



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 2015

Lucerne Culture and Convention Centre

Programme

Swiss Tunnel Colloquium: Wednesday, 10 June 2015

Swiss Tunnel Congress: Thursday, 11 June 2015

Excursions: Friday, 12 June 2015

Translation from French, Italian and English into German (only 11.6)

Translation from German to English (10.6. and 11.6.)

Traduction simultanée de l'allemand au français (seulement 11.6.)

Swiss Tunnel Congress 2015

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.

Over the previous year's 800 participants from 15 countries attended the congress. The congress includes high level presentations and the traditional excursions to major construction sites in Switzerland.

STC 2015 is organised by the Steering Committee of the Swiss Tunnelling Society:

- | | |
|--|-------------------------|
| • Luzi R. Gruber, Dipl. Ing. | President STS |
| • Stefan Maurhofer, Dipl. Ing. | Vice-President STS |
| • Martin Bosshard, Dipl. Ing. | Past President STS |
| • Stefan Moser, Dr. sc. techn., Dipl. Ing. | Swiss Tunnel Congress |
| • Matthias Neuenschwander, Dipl. Ing. | Swiss Tunnel Congress |
| • François Bertholet, Dipl. Ing. | Swiss Tunnel Colloquium |

Advisory Board

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

The Advisory Board Swiss Tunnel Congress 2015 comprises the following members:

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



A Warm Welcome



The Swiss Tunnel Congress (STC), organised by the Swiss Tunnelling Society (STS), will take place for the 14th time in the Culture and Convention Centre Lucerne (KKL) in the large concert hall, the showpiece of the KKL.

The STC has secured a fixed place in the agenda of the tunnelling specialist. As the most important platform it offers clients, planning engineers, consulting design engineers, suppliers, service providers and contractors with the opportunity to gain an insight into new innovative methods as applied in selected tunnelling projects both in Switzerland and other countries. The STC also provides an excellent opportunity to make new professional contacts or to strengthen existing ones.

The programme begins on Wednesday afternoon with the Swiss Tunnel Colloquium, which is dedicated to the topic "Service life in relation to serviceability and durability". One topic, which in view of the 100-year service life of the Gotthard Base Tunnel - rightly called the structure of the century - involves cutting-edge technology of keen current interest, and personally is one that I really care about.

The Thursday morning of the congress is reserved for Swiss projects, except for the introductory lecture given by Professor Sarah Springman, Rector of the ETH Zurich since the 1st January 2015. An interesting mix of current projects shows that even after the NRLA (NEAT) a variety of projects are underway, although it cannot be denied that at the moment the majority are in the process of planning rather than in execution. This state of affairs is a challenge to the politicians, who should now be creating the boundary conditions for a quick realisation of urgently needed underground structures – for example the third tube of the Gubrist Tunnel. "The involvement of citizens in the planning phase is important and right, but it should not degenerate to a democracy of complaints and appeals leading to years of delay" – this is a quote from the Swiss Minister of Transport Doris Leuthard (Infra Conference, 22nd January 2015).

The afternoon is reserved for projects in other countries, especially projects in which Swiss firms participate. The Friday, in line with tradition, is reserved for the technical excursions.

I wish you all an interesting Congress, many lively discussions, lasting impressions and with these words I welcome you to the STC 2015 in Lucerne.

Swiss Tunnelling Society

A handwritten signature in dark ink, appearing to read 'L. Gruber', written over a light blue horizontal line.

Luzi R. Gruber, President

Swiss Tunnel Colloquium 2015

The service life of a tunnel structure is usually specified without much deliberation. A 100-year life is regarded as standard. The determination of the service life, dealing with the durability during the design process as well as the question of quality assurance are decisive issues for the successful construction of a tunnel. "What is durable from the material-technological point of view and what is feasible in practice?" As soon as we are clear on these points, the contractual aspects need to be dealt with. Further, there are also the legal aspects. Lecturers from the side of the client (i.e. consulting), university, legal practice, planning, execution and industry will report on these topics. As always the colloquium is directed towards students, young engineers as well as experienced practitioners.

