



**ITA CROATIA**  
Croatian Association for  
Tunnels and Underground  
Structures



ASSOCIATION  
INTERNATIONALE DES TUNNELS  
ET DE L'ESPACE SOUTERRAIN  
**AITES**

**ITA**  
INTERNATIONAL TUNNELLING  
AND UNDERGROUND SPACE  
ASSOCIATION

edition July 31, 2014

# ITAWTC 2015

41<sup>st</sup> General Assembly and Congress of  
International Tunnelling and Underground  
Space Association ITA-AITES



# SEE TUNNEL

**PROMOTING TUNNELLING IN SEE REGION**

LACROMA VALAMAR CONGRESS CENTER  
DUBROVNIK, CROATIA

**MAY 22-28, 2015**

**Bulletin N°2**

[www.wtc15.com](http://www.wtc15.com)

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### Under Auspices:



Ministry of Construction and Physical Planning



Ministry of Regional Development and EU Funds



Ministry of Maritime Affairs, Transport and Infrastructure



Ministry of Economy



City of Dubrovnik



## Foreword

Dear Colleagues,

The World Tunnel Congress 2014 has successfully finished in May this year reaching a high level of participation and providing state-of-the-art tunnelling world-wide. The focus is now oriented towards the upcoming world tunnelling event taking place in Dubrovnik, Croatia in 2015.

The motto of the WTC 2015 is „Promoting Tunnelling in SEE Region“. It is following the idea started 4 years ago with the organisation of the first international tunnelling conference in SEE. In the sense of promoting tunnelling in SEE, the conference would like to collect and present all recent experiences worldwide. It will be shown to tunnelling societies in SEE and this way enable them to learn from international practice.

This knowledge will be communicated by numerous international authors and their article presentations in parallel „Technical sessions“ as well as by the work of working groups. In addition, there will be specific „SEE Sessions“ where it is expected that authors from the SEE region will present their problems and solutions but also the same session is open for all international authors that want to present similar problems and solutions from international practice that may be found in SEE.

As usual the WTC 2015 will be the place for ITA to hold its General Assembly. Working Groups and Committees will meet several times and present to the international tunnelling community the results of their work. Following WTC 2014, the Open Session on Tuesday will be dedicated to „Underground Space and Natural resources“ with focus on Hydro. Many other activities that will be described in the next bulletin will also take place.

Instead of „Poster Presentation“ we are organising a „PPPP – Power Point-Poster-Presentation“ where all technically accepted articles for publication but not presented in technical sessions, will be presented in a separate hall with the possibility to present, give clarifications and discuss with attending colleagues.

All articles that are accepted by the Scientific Committee review whether from Technical Sessions, SEE Sessions or PPPP Sessions will be published in the congress proceedings.

Within the congress week we are offering a set of 4 very interesting technical visits that will take place after the closure of the congress from Thursday morning on. Technical excursions are organised in the range of about 200 km around the congress venue and are presenting major hydro or traffic underground works already finished or in construction.

The accommodation offer is available from September 1, 2014 for all members registered to the congress. Available are programs for accompanying persons as well as many touristic visits for participants and their friends or guests visiting the congress before, during and after the congress time.

We would cordially like to invite you to the WTC2015, at the end of May next year

Yours sincerely

President of the Croatian Association for  
Tunnels and Underground Structures – ITA Croatia  
Davoren KOLIC, PhD, PE, CE

Zagreb, July 31, 2014



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Nuh BILGIN  
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Amanda ELLIOFF  
Robert GALLER  
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Rolf KATZENBACH  
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Simon KNIGHTS  
Eric LECA  
In-Mo LEE  
Anna LEWANDOWSKA  
Maurizio MARCHIONNI  
Mehmed MESIHOVIC  
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Mikey MOONEY  
Darko MOSLAVAC  
Nasri MUNFAH  
Priscilla NELSON  
Daniele PEILE  
Moreno PESCARA

