



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 '09 Lucerne Culture and Convention Centre

Programme

Swiss Tunnel Colloquium: Wednesday, June 17, 2009

Swiss Tunnel Congress: Thursday, June 18, 2009

Excursions: Friday, June 19, 2009

Translation from German to English

Swiss Tunnel Congress 2009

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 2008 more than 750 participants from 14 nations listened to the high-class presentations, additionally, the traditional excursions to large construction sites in Switzerland took place.

The STC 2009 is presented by the Swiss Tunnel Congress Committee. Its board of management consists of:

- Felix Amberg, Dipl. Ing. president STS
- Heinz Ehrbar, Dipl. Ing. Chairman of the STC board
- Martin Bosshard, Dipl. Ing. Chairman of the STC board
- Prof. Dr. Georg Anagnostou Swiss Tunnel Colloquium
- François Bertholet, Dipl. Ing. Swiss Tunnel Colloquium

Advisory Board

Not only does the Advisory Board 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



We are delighted to welcome you to this year's Swiss Tunnel Congress here in the Lucerne Culture and Convention Centre (KKL Luzern).

This year unfortunately, in contrast to previous years, we feel almost tempted to say that we are not able to come up with any great news. But perhaps in today's world, where everything seems to be uncertain and connected to a great deal of uncertainty, it is better to rely on a proven organization and try to maximise, improve and optimize it.

So, we have succeeded in arranging an interesting programme with remarkable projects and speakers for the STC 2009. The Advisory Board has supported us with good suggestions of foreign construction projects and their speakers. The projects presented are from Germany, France, Italy and Austria, even one from Sao Paulo in Brazil. At this point I would like to thank the members of the advisory board for their help and support.

These project presentations are traditionally set in presentations on construction projects in Switzerland and on specific topics of the NRLA Gotthard-Base Tunnel. All lectures will be translated simultaneously.

Encouraged by the success of the past year, we also complement this year's seminar with the Colloquium from the previous years address. The theme "TBM-Tunnelling in Soft Ground" is presented in, in depth lectures and we hope that we can continue with the success story of the Colloquium.

The exhibition will take place similar to previous year's, in the foyer of the Lucerne hall and on the Lucerne Terrace. The professional associations of our neighbouring countries are also represented together with us on a small stand - take advantage of this opportunity and check out what is on exhibition a little bit over the borders of Switzerland.

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

A Welcome to the STC, however, would not be complete without thanking the organizers for their commitment and dedication, thanking the speakers for their work in preparing the presentations and above all our gratitude to the sponsors for their financial support of our Congress. 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.

Fachgruppe für Untertagbau
Swiss Tunnelling Society

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

Felix Amberg, President



Programme Swiss Tunnel Congress 2009

Time	Swiss Tunnel Colloquium	Swiss Tunnel Congress	Exkursionen													
07.30-08.00	Mittwoch 17. Juni 2009		Freitag 19. Juni 2009													
08.00-08.30				Registration	A) Gotthard Basistunnel, Teilabschnitt Erstfeld											
08.30-09.00						Swiss Tunnel Colloquium	B) Gotthard Basistunnel, Teilabschnitt Sedrun									
09.00-09.30								Exhibition with aperitif	C) Ceneri-Basistunnel							
09.30-10.00										Advisory Board Meeting	D) Durchmesserlinie Zürich, Weinbergtunnel					
10.00-10.30												Evening Dinner for guests and sponsors	E) Umfahrung Biel, Erddruckschild Ostast			
10.30-11.00														Registration		
11.00-11.30															Welcome coffee	
11.30-12.00																Opening
12.00-12.30																
12.30-13.00	Lunch															
13.00-13.30		Lectures														
13.30-14.00			Exhibition Foyer Lucerne hall Lucerne terrace													
14.00-14.30				Lectures												
14.30-15.00					Evening Dinner											
15.00-15.30						Aperitif										
15.30-16.00							Registration									
16.00-16.30								Swiss Tunnel Colloquium								
16.30-17.00									Advisory Board Meeting							
17.00-17.30										Exhibition with aperitif						
17.30-18.00	Evening Dinner for guests and sponsors															
18.00-18.30		Registration														
18.30-19.00			Welcome coffee													
19.00-19.30				Opening												
19.30-20.00					Lectures											
20.00-24.00						Lunch										