12.00 Opening of the Conference Secretariat

13.00 Greetings

Stefan Maurhofer, Dipl. Bau-Ing. FH
Vice-President Swiss Tunnelling Society



SERVICE LIFE IN RELATION TO SERVICEABILITY AND DURABILITY

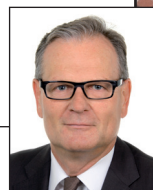
13.10 Specifying the service life from the client's viewpoint

Richard Kocherhans, Dipl. Bau-Ing. ETH/SIA
Federal Office for Roads FEDRO, Zofingen



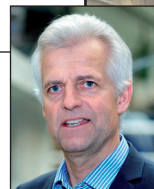
13.40 Legal aspects in regard to serviceability and durability

Roland Hürlimann, Dr. LL.M., Lawyer
Baur Hürlimann AG, Zürich



14.10 Is reinforced concrete durable?

Eugen Brühweiler, Prof. Dr. Dipl. Bau-Ing. ETH/SIA
ETH Lausanne (EPFL), Lausanne



14.40–15.00 Coffee break

Colloquium Programme, 10 June 2015



15.00

The influence of Service-Life on Project Planning

Thomas Kobler, Dipl. Bau-Ing. ETH
Amberg Engineering AG, Regensburg



15.20

A Contractual Approach to Quality Requirements

Jürg Künzle, Lawyer
Marti Contractors Ltd., Moosseedorf



15.40

Concrete – Engineering Options and Practical Feasibility

Peter Wellauer, Dipl. Bau-Ing. ETH/SIA
Holcim (Schweiz) AG, Zürich



Jürg Schlumpf, Dipl. Bau-Ing. HTL
Sika Services AG, Zürich

16.30

Question Time / Closing Remarks

Followed by the opening of the exhibition and
aperitif offered by ANLIKER Holding AG



18.30

End of the Colloquium

Swiss Tunnel Congress 2015

08.30 Opening of the Conference Secretariat

08.30 Welcome Coffee

INTRODUCTION

09.30 Official opening and welcome
Luzi R. Gruber, Dipl. Bau-Ing. ETH/SIA
President Swiss Tunnelling Society



09.40 Opening Lecture:
ETH: Exzellenz - Tunnel - Hochschule
Sarah Springman, Prof. Dr.
Rector ETH Zurich



Chairman of the Morning Session

Adrian Müller, Dipl. Bau-Ing. HTL, Member of the Executive Board STS

MORNING LECTURES

10.10 Zurich Cross Rail: "Lessons learnt"
Stefan Moser, Dr. sc. techn., MSc ETH/SIA
Basler & Hofmann AG, Zurich



10.30 Alp-Transit Ceneri Base Tunnel, further highlights
Marco Ceriani, Dipl. Bau-Ing. FH, dipl. Wirt.-Ing. STV
AlpTransit Gotthard AG, Luzern



Congress Programme, 11 June 2015



10.50

Pinchat Tunnel (CH) – Tunnelling in
unconsolidated Alluvium

Philippe Zimmer, Ing. en génie civil et structure - FH/MSc
Walo Bertschinger AG, Zurich

11.10 – 11.30 Coffee break



11.30

A5 Biel West Branch – Challenges for Client,
Designers and Contractors

Stefan Graf, Dipl. Ing. ETH/SIA, WirtschaftsIng. FH
Tiefbauamt des Kantons Bern, Bern



11.50

A2 Belchen Tunnel, rehabilitation Tunnel –
Overhaul Concept and Selection of Tunnelling
Method

Jürg Röthlisberger, Dipl. Bau-Ing. ETH/SIA
Bundesamt für Strassen ASTRA, Utzigen



12.10

A8 Interlaken-East-Brienz Maintenance Project
Giessbach and Chüebalm Tunnel Safety Tunnels