Karel ROSSLER  
Jamaal ROSTAMI  
Mostafa SHARIFZADEH  
Davor SIMIC  
Wolfgang STIPEK  
Viktor TASHEV  
Markus THEWES  
Zvonko TOMANOVIC  
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Bai YUN  
Jenny YAN

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Willy DE LATHAUWER  
Eszter HORVATH - KALMAN  
Mauro JURINCIC  
Paola KOLIC  
Sanela KOVACEVIC  
Miljenko KUNDID  
Davor LJUBICIC  
Leo MATKOVIC  
Davorka PAPISTA  
Davor PARADZIK  
Nikola SUBIC  
Matea UHLIK  
Martina VASILJ  
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### WTC2015 SPECIAL ADVISORS

Jennifer KNIGHTS  
*accompany persons programme*  
Rick LOVAT  
*North America correspondent*  
Hugo ROCHA  
*South America correspondent*  
Francois VALIN *French speaking countries correspondent*  
Shani WALLIS  
*communication press*

## EXECUTIVE COMMITTEE



**Davorin KOLIC**  
WTC2015 Chair

info@itacroatia.eu  
skype: davorin.kolic



**Ivan VRKLJAN**  
Chair of Scientific  
Committee

ivan.vrkljan@igh.hr



**Milenko KUNDID**  
Exhibition

milenko.kundid@geodata-projekt.hr



**Lorena VUKELIC**  
Events

lorena.vukelic@hubitg.com  
skype: lorena\_vukelic



**Jelena NEAL**  
Web

jelena.neal@hubitg.com  
skype: jelenaperusic



**Ana HRKAC**  
Sponsoring

ana.hrkac@hubitg.com  
skype: ana\_hubitg



**Olivier VION**  
WTC2015 Vice Chair

olivier.vion@ita-aites.org



**Zvonimir DEKOVIC**  
Vice Chair of Scientific  
Committee

zvonimir.dekovic@zg.t-com.hr



**Sanela KOVACEVIC**  
Exhibition and Finance

sanela.kovacevic@hubitg.com  
skype: sanela.hubitg



**Tina BONCIC**  
Finance

tina.boncic@hubitg.com  
skype: tinaboncic



**Martina VASILJ**  
Web

martina@prospekt.hr  
skype: prospektdesign



**Nadja JOSIMOVIC**  
Press relations

nadja.josimovic@hubitg.com  
skype: nadjajosimovic

## Venue and Date

The ITA-AITES World Tunnel Congress and General Assembly will be held in Hotel Valamar Lacroma, Dubrovnik from **May 22-28, 2015**.

Dubrovnik is an old city, a port on the Adriatic coast, a center of tourism and a congress center that is able to take more than thousand guests at the same time.

It is also one of centers of infrastructure works with unique underground solutions.

## Location and Connections

Dubrovnik is located in the centre of South-East Europe with connections to all major European Airports: Vienna, Frankfurt, Rome, Istanbul, Paris, London and Barcelona.

Distance airport to hotel: 22 km



1. Planning and Designing Tunnels and Underground Structures
2. Mechanized Tunnelling in Development and Use
3. Conventional Tunnelling Methods in Development and Use
4. Immersed and Floating Tunnelling
5. Operation and Maintenance of Tunnels and Underground Structures
6. Equipment of Tunnels and Underground Structures
7. Fire Safety of Tunnels and Underground Structures
8. Intelligent Systems, Mechatronics and Robotics in Tunnelling
9. Developments in Use of Underground Space: Case Studies (Traffic, Waste, Energy, Water, Sewer, Flood Protection, Commercial and other Uses)
10. Urban planning and Using of Underground Space
11. SEE Session: Soft Ground Urban Tunnelling / Rock Tunnelling in Karst
12. Risk Analyses and Techniques for Underground Structures
13. Cost Optimization and Financing of Underground Structures

## CALL FOR ABSTRACTS - Important dates

The possibility of abstract submission is open from March 1st, and therefore everyone interested in presenting their papers is encouraged to submit their abstracts electronically using the online submission system on the official web site.