Swiss Tunnel Colloquium 2009



After last year's success a colloquium will be held again at the STC. The colloquium deals with a specific subject and features an educational character. Topic 2009: TBM-Tunnelling in Soft Ground. Besides an overview provided by a representative of a 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 Congress registration opening.
(in the foyer in front of the Lucerne hall)

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

TBM-Tunnelling in Soft Ground

Speakers of the Colloquium:

Planning

Jürg Matter, Dipl. Bauing. ETH/SIA
Basler & Hofmann AG, Esslingen

Martin Bosshard, Dipl. Bauing. ETH/SIA
Basler & Hofmann AG, Esslingen

Machine Technology

Werner Burger, Dipl.-Ing. FH
Herrenknecht AG, D-Schwanau

Gerhard Wehrmeyer, Dr.-Ing.
Herrenknecht AG, D-Schwanau

Chemical Industry

Lars Langmaack, Dipl.-Ing.
BASF Construction Chemicals Europe AG, Zürich

Construction

Daniel Kohler, Dipl. Bauing. ETH/SIA, Dipl. Wirtschaftsing. FH
Prader Losinger SA, Sion/Zürich

Markus Weh, Dr. geol.
Marti Holding AG, Bern

17.30 Closing words – followed by the exhibition with an aperitif in the foyer of the Lucerne hall and the Lucerne terrace
18.30 End of the STS-Colloquium



Swiss Tunnel Congress 2009

08.30 Congress registration opening
(in the foyer of the Lucerne hall)

08.30 Welcoming coffee

OPENING

09.30 Welcome and opening address

Felix Amberg
President, Swiss Tunnelling Society



Opening presentation – increasing demands -
Rail infrastructure challenges

Andreas Meyer, CEO
Swiss Federal Railways SBB AG, Berne



Morning meeting chaired by:

Martin Bosshard, Dipl. Bauing. ETH/SIA

MORNING PROGRAMME

10.10 The Gotthard NEAT one year after the
excavation of the Piora

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



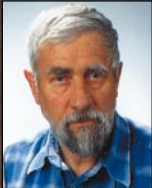
10.30 Gotthard Base Tunnel North - Amsteg / Erstfeld
A perspective analysis from a contractors view

Jürg Lucek, Dipl. Bauing. FH / SIA
STRABAG AG Tunnelbau Switzerland, Erstfeld



10.50 to 11.20 Coffee Break

Meeting programme, June 18, 2009



11.20 Geology at GBT: Current findings and reviews
Franz Keller, PhD. II
Dr. Max Kobel & Partner AG, Sargans



11.40 South drive Sedrun– Large unexpected problems within the interference zone - Challenges remain
Robert Meier, Dipl. Bauing. ETH / SIA
IG GBT South, Pöyry Infra AG, Zurich



12.00 Gotthard Base Tunnel, subsection Faïdo
Dealing with the opportunities and threats in the most demanding section of the Gotthard Base Tunnel
Stefan Flury, Dipl.-Ing. ETH / SIA
AlpTransit Gotthard AG, Lucerne



12.20 Ceneri Base Tunnel, north portal Vigana,
Undercrossing the A2 motorway in loose ground condition
Nicolas Pagani, Dipl. Bauing. ETH / SIA
Pizzarotti SA, Bellinzona

12.40 Discussion

13.00 - 14.30 Lunch in the Lucerne Culture and Convention Centre

Swiss Tunnel Congress 2009

Afternoon meeting chaired by:

Heinz Ehrbar, Dipl. Bau-Ing. ETH/SIA

AFTERNOON PROGRAMME

- 14.30 Cross-City Link Zurich, Weinberg tunnel -
Technical challenges of mechanical and
conventional tunnelling
Stefan Moser, Dr. sc., Dipl.-Ing. ETH
Basler & Hofmann AG Engineers and Planners, Esslingen
- 
- 14.50 Lyon Turin, Descendrie Saint Martin la porte
access tunnel
Eric Mathieu, Ing. géotechn.
Razel - Dep. Travaux Souterrains, Orsay Cedex
- 
- 15.10 Tunnelchain Perschling - Unconventional solutions
for TBM shield tunnelling in geological weakness zones
Wolfgang Lehner, Engineer
STRABAG AG, Vienna
- 
- 15.30 Biel Bypass, Eastern Branch – Implementation of support
measures and first experiences in tunnel excavation
Philipp Häfliger, Dipl.-Ing. ETH, Dipl. WirtschaftsIng. STV / FH
Walo Bertschinger AG, Zurich
- 
- 15.50 Undercrossing of existing infrastructures with a
Hydro shield machine with little overburden --
Section H8 - Project Unterinntal
Johann Herdina, Dipl.-Ing.
ÖBB-Infrastruktur Bau AG, Innsbruck
- 
- 16.10 – 16.40 Coffee Break