Bruno Gugelmann, Dipl. Bau-Ing. ETH/SIA
CSC Impresa Costruzioni SA, Lugano



12.30

Albula Tunnel II – New Structure instead of
Redevelopment, Problems affecting the Client

Christian Florin, Dipl. Bau-Ing. ETH/SIA
Rhätische Bahn AG, Chur

12.50

Discussion

13.00 – 14.30

Lunch in the Lucerne Culture and
Convention Centre

Swiss Tunnel Congress 2015

Chairman of the Afternoon Session

Xavier Roulet, Ingénieur en génie civil EPFL/SIA, Vorstand STS

AFTERNOON LECTURES

14.30

The Filder Tunnel in the DB project Stuttgart-Ulm:
From the shotcrete method to mechanised tunnelling

Manfred Leger, Dipl.-Wirtschaftsing. FH
DB Projekt Stuttgart-Ulm GmbH, Stuttgart (DE)



14.50

Brenner Base Tunnel: Life Cycle Design and
innovative Construction Technology

Konrad Bergmeister, Prof. Dr. Dr., Dipl.-Ing.
Brenner Basistunnel BBT SE, Innsbruck (AT)



15.10

Underground Works for EXPO 2015:
The Universal Exhibition in Milan

Giovanna Cassani, M. Sc. Eng.
ROCKSOIL S.p.A., Milano (IT)



15.30

Nice Tramway – Line No. 2: The challenges in
constructing a tunnel in a dense urban area

Raoul Fernandez, Ingénieur génie civil INSA Strasbourg
Bouygues Travaux Publics - Groupement THAUMASIA, Nice (FR)



Didier Charrin, Ingénieur des travaux publics de l'état
Direction du Tramway et de la Mobilité Durable, Nice (FR)



15.50 – 16.20 Coffee break

Congress Programme, 11 June 2015



16.20

Cross Rail London (GB):
Tunnelling the London Clay

Davor Simic, PhD. Civil Eng. Ferrovial-Agroman
Prof. Universidad Politécnica de Madrid (ES)



16.40

The Liefkenshoek Railway Tunnel in Antwerp,
the longest mechanical tunnel drive in Belgium

Johan Mignon, Dipl.-Ing. FH
Wayss & Freytag Ingenieurbau AG, Antwerpen (BE)



17.00

Ulriken Tunnel: The first TBM drive for
a railway tunnel in Norway

Marco Ramoni, Dr. sc. Dipl. Bau-Ing. ETH/SIA
Basler & Hofmann AG, Zürich



17.20

Ottawa Light Rail Transit (CA):
Mined Tunnels beat Cut and Cover

Alejandro Sanz, Civil and Mechanical Engineer
Dragados S.A., Madrid (ES)



17.40

Discussion

18.00

Closing remarks

Luzi R. Gruber, Dipl. Bau-Ing. ETH/SIA
President Swiss Tunnelling Society

Followed by an aperitif in front of the KKL
offered by the Doppelmayr/Garaventa Group