The authors of the chosen abstracts, reviewed by the committee will be asked to submit the final full paper that should be prepared according to the given templates for papers.

### Important dates for Call for papers

- Opening of abstract submission - March 1, 2014
- Deadline for abstract submission - September 15, 2014
- Notification of accepted abstracts - October 30, 2014
- Deadline for paper submission - December 31, 2014
- Notification of accepted paper - February 15, 2015

## REGISTRATION

The online registration for the WTC 2015 will start from September 1<sup>st</sup>, 2014. Early bird rate is valid for payments made up to March 15, 2015.

### Registration fee:

Categories	Early bird rate up to March 15, 2015	Standard rate up to May 14, 2015	On site rate from May 15, 2015
Full	900 EUR	1000 EUR	1120 EUR
ITA YOUNG MEMBERS*	720 EUR	800 EUR	900 EUR
Croatia	630 EUR	700 EUR	780 EUR
ITA Member Nations Category 3**	630 EUR	700 EUR	780 EUR
Student	460 EUR	500 EUR	560 EUR
Accompanying Person	245 EUR	270 EUR	270 EUR
One day only	450 EUR	450 EUR	450 EUR
ITA-CET Course Regular	420 EUR	420 EUR	420 EUR
ITA CET 1-day	280 EUR	280 EUR	280 EUR
ITA-CET Course Student	290 EUR	290 EUR	290 EUR
ITA CET Student 1-day	160 EUR	160 EUR	160 EUR
Banquet	95 EUR	95 EUR	95 EUR

\* ITA YOUNG MEMBERS are ITA MEMBERS under 35 years old

\*\* ITA Member Nations Category 3: AZERBAIDJAN, BHUTAN, BOLIVIA, BOSNIA & HERZEGOVINA, BULGARIA, CAMBODIA, COSTA RICA, ECUADOR, ICELAND, LAO DPR, LESOTHO, MACEDONIA, MONTENEGRO, MYANMAR, NEPAL, PANAMA, SERBIA, VIETNAM





## Dubrovnik

Towards the southern tip of Croatia lies the Old Town of Dubrovnik, the priceless jewel of the Dalmatian Coast and a world famous UNESCO World Heritage Site steeped in history and culture. George Bernard Shaw once wrote, "those who seek paradise on Earth should come to Dubrovnik", due to its profound beauty and historic magic.

Dubrovnik is also, without doubt, currently one of Europe's most fashionable conference destinations. A surfeit of modern facilities combined with unique activities for delegates make this a popular choice for event organisers.



## Hotel Prices WTC2015

		EUR brutto, VAT 25% included
Valamar Lacroma 4*	Double for single use (run of the house)	140,00 €
	Double (run of the house)	160,00 €
Valamar Lacroma 4*	Double for single use (sea view )	165,00 €
	Double (sea view)	180,00 €
Dubrovnik President 5*	Double for single use (standard)	150,00 €
	Double (standard)	170,00 €
Dubrovnik President 5*	Double for single use (premium)	175,00 €
	Double (premium)	195,00 €
Valamar Argosy 4*	Double for single use (run of the house)	120,00 €
	Double (run of the house)	135,00 €
Hotel Tiren 3*	Double for single use (run of the house)	110,00 €
	Double (run of the house)	120,00 €
Valamar Club Dubrovnik 3*	Double for single use (run of the house)	95,00 €
	Double (run of the house)	110,00 €
Hotel Neptun 4*	Double for single use (run of the house)	115,00 €
	Double (run of the house)	135,00 €
Hotel Ariston 5*	Double for single use (standard)	130,00 €
	Double (standard)	150,00 €
Royal Princess 5*	Deluxe suite park view (run of the house)	200,00 €
	Deluxe suite sea view (run of the house)	230,00 €
Hotel Dubrovnik Palace 5*	1/1 single	160,00 €
	1/2 double/twin	180,00 €
Hotel Excelsior 5*	1/1 single	235,00 €
	1/2 double/twin	255,00 €
Hotel Libertas Rixos 5*	Double for single use	160,00 €
	Double	190,00 €
Hilton Imperial 5 *	Guest room single use	220,00 €
	Guest room double use	240,00 €

