



**FGU** Fachgruppe für Untertagbau  
**GTS** Groupe spécialisé pour les travaux souterrains  
**GLS** Gruppo specializzato per lavori in sotterraneo  
**STS** Swiss Tunnelling Society

# Swiss Tunnel Congress 2012

## Lucerne Culture and Convention Centre

### Programme

**Swiss Tunnel Colloquium: Wednesday, 13 June 2012**

**Swiss Tunnel Congress: Thursday, 14 June 2012**

**Excursions: Friday, 15 June 2012**

*Translation from French and English to German (only 14.6)*

*Translation from German to English (13.6 and 14.6)*

*Simultaneous translation from German to French (only 14.6)*



# Swiss Tunnel Congress 2012

The Swiss Tunnelling Society (STS) hosts the annual Swiss Tunnel Congress (STC) in the Lucerne Culture and Convention Centre (KKL Lucerne). In recent years this congress, which originally developed from the AlpTransit Conferences, has become a leading event for tunnelling engineers.

In 2011 the attendance at the congress was around 800 persons from 10 countries. High-class presentations were delivered that were followed by the traditional excursions to major construction sites in Switzerland.

The STC 2012 is organised by the STC Steering Committee of the Swiss Tunnelling Society:

- |                                  |                         |
|----------------------------------|-------------------------|
| • Martin Bosshard, Dipl. Ing.    | President STS           |
| • Gian Luca Lardi, Dipl. Ing.    | Swiss Tunnel Congress   |
| • Georg Anagnostou, Prof. Dr.    | Swiss Tunnel Colloquium |
| • François Bertholet, Dipl. Ing. | Swiss Tunnel Colloquium |

## Advisory Board

The Advisory Board has selected interesting projects and suggested to invite top-quality speakers from abroad. It endeavours to maintain a high quality of presentation.

The Advisory Board comprises the following members:

- Miguel Fernández-Bollo Martinez, AETOS
- Robert Galler, Prof. Dr., ITA Austria
- Roland Leucker, Dr., STUVA/DAUB
- Enrico Arini, Dr., SIG
- Jean Philippe, AFTES



## A Warm Welcome



The Swiss Tunnelling Society, FGU, is delighted to welcome you to this year's Swiss Tunnel Congress 2012, held once again in the Lucerne Culture and Convention Centre.

In 2012 we are focussing on a topic that is becoming quite important, namely the construction of tunnels and galleries for hydroelectric power plants. Appropriately, therefore, the congress will open with an introductory address by Mr Jörg Aeberhard, President of Hydrosuisse and Head of Hydroelectric Power Production with Alpiq. The colloquium will be devoted to the construction of galleries and underground chambers for hydroelectric power plants.

The STC 2012 will feature once again the current construction activities of the Gotthard Base Tunnel, since with the breakthrough the work is not finished and there are still big challenges to overcome. Nonetheless, the STC is giving increased attention to presentations on other construction projects both in Switzerland and abroad. I am satisfied that we have been able to put together an interesting programme for the STC 2012 with outstanding projects and expert speakers.

The format of the STC 2012 remains more or less the same as in previous years. The exhibition will also be organised in a similar way to recent years. Three areas have been reserved for firms exhibiting their products, namely in the Foyer, in the Exhibition Foyer and the Lucerne Terrace. Just a minor change has been made to the sponsoring concept in 2012 and the following years, in order to be compatible with the sponsoring of the World Tunnel Congress 2013 in Geneva. Thus, here in Lucerne we are reminded that WTC 2013 looms on the horizon.

I hope that everybody will find the congress interesting and that you have a pleasant stay in the Lucerne Culture and Convention Centre. Enjoy meeting up again with friends and acquaintances during the Exhibition or at the Aperitifs.

Let me finally mention the commitment of all those who have supported the organising committee, the speakers and sponsors without whom we could not hold the STC.

My sincere thanks and welcome to Lucerne.

Swiss Tunnelling Society

Martin Bosshard, President

# Swiss Tunnel Colloquium 2012

The extension of existing power plants to be more efficient as well as the construction of new high-performance pumped storage schemes is becoming increasingly important today. Underground construction engineers are confronted with highly demanding questions regarding hydraulic, constructional and operational aspects. This year's colloquium will look at the most important of these challenges and report on them in detail in the technical sessions. As in previous years the colloquium speakers will be experts from the areas of planning, design and execution as well as from industry and is aimed not only at students and young engineers but also at experienced practitioners.