20.00

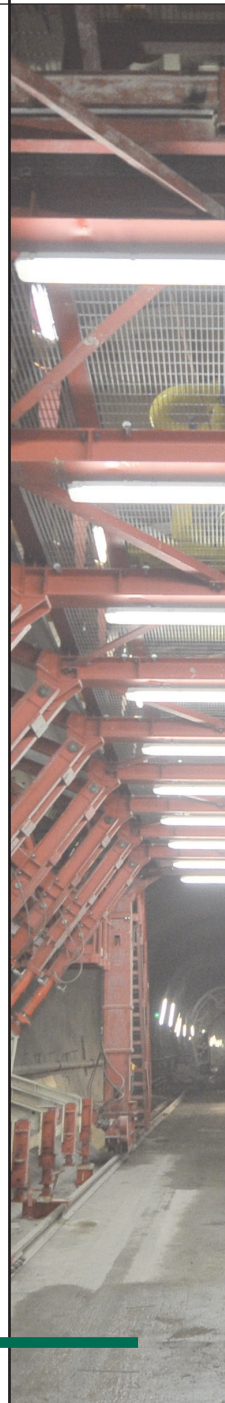
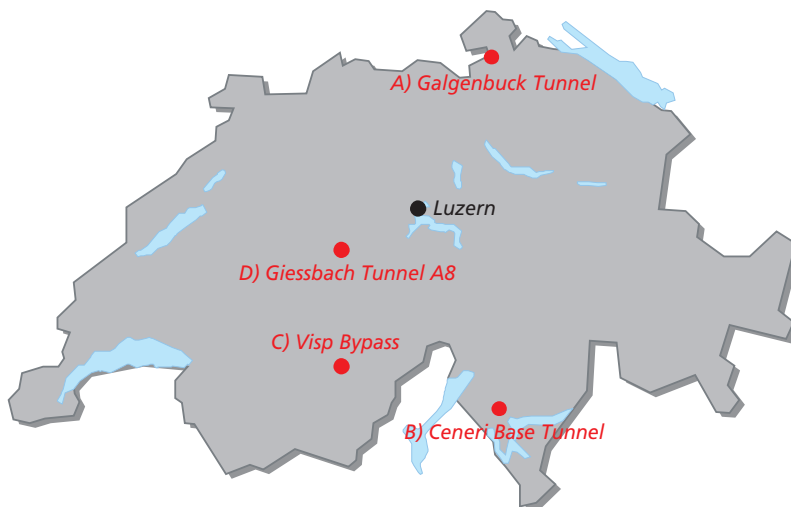
Dinner at Hotel Schweizerhof

Swiss Tunnel Exkursionen 2015

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, lead to the construction sites Galgenbuck Tunnel, Ceneri Base Tunnel, Visp Bypass and the Giessbach Safety Tunnel.

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

- A) Galgenbuck Tunnel (SH)
- B) Alptransit Ceneri Base Tunnel – Sigrino (TI)
- C) Visp Bypass (VS)
- D) Safety tunnel for Giessbach Tunnel A8 (BE)



Site Visit, 12 June 2015

A) Galgenbuck Tunnel (SH)

The small town of Neuhausen near the Rhine Falls in Schaffhausen urgently needs relief from very dense through-traffic. The two-lane Galgenbuck Tunnel will solve this problem. The excavation is being carried out in very changeable geological conditions. The excavation work for the main attack on the Engi side can be seen within the framework of the excursion.

- 07.40 Meeting point at the Inseli car park (behind the KKL Lucerne)
- 07.45 Departure Lucerne (bus)
- 09.30 Arrival at the installation area Engi for the Galgenbuck Tunnel
 - Project presentation
 - Visit to the construction site (in groups)
- 11.30 approx., Lunch
- 13.30 Return to Lucerne (bus)
- 15.15 approx., Arrival in Lucerne

- Helmets and safety jackets provided. You will need footwear suitable for site conditions.
- No parking spaces are available. You are advised to travel by bus.
- The number of participants is limited.

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



Site Visit, 12 June 2015

B) AlpTransit Ceneri Basistunnel – Sigirino

Visit to the installations both above ground, especially the material handling and final storage place, and also below ground. From the intermediate attack Sigirino a minibus takes us into the tunnel and then we can explore on foot one of the two main tunnel drives. Following this, we will visit the construction site in the Portal Area South (Vezia). With a length of 15.4 km between the North Portal Vigana near Camorino and the South Portal in Vezia, after the Gotthard Base Tunnel, the Ceneri Base Tunnel is the second largest tunnel project in Switzerland.

