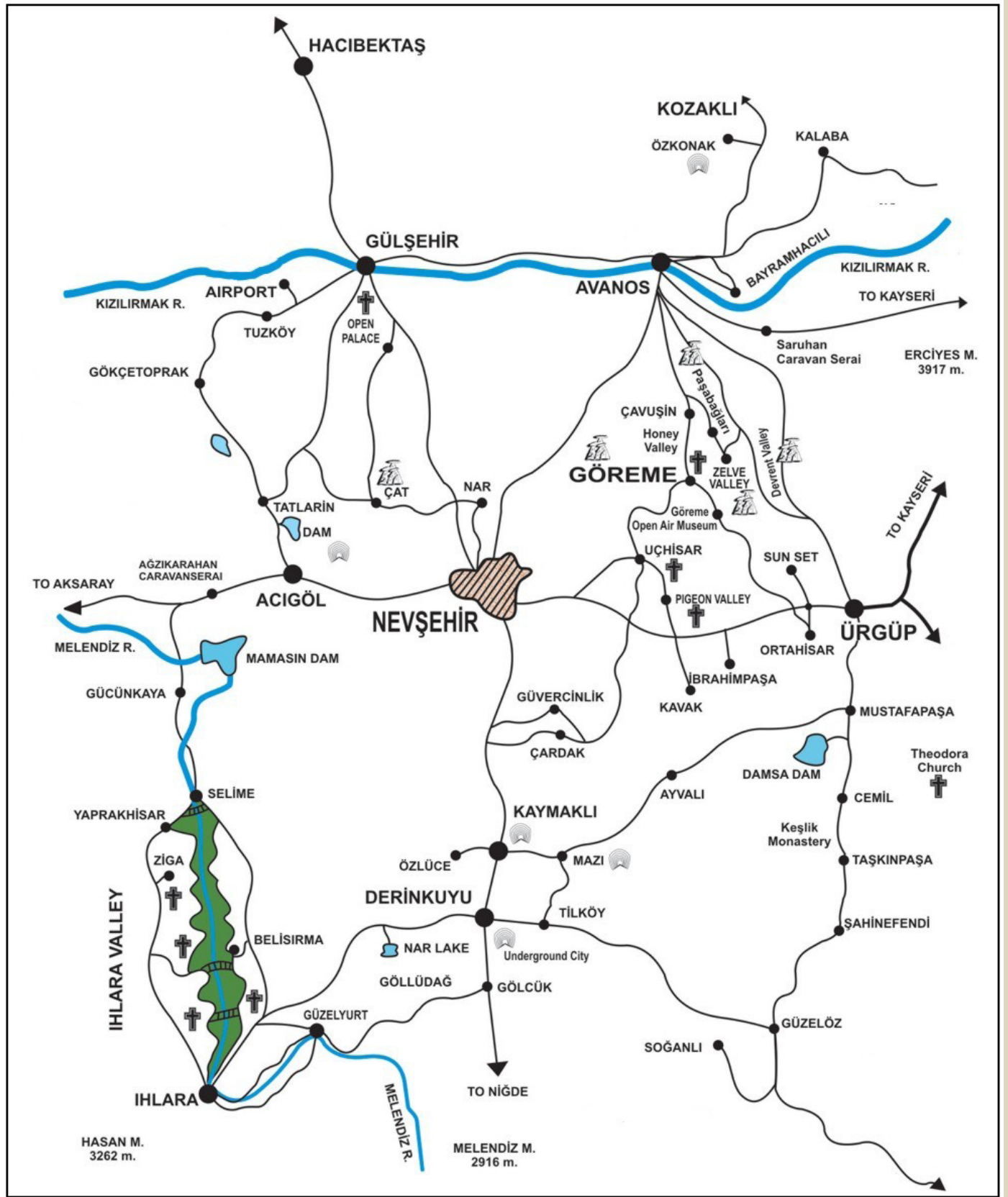
When Sultan Mehmed II captured Constantinople in 1453, he deemed the palaces of the Byzantine Emperors uninhabitable and began building the incredible Topkapi. The palace houses some of the world's finest porcelain, jewelry, Ottoman weaponry and the world's largest harem.