12.00 Registration in Conference Secretariat  
(in the Foyer of the Conference Room)

13.00 Welcome by the Chairman of the Colloquium  
Georg Anagnostou, Prof. Dr.  
Institute of Geotechnical Engineering, ETH Hnggerberg, Zurich



## CONSTRUCTION OF TUNNELS, GALLERIES AND UNDERGROUND CAVERNS FOR HYDROELECTRIC POWER PLANTS

13.05 Challenges and trends in the alignment and lining of pressure tunnels in the case of hydroelectric power plants  
Anton Schleiss, Prof. Dr., Dipl. Bauing.  
Laboratoire de constructions hydrauliques, Swiss Federal Institute of Technology EPFL, Lausanne



13.40 Rock mechanics aspects in the planning and design of large underground caverns  
Francesco Amberg, Dipl. Bauing. ETH  
Lombardi AG, Minusio



14.15 Penstock shafts inclined or vertical – considerations regarding the choice of alternatives from the standpoint of a hydroelectric power plant operator  
Hans Bodenmann, Dipl. Bauing. ETH/SIA  
BKW FMB Energie AG, Berne



# Colloquium Programme, 13 June 2012



14.50–15.10 Coffee break

15.10 Shaft construction with the raise boring technique  
Peter Stakne, Ing.  
Marti Tunnelbau AG, Moosseedorf



15.45 Interface concrete construction – steel hydraulic engineering as exemplified by Cleuson Dixence  
Claudia Pollak-Reibenwein, Dr. techn., Dipl. Ing.  
Andritz Hydro GmbH, Linz



16.20 The influence of nature, local site conditions and construction time on the construction logistics of hydroelectric power plant structures  
Piero Chirco, Dipl. Bauing. ETH  
Marti Tunnelbau AG, Moosseedorf



16.55 Technical and economic aspects of passive prestressed pressure tunnels as illustrated by the Niagara Tunnel Facility Project  
Helmut Wannemacher, MSc  
Amberg Engineering AG, Sargans



17.30 Closing remarks  
followed by aperitif in the exhibition

18.30 End of Colloquium

# Swiss Tunnel Congress 2012

08.30 Registration in Conference Secretariat  
(in the Foyer of the Conference Room)

08.30 Welcome coffee

## INTRODUCTION

09.30 Official opening and welcome  
Martin Bosshard, Dipl. Bauing. ETH/SIA  
President, Swiss Tunnelling Society



09.45 Opening speach  
Switzerland's waterpower  
Jörg Aeberhard, Lawyer and Notary  
President Hydrosuisse, Head of Hydroelectric Power Production with  
Alpiq, Olten



### **Chairman of Morning Session**

Xavier Roulet

## MORNING LECTURES

10.10 The future is waterpower – Linthal 2015  
Rolf W. Mathis, Dipl. Masching. ETH, Wirtschafts-Ing. STV  
Axpo Hydroenergie, Baden



10.30 Technical challenges in the construction of  
the pumped storage scheme Nant de Drance  
François Bertholet, Dipl. Bauing. HTL  
Marti Tunnelbau AG, Moosseedorf



10.50 – 11.20 Coffee break

# Congress Programme, 14 June 2012



11.20 Difficult renovation of the Croix Rousse Tunnel – excavation using blasting in a distinctly urban environment  
Florent Martin, Ing. Géotechnique et Génie Civil  
Spie Batignolles TPCI, Boulogne-Billancourt



11.40 Tunnelling in Rome  
Line C, the Metro under the historic part of the city  
Francesco Maria Rotundi, Ing.  
Metro C S.p.A., Rome



12.00 Galleria Sparvo (I)  
Geological and geotechnical issues related to the design of «Martina», the world's largest EPB TBM  
Giuseppe Lunardi, Dr. Ing.  
Rocksoil S.p.A., Milan



Alberto Selleri, Dr. Ing.  
Spea Ingegneria Europea S.p.A., Milan



12.20 Shanghai Yangtze River Tunnel  
Some key issues of planning, design and construction  
Bai Yun, Prof., PhD, FICE CEng.  
Tongji University, Shanghai