Meeting programme, June 18, 2009



16.40 City Tunnel Leipzig – Undercrossing the main station in the shelter of a ground icing method.

Andreas Irngartinger, Dipl.-Ing.

DEGES Deutsche Einheit Fernstraßenplanungs- und -bau GmbH, Berlin



17.00 Cross-City Link Zurich, Station Löwenstrasse - Construction methods and logistics for the new underground train station

Peter Kübler, Dipl.-Bauing. ETH

Basler & Hofmann AG Engineers and Planners, Esslingen



17.20 Highspeed / Highcapacity Railway System - Milan-Naples - New station Bologna Centrale

Andrea Bellocchio, Dipl.-Ing.

Stone SpA, Milan



17.40 Lessons learned from the Pinheiros Station Accident in Sao Paulo, Brazil

André P. Assis, PhD, Professor

University of Brasilia / ITA

18.00 Discussion

18.20 Closing Words

Felix Amberg

President STS

18.35 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 divided into five sections. All five sections are under construction. The excavation and lining in the section Amsteg and Bodio has already been accomplished. Since the beginning of the TBM drives in spring 2008 in both tubes in the Erstfeld section a large part of the distance has been achieved. In Sedrun only the southern part of the section remains to be excavated conventionally. In the northern part of the Sedrun section the inner lining and the multifunction station remain to be finished. The two TBMs heading from Faido towards Sedrun have crossed the Piora-Syncline and will be passing the challenging part underneath the water reservoir of Santa Maria in the course of 2009. This remaining part of the Tunnel has the greatest overburden and highest rock temperatures. Since autumn 2008 the cross passages in Bodio and Amsteg are being fitted with the necessary electromechanical-equipment. The planning and preparation for the beginning of the implementation of the railway infrastructure will be completed by early 2010. Approximately 124 km of the 153 km long Gotthard Base Tunnel system have been excavated by the beginning of 2009. The opening of the Gotthard Base Tunnel is planned for 2017.

Erstfeld



Amsteg



Sedrun



Faido



Bodio



- already excavated tunnels
- tunnels still to be excavated

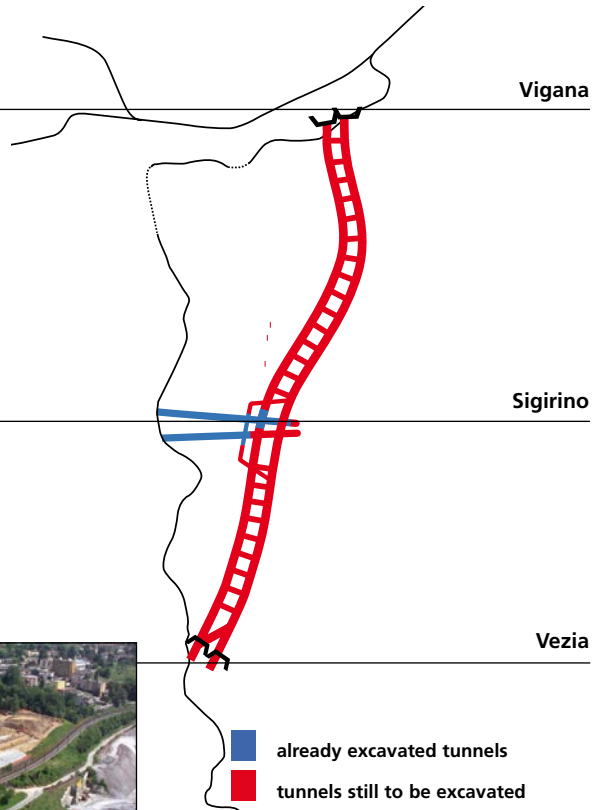
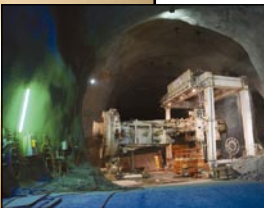
Ceneri Base Tunnel construction work status

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 branch offs will be excavated. These are for the connection to Locarno in the north and in the south for a possible extension of the new line.

