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**STS** Swiss Tunnelling Society

# Swiss Tunnel Congress 2011

## Lucerne Culture and Convention Centre

### Programme

**Swiss Tunnel Colloquium: Wednesday, 8 June 2011**  
**Swiss Tunnel Congress: Thursday, 9 June 2011**  
**Excursions: Friday, 10 June 2011**

*Translation from French and English to German (only 9.6)*

*Translation from German to English (8.6 and 9.6)*

*Translation from German to French (only 9.6)*



# Swiss Tunnel Congress 2011

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 2010 the attendance at the congress exceeded 800 persons from 13 countries. High-class presentations were delivered that were followed by the traditional excursions to major construction sites in Switzerland.

The STC 2011 is organised by the STC steering committee of the Swiss Tunnelling Society:

- |                                  |  |
|----------------------------------|--|
| • Felix Amberg, Dipl. Ing.       | President of STS                       |
| • Martin Bosshard, Dipl. Ing.    | Swiss Tunnel Congress (Section Leader) |
| • 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 invited top-quality speakers from abroad. It endeavours to maintain a high quality of presentation.

The Advisory Board comprises the following members:

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



# A Warm Welcome



We are delighted to welcome you to this year's Swiss Tunnel Congress, held once again in the Lucerne Culture and Convention Centre.

The year 2010 was exceptional for the Swiss tunnelling industry: the highlight without doubt was the main breakthrough in the Gotthard Base Tunnel. This historic event caught the attention of people not only in the whole of Switzerland, but even worldwide. In reporting on current events, many forms of media throughout the world mentioned it and the technical press covered the event in detail. Many professional colleagues in other countries congratulated the Swiss tunnelling industry on this remarkable achievement, which is regarded as unrivalled in the field of underground construction. Justifiably, the Swiss tunnelling industry can be proud of this project.

The STC 2011 includes once more reports on current progress in the construction of the Gotthard Base Tunnel, since with the breakthrough the structure obviously has not been completed and the engineers involved in the project still face big challenges. However, the presentations at the STC will give more space to other construction projects both in Switzerland and abroad. All the more, therefore, I am glad that we have been able to put together an interesting programme for the STC 2011 with outstanding projects and excellent contributors.

The colloquium focuses on the topic of "Logistics in Underground Construction", not least because of the immense logistical challenges presented by long base tunnels. Its scope however has been extended to include the increasingly important question of logistics in the urban tunnelling environment.

Nevertheless, the STC 2011 is largely unchanged in format compared to previous years. The exhibition will be organised in the same way as in recent years. Two areas have been reserved for firms exhibiting their products, namely in the Foyer and on the Lucerne Terrace. Only the sponsoring concept has been modified in 2011 and for subsequent years to be the same as that for 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 wish everyone an interesting congress and pleasant stay in the KKL Lucerne. Enjoy meeting up again with friends and acquaintances at the exhibition or at the aperitif.

Let me finally mention the commitment of all those who have supported the organising committee and above all the lecturers and sponsors without whom we could not put on the STC. My hearty thanks and welcome to Lucerne.

Swiss Tunnelling Society

A handwritten signature in blue ink, appearing to read 'F. Amberg'.

Felix Amberg, Präsident





# Swiss Tunnel Colloquium 2011



The aim of this year's colloquium is to present briefly the important milestones achieved in recent years in logistics in relation to tunnelling and underground construction. By means of practical examples it provides an overview of the state-of-the-art in current technology and operational methods. The outlook shows us what will be logistically possible and relevant in the future. As in previous years, the colloquium is supported by speakers representing planners, contractors and industry and is directed towards both students and young engineers as also experienced practicing engineers.

