



**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 2010

## Lucerne

### Culture and Convention Centre

## Programme

**Swiss Tunnel Colloquium: Wednesday, 9 June 2010**

**Swiss Tunnel Congress: Thursday, 10 June 2010**

**Excursions: Friday, 11 June 2010**

*Translation from German to English*



# Swiss Tunnel Congress 2010

The Swiss Tunnelling Society (STS) hosts every year the Swiss Tunnel Congress (STC) in the Lucerne Culture and Convention Centre (KKL Luzern). In recent years this congress, which originally developed from the Alp Transit conferences, has become the leading event for Swiss tunnelling engineers.

In 2009 the congress was attended by more than 800 participants from 14 countries. High-class presentations were delivered, which were followed by the traditional excursions to large construction sites in Switzerland.

The STC 2010 is organized by the STC steering committee of the Swiss Tunnelling Society:

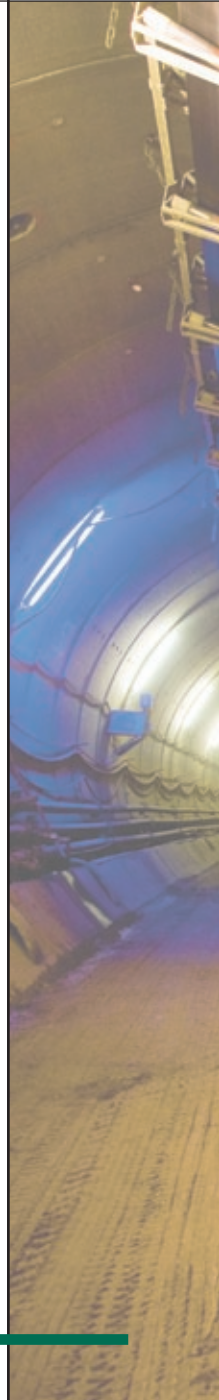
- Felix Amberg, M. Sc. President STS
- Heinz Ehrbar, M. Sc. STC (section manager)
- Martin Bosshard, M. Sc. STC (section manager)
- Prof. Dr. Georg Anagnostou Swiss Tunnel Colloquium
- François Bertholet, M. Sc. Swiss Tunnel Colloquium

## Advisory Board

Not only does the Advisory Board select interesting projects and invite top-quality speakers from abroad, it also ensures high quality of the presentations.

The Advisory Board is made up of the following members:

- Manuel Arnaiz, AETOS
- Prof. Dr. Robert Galler, ITA Austria
- Prof. Dr. Alfred Haack, STUVA/DAUB
- Prof. Pietro Lunardi, SIG
- Alain Balan, 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 2009 was turbulent – at least outside the tunnelling industry and outside the Swiss Tunnel Congress, where it was more a case of “business as usual”. It will be quite different this year, which in a certain sense marks a turning point: the published proceedings of the Swiss Tunnel Congress 2010 will have a different format. All papers will appear not only in the language of presentation, but there will also be an English translation and the congress proceedings will be distributed at the event itself. We are convinced that this step was necessary to promote the Swiss Tunnel Congress as an event of international importance with a very high standard.

In 2010 the main breakthrough will take place with the Gotthard Base Tunnel. Thus the world's longest railway tunnel with its global appeal will reach another milestone in its realization. With some considerable effort the Swiss Tunnelling Society is trying to have the World Tunnel Congress 2013 held in Switzerland. We hope to be able to announce the success of our endeavours at STC 2010, so that for the first time Switzerland will act as host and participate with justified confidence as an international player in the world of tunnelling.

Thus 2010 will be a key year in regard to the continuing international positioning of Swiss tunnelling - it will be an exciting year!

We will also sense this at the Swiss Tunnel Congress, whose increasing importance will be underlined with the opening paper being presented by the Swiss transport minister, federal councillor Moritz Leuenberger, and the ITA president, Martin C. Knights.

Again, with the help of the Advisory Board, we have been able to put together an interesting programme with outstanding projects and well-qualified speakers from abroad, together with lectures on equally impressive construction projects in Switzerland. The colloquium also has its fixed place in the activities and this year it will deal in depth with the topic of “Concrete Technology”.

For me personally, the STC is always a good opportunity to renew contact with friends and acquaintances from at home and abroad and to exchange ideas or enjoy each other's company at dinner. I am really looking forward to this and hope that this will be the case with you as well.

Welcoming you to the STC would not be complete however without expressing my sincere thanks to the organisers, the speakers and above all to the sponsors for the financial support of our congress. We are all well aware that without this support the Swiss Tunnel Congress could not take place.