Special prices of hotel accommodation will be visible on our official WEB site from September 1, 2014.

Dubrovnik Sun - Reservation Rooms <http://www.dubrovniksun.hr/prijave/WTC2015/>



For further information contact the official travel agency:  
[wtc2015@dubrovniksun.hr](mailto:wtc2015@dubrovniksun.hr) +385 20 436 363

# ITA WTC 2015 CROATIA

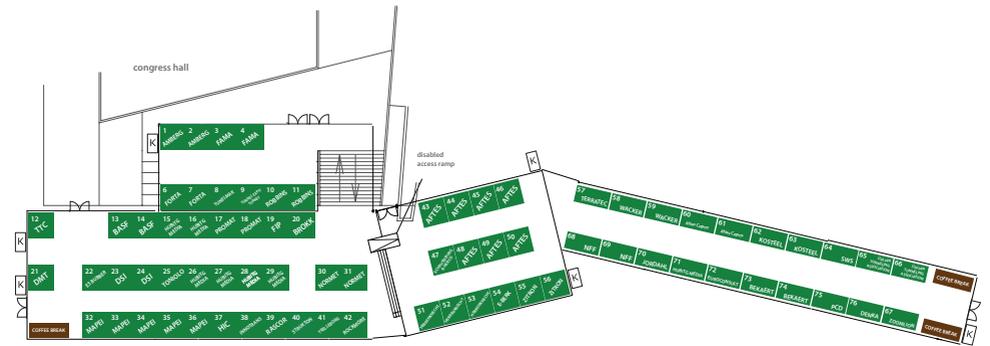


## Exhibition

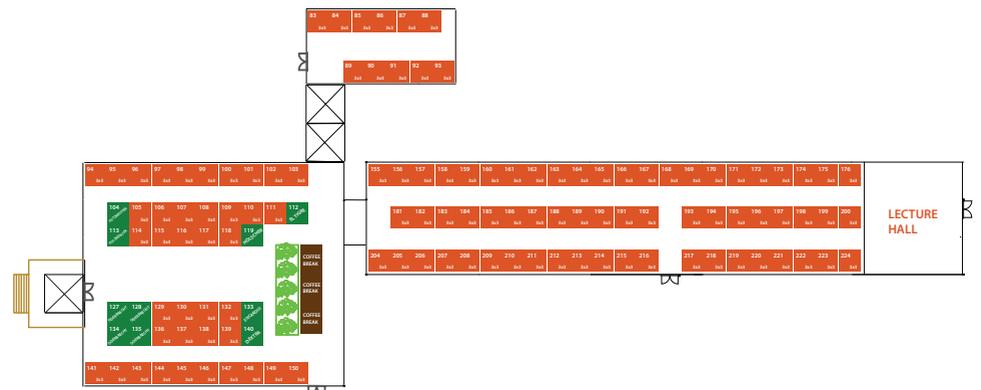
Accommodation capacities of the Valamar group consider using of 5 hotel units and different quality classes: Hotels President, Lacroma, Tirena, Argosy and Valamar Club provide place for more than 2000 guests.

The exhibition area offers huge possibilities for companies willing to present their capacities and products. The modular character of the exhibition area within the hotel as well as using modular tents with full equipment that is adoptable to all exhibiting requirements.

