



**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 '08 Lucerne

## Programme

**Swiss Tunnel Colloquium: Tuesday, June 10, 2008**

**Swiss Tunnel Congress: Wednesday, June 11, 2008**

**Excursions: Thursday, June 12, 2008**

*Traduction simultanée de l'allemand au français*

*Translation from German to English*



# Swiss Tunnel Congress 2008

Each year the Swiss Tunnelling Society organises the Swiss Tunnel Congress in the Lucerne Culture and Convention Centre (KKL Luzern). Over the past years, this congress has developed into the key event for Swiss tunnel builders. This congress is a result of the Alp Transit Conferences.

In 2007 more than 740 participants from 14 nations listened to the high-class presentations held. Additionally, the traditional excursions to large construction sites in Switzerland and to Germany took place.

The STC 2008 is presented by the Swiss Tunnel Congress Committee. It's board of management consists of:

- |   |                         |
|---|-------------------------|
| • Heinz Ehrbar, Dipl. Ing. (degreed engineer) | Swiss Tunnel Congress   |
| • Martin Bosshard, Dipl. Ing.                 | Swiss Tunnel Congress   |
| • Prof. Dr. Georg Anagnostou                  | Swiss Tunnel Colloquium |
| • François Bertholet, Dipl. Ing.              | Swiss Tunnel Colloquium |

## Advisory Board

The Advisory Board does not only help to arrange interesting projects and high-class speakers from abroad, but also ensures the high quality of the presentations.

The STC incorporates the following members:

- Manuel Arnaiz, AETOS
- Prof. Dr. Robert Galler, ITA Austria
- Prof. Dr. Alfred Haack, STUVA/DAUB
- Prof. Pietro Lunardi, SIG
- Jean Philippe, AFTES





## **A warm welcome to the Swiss Tunnel Congress 2008 in Lucerne**

We are delighted to welcome you to this year's Swiss Tunnel Congress here in the Lucerne Culture and Convention Centre (KKL Luzern) once again. I'm pleased to inform you, that we were able to arrange an interesting programme with remarkable projects and speakers for the STC 2008 so as to keep our high stand.

Thanks to the newly founded Advisory Board we can present more projects from abroad to you, this year especially from Italy, France, Austria and the United States. Needless to say, foreign-language presentations will be translated simultaneously.

For the first time in the history of the STC, an STC-Colloquium will be taking place. The course which deals with the subject of "Grouting as support measure during excavation" is not only addressed to students, but also to experts. We are pleased that this half-day course already enjoys great interest.

Since Europe will be in a football fever in June and on the Congress evening a match between Switzerland and Turkey will take place, we have decided to reorganize our traditional dinner and broadcast the match on large screens. Of course, we all hope for a victory of our national team. We will see!

The exhibition will take place similar to last year's. The two display areas in the foyer of the Lucerne hall and the Lucerne terrace have been booked for our exhibitors. We certainly hope the weather will be better this year.

The Lucerne Culture and Convention Centre and the City of Lucerne are worth a trip without the STC as well. During your stay at the STC, do not miss the opportunity to visit the beautiful Lake of Lucerne and all the places of interest around the City of Lucerne.

For me, the STC always is a good opportunity to meet friends from Switzerland and abroad and join them at the exhibition or at the dinner, in order to exchange some thoughts and ideas. I'm really looking forward to this and hope that you feel the same way.

This short introduction to the STC would not be complete without thanking all the promoters, speakers and especially the sponsors for their commitment and support. We are all aware that the congress would not take place without your support. That is why I would like to say thank you very much.

STS Swiss Tunnelling Society

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

Felix Amberg  
President

# Programm Swiss Tunnel Congress 2008

	Swiss Tunnel Colloquium	Swiss Tunnel Congress	Exkursionen			
07.30-08.00	<b>Tuesday, 10. June 2008</b>	<b>Wednesday, 11. June 2008</b>	<b>Thursday, 12. June 2008</b>			
08.00-08.30				Congress secretariat	Excursion A: Gotthard Base Tunnel Erstfeld	
08.30-09.00				Swiss Tunnel Colloquium	Welcome coffee	Excursion B: Gotthard Base Tunnel Faido
09.00-09.30					Exhibition with aperitif	Excursion C: Galleria Veduggio-Casserate
09.30-10.00				Evening Dinner for guests and sponsors	Opening	Excursion D: Zurich Western Bypass
10.00-10.30					Presentations	Excursion E: Visp Bypass
10.30-11.00					Lunch	
11.00-11.30					Exhibition in the foyer Lucerne hall and the Lucerne terrace	
11.30-12.00						
12.00-12.30						
12.30-13.00						
13.00-13.30						
13.30-14.00						
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18.30-19.00						
19.00-19.30						
19.30-20.00						
20.00-24.00						