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

13.00 Welcome by the Chairman of the Colloquium

Georg Anagnostou, Prof. Dr.  
Institute of Geotechnical Engineering, ETH Hnggerberg, Zurich

## Logistics in Tunnelling

Back-up Systems  
Conceptual designs in TBM and conventional headings  
Alberto Belloli, Dr.sc., Dipl. Masch.-Ing., ETH, Zurich  
Rowa Tunnelling Logistics AG, Wangen SZ

Belt Conveyors  
What are the limits?  
Peter Rufer, Dipl. Masch.-Ing., HTL  
Marti Technik AG, Moosseedorf/CH

Supply and Disposal Concepts for Bulk Materials  
The Weinberg Tunnel of the Zurich Cross Rail:  
An inner-city site with space at a premium  
Hanspeter Stadelmann, Dipl. Bauing. ETH/SIA  
Implenia Bau AG

Thomas Gl, Dipl. Masch. Ing. FH  
Implenia Bau AG

Rail Tunnels  
Logistics for refurbishing projects of rail tunnels  
Martin Frauenlob, Dipl. Bauing. HTL  
Marti Bauunternehmung AG, Lucerne

All-in Reconstruction, City Ring Lucerne  
Site logistics, safety and communication the essential factors in success  
Franz Koch, Dipl. Kultur-Ing. ETH/SIA  
ASTRA, Zofingen

17.30 Closing Remarks – followed by Aperitif and Exhibition  
18.30 End of Colloquium



# Swiss Tunnel Congress 2011

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

08.30 Welcome with Coffee

## INTRODUCTION

09.30 Welcome and Official Opening of Congress

Felix Amberg, Dipl. Bauing. ETH/SIA  
President of Swiss Tunnelling Society

Martin Bosshard, Dipl. Bauing. ETH/SIA  
Vice-President of Swiss Tunnelling Society

09.45 Switzerland, a Country of Tunnels  
But not a one track minded country

Peter Füglistaler, Dr.  
Director, Federal Office of Transport

### Chairman of Morning Session

Gian Luca Lardi, Dipl. Bauing. ETH/SIA, MBA HSG

## MORNING LECTURES

10.10 Gotthard 2016: All Signals on Green?

Renzo Simoni, Dr. sc. techn., Dipl. Bauing. ETH/SIA  
AlpTransit Gotthard AG, Lucerne

10.30 150 km Tunnelling Through the Alps  
Engineering-geology experience

Hans-Jakob Ziegler, Dr. phil. nat., Geologist  
Kellerhals + Haefeli AG, Berne

10.50 - 11.20 Coffee Break



# Congress Programme, 9. June 2011



11.20

Lining Installation as Excavation Continues  
Technical and logistical challenges at the Bodio and  
Faido Sub-Sectors of the Gotthard Base Tunnel

Luzi R. Gruber, Dipl. Bauing. ETH/SIA  
Implenia Bau AG, Zurich



11.40

Ventilation in the Gotthard Base Tunnel  
Assurance of a life-preserving environment

Frank Pochop, Dipl. Bauing. HTL  
AlpTransit Gotthard AG, Lucerne



12.00

Ceneri Base Tunnel  
The challenges of opposed tunnelling Vezia

Bruno Gugelmann, Dipl. Bauing. ETH/SIA  
CSC Impresa Costruzioni SA, Lugano



12.20

The Weinberg Tunnel of the Zurich Cross Rail  
Hydroshield tunnelling experience in the section from  
Central to the South Station Zone shaft and Zurich  
main station

Josef Bolliger, Dipl. Bauing. HTL  
Implenia Bau AG, Zurich

12.40

Discussion

13.00 - 14.30

Lunch in the Lucerne Culture and Convention Centre

# Congress Programme, 9. June 2011

## Chairman Afternoon Session

Pierre Michel, Dipl. Ing. ETH/SIA

## AFTERNOON LECTURES

14.30 CEVA – The missing link  
of the France-Vaud-Geneva conurbation  
Antoine Da Trindade, BTS Mécanique Automatisme Industriel  
CFF SA, Geneva



14.50 The Eyholz Tunnel  
The Visp bypass on Swiss National Highway A9  
Stefan Müller, Dipl. Bauingenieur HTL  
Frutiger AG, Thun



15.10 Niagara Falls  
Niagara Tunnel Facility Project  
Oskar Roittner, Dipl.-Ing.  
Strabag AG, Vienna



15.30 The 2014 Winter Olympics  
Transport-infrastructure tunnels in Sochi, Russia  
Bruno Röthlisberger, Dipl.-Bauing. FH/STV  
Amberg Engineering AG, Sargans



15.50 The Brenner Base Tunnel  
From preliminary surveying to implementation  
Konrad Bergmeister, Prof. Dr. Dr., Dipl.-Ing.  
Brenner Basistunnel BBT SE, Innsbruck





# Congress Programme, 9. June 2011



16.10 - 16.40 Coffee Break



16.40 New Turin – Lyon Line  
Back-analysis of the La Praz access gallery  
Alain Chabert, Ingénieur des Ponts et Chaussées  
Lyon Turin Ferroviaire L.T.F. s.a.s.