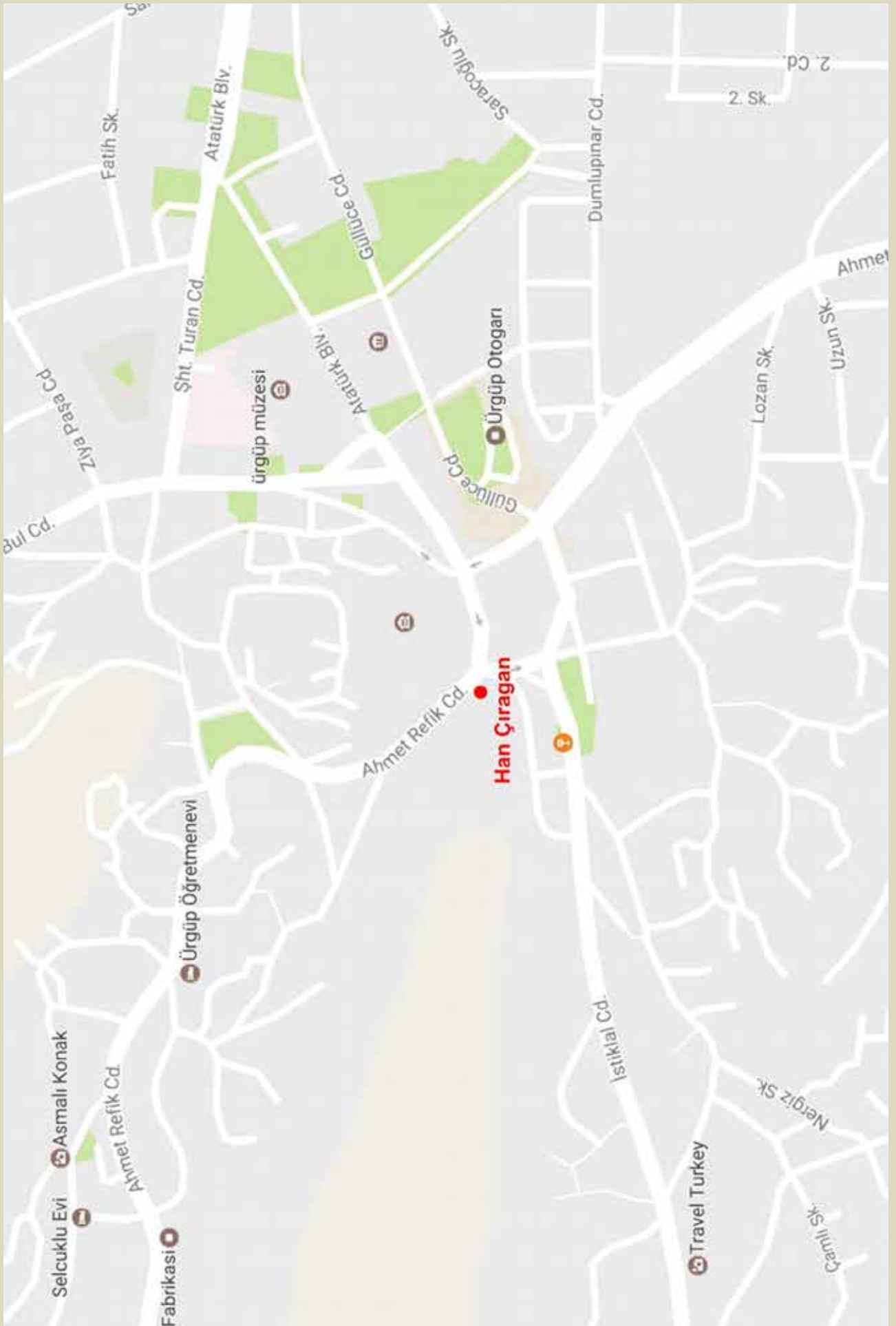
GRAND BAZAAR

The oldest and largest covered bazaar in the world right in the heart of old Istanbul, this giant labyrinth holds around 60 lanes and more than 3000 artisanal shops. Find the world famous hand-woven carpets and Turkish kilims in an extensive choice of color, pattern and motif, from rustic to elegant in style, and made with high-quality natural materials and dyes.

Full day, 75.- €







Map of Urgup with Congress venue; Han Ciragan