## Exhibition Area 1



## Exhibition Area 2





Tunnelling in Croatia



Tunnelling in Croatia

**One day excursion to underground structures of HPP Zakučac and HPP Peruča - on Thursday, May 28**

Participants will get memory back of HPP Pečura from war 1991.

**Visit to underground structures of HPP Dubrovnik I and II - on Friday, May 29**

**Tunnels on highway Zagreb-Split - Ploče (Tunnels Biokovo, Mala Kapela), Croatia - on Saturday, May 30**

**Tunnel on highway Bar, Boljare, Montenegro- on Sunday May 31**

As a part of technical visit tours based on the number of registered persons, one day visit to Montenegro will be organized with-in post congress tours.

Changes in technical excursions are possible according to the number of participants and will be made in their benefit.



## SOCIAL PROGRAMME

### Accompanying persons programme

on Monday 25<sup>th</sup> May, Tuesday 26<sup>th</sup> May, Wednesday 27<sup>th</sup> May

During the congress there will be a rich accompanying persons programme in the most beautiful jewel of Croatia's cultural heritage. It will be organized on Monday, Tuesday and Wednesday.

There are plenty of things to do in this masterpiece of medieval architecture, choosing from: old town sightseeing, cultural historical monuments such as charming palaces, churches, museums and for the ones that enjoy art- galleries with amazing artworks, followed by tour guides and other experts. Enjoying the rich wellness program is always an option as well as shopping in the town center and visiting the most popular souvenir and jewelry shops.

#### 1) Dubrovnik Old City walking tour

on Monday 25<sup>th</sup> May

The most beautiful jewel of Croatia's cultural heritage, the old city of Dubrovnik is a World Heritage Site and a masterpiece of medieval architecture.

Lord Byron's "pearl of the Adriatic on the Dalmatian coast..." enjoys a wonderful position on a rocky shoreline above the sea.



- Departure from hotel (with English speaking guide)
- Walking tour of the old walled City – duration two hours (Including visits to the Franciscan monastery and Rector's Palace)
- Your expert guide will lead you through the narrow streets of the Old City introducing you to the history and culture of this magnificent city
- Free time for individual visit and shopping
- Lunch - Return to the hotel

#### Franciscan Monastery

The large amazing complex of the Franciscan monastery is situated at the very beginning of Placa, to the left of the Pile Gate. The lateral facade of the monastery church runs along the principal street of Dubrovnik, and



the monastery spreads north along the walls as far as the tower Minceta. The collection of liturgical and art objects is exhibited in the large Renaissance hall, containing the inventory of the old Franciscan pharmacy, paintings by old masters, valuable specimens of gold-work and rare books.

#### Impressive Rector's Palace - Cultural Historical Museum

You will be impressed by the Rector's palace which was the center of government in the old Dubrovnik Republic. It was the home of the Rector who was elected by the Great council to represent the Republic for a month and during that time he wasn't allowed to leave the palace at any time except on government business. The Rector's palace today is a Cultural Historical Museum.

#### Shopping and souvenirs

Discover Dubrovnik in its typical souvenirs such as candied almonds, arancini (candied orange peel), kontonjata (quince cheese), brandies with stories, top quality red and white wines, valuable stone-masons hand-crafts, golden olive oil, cold-pressed soaps with laurel and rosemary fragrance. The gold, filigree silver and coral jewelry is fascinating



for its timeless beauty and workmanship, and its design matches all fashion styles.

#### 2) Beautiful Cavtat and Konavle – sightseeing & art on Tuesday 26<sup>th</sup> May

The central settlement south from Dubrovnik is the picturesque town of Cavtat, the ancient Epidaurum of the Adriatic; Civitas Vetus, the predecessor of Dubrovnik.

A Medieval town built according to zoning plans on the slopes of the peninsula with two easily accessible bays. For centuries, its construction was based on the Dubrovnik principles of harmony.

Cavtat is the birth place of the great Croatia painter Vlaho Bukovac. His parental home has been transformed into a gallery of his paintings.