- 07.15 Meeting point at the Inseli car park (behind the KKL Lucerne)
 - 07.20 Departure Lucerne (bus)
 - 09.30 Arrival at the ATG construction site in Sigirino. Construction site visit in 2 groups (each of 25 persons) by minibus
 - Project presentation, state of progress
 - Visit to the aboveground installations
 - Drive through the 2.3 km long access tunnel and visit to the underground construction site (intermediate attack Sigirino)
 - 12.00 Lunch in the local construction works canteen in Sigirino
 - 13.30 Depart by bus to the portal construction site Vezia
 - 13.45 Arrival at construction site and site visit, return to Sigirino by bus
 - 14.45 Return to Lucerne. If required, transport to Bellinzona railway station
 - 17.00 approx., Arrival at the Inseli car park (behind KKL Lucerne)
- Helmets, boots and weatherproof jackets provided.
 - For those travelling by car there are only a limited number of parking spaces available in the area of the Infopoint. Thus using the bus is recommended.
 - Depending on the actual site works, the programme may have to be adjusted.
 - The number of participants is limited.

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



Site Visit, 12 June 2015

C) A9 Construction site of Visp Tunnel

The tunnelling work for the Visp Tunnel has already started. Together with the Eyholz Tunnel, the Visp Tunnel is part of the southern bypass of the planned motorway A9 in the region of Visp. With this milestone, the realisation of the Visp southern bypass is well on its way.

- 07.50 Meeting point at Lucerne railway station (probably on platform 8)
- 08.00 Depart Lucerne with the SBB train through the Lötschberg Tunnel
- 10.02 Arrival in Visp SBB railway station
 - Departure by postal coach to the construction site
 - Welcome, coffee, project presentation
 - Site visit
- 13.00 Lunch
- 14.30 Transport by postal coach to the railway station
- 14.57 SBB train from Visp
- 17.00 Arrival in Lucerne

- Helmets, boots and weatherproof jackets provided.
- For those travelling by car there are no parking spaces available.
Travel by train and postal coach is recommended.
- Depending on actual site works, the programme may have to be adjusted.
- The number of participants is limited.

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



Site Visit, 12 June 2015

D) Safety Tunnel for Giessbach Tunnel A8 (BE)

As part of the FEDRO project "Tunnel Safety in the Bernese Uplands" the existing tunnels on the A8 between Interlaken and Brienz are being retrofitted with safety tunnels. The excursion offers the possibility of visiting the sites of the safety tunnels Giessbach and Chüebalm.

- 07.55 Meeting point at the Inseli car park (behind the KKL Lucerne)
- 08.00 Departure from Lucerne (bus)
- 09.00 Arrival at the installation site in Glooten
 - Project presentation
 - Splitting up into groups / Equipping with protective clothing
- 09.30 approx., Site visit in groups
 - Visit to the safety tunnel Chüebalm
 - Visit to the safety tunnel Giessbach
- 12.30 approx., Lunch in the canteen of the consortium in Brienz
- 14.30 Return journey by bus to Lucerne
- 15.30 Arrival in Lucerne

- Helmets and safety jackets provided. Normal footwear is adequate for the inspection of the building site.
- No Parking spaces are available. Please take the bus from Lucerne.
- The number of participants is limited.

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





Organisation

Closing Date of Registration: 30 April 2015

Please register online under www.swisstunnel.ch or use the enclosed registration form.

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

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

Payment in Swiss Francs

Account No: 820321-21

IBAN: CH18 0483 5082 0321 2100 0

Payment in Euro

Account No: 820321-22

IBAN: CH81 0483 5082 0321 2200 0

At the beginning of June you will receive the congress documents, confirmation and the invoice receipt.

Advance notice of the Swiss Tunnel Congress 2016

The Swiss Tunnel Congress will take place from the 15 – 17 June 2016 at the KKL (Culture and Convention Centre Lucerne).