17.00 Túnel Emisor Oriente  
A Deeper Outfall Sewage Tunnel for the  
Metropolitan Area of Mexico City  
Rafael Carmona, Dr., Gerente de Coordinación Técnica  
Conagua, Mexico City



17.20 Pajares Tunnel Project  
High-speed line between Madrid and Oviedo  
Mario Peláez, Master of Science in Civil Engineering  
Ineco, Madrid



17.40 Major Project in Germany  
Stuttgart 21 and the new Wendlingen-to-Ulm line  
Hany Azer, Dipl.-Ing.  
DB ProjektBau GmbH, Stuttgart

18.00 Discussion

18.20 Closing Remarks

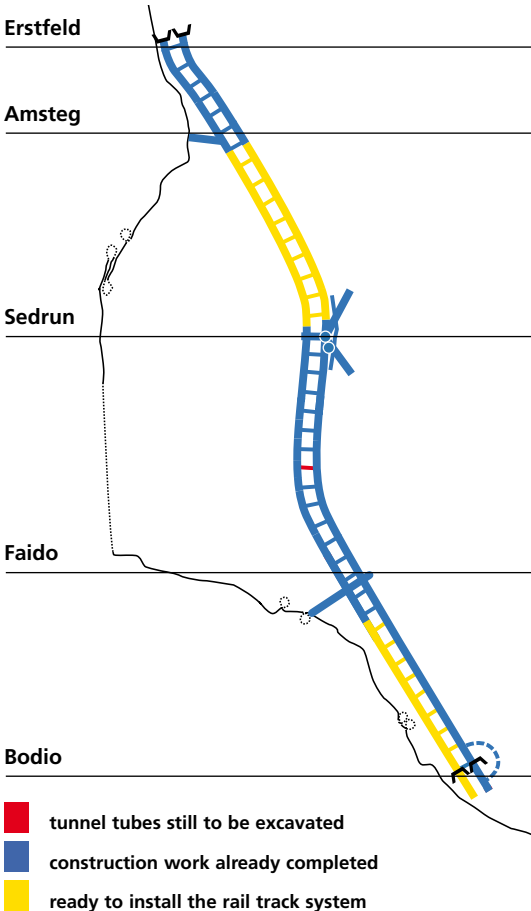
Felix Amberg, Dipl. Bauing. ETH/SIA  
President Swiss Tunneling Society

18.30 Followed by Aperitif at the Lucerne Culture and  
Convention Centre

## Construction Progress on the Gotthard Base Tunnel

In Autumn 2010 the excavation work at the northern side of the Gotthard Base Tunnel has been completed with the excavation of the junction with the future underground connection to the Axen Tunnel. On the 15th of October 2010 the main breakthrough in the east tube was achieved. Then in November 2010 the excavation work in the subsection Sedrun also came to an end. The final breakthrough took place on March 23, 2011 when the TBM completed the excavation of the Western tube. In the subsections Erstfeld, Sedrun and Faido the work for the concrete lining is continuing at great pace.

In Summer 2010 the installation of the railway facilities was begun in the west tube from Bodio. Since then the main work has involved the installation of cables and the carriageway and with the first 15 kilometres of the rail track system in the tunnel. The commercial start of operations of the Gotthard Base Tunnel is expected to be in 2016.