# Swiss Tunnel Colloquium 2008



For the first time a STC-Colloquium will take place. The colloquium deals with specific subjects and features an educational character. The topic for the year 2008 is: **Grouting as support measure during excavation.**

Besides an overview provided by a representative of an university, designers, entrepreneurs and suppliers have the opportunity to present their know-how. The topics of the individual presentations will be coordinated, so that the presented material provides an overall view. The colloquium addresses students as well as experts.

12.00            Opening of congress secretariat  
(at the floor before the colloquium room)

13.00            Welcome and Opening  
Prof. Dr. Georg Anagnostou,  
Institute for Geotechnics  
Swiss Federal Institute of Technology Hönggerberg

## Grouting as support measure during excavation

Speakers of the Colloquium:



View of university – Overview  
Georg Anagnostou, Prof. Dr.  
Institute for Geotechnics  
Swiss Federal Institute of Technology Hönggerberg



View of designer –  
Grouting technology measures for construction,  
lining and refurbishment of tunnels  
Roger Bremen, Dr. Civil Engineer  
Lombardi SA



View of building contractor  
Practical application, methodology, equipment  
Kurt Kogler, Ing.  
INSOND - Spezialtiefbau Ges.m.b.H.



View of manufacturer  
Material technology of compaction grouting  
and permeation grouting  
Michael Leahey, Dipl. Natw. ETH  
Sika Services AG

17.30            Closing words – followed by exhibition with an  
aperitif at the foyer Lucerne hall and the Lucerne terrace

18.30            End of the STS-Colloquium

# Swiss Tunnel Congress 2008

08.30 Opening of congress secretariat  
(in the foyer of the Lucerne hall)

08.30 Welcome coffee

09.30 Welcome and opening ceremony

Felix Amberg  
President, Swiss Tunnelling Society



Opening presentation

Thomas Held, Dr. phil.  
Avenir Suisse, Zurich



**Morning meeting chaired by:**

Hanspeter Stadelmann, Civil Engineer ETH/SIA

## MORNING PROGRAMME

10.10 Status of work on the Gotthard-Axis –  
Major projects and the public procurement

Renzo Simoni, Dr. sc. techn., Civil Engineer ETH/SIA  
AlpTransit Gotthard AG, Lucerne



10.30 Gotthard Base Tunnel – Geological experiences

Hans Jakob Ziegler, Dr. phil. nat. Geologe  
Kellerhals + Haefeli AG, Bern



10.50 - 11.20 Coffee break



# Meeting programme, June 11, 2008



11.40 Gotthard Base Tunnel – Break-through Amsteg – Sedrun  
Logistic challenges

Ralf Grand, Civil Engineer ETH/SIA, Industrial Engineer FH  
Gähler und Partner AG, Ennetbaden



12.00 The squeezing sections in the Tavetscher-  
Zwischenmassiv (TZM)-North of the  
Gotthard Base Tunnel – Design and realization

Kalman Kovári, Prof. Dr.  
Consulting Engineer



Heinz Ehrbar, Civil Engineer ETH/SIA  
Alp Transit Gotthard AG, Lucerne



12.20 Section Faido – Experience with the TBM drive

Olivier Böckli, Civil Engineer ETH/SIA  
Implenia Bau AG, Aarau



12.40 A9 Visp Bypass – Challenging tunnel drive in hard  
rock and soft ground

Alex Schneider, Dr. sc. techn., Civil Engineer ETH/SIA  
Rothpletz Lienhard + Cie AG, Olten