12.40 Discussion

13.00 – 14.30 Lunch in the Lucerne Culture and Convention Centre



# Swiss Tunnel Congress 2012

## Chairman of Afternoon Session

Jürg Röthlisberger

## AFTERNOON LECTURES

- 14.30      The first flat railway line through the Alps  
Current challenges on the Gotthard axis  
Renzo Simoni, Dr. sc. techn., Dipl. Bauing. ETH/SIA  
AlpTransit Gotthard AG, Lucerne
- 14.50      Ceneri Base Tunnel  
Aspects of geological risk in advancing with high overburden  
Nicola Grosso, PhD, Geotechnical Engineer  
Consorzio Condotte Cossi, Sigirino
- 15.10      Driving the Gotthard Base Tunnel  
Historical review – experiences and lessons learned from  
the client’s perspective  
Heinz Ehrbar, Dipl. Bauing. ETH/SIA  
AlpTransit Gotthard AG, Lucerne
- 15.30      Installations for rough tunnel structure in the Gotthard Base Tunnel  
Tunnel installations in the boundary region  
Davide Fabbri, Dipl. Bauing. ETH/SIA  
Lombardi AG, Minusio
- 15.50      Gotthard Base Tunnel  
Installation of the rail technology in the case of the  
ballast-free rail track – production as on a conveyor belt  
Detlef Obieray, Dipl. Ing. (univ.)  
Balfour Beatty Rail Schweiz GmbH, Stans
- 16.10 – 16.40    Coffee break







- 16.40 Wehrhahn Line Düsseldorf  
Driving under the Kaufhof at the Kö – ground freezing to support excavation by the drill-and-blast method  
Benno Müller, Dipl. Ing.  
Max Bögl Bauunternehmung GmbH & Co. KG, Munich



- 17.00 Koralm Tunnel  
Driving concept and logistics from the major contract section KAT2  
Jürg Matter, Dipl. Bauing. ETH/SIA  
Basler & Hofmann AG, Zurich



- 17.20 Zurich Cross Rail – «The mined cut-and-cover method»  
Lessons learned  
Nicolas Hessler, Dipl. Bauing. ETH  
Pöyry Infra AG, Zurich



- 17.40 «CEVA – the urban integration of the Pinchat Tunnel»  
Grégoire Favre, Ingénieur civil dipl. EPFL/SIA  
BG Ingénieurs Conseils SA, Lausanne

- 18.00 Discussion

- 18.20 Closing remarks  
Martin Bosshard, Dipl. Bauing. ETH/SIA  
President, Swiss Tunnelling Society

- 18.30 Followed by aperitif at the Lucerne  
Culture and Convention Centre

## Construction Progress on the Gotthard Base Tunnel

On the 23rd March 2011 the final breakthrough of the west tube between Faido and Sedrun could be celebrated. Thus the continuous advance of the tunnel since the end of 2002 could be successfully completed. Over large stretches of the tunnel the driving operations went smoothly. Practically in every subsection however extreme conditions had to be overcome.

Following on from the driving operations the centre of attention has been the rough tunnel structure in the completion of the inner lining and other installations.

The installation of the rail track system in the Gotthard Base Tunnel was begun in September 2011. Firstly the cables were installed together with the installation of temporary equipment. From February 2012 the rail track will be laid.

The start of operations will be in autumn 2015. The commercial operations are planned to start at the end of 2016.

Erstfeld

Amsteg

Sedrun

Faido

Bodio

- construction work already completed
- ready to install the rail track system

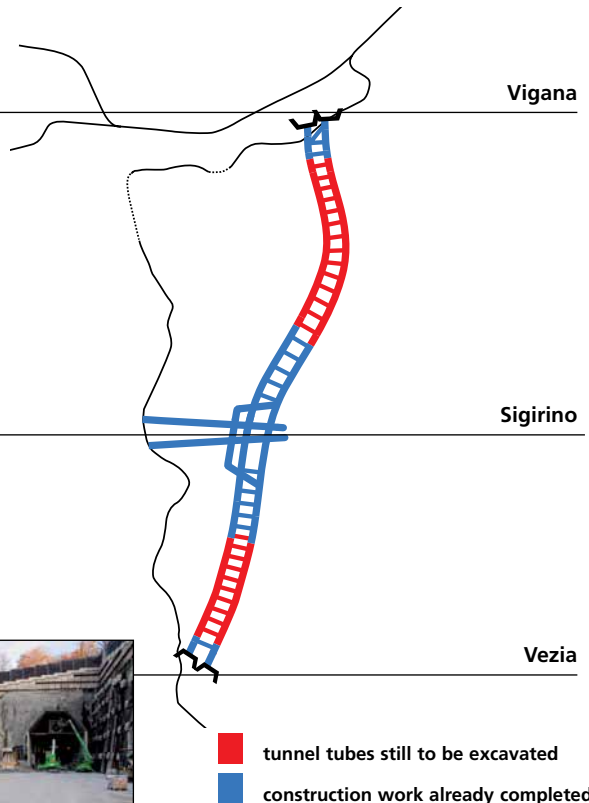


## Construction Progress on the Ceneri Base Tunnel

The Ceneri Base Tunnel is 15.4 km long and connects the Magadino Plain from the North Portal Vigana/Camorino to the region of Lugano with the South Portal Vezia. As with the Gotthard Base Tunnel, it consists of two single-track tubes that are connected every 300 m by cross passages. The work on the Ceneri Base Tunnel is progressing well. The excavation work at the two portals in Camorino and Vezia were completed before the end of 2011.