Swiss Tunnelling Society

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

Felix Amberg, Präsident



# Swiss Tunnel Colloquium 2010



The aim of this year's colloquium is to present briefly the important milestones achieved in recent years in concrete technology, to give an overview of current questions regarding materials, methods and code-related topics, providing answers where possible, as well as discussing the future prospects as to what will be relevant for concrete technology in underground construction. As in previous years, the colloquium is supported by speakers representing university, planning, execution and industry and is directed towards both students and young engineers as also experienced practicing engineers.



12.00  
13.00

Registration in conference secretariat (in the foyer of the Lucerne Hall)  
Welcome by

Georg Anagnostou, Prof. Dr.  
ETH Zurich, Zurich

Introduction – Trends in Concrete Construction

Eugen Brühwiler, Prof. Dr. sc. techn., dipl. Bauing. ETH/SIA  
EPFL, Lausanne



## Concrete Technology

**The Importance of the Cement for Hightech Concrete in Underground Construction**

Erich Ritschard, Dipl. Chemiker HTL  
Holcim (Switzerland) AG, Zurich

Benedikt Schneider, Concrete Technologist  
Holcim (Switzerland) AG, Zurich



**New Codes – a Field of Tension  
Planning, Tendering and Quality Assurance**

Patrick Beeler Dipl. Bauing. ETH  
Lombardi AG, Lucerne

Roland Weiss, Dipl. Bauing. ETH/SIA  
Versuchsstollen Hagerbach AG, Flums Hochwiese



**GBT Concrete Systems – Tendering, Approval Execution and Findings seen from the Material Supplier's Viewpoint**

Jürg Schlumpf, Dipl. Bauing. HTL  
Sika Services AG, Zurich



**Zurich West Bypass –  
Central Concrete Preparation during Construction**

Ueli Schwarz, Dipl. Ingenieur FH  
Ingenieurbüro Heierli AG, Zürich



17.30  
18.30

Closing Remarks – followed by aperitif and exhibition.  
End of Colloquium.

# Swiss Tunnel Congress 2010

08.30 Registration in Conference Secretariat  
(in the foyer of the Lucerne Hall)

08.30 Welcome and coffee

## OPENING

09.30 Welcome and Official Opening of Congress

Felix Amberg  
President of Swiss Tunnelling Society



09.45

Welcome Address by the Minister  
of Transport – Tunnels are Bridges

Moritz Leuenberger, Federal Councillor  
Head of the DETEC, Berne



10.05

Welcome of the past ITA President:  
ITA Agenda and influences that make tunnelling  
sensible, sustainable and a responsible legacy

Martin C. Knights, BSc (Hons) Civil Engineering  
President ITA, International Tunnelling & Underground  
Space Association



### Chairman Morning Session

Alain Balan, Conseil Ingénierie Infrastructure, President AFTES

## MORNING PROGRAMME

10.30

An Old Dream – The Tunnel under the Strait of  
Gibraltar

Giovanni Lombardi, Dr. Dipl. Ing.  
Lombardi SA, Minusio



10.50 - 11.20 Coffee break

# Congress Programme 10 June 2010



11.20

Greater Paris – towards a new era of mass transit systems

Jean-Paul Godard, Honorary Senior Executive of the RATP  
French Tunnelling and Underground Space Association (AFTES)



11.40

Pump Storage Power Plant Nant de Drance –  
Challenges of Large Hydroelectric Project in the  
Valais Alps

Gérard Seingre, Ing. civil dipl. EPFL/SIA  
AF-Colenco SA, Châtelard/Finhaut, Switzerland



12.00

Zurich Cross-City Rail Link – Weinberg Tunnel  
Driving in inner-urban Area

Werner Schmid, Dipl. Bauing. ETH/SIA  
ARGE (Consortium) Tunnel Weinberg / Implenia Bau AG,  
Aarau, Switzerland



12.20

Cologne North-South Urban Light Railway  
The Accident at Waidmarkt – Findings and  
Consequences

Walter Reinarz, Dipl. Verwaltungsbetriebswirt  
Kölner Verkehrs-Betriebe AG, Cologne, Germany