Discussion

13.00 - 14.30 Lunch in the Lucerne Culture and Convention Centre

# Swiss Tunnel Congress 2008

## Afternoon meeting chaired by:

Peter Teuscher, Civil Engineer HTL/SIA

## AFTERNOON PROGRAMME

14.30 The new underground line B1 in Rome: Tunnelling and deep excavations within alluvial soils in urban environment. Design approach and site performance

Andrea Sciotti, Mining Engineering degree  
Roma Metropolitana S.r.l., Rome Italy



14.50 Hydropower pump storage plant Limberg II – High mountaneous site with extraordinary technical and logistical requirements

Hans Köhler, Civil Engineer  
Porr Technobau und Umwelt GmbH, Vienna



15.10 Tunnel Engelberg – Technical challenges

Werner Kradolfer, Civil Engineer ETH/SIA  
Rothpletz Lienhard + Cie AG, Olten



15.30 Durchmesserlinie Zurich – From the idea to implementation, lessons learned

Roland Kobel, Civil Engineer HTL/SIA  
SBB AG, Zurich



Martin Bosshard, Civil Engineer ETH/SIA  
Basler & Hoffmann AG, Esslingen





# Meeting programme, June 11, 2008



15.50 Flood Relief Tunnel Thun –  
Challenges of the hydro shield method

Daniel Kohler, Civil Engineer ETH/SIA, industrial engineer. FH Prader Losinger SA, Sion/Zürich

16.10 - 16.40 Coffee break



16.40 Tunnel Maurice Lemaire à Saint-Marie aux Mines –  
Civil works serving security purposes

André Thiboud, Diplôme d'ingénieur des TPE Travaux Publics de l'Etat  
APRR, Direction des Grands Investissements et de la Construction



17.00 Adlertunnel – Design competition for refurbishment

Peter Jedelhauser, Civil Engineer ETH  
SBB AG, Bern



17.20 Arrowhead tunnels project – Piercing the mountain  
in very adverse ground and water conditions

Brian Fulcher, BSc in Mechanical Engineering  
Shea Construction Company, Walnut (California)

17.40 Discussion

18.00 Closing Words

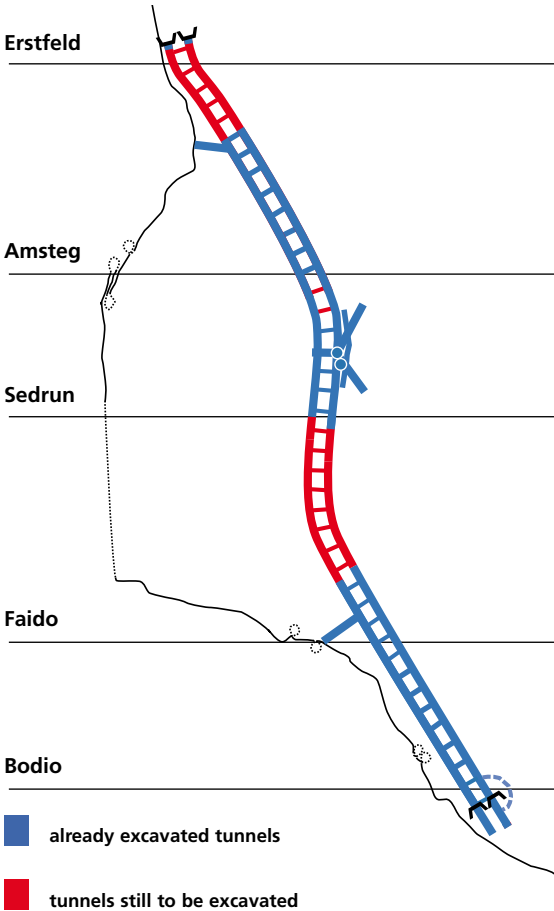
Felix Amberg  
President STS

18.15 followed by cocktails in front of the Culture and  
Convention Centre Luzern

## Gotthard Base Tunnel construction work status

The 57 km long Gotthard Base Tunnel is excavated in five main sections. All five main sections are under construction. The excavation works in Erstfeld have just begun whereas in the Amsteg and Bodio sections the works have already been completed. In the Sedrun section, the excavation works are heading south. The excavation of the multi-functional station and the northern headings were completed in 2007.