In 2008, the 2.3 km access tunnel in Sigirino was excavated. At the end of this gallery an installation cavern will be excavated in the course of 2009, from there the tunnel will be driven to the north and to the south beginning in 2010.

From the north portal in Vigana the conventional excavation will start in 2009. At first a loose ground section below the A2 motorway will have to be excavated before the drive reaches the hard rock.

The tender for the main lot will be awarded in the course of 2009.

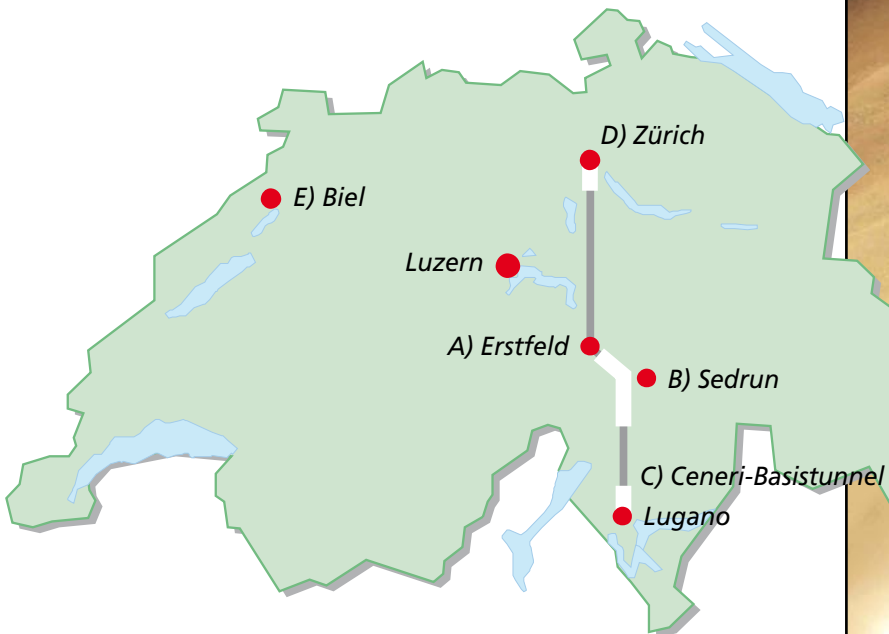


Swiss Tunnel excursions 2009

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

The Congress participants can chose between these five excursions:

- A) Gotthard Base Tunnel, Subsection Erstfeld
- B) Gotthard Base Tunnel, Subsection Sedrun
- C) Ceneri Base Tunnel
- D) Cross-City Link Zurich, Weinberg Tunnel
- E) Biel Bypass, Eastern Branch, Earth Pressure Balances Shield



Site visit, June 19, 2009

Tour A) Gotthard Base Tunnel, subsection Erstfeld

Tour A) Gotthard Base Tunnel, Erstfeld subsection

Visit of the installations and the tunnel boring machines in the west tube. At the time of the visit the west tube will have been excavated more than the half of the total length.

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 west (TBM excavation)
	- Visit of the connection gallery EST West (conventional excavation)
13.00	approx. Lunch
14.30	Return to Lucerne by bus
15.30	approx. 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 19, 2009

Tour B) Gotthard Base Tunnel, subsection Sedrun

Visit of the external installations, shaft head, the shaft foot and work on the inner shell.

- 07.15 Departure from Lucerne (by Bus)
09.00 Arrival on site, Site visit in groups
- Introduction of the project and visit of the external installations
 - Trip to the shaft head
 - Shaft journey to the tunnel level (800 m at about 1 min)
 - Visit to the installations and the concreting work underground
- 13.30 approx. Lunch in the site canteen Sedrun
14.45 Return to Lucerne by bus, stop at the station in Göschenen
16.30 approx. 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. Please follow the traffic signs. Travelling by bus is recommended
- The programme might be adjusted due to activities on site

The cost of the excursion is included in the conference fee.