In the main contract section the advances in the north and south directions are running at full speed. In the southern advance the Val Colla zone, which was assessed as difficult, has in the meantime been driven through.

Over 40% of the total of 39.8 km long tunnel system has already been excavated. The start of commercial operations of the Ceneri Base Tunnel is planned for 2019.

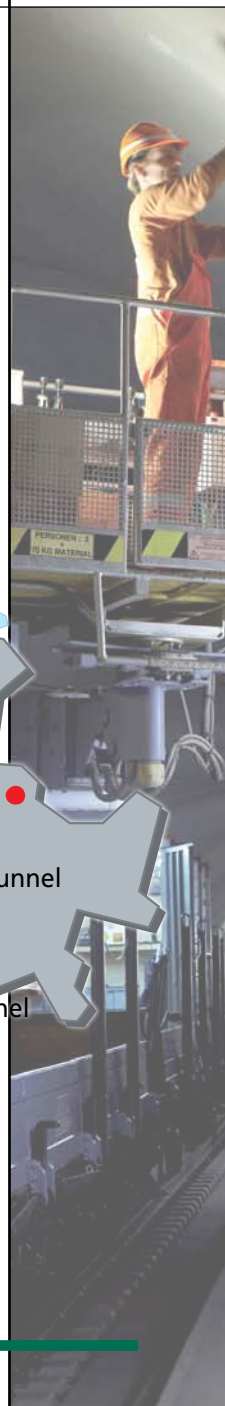
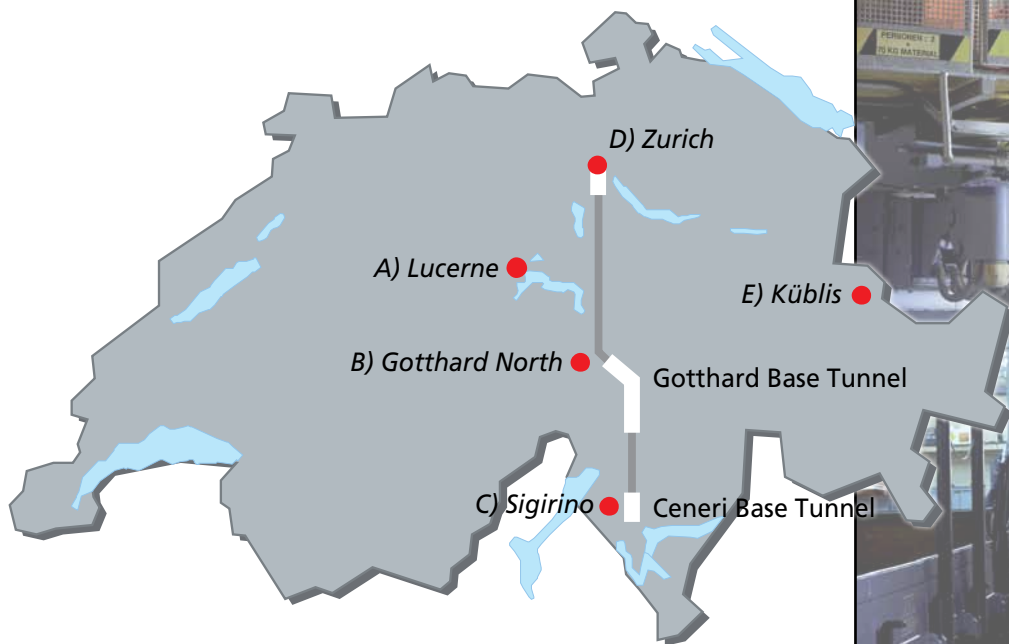


# Swiss Tunnel Excursions 2012

The Swiss Tunnelling Society organises annually the Swiss Tunnel Congress held in the Lucerne Culture and Convention Centre, with excursions on the following day. This year's excursions are the construction site of the City Ring in Lucerne, the AlpTransit projects, the Zurich Cross Rail and the Küblis Bypass.

This year the participants can choose from the following five excursions:

- A) City Ring, Lucerne (Wednesday, 13.06.2012)
- B) AlpTransit Gotthard: Rail Technology, Subsection North
- C) AlpTransit Gotthard: Ceneri Base Tunnel
- D) Zurich Cross Rail
- E) Küblis Bypass



## Site Visit, 13 June 2012

### A) Total Renewal of City Ring, Lucerne

After nearly 40 years of service, wear and tear due to traffic and the elements on the A2 near Lucerne is very evident. The Reussport and Sonnenberg tunnels have been in the process of renovation since November 2010, during the night on weekdays and on selected weekends. At the end of 2011 the work in the northern direction had been completed on time. In 2012 the work will continue in the southern direction. This somewhat unique construction site can be inspected in a specially organised visit.