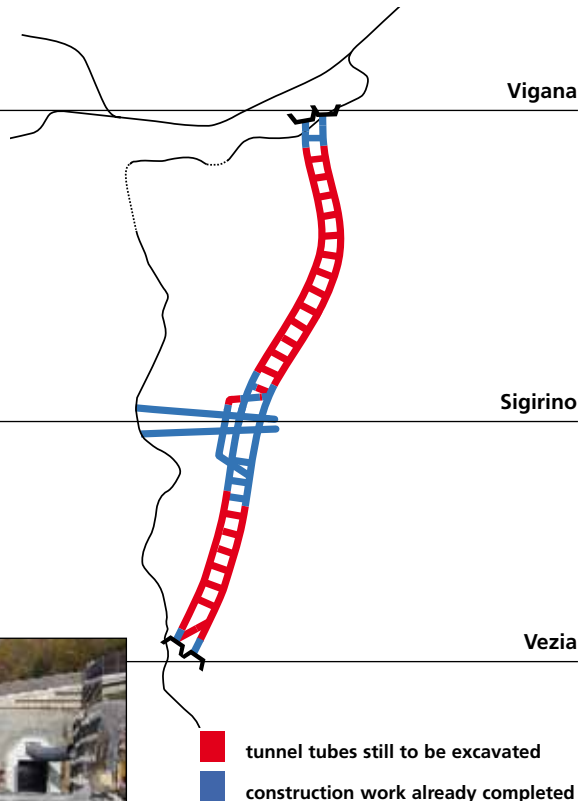


## Construction Progress on the Ceneri Base Tunnel

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. At the north portal, in both tunnel tubes underground caverns housing railway junctions are being built. From here connecting ramps branch off in the directions of Bellinzona and Locarno. Inside the mountain, about 2.5 km from the south portal, there is the underground junction of Saré. This will be constructed in such a way that a future lengthening of the tunnel in a southern direction will be possible without affecting rail operations.

At the North Portal Camorino the undercrossing of the A2 motorway has made good progress. Also at the South Portal Vezia both tunnel tubes have been advanced under very demanding geological conditions. In October 2010 the main contractor in Sigirino began the excavation of the tunnel tubes.

The start of commercial operations of the Ceneri Base Tunnel is planned for 2019.



# Swiss Tunnel Excursions 2011

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 take in the construction sites for the Zurich Cross Rail, the AlpTransit project, the Visp Bypass and special for this year the City Ring, Lucerne, the latter to take place on the evening the 8. June, 2011.

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

- B) Zurich Cross Rail, Railway Station Löwenstrasse/Weinberg Tunnel
- B) Gotthard Base Tunnel, Faido
- C) Ceneri Base Tunnel, Sigirino
- D) A9 Visp Southern Bypass, Eyholz Tunnel
- E) Total Renewal of City Ring, Lucerne (Evening of 8. June, 2011)



## Site Visits, 10. June 2011

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

The breakthrough for the Weinberg Tunnel took place on 22.11.2010. Since then the TBM has been dismantled. Besides a trip through the tunnel to see the tunnel lining construction, the visit includes the TSM drive for the service tunnel. The under-crossing of the south track by the mined cut and cover technique is in an interesting phase, while work below Zurich's main station for the Löwenstrasse station is still very demanding. The excursion provides the opportunity to see this new station from a rather unusual perspective.

- 08.00 Depart Lucerne (bus), arrive 09.00 Carparkplatz Zurich
- 09.45 Project presentation in the Inforaum HB (Sihlquai Hall)  
Provision of protective clothing.
- 10.45 Site visit to the Löwenstrasse station in groups.
- 11.45 Viewing the mined cut and cover technique construction works
- 12.45 Trip through tunnel with stops (shaft, large pipe shield, service tunnel, cross passages, sealing, inner lining)
- 13.15 Lunch in the canteen at Brunnenhof
- 14.45 Return by bus to Lucerne
- 16.00 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 Visits, 10. June 2011

## Tour B) Gotthard Base Tunnel, Faido

Visit to the multifunction station where the installation work is in progress on the concreting of the large caverns for the tunnel junction, on the arched roof sections of the single track tubes Faido West and on the concreting of the auxiliary construction sites (access tunnel, cross passages for constructional logistics).

07.30 Departure Lucerne (by bus)

09.00 Arrival at site

Site visit in groups.

- presentation of project and visit to the outside installations
- entry through the 2,650 m long access tunnel with 12.7% gradient to multifunction station
- viewing installation and concreting work in the multifunction station

13.30 approx. Lunch in the canteen at Faido

14.45 Return by bus to Lucerne

16.15 approx. Arrival 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 Visits, 10. June 2011

## Tour C) Ceneri Base Tunnel, Sigirino

Visit to the installations above ground, especially the management, handling and final disposal of materials, and also those below ground: intermediate attack in Sigirino, where the excavation of the Caverna Operativa (CAOP) was carried out and where at present the four main tunnel drives (in both single track tubes in the directions north and south) are underway for the construction of the Ceneri Base Tunnel (15.4 km long). Then, divided up into two groups, there will be a visit to the sites in the portal areas North (Camorino/Vigana) or South (Vezia).