Important Note: For the shaft journey good health and physical fitness, in particular, no fear of heights or claustrophobia is a prerequisite. Participants with respiratory problems, heart pacemakers or other vital medical equipment are excluded from the visit.



Site visit, June 19, 2009

Tour C) Ceneri Base Tunnel

A visit of the intermediate access in Sigirino where the excavation of the Caverna operativa (CAOP) is under construction. The main drives will be executed from the CAOP. Afterwards, a visit of the excavation of the under crossing of the A2 motorway (loose ground) on the site Camorino / Vigana will take place. The large cross-sections (about 300 m²) and lower overburden (about 10 meters) are the main characteristics of this challenging site.

- 07.15 Departure from Lucerne (by bus)
09.30 Arrival on site Sigirino, Site visit in groups
- introduction of the project
 - external installations
 - Journey through the 2.3 km long access tunnel and visit the work in the CAOP
- 12.15 approximately; lunch in the canteen site village in Sigirino
13.30 Departure to Camorino by bus
13.45 Arrival on site Camorina / Vigana
- works visit of the under crossing of the A2 motorway
- 15.00 Return to Lucerne (by bus), Transport to the station Bellinzona on demand
17.00 approx. Arrival in Lucerne

- Protective clothing, boots and helmets are available
- **The number of participants is restricted**
- In the area of the InfoCenter 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 cost of the excursion is included in the conference fee.



Site visit, June 19, 2009

Tour D) Cross-City Link Zurich, Weinberg Tunnel

The Weinberg Tunnel, the under crossing of the southern part of the main station, Zurich, with mining cut-and cover method and the crossing of the Sihl for the station Löwenstrasse are the core construction sites of the Cross-City Link in Zurich. These sites may be visited during the excursion.

- 07.30 Departure from Lucerne (by bus)
08.45 Arrival at the installation place Brunnenhof
- Introduction of the project (exerts)
 - Dividing into groups / equipment with protective clothing
- 09.15 approx site visit in groups
- Coffee Break
 - Main drive Weinberg Tunnel / logistics installations Oerlikon
 - Shaft and south track crossing / sub crossing Sihl
Main station Löwenstrasse
- 13.00 Approximately lunch in the canteen Brunnenhof
14.45 Return by bus to Lucerne
16.00 Approximately arriving in Lucerne

- vests and helmets are available. Good shoes are sufficient for the visit.
- There are no parking places, public transport possibilities are recommended
- **The number of participants is restricted**

The cost of the excursion is included in the conference fee.



Site visit, June 19, 2009

Tour E) Biel Bypass Eastern Branch, Earth Pressure Balanced Shield

Visit of the tunnel boring machine at the beginning of the excavation works in the first tunnel Büttenberg and external sites (Portal areas)

- 07.15 Departure Lucerne (bus)
09.00 approx arrival on site Bözingenfeld, Biel
- Project presentation
09.30 Coffee Break
10.00 site visit in groups
- Visit external installation Bözingenfeld and the excavation drive Büttenberg (drive start)
- Visiting external sites Orpund and Brüggmoos (portal areas)
13.30 Approximately lunch in the canteen Bözingenfeld
14.30 Approximately return by bus in Lucerne, via Olten station
16.30 Arriving 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 cost of the excursion is included in the conference fee.



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Zürich



Basler & Hofmann AG, Zürich

We would like to thank all the sponsors!



Organisation

Closing date for registrations: Thursday, 30 April 2009

Please use the enclosed registration form or register online at 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 in form of an 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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(Implenia, Alpine, Impreglio, CSC, Hochtief)**



FiReP International AG, Rapperswil



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Organisation

Costs of participation Swiss Tunnel Congress 2009

Presentations, excursions, proceedings

STS members	CHF 475.–	EUR 305.–
Non-members	CHF 530.–	EUR 340.–
Students, Seniors	CHF 220.–	EUR 140.–

Colloquium

STS members	CHF 150.–	EUR 95.–
Non-members	CHF 170.–	EUR 110.–
Students, Seniors	CHF 50.–	EUR 30.–

Dinner

Dinner	CHF 100.–	EUR 65.–
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Excursion and proceedings

One excursion	CHF 220.–	EUR 140.–
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All prices inclusive 7.6% VAT

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

Preliminary information Swiss Tunnel Congress 2010

The Swiss Tunnel Congress will take place next year, 9 - 11 June 2010.