- 19.45 Meet at the Carparking Inseli (parking for buses behind the KKL Lucerne)  
Distribution of equipment / protective clothing,  
allocation to groups in small buses
- 19.55 Departure from the Carparking Inseli
- 20.00 Visit to the construction sites of the Sonnenberg and Reussport  
tunnels as well as the installation area Ibach
- 22.15 approx. arrival at the Carparking Inseli in Lucerne

- Jackets and helmets provided. Shoes or boots suitable for construction site are adequate for the visit.
  - **The number of participants is limited.**
- The costs of the excursion are included in the congress fee.





# Site Visit, 15 June 2012

## Tour B) AlpTransit Gotthard Rail Technology, Subsection North

In autumn 2011 work could begin on the installation of the rail technology from Erstfeld in the east tube. Firstly, the temporary construction facilities (electricity, etc.) were installed and at the same time the cables were pulled into place, followed by the preparations for the fixed rail track. Starting at Erstfeld, in the next four years a large part of the rail technology, such as the track, the contact wire, the power supply, telecommunication and safety facilities will be installed. The Gotthard Base Tunnel will be ready to start its regular railway operations in 2016. Parts of the rail technology installations, in particular the installation site Rynächt can be visited in the excursion.

- 07.50 Meet at the Carparking Inseli (parking for buses behind the KKL Lucerne)
- 08.00 Departure Lucerne (by bus)
- 08.45 Arrival at the canteen in Amsteg, coffee and croissant
- 09.15 Divide into 2 groups:
  - provision of protective clothing
  - short introduction
  - visit to the construction site subsection Erstfeld-Sedrun, East and West tubes
  - visit the installation area with the sheds (concrete production, component parts store, workshop and shed for the catenary system and cables)
- 13.00 approx. lunch in the canteen at Amsteg
- 14.45 Return by bus to Lucerne
- 15.30 approx. arrival at the Carparking Inseli in Lucerne

- Protective clothing, boots and helmets provided.
- For those coming by car there are parking spaces at the canteen but taking the bus is recommended.
- The programme may have to be adjusted due to operational restrictions at the site.
- **The number of participants is limited.**

The costs of the excursion are included in the congress fee.



## Site Visit, 15 June 2012

### Tour C) AlpTransit Gotthard Ceneri Base Tunnel

Visit to the installations above ground, especially the management and handling and final storage of materials, and also the installations below ground. From the intermediate attack in Sigirino you will travel into the tunnel in a small bus and then explore on foot one of the four main tunnelling operations. Afterwards you will divide into two groups and visit the construction sites at the North Portal Caorino/Vigano or the South Portal in (Vezia). With a length of 15.4 km the between the North Portal Vigano near near Camorino and the South Portal in Vezia after the Gotthard Base Tunnel the Ceneri Base Tunnel is the second largest tunnel project in Switzerland.

- 07.10 Meet at the Carparking Inseli (parking for buses behind the KKL Lucerne)  
07.15 Departure Lucerne (by bus)  
09.30 Arrival at ATG construction site in Sigirino.  
Site visit in 2 groups (every 20 minutes) by minibus  
- presentation of project, progress of construction works  
- inspection of above ground installations  
- entry through the 2.3 km access tunnel and visit to the underground construction site (intermediate attack Sigirino)  
12.00 Lunch in the canteen of the construction site village in Sigirino  
13.30 Depart by minibus for the portal construction site Comorino/Vigana or Vezia  
13.45 Arrive at construction sites Comorino/Vigana or Vezia and site visit  
Return to Sigirino by minibus  
14.45 Return to Lucerne, transport to railway station Bellinzona, if required  
17.00 approx. arrival at the Carparking Inseli in Lucerne

- Protective clothing, boots and helmets provided.
- For those coming by car there is only a limited number of parking spaces at the site. Taking the bus is recommended.
- The programme may have to be adjusted due to operational restrictions at the site.
- **The number of participants is limited.**

The costs of the excursion are included in the congress fee.





# Site Visit, 15 June 2012

## Tour D) Zurich Cross Rail, Railway Station Löwenstrasse/Weinberg Tunnel

On 30.06.2012 the structural work for the Weinberg Tunnel will be completed and the tunnel handed over to the rail technology group. This is the last opportunity for visiting the construction site. Under the South Wing the temporary slurry guide walls are being removed and sealing and concreting the walls is in progress – in the longitudinal direction the inner lining is being constructed under very confined conditions. The drill-and-blast cut-and-cover technique is very impressive. The Löwenstrasse Station now has spectacular dimensions. The excursion provides the opportunity to see Zurich from an unusual perspective.