A huge challenge is the TBM drive in the Faido section. This TBM drive started in 2007 and is facing very demanding ground conditions. In 2008 the installation of the first equipment like enclosures of cross-passages will take place. Preparations for the installation of the rail engineering will also begin. At the beginning of 2008 107 km of the 153 km long tunnel system of the Gotthard Base Tunnel were excavated. The official operational date is planned for 2017.

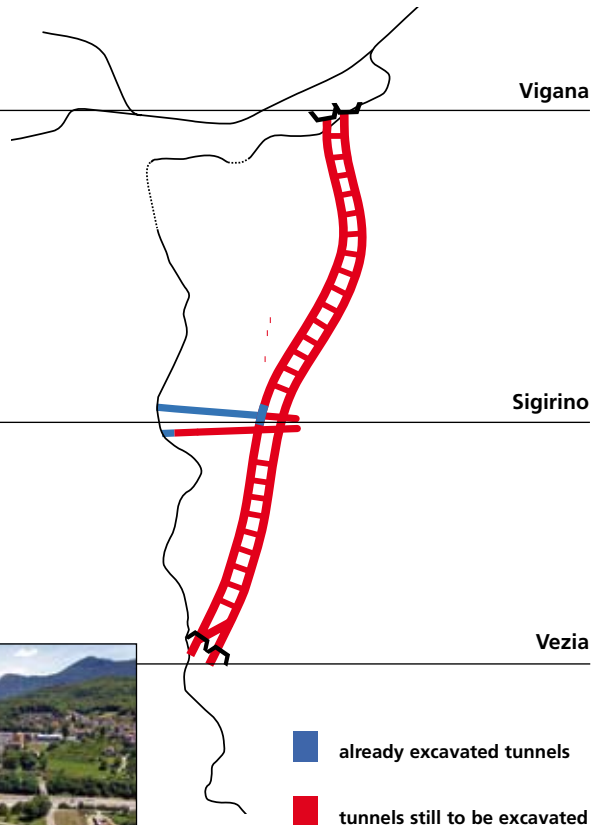


## Ceneri Base Tunnel construction work status

The 15.4 km long Ceneri Base Tunnel connects Vigana/Camorino in the north with Vezia in the south. The two single tubes are linked by cross-passages every 325 m. Not only at the northern portal but also in the area of the southern portal underground bifurcations are built. These serve the connection to Locarno in the north and in the south for a possible extension of the new line.

In February 2008 the excavation works for the intermediate adit in Sigirino will start. At the end of this gallery installation caverns are built, from which the excavation to the north and to the south should begin in 2010. The invitation to tender for the main lot shall be carried out in the first half of the year 2008.

The date of operation of the Ceneri Base Tunnel is predicted in 2019.