Konavle is the area located to the east of Dubrovnik. It is famous for its tourist villages, folklore, great seaside walk ways, beaches and promenades, the medieval town of Cavtat which is said to be the most beautiful town in Croatia, resting places near the Ljuta river, the Konavle valley, and Park Prevlaka which is the most southern part of Croatia.



## ITA WTC 2015 CROATIA

- Departure from hotel (by minivan or bus with English speaking guide)
- Drive along Dubrovnik Riviera to Cavtat
- Walking tour of Cavtat (Mausoleum, Bukovac gallery and church visit)
- Drive to the Konavle region
- Lunch in rural household – local specialities
- Return to hotel

### 3) Amazing Dubrovnik panorama (by cable car) & island of Lokrum (by boat) on Wednesday 27<sup>th</sup> May

The first mention of Lokrum in writing came in 1023, in connection with the founding of the Benedictine abbey and monastery.

The very name of the island of Lokrum shows that even in ancient times there were plants from the far corners of the world growing here (Lokrum comes from the Latin *acrumen*, sour fruit). The tradition of bringing in exotic plants and gardening that existed from the time of the Benedictines to that of Maximilian Ferdinand was continued in 1959 with the foundation of the Botanical Garden. Most of the plant varieties derive from Australia and South America; of particular interest is the collection of eucalyptuses, cactuses and succulents. In 1964 the island of Lokrum was declared a Managed Nature

Reserve, and in 1976 a Special Forest Vegetation Reserve. There is a little lake called the Mrtvo more, Dead Sea, on the island, linked with the open sea, and suitable for children and non-swimmers to bathe in.

- Departure from hotel (with English speaking guide)
- Cable car drive to mount of Srđ (412m)
- Dubrovnik panorama including visit to Museum of the homeland war
- Cable car drive and short walk to the Old Port
- Boat ride to the island of Lokrum- natural forest reserve
- Walk along the island including visit to Botanical garden
- Return to the hotel by bus

### 4) Wellness & SPA delight

When you simply want to relax and enjoy, than there is no better choice than the hotels wellness center. Ragusa SPA at Valamar Lacroma Dubrovnik hotel is all about rejuvenation. Perfect balance of earth tones and Mediterranean aromas offers the most comprehensive array of spa treatments in Dubrovnik, making you feel special every step of the way. After a special Valamar Lacroma SPA packet you will feel like a goddess.



## Excursions

On Friday 22<sup>th</sup> May, Saturday 23<sup>th</sup> May, Sunday 24<sup>th</sup> May

On Thursday 28<sup>th</sup> May, Friday 29<sup>th</sup> May, Saturday 30<sup>th</sup> May, Sunday 31<sup>st</sup> May

### 1) Full Day Excursion, Ston & Pelješac Peninsula

on Friday 22<sup>th</sup> May

Ston is the main town of the county which is located on the Peljesac peninsula. The town of Ston has the second largest wall surrounding it – this defense wall dates back to 14th Century, it is 5,5 km long and it is also the longest remaining fortification system in the world after the Chinese Wall. Ston also has the oldest salt pans in Europe located on the sea. Ston is famous for its oysters, coming from its own breeding site. Pelješac peninsula is second largest peninsula in Croatia, located northwest of Dubrovnik, famous for its vineyards, quality wine, real tasty sea-shells, salt pans and the medieval town of Ston.

- Departure from hotel (by minivan or bus with English speaking guide)
- Drive along Dubrovnik Riviera to Ston
- Walking tour of Ston, famous because of its city walls and salt pans
- Lunch in famous seafood restaurant – oyster tasting
- Drive along picturesque Pelješac peninsula
- Visit of vineyards, wine cellar, wine tasting
- Return to the hotel

### 2) Full Day Excursion, Island Korčula on Saturday 23<sup>th</sup> May

The greenest, most independent and most interesting of Croatia's 1,000 or so islands, Korcula (hometown of Marco Polo) was a favourite Greek holiday spot over 2,000 years ago. Very much a law unto itself - as you might expect from a community that resisted the sieges of centuries - Korcula town is a mini-fortress enclosed with honey-colored stone walls that contain hidden treasures, from icons to Tiepolos, as well as architectural delights in every narrow, cobbled street.