- 07.50 Meet at the Carparking Inseli (parking for buses behind the KKL Lucerne)
- 08.00 Depart Lucerne by bus
- 08.45 Arrive at the Carparking Sihlquai, dividing up into groups
- 08.45 Project presentation in the information room, Zurich Mainstation.  
Provision of protective clothing
- 09.45 Site visit to lot 2 or lot 3
- 11.00 Coffee and croissant. Exchange of protective jackets, helmets
- 11.30 Site visit to lot 2 or lot 3
- 13.00 Lunch
- 14.15 approx. return from the Carparking Sihlquai to Lucerne
- 15.15 approx. arrival in Lucerne

- Jackets and helmets provided. Suitable shoes are adequate for the site visit.
- No parking spaces are available. Travel by bus or public transport recommended.
- **The number of participants is limited.**

The costs of the excursion are included in the congress fee.



# Site Visit, 15 June 2012

## E) Küblis Bypass

With the bypass the amount of through-traffic will be substantially reduced in the traffic congested village of Küblis and the quality of life of local residents will be greatly improved. In the excursion the continuing blasting operations for the Küblis Tunnel, which will traverse the Schaniela Gorge by the combined drill-and-blast and cut-and-cover method will be visited together with the above ground structures at the two tunnel portals.

07.20 Meet at the Carparking Inseli (parking for buses behind the KKL Lucerne)

07.30 Depart Lucerne by bus

09.45 Coffee and croissant, welcome in the Info room

10.00 Presentation of project by the site engineers

Site visit in 3 groups:

- structures at Dalvazza (cut-and-cover section, groundwater tank, electrical and ventilation control rooms)

- advance of the Küblis Tunnel, incl. the undercrossing of the Schaniela Gorge

- deposition of muck in the Schaniela Gorge

- structures in Prada (cut-and-cover tunnel, electrical control room)

12.30 Lunch

14.00 Return to Lucerne

16.00 approx. arrival at the Carparking Inseli in Lucerne

- Protective clothing, boots and helmets provided.
- For those going by car there is only a limited number of parking spaces available. Taking the train and bus is recommended.
- The programme may have to be adjusted due to operational restrictions at the site.
- **The number of participants is limited.**

The costs of the excursion are included in the congress fee.



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Many thanks to all sponsors!



## Organisation

### **Closing date for registration: Friday, 30. April 2012**

Please use the enclosed registration form or register online at [www.swisstunnel.ch](http://www.swisstunnel.ch)

Your registration is considered to be definite after receipt of your payment by the Swiss Tunnelling Society:

CREDIT SUISSE Baden, Clearing No: 4050, Swift Code: CRESCH ZZ 54 A

#### **Payment in Swiss Francs**

Account No: 820321-21

IBAN: CH18 0483 5082 0321 2100 0

#### **Payment in Euro**

Account No: 820321-22

IBAN: CH81 0483 5082 0321 2200 0

At the beginning of June you will receive the congress documentation as well as confirmation in the form of an invoice (receipt supplied for VAT purposes).

### **Preliminary Announcement of Swiss Tunnel Congress 2013**

The STC 2013 will be integrated into the World Tunnel Congress, which will take place from the 31st May to the 7th June 2013 in Geneva.



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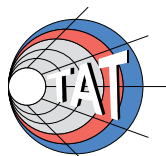


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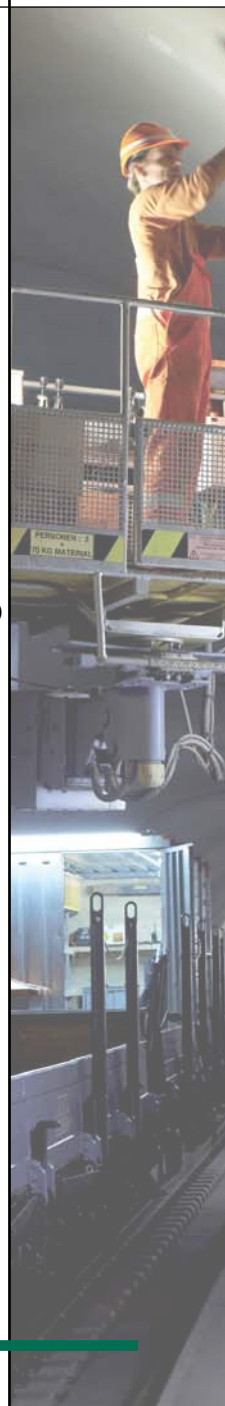