12.40

Discussion

13.00 - 14.30

Lunch in the Lucerne Culture and Convention Centre

# Swiss Tunnel Congress 2010

## Chairman Afternoon Session

Robert Galler, Univ.-Prof., Dipl.-Ing., Dr. Mont

## AFTERNOON PROGRAMME

- 14.30 Construction Progress on the Gotthard Axis  
Renzo Simoni, Dr. sc. techn., Dipl. Bauing. ETH/SIA  
AlpTransit Gotthard AG, Lucerne, Switzerland
- 14.50 100 km TBM Tunnel Drive through the Alps – The Further Development of the Tunnel Boring Machine  
Martin Herrenknecht, Dr.-Ing. E.h.  
Herrenknecht AG, D-Schwanau, Germany
- 15.10 Faido TBM Drive – Findings with Reprofilling in the Squeezing Section  
Alex Sala, Dipl. Bauing. FH  
IG GBTS, Amberg Engineering AG, Regensdorf, Switzerland
- 15.30 Concrete, the Material for Tunnelling – Concrete Technology of the Sections Bodio/Faido at the Gotthard Base Tunnel  
Andreas Schaab, Dipl. Bauing.  
HOCHTIEF Consult Materials, Frankfurt, Germany
- 15.50 Gotthard Base Tunnel  
Rail Technology – Challenges for the Main Contractor  
Peter Huber, Dipl. El.-Ing. ETH/NDS BWI ETH  
Transtec Gotthard, Thales Rail Signalling Solutions AG, Zürich





# Congress Programme 10 June 2010



16.10 - 16.40 Coffee break



16.40 The Innovative Concept of Line 9 of the Barcelona Metro: Challenges and Solutions

Carmen Deulofeu Palomas, Civil Engineer  
Polytechnic University of Catalonia  
GISA Gestió d'Infrastructures S.A., Barcelona, Spain



17.00 Alborz Service Tunnel in Iran –  
TBM Tunnelling in difficult Ground Conditions

Dieter Wenner, Dipl. Geol., Rock Mech. Eng. MSc.  
Amberg Engineering AG, Regensdorf, Switzerland



17.20 Initial Problems in the TVM Drive of  
the Pfänder Tunnel (A)

Helmut Westermayr, Dipl.-Ing.  
Beton- und Monierbau GmbH, Innsbruck, Austria



17.40 The Challenges of the Allmend Tunnel using  
Cut-and-Cover Method with Overpressure

Jürg Biese, Dipl. Bauing ETH/SIA  
TU IZL / Implenia Bau AG, Lucerne, Switzerland

18.00 Discussion

18.20 Closing Remarks

Felix Amberg  
President of Swiss Tunneling Society

18.30 Aperitif in the Lucerne Culture and Convention Centre

## Construction Progress on the Gotthard Base Tunnel

After a total of nine years of excavation work in the main sections of the Gotthard Base Tunnel, the main breakthrough is expected to take place in the autumn of 2010. This represents a major milestone with regard to the completion of this flat low-level railway line through the Alps. Until then the remaining stretch between Sedrun and Faido still has to be excavated, where the TBM drive Faido is still within the range of influence of the reservoir Santa Maria. Before the end of 2009 the responsibility for the single-track tunnel tubes in Amsteg, Sedrun North and Bodio West was transferred to the AlpTransit Gotthard Ltd. Thus these objects are ready for the installation of the rail infrastructure. The work starts in May 2010 beginning at the south portal of the Gotthard Base Tunnel. In the subsections Erstfeld, Sedrun and Faido important concreting work is still in progress, such as the installation of the inner lining in the tunnel tubes or the finishing work on the multifunction stations. Of the more than 151.8 km long system of the Gotthard Base Tunnel, up to the end of 2009 approx. 142 km, i.e. almost 94 %, had been excavated. The start of commercial operations of the Gotthard Base Tunnel is planned for 2017.

### Erstfeld



### Amsteg



### Sedrun



### Faido



### Bodio



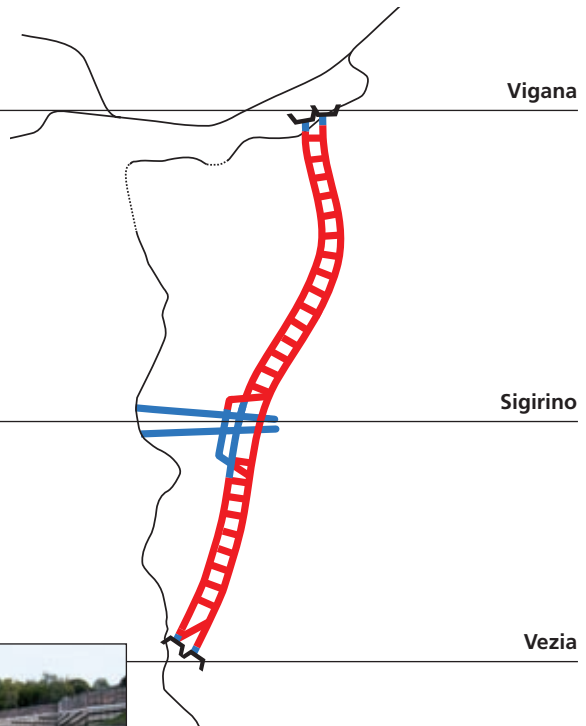
- construction work already completed
- tunnel tubes still to be excavated