- 07.15 Departure Lucerne (by bus).  
09.30 Arrival at ATG construction site in Sigirino, site visit.  
- 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 portals Comorino/Vigana or Vezia  
13.45 Arrive at construction sites Comorino/Vigana or Vezia and site visit  
14.45 Return to Sigirino by minibus  
15.00 Return to Lucerne, transport to railway station Bellinzona, if required  
17.15 approx. Arrival 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 Visits, 10. June 2011

## Tour D) A9 Southern Bypass of Visp, Eyholz Tunnel

The roughly 4.3 km long Eyholz Tunnel is being driven from the West Portal Staldbach using the drill-and-blast method and in the soil zones by means of the an umbrella support using jetting. The caverns for the branching of the tunnel have been built and work on the tunnel linings has begun. Besides the excavation work, the visit includes the installation work and construction of the linings.

08.00	Departure from Lucerne by train passing on route through the Lötschberg Base Tunnel
10.02	Arrival at Visp Railway Station - transfer by postal coach to the construction site - welcome, coffee, presentation of project
13.00	Lunch
14.30	Transfer by postal coach to railway station
14.57	Departure by train from Visp
17.00	Arrival 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.





# Site Visits, 8. June 2011

## Tour E) Total Renewal of the City Ring Lucerne

After nearly 40 years of service, traffic and weather damage on the A2 near Lucerne is very evident. The Reussport and Sonnenberg tunnels have been undergoing renovation since Nov. 2010, during the night on weekdays and on some weekends. This somewhat unique construction site can be seen in a specially organised visit.

### Tour E1

- 19.45 Departure Lucerne from the car park traffic island near the KKL (minibuses).
- 19.55 Arrival at the installation area Schlund (protective clothing provided)  
- view convoy of site vehicles
- 20.30 Visit to Sonnenberg and Reussport tunnels, Ibach installation area
- 22.15 approx. Arrival in Lucerne

### Tour E2

- 23.45 Departure Lucerne at close of Sponsor's Evening (minibuses)  
(protective clothing provided)
- 00.00 Visit to Sonnenberg and Reussport tunnels, Ibach installation area
- 01.45 Arrival 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.



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Many thanks to all sponsors!



# Organisation

## **Closing date for registration: Friday, 30. April 2011**

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, Account No: 820321-21, 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).

## **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 Congress the whole amount 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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**Many thanks to all sponsors!**



# Organisation

## Fees for Swiss Tunnel Congress 2011

### Lectures, Excursion, Proceedings

STS Member	Non-member	Student, Senior
CHF 525.–	CHF 585.–	CHF 245.–
EUR 400.–	EUR 450.–	EUR 190.–

### Colloquium, Proceedings

STS Member	Non-member	Student, Senior
CHF 165.–	CHF 185.–	CHF 55.–
EUR 130.–	EUR 145.–	EUR 45.–

### Dinner (drinks included)

CHF 110.–	EUR 85.–
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### Excursion, Proceedings

One excursion

CHF 240.–	EUR 185.–
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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.

## Advance Notice of Swiss Tunnel Congress 2012

Next year the Swiss Tunnel Congress will take place from 13–15 June 2012 at the Lucerne Culture and Convention Centre.



# Sponsors of Swiss Tunnel Congress 2011

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ILF Beratende Ingenieure, Zurich



Implenia Bau AG, Aarau



Infra Tunnel SA, Marin



IUB Ingenieur-Unternehmung AG, Bern

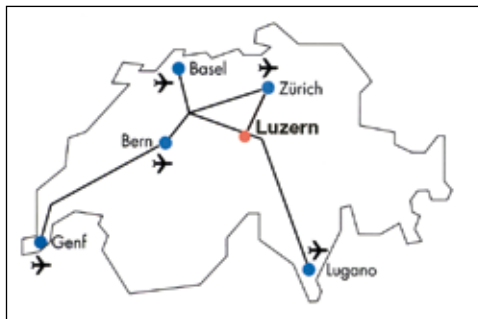
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## Directions

### By public transport

- From Zurich Airport by train in 1 1/2 h
- From Geneva Airport by train in 3 h
- The Lucerne Culture and Convention Centre is in the immediate vicinity of the Main Railway Station in Lucerne.