Programm Swiss Tunnel Congress 2015

Swiss Tunnel Colloquium			Swiss Tunnel Congress			Excursions		
Wednesday, 10 June 2015			Thursday, 11 June 2015			Friday, 12 June 2015		
07.30 - 08.00								A) Galgenbuck Tunnel (SH)
08.00 - 08.30								B) Alptransit Ceneri Base Tunnel – Sigirino (TI)
08.30 - 09.00								C) Visp Bypass (VS)
09.00 - 09.30								D) Safety tunnel for Giessbach Tunnel A8 (BE)
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18.30 - 19.00								
19.00 - 19.30								
20.00 - 24.00								
20.30 - 23.00								



Evening Event, 11 June 2015



After the lectures an aperitif in front of the KKL is offered by the Doppelmayr/Garaventa Group



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

Opening time	19.45 Uhr
Dinner	20.00 Uhr

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

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



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Registration

Swiss Tunnel Congress 2015

Lectures, Excursion, Proceedings

STS-Member	CHF/EUR	560.–
Non-Member	CHF/EUR	620.–
Student	CHF/EUR	250.–

Colloquium, Proceedings

STS-Member	CHF/EUR	175.–
Non-Member	CHF/EUR	200.–
Student	CHF/EUR	60.–

Dinner

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

One Excursion	CHF/EUR	250.–
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All prices incl. 8% VAT

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

Cancellation conditions

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

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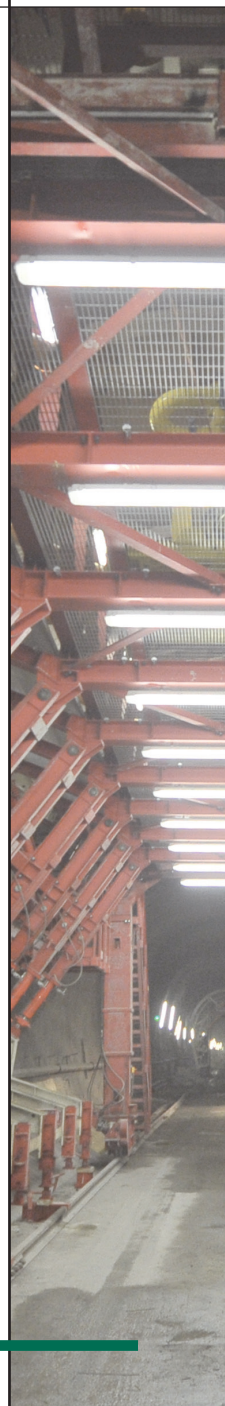


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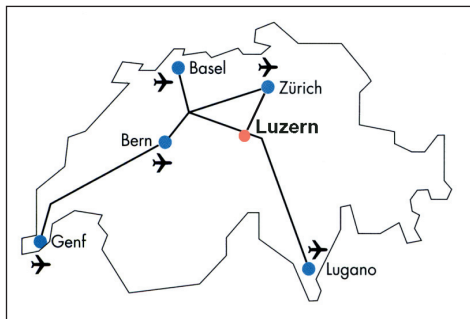
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Directions

By public transport

- From Zurich Airport by train in 1 ¼ h
- From Geneva Airport by train in 3 h
- The Lucerne Culture and Convention Centre (KKL) is in the immediate vicinity of the Main Railway Station in Lucerne.

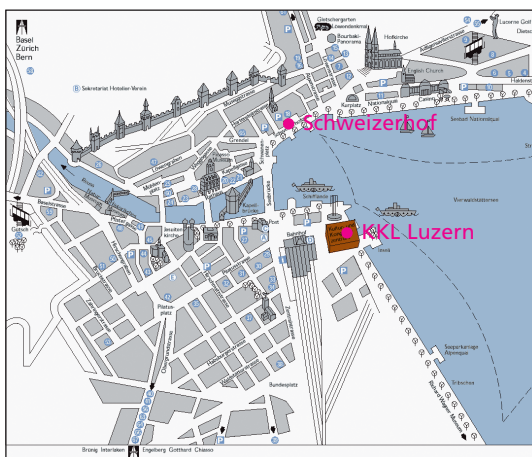


By car

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

Lucerne Culture and Convention Centre (KKL)