## Construction Progress on the Ceneri Base Tunnel

The Ceneri Base Tunnel is 15.4 km long and connects the Magadino Plain at the north portal Vigana/Camorino in 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 a cavern housing railway junctions is being built. From here connecting ramps branch off in the directions of Bellinzona and Locarno. The alignment of the tunnel allows a later crossing of the Magadino Plain. In 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.

After completing the preliminary work for the intermediate attack at Sigirino, in 2010 the excavation of the tunnel tubes will be tackled by the main contractor. Parallel to this, the excavation of the portals will be carried out.

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



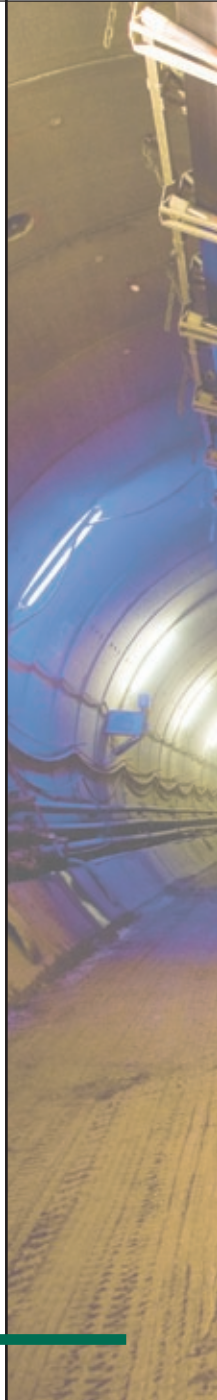
- construction work already completed
- tunnel tubes still to be excavated

# Swiss Tunnel Excursions 2010

As part of the annual Swiss Tunnel Colloquium and Congress held in the Lucerne Culture and Convention Centre, the Swiss Tunnelling Society organizes excursions on the third day. This year's excursions include a construction site on the Gotthard axis and other very interesting construction sites in Switzerland.

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

- A) Gotthard Base Tunnel, Faido
- B) Cross-City Link Zurich, Weinberg Tunnel - Löwenstrasse Railway Station
- C) Lowering of Central Railway Line, Lucerne
- D) Biel Bypass, Eastern Branch
- E) Herrenknecht Schwanau, Germany



# Site Visits 11 June 2010

## Tour A) Gotthard Base Tunnel, Faido

Visit the multifunction station to see the installations. Work is in progress on the air extraction structures at the emergency stopping points, on the concreting of the tunnel junction together with work on the secondary construction sites (access adits, cross caverns etc.).

07.30 Departure Lucerne (by bus)

09.00 Arrival at site.

Site visit in groups.

- presentation of project and visit to the external installations
- entry through the 2'650 m long access adit with 12.7% gradient to multifunction station
- viewing installations 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 11 June 2010

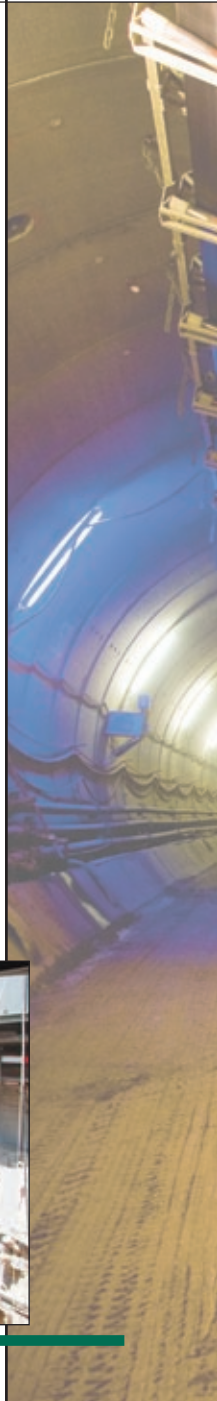
## Tour B) Cross-City Link Zurich, Weinberg Tunnel

The construction measures adopted for the tunnel drive of Section 3 in soft ground and the under-crossing of the south track using the drill-and-blast and cut-and-cover techniques as well as the various objects of Section 2 Löwenstrasse Station involve extremely difficult construction methods. The under-crossing of the historic Zurich Main Station will be visited in this excursion.