- Departure from hotel (by minivan or bus with English speaking guide)
- Drive along Dubrovnik Riviera
- Lunch
- A short boat ride to island Korcula
- Visit of Romanesque-Gothic Cathedral of St Mark and Franciscan monastery with a beautiful Venetian Gothic cloister
- Return to hotel



**3) Half Day Excursion, charming Medieval Town Trsteno**

on Sunday 24<sup>th</sup> May

Trsteno is a beautiful medieval town located 29 km from Dubrovnik. It is best known for the wonderful botanical beauty of its Arboretum, dating from 16th century, and Gothic-Renaissance garden of family Gučetić-Gozze centered around the summer residence from 1494.

In the arboretum tour you can enjoy the amazing architecture of Neptun's fountain and the old Trsteno Aquaduct, as well as the amazing view of the Elaphite islands.

- Departure from hotel (by minivan or bus with English speaking guide)
- Drive along Dubrovnik Riviera to Trsteno
- Visit of the Arboretum
- Panoramic drive and stop at the vista point overlooking the city
- Lunch
- Return to hotel



is considered the historic center of the city, and for its lively area within and around the old town

Međugorje is a town located in the Herzegovina region of western Bosnia and Herzegovina, around 25 km (16 mi) southwest of Mostar and close to the border of Croatia. Since 1981, it has become a popular site of religious pilgrimage due to reports of apparitions of the Virgin Mary to six local Catholics.

- Departure from hotel (by minivan or bus with English speaking guide)
- Drive to Mostar and walking tour
- Drive to Međugorje
- Lunch
- Walking tour
- Return to hotel

**5) Post Conference Two Days Tour, Split & River Krka Falls**

on Friday 29<sup>th</sup> May

Split, the second largest city in Croatia is the economic, administrative, educational, sport and tourist center of Central Dalmatia and the traffic connection to the croatian islands. It is centered around the ancient Roman



Palace of the Emperor Diocletian and its bay and port and is also one of the oldest cities in the area.

While making its way to the Adriatic Sea Krka forms many lakes, falls and water currents. Because of the natural beauty and geological characteristics around, the Krka River was declared a National park in 1985. The most impressive and most visited waterfall is Skradinski buk and Roški falls.

- Departure from hotel
- Drive along Dubrovnik Riviera and Makarska Riviera to Split
- Lunch
- Walking tour of Split
- Overnight stay in the hotel at Split
- Continue driving to River Krka Falls
- Walking tour of River Krka Falls
- Lunch
- Continue driving to Zagreb

**6) Post Conference Two Days Tour, Plitvice Lakes & Zagreb**

on Saturday 30<sup>th</sup> May

Plitvice lakes is the oldest national park in Southeast Europe and largest in Croatia. It

is protected under UNESCO World Heritage among first natural sites worldwide.

The national park is world famous for its lakes arranged in cascades. Currently, 16 lakes can be seen from the surface. These lakes are a result of the confluence of several small rivers and subterranean karst rivers. The lakes are all interconnected and follow the water flow.

Zagreb is a fascinating destination on its own, combining the best of Eastern and Western Europe. As the political, economic and cultural capital of Croatia, the city throbs with energy but has retained a good deal of old-world graciousness. The sober Austro-Hungarian buildings in the town center house elegant restaurants and fashionable boutiques along with scruffy pubs and rowdy beer halls.