Europaplatz 1
CH-6002 Luzern
Tel. +41 41 226 70 70
www.kkl-luzern.ch



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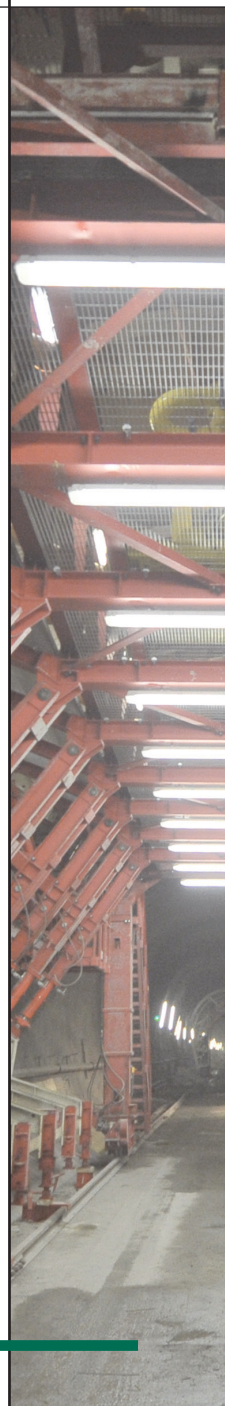


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Hotel Reservation

The booking of rooms is the responsibility of participants.

You can make reservations via:
www.luzern.com/en/hotels-accommodation

Accommodation is not included in the conference package.

Rail connections to Lucerne

	departure	arrival in Lucerne
Aarau	8.14	9.05
Basel	8.04	9.05
Bellinzona	6.34	8.41
Bern	8.00	9.00
Brig	6.49	9.00
Chur	7.16	9.25
Genf	6.11	9.00
Lausanne	6.47	9.00
Locarno	6.04	8.41
Sion	6.23	9.00
St. Gallen	7.05	9.20
Zürich HB	8.04	8.49
ZRH Airport	8.13	9.25

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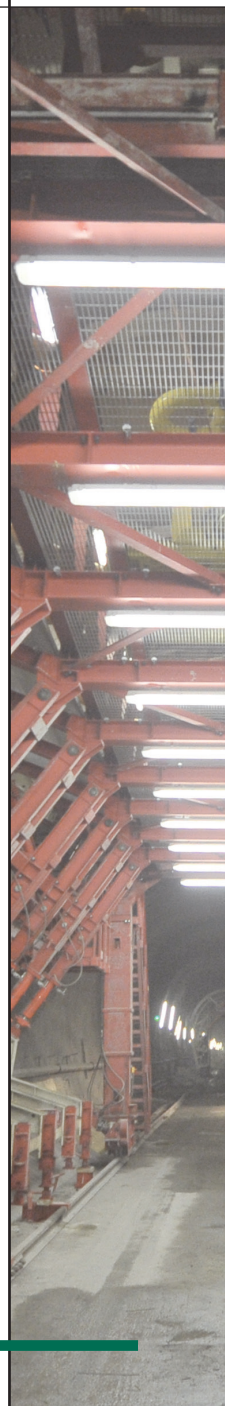


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Book Tunnelling Switzerland Edition 2013

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Membership of STS



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STS Swiss Tunnelling Society

Swiss Tunnelling Society
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Fax +41 44 387 15 00
Mail sia-fgu@swisstunnel.ch

Application for Membership of STS

- | | |
|--|------------------------------|
| <input type="checkbox"/> Single Member | CHF/EUR 50.– excl. VAT p.a. |
| <input type="checkbox"/> Collective Member | CHF/EUR 500.– excl. VAT p.a. |
| <input type="checkbox"/> Student | CHF/EUR 20.– excl. VAT p.a. |
| <input type="checkbox"/> Senior | CHF/EUR 50.– excl. VAT p.a. |