- 07.30 Departure Lucerne (by bus).  
08.45 Arrival at construction site Brunnenhof.  
- presentation of selected aspects of project  
- dividing up into groups / provision of protective clothing  
09.15 approx. Site visit in groups  
- coffee break  
- visit to on-site separation plant Brunnenhof  
- shaft and under-crossing of south track / under-crossing of river Sihl at Löwenstrasse Station  
13.00 approx. Lunch in the canteen  
14.45 Return by bus to Lucerne  
16.00 approx. Arrival in Lucerne

- Jackets and helmets provided. Suitable shoes for site visit are adequate.
- 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 11 June 2010

## Tour C) Lowering of Central Railway Line, Lucerne

Visit to the installations and equipment for the cut-and-cover method under overpressure to construct the Allmend Tunnel. Visit to the Hubelmatt Tunnel to see the road header machine and the drill-and-blast technique. At the time of the visit the deep excavation and the top-down construction method at the train stop Allmend and the demanding under-crossing of the Geissenstein ring at the north portal of the Hubelmatt Tunnel will be in progress.

- 08.00 Departure Lucerne (by bus).  
08.15 Arrival at construction site Mattenhof.  
08.30 General presentation of the project in plenary session.  
09.30 Site visit in groups (3 groups of 20-25 persons)
- visit to Mattenhof ramp with installations compressed air operations
  - visit to the deep excavation and train stop Allmend
  - inspect road header machine Hubelmatt Tunnel
  - visit to portal region of cut-and-cover tunnel Geissenstein
- 12.00 Lunch  
13.30 Return by bus to Lucerne  
13.45 Arrival in Lucerne

- Protective clothing, boots and helmets provided.
- For those going by car the only available public parking is on the Luzerner Allmend. 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 11 June 2010

## Tour D) Biel Bypass, Eastern Branch

**Visit to the tunnel construction site of the Längholz Tunnel as well as the external construction sites and the first tube to be completed at the Büttenberg Tunnel.**

- 07.30 Departure Lucerne (by bus).
- 09.00 approx. Arrival at construction site Bözingenfeld, Biel  
- presentation of project
- 09.30 Coffee break
- 10.00 Site visit in groups  
- visit to site installation Bözingenfeld and start of tube section Büttenberg (drive of first tube completed)  
- visit to Längholz Tunnel (tunnel drive)
- 14.00 approx. Lunch in the canteen Bözingenfeld
- 15.30 approx. Return by bus to Lucerne
- 17.00 approx. 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 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 11 June 2010

## Tour E) Herrenknecht Ltd., Schwanau, Germany

Visit to the TBM manufacturer Herrenknecht in Schwanau, Germany. After an approx. 1 hour presentation of the products and overseas projects follows a visit lasting about two hours to the works of the firm Herrenknecht including TBMs being assembled.

07.30	Departure Lucerne (by bus).
09.45	Presentation of the firm Herrenknecht with their products and projects
11.00	Tour of the works site in Schwanau
13.00	approx. Lunch
14.30	Return by bus to Lucerne
17.00	approx. Arrival in Lucerne

- **For excursion participants a valid passport (or identity card) is required.**
- Protective clothing: helmets provided.
- Taking photographs on site is not permitted.
- For those going by car a limited number of visitor parking spaces near the main administrative building is available. The route from Basle is via the motorway A5, direction Karlsruhe taking the exit Lahr. Then take the direction Schwanau-Allmannsweier. For route details go to [www.herrenknecht.de](http://www.herrenknecht.de).
- Taking the bus is recommended.
- **The number of participants is limited.**

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



# Sponsors Swiss Tunnel Congress 2010

## Main Sponsors



Alpine Bau GmbH, Salzburg/Wals  
Alpine-Bau GmbH, Hergiswil



Amberg Engineering AG



Amberg Technologies AG



Hagerbach Test Gallery Ltd.