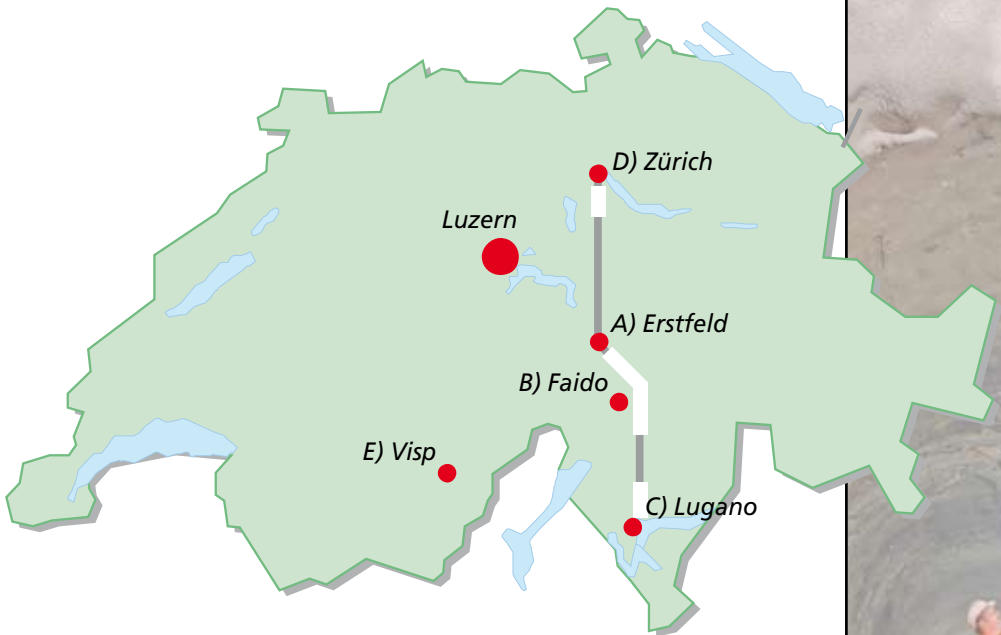


# Swiss Tunnel excursions 2008

The yearly Swiss Tunnel Congress in the Lucerne Culture and Convention Centre (KKL Luzern) is followed by excursions on the following day, arranged by the Swiss Tunnelling Society. The destinations of the excursions this year are two sites of the Gotthard-Axis and three further, very interesting sites in Switzerland.

The Congress participants can chose this year between these five excursions:

- A) Gotthard Base Tunnel, TBM advance Erstfeld
- B) Gotthard Base Tunnel, TBM advance Faido
- C) Vedeggio-Cassarate (Bypass Lugano)
- D) Western Bypass Zurich
- E) Visp Bypass



# Site visit, June 12, 2008

## Tour A) Erstfeld

### Gotthard Base Tunnel, Erstfeld section

**Visit of the installations and the tunnel boring machines at the beginning of the excavation works towards Amsteg.**

08.00 Departure from Lucerne (by Bus)

09.00 Arrival on site

Site visit in groups

- Introduction of the project and visit of the external installations
- Visit of the TBM east (excavation)
- Visit of the TBM west (end of the assembly)

approx. 12.00 Lunch

13.30 Return to Lucerne

approx. 14.30 Arrival at Lucerne

- Protective clothing, boots and helmets are available
- **The number of participants is restricted**
- There is a restricted number of car parks at the site. Travelling by bus is recommended
- The programme might be adjusted due to activities on site

The costs for the excursion are included in the conference fee.



# Site visit, June 12, 2008

## Tour B) Faido

### Gotthard Base Tunnel, Faido section

**Visit of the tunnel boring machines during advance towards Sedrun. The advance takes place at overburdens of up to 2'500 m under rock temperatures of up to 50°C. Visit of the installations in the multifunctional station and TBM advances.**

07.30	Departure from Lucerne (by bus)
09.00	Arrival on site, site visit in groups <ul style="list-style-type: none"><li>- Introduction of the project and visit to the external installations</li><li>- Drive through the 2'650 m long access tunnel with a 12.7% slope to the multifunctional station and to the TBM-advances</li><li>- Visit of the TBM advancing towards the North</li></ul>
approx. 13.30	Lunch in the cafeteria in Faido
14.45	Return to Lucerne
approx. 16.15	Arrival in Lucerne

- Protective clothing, boots and helmets are available
- **The number of participants is restricted**
- There is a restricted number of car parks at the site.  
Travelling by bus is recommended
- The programme might be adjusted due to activities on site

The costs for the excursion are included in the conference fee.





## Site visit, June 12, 2008

### Tour C) Galleria Veduggio-Cassarate (Lugano)

The tunnel is 2'630 m long and goes through the hills of Comano, Cureglia and Porza connecting the Veduggio-Valley with the Cassarate-Valley in the vicinity of Cornaredo.

The tunnel crosses approx. 2'350 m of rock. However, at the other side of Cassarate the tunnel crosses approx. 200 m of soft ground with pressurized water (up to 20 m water column).

It is a first step into a good transport system in the surroundings of Lugano (PTL, Piano dei trasporti del Luganese).

07.15	Departure from Lucerne (by bus)
09.45	Arrival on site, introduction of the project Project controlling and monitoring Visit
13.00	Lunch (cafeteria)
14.15	Return to Lucerne (by bus)
approx. 16.45	Arrival in Lucerne

- Protective clothing, boots and helmets are available
- **The number of participants is restricted**
- There is a restricted number of car parks at the site.  
Travelling by bus is recommended
- The programme might be adjusted due to activities on site

The costs for the excursion are included in the conference fee.