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Implenia Bau AG, Aarau



Infra Tunnel SA, Marin



IUB Ingenieur-Unternehmung AG, Bern

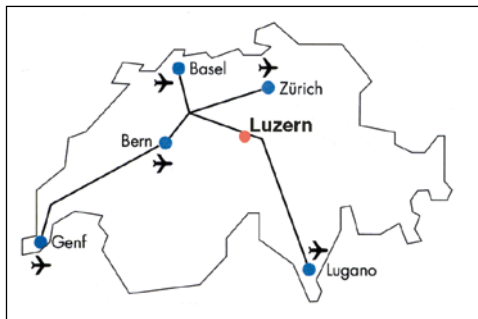
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Travel information

By public transport

- From Zurich Airport by train in 1 hour 30 minutes
- From Geneva Airport by train in 3 hours
- The Lucerne Culture and Convention Centre is located directly on the side of the Lucerne Rail Station

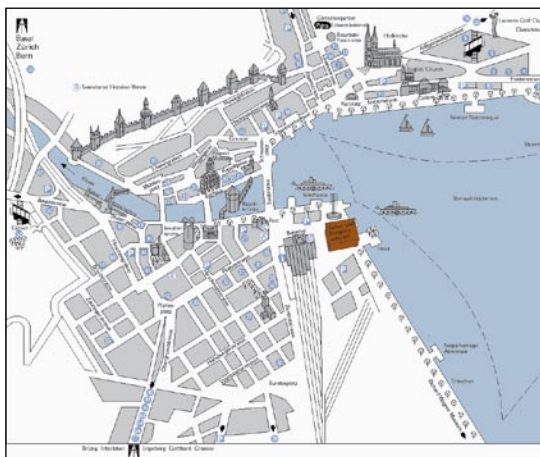


By car

Parking spaces are available in several car park at the Lucerne Culture and Convention Centre (KKL Lucerne).

Lucerne Culture and Convention Centre (KKL Luzern)

Europaplatz 1
Postfach 3570
6002 Luzern
Tel. +41 (0)41 226 70 70
Fax +41 (0)41 226 70 71
www.kkl-luzern.ch



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Hotel reservations

Please reserve your hotel room online at 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
Internet www.luzern-incoming.ch

Reservations must be received by **30. April 2009 at the latest** because the hotel reservation quotas are only valid **until this deadline.**

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	9.05
Basel	8.03	9.05
Bellinzona	6.36	8.41
Bern	8.00	9.00
Brig	6.49	9.00
Chur	7.13	9.25
Genf	6.10	9.00
Lausanne	6.45	9.00
Locarno	6.03	8.41
Sion	6.24	9.00
St. Gallen	7.02	9.20
Zürich HB	8.04	8.49
ZRH Airport	8.10	9.25

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Solexperts AG, Mönchaldorf



STRABAG AG Tunnelbau Schweiz, Erstfeld



ARGE TRANSCO, Sedrun



**ARGE Transtec Gotthard, Zürich (Atel,
Alcatel-Lucent/Thales, Alpine, Balfour Beatty)**

We would like to thank all the sponsors!



Evening Event on 18 June 2009



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 Uhr
Beginn Dinner	20.00 Uhr

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

Cost per person: CHF 100,-/
EUR 65,- (including 7.6% VAT),
drinks included.



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STS Swiss Tunnelling Society

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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)

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Vorname/Prénom _____

Firma/Entreprise _____

Adresse _____

PLZ/Numéro postale _____

Ort/Lieu _____

Fon _____

Fax _____

e-Mail Firma _____

www. _____

Privat Adresse/
Adresse privée _____

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Ort/Lieu _____

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Titel/Titre _____

Adresse für Korrespondenz:
Adresse de correspondance:

Privatadresse/Adresse privée

Firmenadresse/Adresse Entreprise

Ort/Lieu/Datum/Date _____

Unterschrift/Signature _____

STS Congress Secretariat

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Fax +41 (0)41 318 41 46

E-Mail maria.santin@luzern-incoming.ch

Internet www.luzern-incoming.ch

Online Hotel reservation at 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