Aon (Schweiz) AG, Zurich



*Armierungen nach Mass*

Armaspez GmbH, Wabern

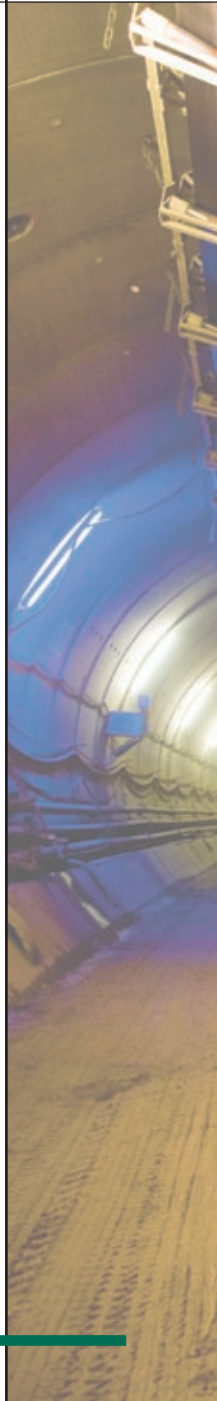


BASF Construction Chemicals Europe AG,  
Zurich



Basler & Hofmann AG, Zurich

Many thanks to all sponsors!



# Organisation

## **Closing date of registration: Friday, 30 April 2010**

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

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

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

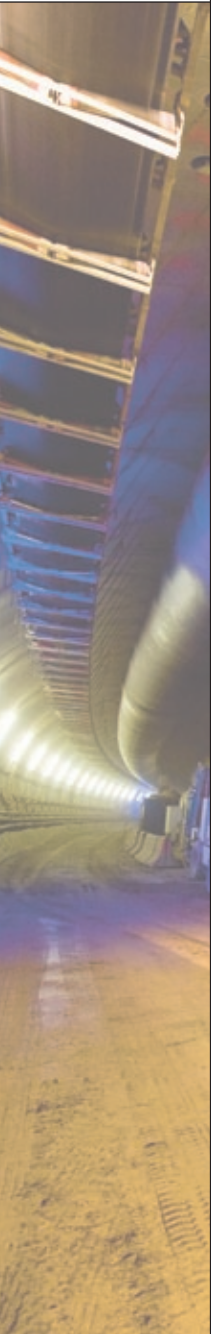
Swift Code: CRESCH ZZ 54 A

IBAN: CH18 0483 5082 0321 2100 0

At the end of May you will receive the congress documentation as well as confirmation in the form of an invoice (receipt 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 but 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.



# Sponsors Swiss Tunnel Congress 2010

## Main Sponsors



**Belloli SA, Grono**

**Rowa Tunnelling Logistics AG, Wangen SZ**



**BG Ingénieurs Conseils SA, Lausanne**



**Consorzio TAT, Los 554 Bodio/Los 452 Faido  
(Implenia, Alpine, Impreglio, CSC, Hochtief)**



**Emch+Berger Gruppe**

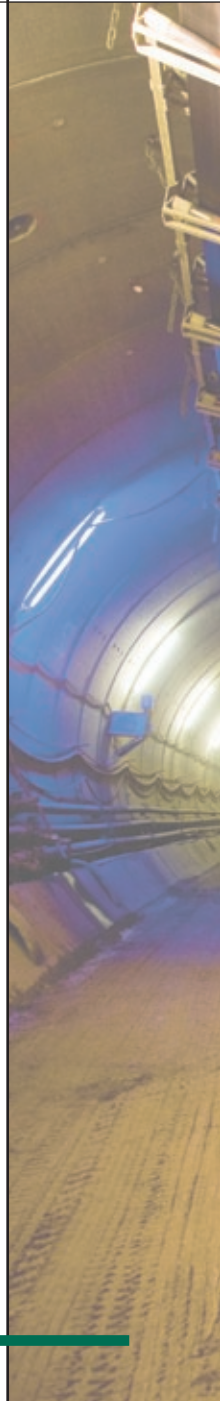


**Fischer Rista AG, Reinach**



**Frutiger AG, Thun**

**Many thanks to all sponsors!**



# Organisation

## Fees for Participants Swiss Tunnel Congress 2010

### Lectures, excursion, proceedings

STS Member	CHF 525.–	EUR 335.–
Non-member	CHF 585.–	EUR 375.–
Student, Senior	CHF 245.–	EUR 155.–

### Colloquium with proceedings

STS Member	CHF 165.–	EUR 105.–
Non-member	CHF 185.–	EUR 120.–
Student, Senior	CHF 55.–	EUR 35.–

### Dinner

Dinner	CHF 110.–	EUR 70.–
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### Excursion and proceedings

Excursion	CHF 240.–	EUR 155.–
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All prices include 7.6% VAT

All participants will receive the conference 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 conference proceedings with the voucher when they enter the bus.