# Site visit, June 12, 2008

## Tour D) Western Bypass of Zurich and N4 Knonaueramt

The Western Bypass of Zurich and the N4 in the Knonaueramt are almost complete. The electro-mechanical installations are under construction. The tunnels Uetliberg, Islisberg and Aescher are open for visitors.

07.30	Departure from Lucerne (by bus)
08.30	Arrival at the information centre Coffee and croissants
09.00	Welcome and introduction of the project Paul Meili, Hans Meier
10.00	Visit (by bus) of the electromechanical installations in the tunnels Uetliberg, Aescher and Islisberg
12.30	Lunch in the restaurant "Grüner Engel", Birmensdorf
14.30	Return (by bus) to Lucerne
approx. 16.30	Arrival in Lucerne

- Protective clothing, boots and helmets are available
- **The number of participants is restricted**
- There is a restricted number of car parks at the site. Travelling by bus is recommended
- The programme might be adjusted due to activities on site

The costs for the excursion are included in the conference fee.





# Site visit, June 12, 2008

## Tour E) Bypass Visp

**The full face excavation (500 m) in soft ground at the east portal Grosshüs of the tunnel Eyholz (approx. 4.3 km) is in progress.**

08.00	Departure from Lucerne (by train) By train through the re-opened Lötschberg-Base Tunnel
10.02	Arrival in Visp Transport by bus to site Welcome, coffee, introduction of the project Site visit
approx. 13.00	Lunch
approx. 14.30	Transport by bus to station
14.57	Departure from Visp (by train)
17.00	Arrival Lucerne

- Protective clothing, boots and helmets are available
- **The number of participants is restricted**
- The programme might be adjusted due to activities on site

The costs for the excursion are included in the conference fee.



# Sponsors Swiss Tunnel Congress 2008

We would like to thank all the sponsors!

## Main sponsors



Allianz Suisse Versicherungen, Zürich



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# Organisation

## **Closing date for registrations: Monday, 21 April 2008**

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

Your registration is regarded as definite after your payment to the STS has been received:

CREDIT SUISSE Baden, Clearing No: 4050, Account No. 820321-21

Swift Code: CRESCH ZZ 54 A

IBAN: CH43 0405 0082 0321 2100 0

You will receive your congress documentation and a confirmation/invoice (receipt for VAT purposes) at the end of May.

## **Cancellation conditions**

- If you cancel your registration after the closing date for registrations and up to one week before the congress, 50% of the costs will be charged and the proceedings of the congress will be sent to you.
- If you cancel your registration within the final week, the entire costs of the congress will be charged and the proceedings of the congress will be sent to you. You may nominate another person to replace you.

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# Organisation

## Costs of participation Swiss Tunnel Congress 2008

### Presentations, excursions, proceedings

STS members	CHF 430.–	EUR 260.–
Non-members	CHF 480.–	EUR 290.–
Students, Seniors	CHF 200.–	EUR 120.–

### Colloquium

STS members	CHF 100.–	EUR 60.–
Non-members	CHF 120.–	EUR 70.–
Students, Seniors	CHF 50.–	EUR 30.–

### Dinner

Dinner	CHF 90.–	EUR 55.–
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### Excursion and proceedings

One excursion	CHF 200.–	EUR 120.–
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All prices inclusive 7.6% VAT

The proceedings will be sent to all participants of the congress in October 2008.

# Sponsors Swiss Tunnel Congress 2008

## Main sponsors



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**Gasser Felstechnik AG, Lungern**



**Herrenknecht AG, D-Schwanau**



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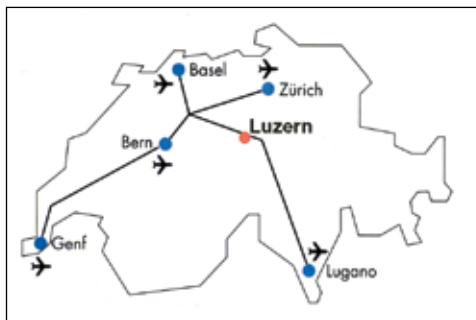
**Implenia Bau AG, Aarau**



# Travel information

## By public transport

- From Zurich Airport by train in 1 hour 30 minutes
- From Geneva Airport by train in 3 hours 30 minutes
- From Lucerne Rail Station, it takes 2 minutes to reach the Lucerne Culture and Convention Centre (KKL Luzern) on foot