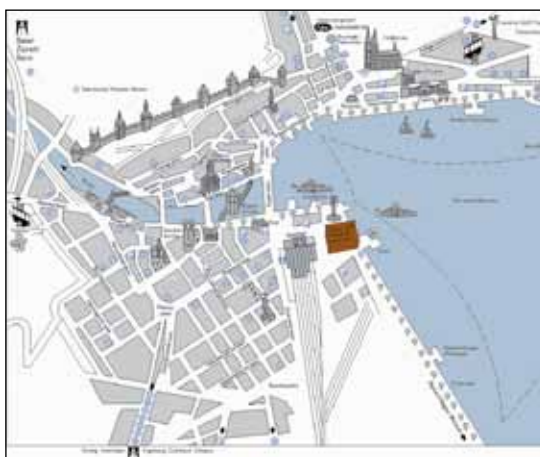


### By car

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-Lucerne.ch](http://www.kkl-Lucerne.ch)



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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)41 318 41 45  
Fax +41 (0)41 318 41 46  
E- Mail maria.santin@Lucerne-incoming.ch  
Internet www.Lucerne-incoming.ch

Reservations should be made **at the latest by 30. April 2011**, since afterwards the block bookings of hotel rooms expire.

**Room reservation is the responsibility of the participant!**  
The price of a hotel room is not included in the Congress Fee.

## Rail connections to Lucerne

	departure	arrival in Lucerne
Aarau	8.14	9.05
Basle	8.03	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 HB	8.04	8.49
ZRH Airport	8.13	9.25

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## Main Sponsors



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**Solexperts AG, Mönchaltorf**



**STRABAG AG Tunnelbau Schweiz, Erstfeld**



**swiss IT-Factory, Zurich**



**Edy Toscano AG, Zurich**

**Many thanks to all sponsors!**



## Evening Event 9.June, 2011



After the presentations the Swiss Tunnelling Society is offering an aperitif in front 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. Opens at 19.45 and dinner begins at 20.00.

Dinner is not included in the Congress Fee and is billed separately.

Costs per person Fr. 110.–/ EUR 85.– (incl. 8% VAT), drinks included.



# Sponsors of Swiss Tunnel Congress 2011

## Main Sponsors



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**ARGE Transtec Gotthard, Zurich (Alpiq, Alcatel-Lucent/Thales, Alpine, Balfour Beatty)**



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c/o Amberg Engineering AG  
Cécilia Ackermann  
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## Application for Membership of STS

- Single Member (CHF 50.- incl. VAT p.a.)       Collective Member (CHF 450.- incl. VAT p.a.)
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Firm \_\_\_\_\_

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Telephone No. \_\_\_\_\_ FAX \_\_\_\_\_

email firm \_\_\_\_\_ www. \_\_\_\_\_

Private Adresse \_\_\_\_\_

Postal Code \_\_\_\_\_ Town/City \_\_\_\_\_

Telephone No. \_\_\_\_\_ FAX \_\_\_\_\_

email private \_\_\_\_\_

Title \_\_\_\_\_

### Address for Correspondence

Private Address

Firm's Address

Place/Date \_\_\_\_\_

Signature \_\_\_\_\_





# STS Conference Secretariat

## Registration and Information:

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**Conference Hotline: +41 (0)79 411 73 46 (only from 8.6.2011)**

## Hotel Reservations:

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Internet [www.luzern-incoming.ch](http://www.luzern-incoming.ch)

Online hotel reservation at [www.swisstunnel.ch](http://www.swisstunnel.ch)



**FGU** Fachgruppe für Untertagbau

**GTS** Groupe spécialisé pour les travaux souterrains

**GLS** Gruppo specializzato per lavori in sotterraneo

**STS** Swiss Tunnelling Society

**sia** schweizerischer ingenieur- und architektenverein