- Departure from hotel
- Drive to Plitvice lakes
- Lunch
- Walking tour of Plitvice lakes
- Dinner
- Overnight stay in the hotel at Plitvice
- Continue driving to Zagreb
- Visit of Zagreb's most famous places, upper and lower town
- Lunch





**7) Post Conference Two Days Tour, Sarajevo**  
on Sunday 31<sup>st</sup> May

Sarajevo is the capital and largest city of Bosnia and Herzegovina. It is the leading political, social and cultural center and is famous also as a center of entertainment, media, fashion, science and education. It is one of the rare major European cities with such a traditional, cultural and religious diversity coexisting there for centuries.

**DAY 1**

- Departure from hotel
- Sightseeing in Sarajevo
- Overnight stay in the hotel at Sarajevo

**DAY 2**

- Departure from hotel and drive along Bosnia and Herzegovina and Dubrovnik Riviera to Dubrovnik



**8) Boat Excursion, Enchanting Elafiti Islands**  
upon request

Elafiti are a group of islands located west from Dubrovnik, where once lived the deers and thanks to them the islands are named. The largest island in the group is Sipan, and there are also Lopud, Koločep (Kalamota) Jakljan, Ore, and Goleč Crkvine and some smaller islands and reefs like Grebeni. With its breathtaking scenery and sandy beaches they attract many tourists.

- Sightseeing from boat
- Dinner & Cocktail



ITA,  
the leading international  
organization promoting  
the use of tunnels and  
underground space  
through knowledge  
sharing and application  
of technology

Since 1974, the International Tunnelling and Underground Space Association has grown to a federation of 71 Member Nations, acquire a consultative status with the United Nations Economic and Social Council, developed a network for the worldwide tunneling community, established a platform for the developing of new technologies, brought awareness of the possibilities for underground space to decision makers, encouraged safety throughout at all levels of the industry and established a training program.

Through its partnership and collaboration with the UN, World Bank and other International Associations, ITA is actively working for a better, safer and sustainable use of underground space.

We would like to thank our Prime Sponsors of supporting ITA allowing us to reach these achievements.



INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE  
ASSOCIATION  
[www.ita-aites.org](http://www.ita-aites.org)



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### PLATINUM



### SILVER



### BRONZE



## EXHIBITORS



#### CONTACT DATA:

ITA WTC2015 and 41st General Assembly of ITA-AITES  
Web : [www.wtc15.com](http://www.wtc15.com)

#### Main Organizer:

ITA CROATIA  
E: [info@itacroatia.eu](mailto:info@itacroatia.eu)  
Web: [www.itacroatia.eu](http://www.itacroatia.eu)

#### HUBITG MEDIA doo

##### (Zagreb office)

Trnjanska 140  
10 000 ZAGREB  
Croatia

#### HUBITG MEDIA doo

##### (Rijeka office)

Kruzna 8  
51 000 RIJEKA  
Croatia

#### Congress secretariat:

HUBITG MEDIA doo, congress travel agency, class AB

Sanela Kovacevic, Marketing Manager, Office Zagreb

E: [sanela.kovacevic@hubitg.com](mailto:sanela.kovacevic@hubitg.com)

T: 00385-1-6130-063

F: 00385-1-6130-062

M: 00385-99-6130-063

Lorena Vukelić, Marketing Manager, Office Rijeka

E: [lorena.vukelic@hubitg.com](mailto:lorena.vukelic@hubitg.com)

T: 00385-51-410-447

F: 00385-51-410-450

M: 00385-99-4410-447

Ana Hrkac, Exhibition Coordinator, Sponsoring

E: [ana.hrkac@hubitg.com](mailto:ana.hrkac@hubitg.com)

T: 00385 1 6130-003

F: 00385 1 6130-062

Jelena Neal, mag.ing., Web Coordinator, Sponsoring

E: [jelena.neal@hubitg.com](mailto:jelena.neal@hubitg.com)

T: 00385 51 410-447

F: 00385 51 410-450



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