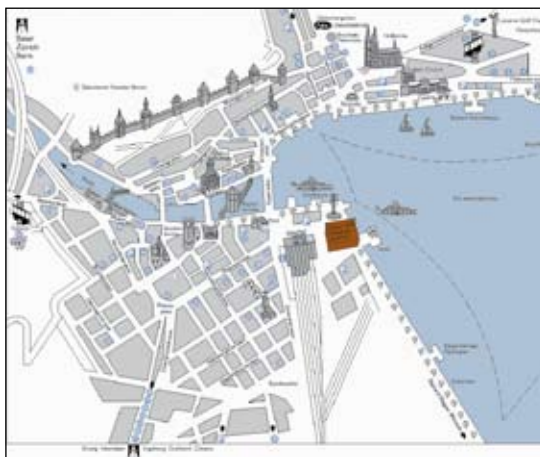


## By car

Parking spaces are available in the Car Park P2 at the Lucerne Culture and Convention Centre (KKL Luzern).

## Lucerne Culture and Convention Centre (KKL Luzern)

Europaplatz 1  
Postfach 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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# Hotel reservations

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

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@luzern-incoming.ch](mailto:maria.santin@luzern-incoming.ch)  
Internet [www.luzern-incoming.ch](http://www.luzern-incoming.ch)

Reservations must be received **by 10. March 2008 at the latest**; the hotel reservation quotas are only valid until **10. March 2008**.

**Participants are responsible for reserving their rooms.**  
The room prices are not included in the congress fees.

## Trains to Lucerne

	Departs	Arrival Lucerne
Aarau	8.14	9.14
Basel	8.04	9.14
Bellinzona	6.23	8.37
Bern	8.00	9.00
Brig	6.49	9.00
Chur	7.13	9.25
Genf	6.14	9.14
Lausanne	6.45	9.14
Locarno	5.53	8.37
Sion	6.24	9.00
St. Gallen	7.02	9.19
Zürich HB	8.04	8.50
ZRH Airport	8.13	9.25

# Sponsors Swiss Tunnel Congress 2008

## Main sponsors



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**SFS unimarket AG, Befestigungstechnik, Rotkreuz**



**Sika Schweiz AG,  
Tunnel & Mining, Zürich**



**ARGE TRANSCO, Sedrun**



**Transtec Bahntechnik**



## Evening Event on 11 June 2008



After the presentations, the STS invite you to an aperitif on the forecourt of the Culture and Convention Centre Luzern.



We shall then be treated to some culinary delights at the top-class Hotel Schweizerhof \*\*\*\*\*.

Banqueting Hall opens	19.45
Dinner starts	20.00

**20.45 EURO 2008  
Switzerland – Turkey  
On big screens.**



Dinner is not included in the price of the congress and will be billed separately.

Cost per person: CHF 90,-/EUR 55,- (including 7.6% VAT), drinks included.

# Sponsors Swiss Tunnel Congress 2008

## Main sponsors



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**Walo Bertschinger AG, Zürich**

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**Avesco AG, Langenthal**

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**Lombardi SA, Minusio**

**Phoenix Contact AG, Tagelswangen**

**Porr Suisse AG, Altdorf**

**Rittal AG, Neuenhof**

**Rockwell Automation AG, Dierikon**

**Rowa Tunnelling Logistics AG, Wangen/SZ**

**Solexperts AG, Mönchaltorf**





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## Beitrittsgesuch FGU/Demande d'adhésion au GTS

Einzelmitglied (Fr. 50.– inkl. MWST/Jahr)  
Membre individuel

Kollektivmitglied (Fr. 450.– exkl. MWST/Jahr)  
Membre collectif

Student / Pensioniert (Fr. 20.– inkl. MWST/Jahr)

Name/Nom \_\_\_\_\_

Vorname/Prénom \_\_\_\_\_

Firma/Entreprise \_\_\_\_\_

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PLZ/Numéro postale \_\_\_\_\_

Ort/Lieu \_\_\_\_\_

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e-Mail Firma \_\_\_\_\_

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# STS Congress Secretariat

## Registrations and information:

Thomi Bräm

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## 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