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Title _____

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Privat Address ☐

Business Address ☐

Place/Date _____

Signature _____

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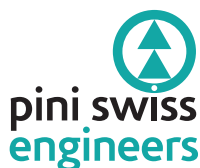
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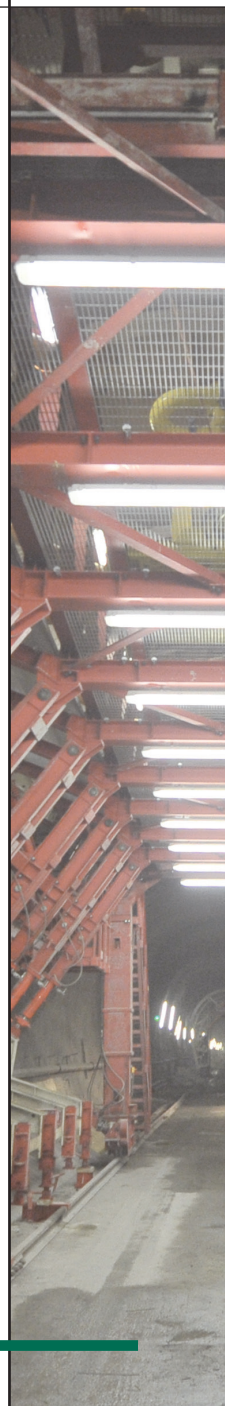


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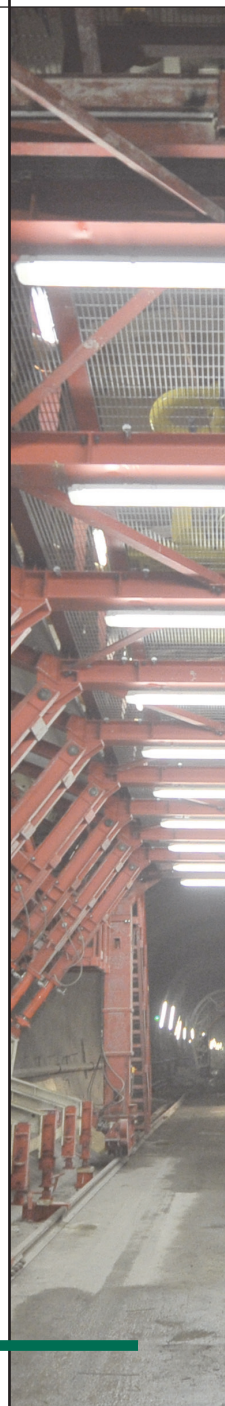
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STS Conference Secretariat

Registration and Information:

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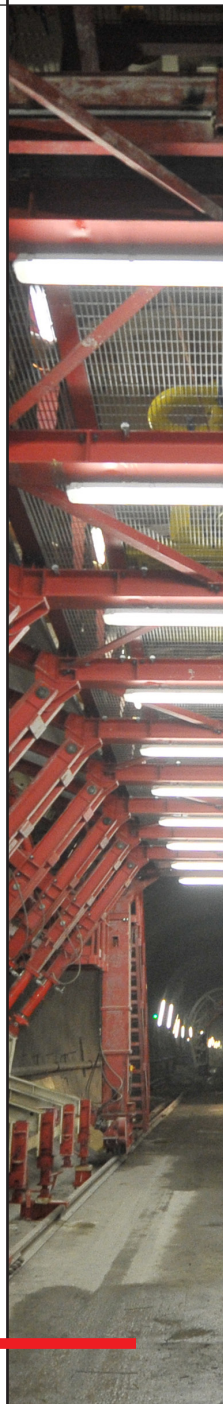
Conference Hotline: +41 79 411 73 46 (10.-12.6.2015 only)

Hotel Reservations:

The booking of rooms is the responsibility of participants.

Accommodation is not included in the conference package.

Reservations: www.luzern.com/en/hotels-accommodation



FGU Fachgruppe für Untertagbau

GTS Groupe spécialisé pour les travaux souterrains

GLS Gruppo specializzato per lavori in sotterraneo

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