## Advance Notice Swiss Tunnel Congress 2011

Next year the Swiss Tunnel Congress will take place from **8 – 10 June 2011** at the Lucerne Culture and Convention Centre.

# Sponsors Swiss Tunnel Congress 2010

## Main Sponsors



Gasser Felstechnik AG, Lungern



Herrenknecht AG, D-Schwanau



Holcim (Schweiz) AG, Zurich



Implenia Bau AG, Aarau

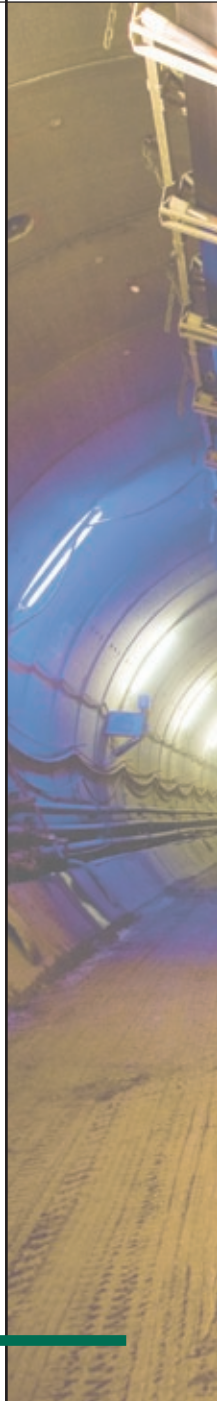


Infra Tunnel SA, Marin



IUB Ingenieur-Unternehmung AG

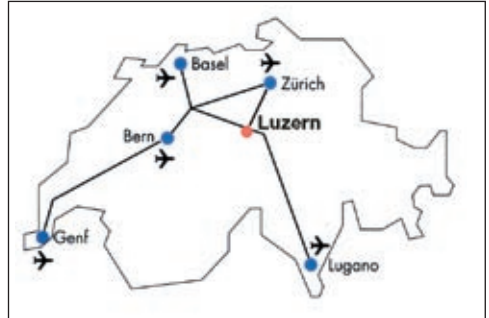
Many thanks to all sponsors!



## 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 next to the main railway station in Lucerne.



### By car

Parking is available in the vicinity of the Lucerne Culture and Convention Centre in several multistorey 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)

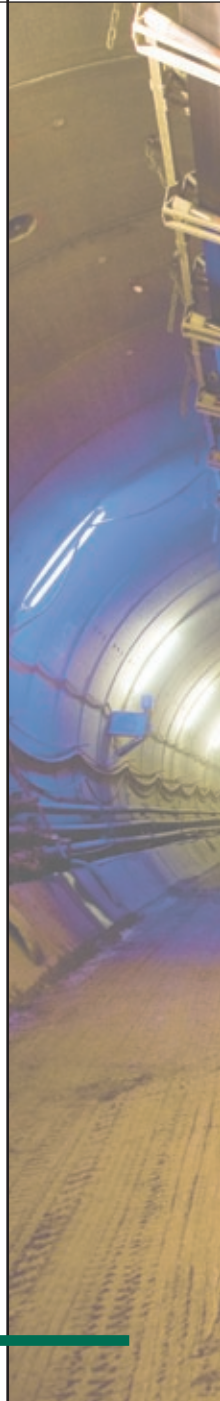


# Sponsors Swiss Tunnel Congress 2010

## Main Sponsors



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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@luzern-incoming.ch  
Internet www.luzern-incoming.ch

Reservations should be made at the latest by **30 April 2010**, since afterwards the block bookings of hotel rooms expire.

**Room reservation is the responsibility of the participant!**  
The room price is not included in the congress fee.

## Rail connections to Lucerne

	depart	arrive 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	8.10	9.25

# Sponsors Swiss Tunnel Congress 2010

## Main Sponsors



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SFS unimarket AG, Befestigungstechnik,  
Rotkreuz