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# Organisation

## Fees for Participants Swiss Tunnel Congress 2012

### Lectures, Excursion, Proceedings

STS Member	CHF 560.–	EUR 460.–
Non-member	CHF 620.–	EUR 510.–
Student	CHF 250.–	EUR 210.–

### Colloquium, Proceedings

STS Member	CHF 175.–	EUR 145.–
Non-member	CHF 200.–	EUR 165.–
Student	CHF 60.–	EUR 50.–

Dinner (drinks included)	CHF 130.–	EUR 110.–
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### Excursion, Proceedings

One excursion	CHF 250.–	EUR 210.–
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All prices include 8% VAT

All participants will receive the proceedings at the Swiss Tunnel Congress. The book can be obtained with the supplied voucher at the Conference Secretariat in the Lucerne Culture and Convention Centre. Participants who only take part in an excursion will receive the proceedings using the voucher when they enter the bus.

## Cancellation conditions

- In the case of cancellation after the closing registration date and up to one week before the Congress, 50% of the costs will be refunded, however the congress proceedings will be sent to you.
- In the case of cancellation within the last week before the Swiss Tunnel Congress, the full payment of the congress fee will be charged, but the congress proceedings will be sent to you. Alternatively, you may nominate another person to take your place.





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## Main Sponsors



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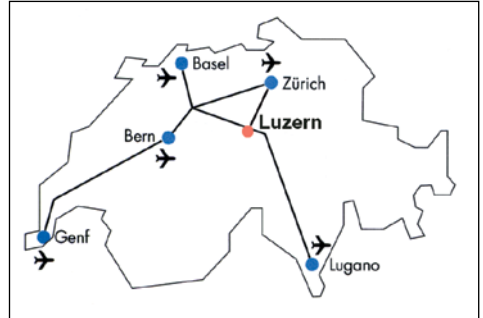




## Directions

### By public transport

- From Zurich Airport by train in 1¼ h
- From Geneva Airport by train in 3 h
- The Lucerne Culture and Convention Centre (KKL) is in the immediate vicinity of the Main Railway Station in Lucerne.

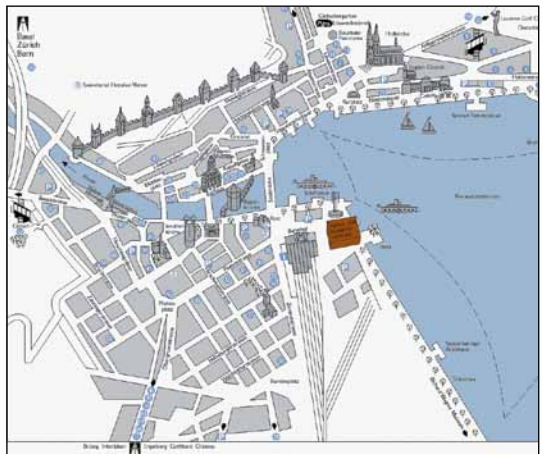


### By car

Parking is available in the vicinity of the Lucerne Culture and Convention Centre in several multi-storey car parks.

### Lucerne Culture and Convention Centre

Europaplatz 1  
PO Box 3570  
6002 Lucerne  
Tel. +41 (0)41 226 70 70  
Fax +41 (0)41 226 70 71  
[www.kkl-luzern.ch](http://www.kkl-luzern.ch)



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 **Marti** **Marti tunnel** Marti Holding AG, Moosseedorf

 **pini associati** Pini Associati, Lugano  
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 **PÖYRY** Pöyry Infra AG, Zürich

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# Hotel Reservation

Please reserve your hotel room online at [www.swisstunnel.ch](http://www.swisstunnel.ch) or directly using the enclosed form:

Luzern Incoming GmbH  
Frau Maria Santin  
Arsenalstrasse 40  
6010 Kriens  
Tel. +41 (0)41 445 10 00  
Fax +41 (0)41 445 10 09  
email [maria.santin@luzern-incoming.ch](mailto:maria.santin@luzern-incoming.ch)  
Internet [www.luzern-incoming.ch](http://www.luzern-incoming.ch)

Reservations should be made **at the latest by 30. April 2012**, since afterwards the block bookings of hotel rooms expire.

**Room reservation is the responsibility of the participant!**

The price of the hotel room is not included in the congress fee.

## Rail connections to Lucerne

	departure	arrival in Lucerne
Aarau	8.14	9.05
Basle	8.04	9.05
Bellinzona	6.36	8.41
Berne	8.00	9.00
Brig	6.49	9.00
Chur	7.13	9.25
Geneva	6.10	9.00
Lausanne	6.45	9.00
Locarno	6.03	8.41
Sion	6.24	9.00
St. Gall	7.02	9.20
Zurich Main Station	8.04	8.49
Zurich Airport	8.13	9.25

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## Evening Event 14 June, 2012



After the presentations the Swiss Tunnelling Society is offering an aperitif in the Foyer of the Lucerne Culture and Convention Centre.