Sika Schweiz AG,  
Tunnel & Mining, Zurich



Solexperts AG, Mönchaltorf



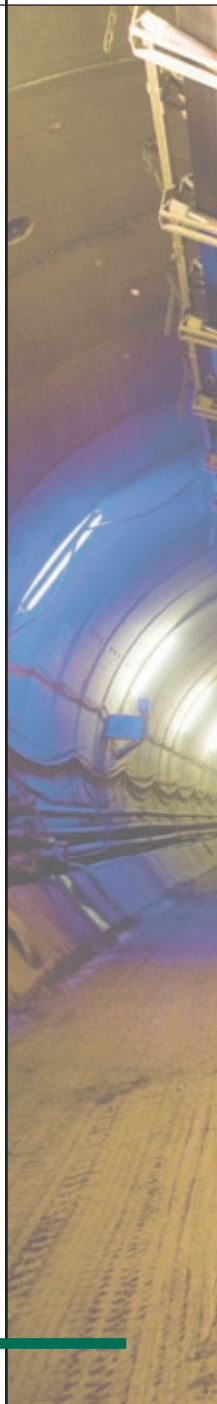
STRABAG AG Tunnelbau Schweiz, Erstfeld



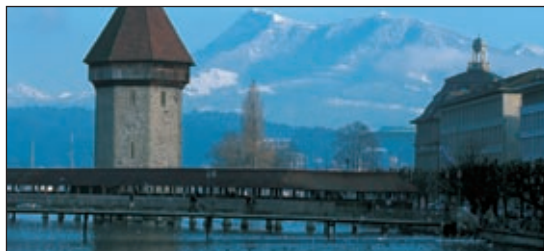
swisscom

Swisscom, Zurich

Many thanks to all sponsors!



## Evening Event 10 June 2010



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.

Opens at 19.45 Uhr  
and dinner begins at 20.00 Uhr

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

Costs per person CHF 110.–/EUR 70.–  
(incl. 7,6% VAT), drinks included.



# Sponsoren Swiss Tunnel Congress 2010

## Hauptponsoren



**Swiss IT Factory, Zürich**



**Edy Toscano AG, Zürich**



**ARGE TRANSCO, Sedrun**



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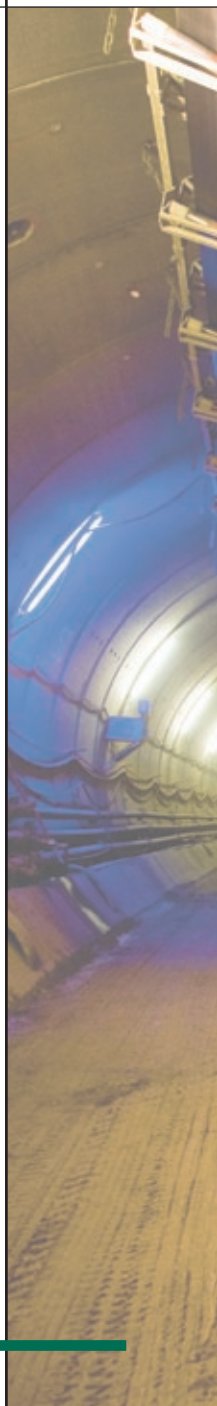
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c/o Amberg Engineering AG  
Sven Klahr  
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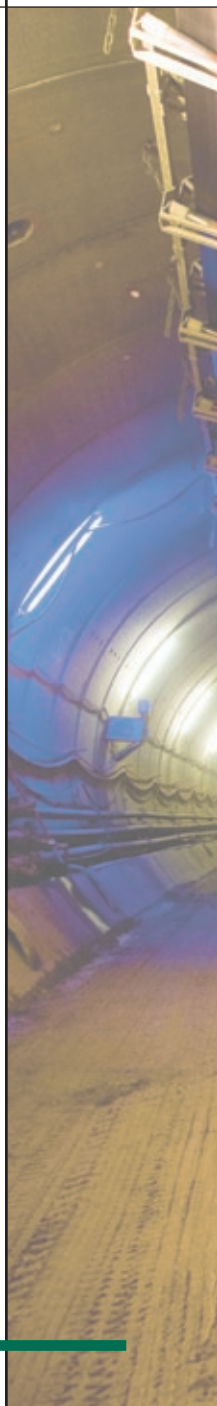
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# STS Congress Secretariat

## Registration and Information:

Thomi Bräm

PR-Beratung + Verlag

Felsenstrasse 11

CH-5400 Baden

E-Mail [fgu@thomibraem.ch](mailto:fgu@thomibraem.ch)

Fax +41 (0)56 200 23 34

Tel. +41 (0)56 200 23 33

**Congress Hotline: +41 (0)79 411 73 46 (only from 8.6.2010)**

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Luzern Incoming GmbH

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E-Mail [maria.santin@luzern-incoming.ch](mailto:maria.santin@luzern-incoming.ch)

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