Later, in the banqueting hall of the first class Hotel Schweizerhof \*\*\*\*\* you can indulge yourself with some culinary delights.

Opening time	19.45 h
Dinner	20.00 h

Dinner is not included in the congress fee and is billed separately.

Costs per person CHF 130.-/  
EUR 110.- (incl. 8% VAT),  
drinks included.



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## Swiss Tunneling Society

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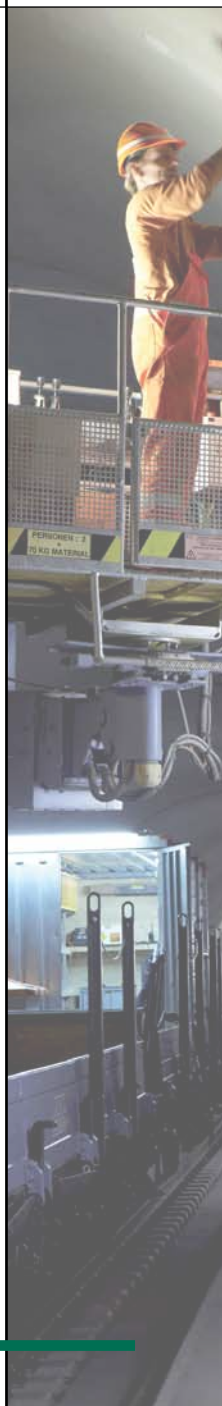
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# Programm Swiss Tunnel Congress 2012



	Swiss Tunnel Colloquium	Swiss Tunnel Congress	Excursions
	<b>Wednesday, 13 June 2012</b>	<b>Thursday, 14 June 2012</b>	<b>Friday, 15 June 2012</b> (City Ring, Lucerne, 13 June 2012)
07.30-08.00			<b>A) Total Renewal of City Ring, Lucerne</b> (Wednesday, 13.06.2012)
08.00-08.30		Registration Conf. Secretariat	<b>B) AlpTransit Gotthard: Rail Technology, Subsection North</b>
08.30-09.00		Welcome / Coffee	<b>C) AlpTransit Gotthard: Ceneri Base Tunnel</b>
09.00-09.30		Introduction	<b>D) Cross-City Link, Zurich</b>
09.30-10.00		Lectures	<b>E) Küblis Bypass</b>
10.00-10.30		Lunch	
10.30-11.00		Lectures	
11.00-11.30			
11.30-12.00			
12.00-12.30			
12.30-13.00			
13.00-13.30			
13.30-14.00			
14.00-14.30			
14.30-15.00			
15.00-15.30	Swiss Tunnel Colloquium		
15.30-16.00			
16.00-16.30			
16.30-17.00			
17.00-17.30	Exhibition with Aperitif		
17.30-18.00			
18.00-18.30			
18.30-19.00			
19.00-19.30	Guests and Sponsors Evening	Aperitif	
19.45-24.00		Dinner at Schweizerhof	
20.30-23.00	Excursion A) Total Renewal of City Ring, Lucerne		
23.00-02.00			

# STS Conference Secretariat

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## Hotel Reservations:

Luzern Incoming GmbH

Frau Maria Santin

Arsenalstrasse 40

CH-6010 Kriens

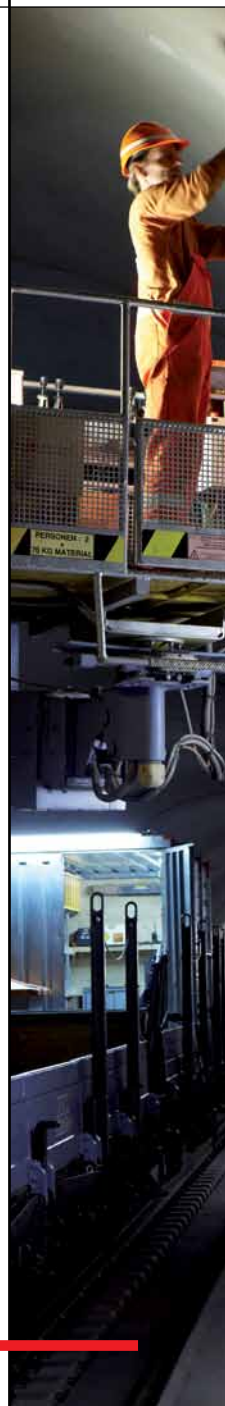
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