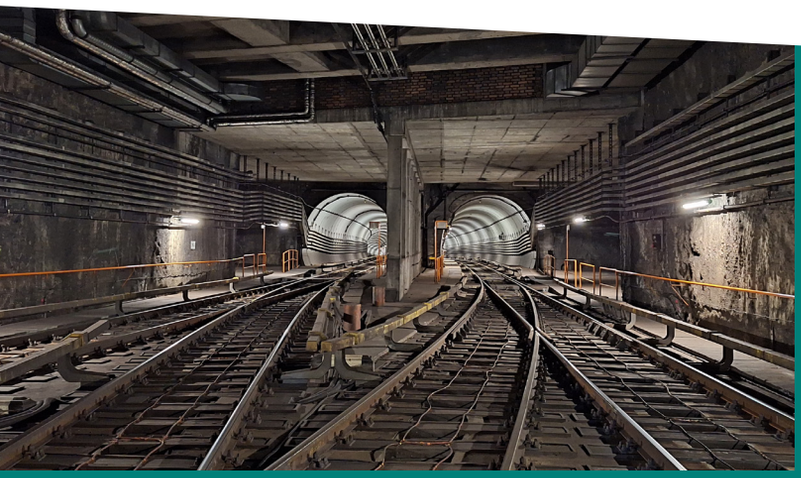
BOKU UNIVERSITY

fib PhD SYMPOSIUM
2026 VIENNA



Brochure of the

16th *fib* International PhD Symposium in Civil Engineering

Vienna, Austria

9-11 September 2026

Editors: A. Strauss and K. Bergmeister

Contents

Welcome to the 16th International PhD Symposium

Dear Participants, Colleagues, and Friends,

It is our great pleasure to welcome you to the 16th fib International PhD Symposium in Civil Engineering, hosted by BOKU University in Vienna from 9–11 September 2026.

Alfred Strauss

Since the first fib PhD Symposium was held in 1996, this series of events has evolved into one of the most important international platforms for doctoral researchers in structural and civil engineering. Over the past three decades, the symposium has accompanied generations of young researchers on their academic journeys, creating an environment where ideas can be challenged, refined, and transformed into lasting contributions to our profession.

The original motivation of the PhD Symposium remains as relevant today as it was thirty years ago: to provide doctoral candidates with an opportunity to present and discuss their research within a broad and international community of professors, researchers, and industry experts. Unlike many specialized conferences, the symposium encourages interdisciplinary dialogue and constructive feedback from a wider audience. This allows participants to receive perspectives that often extend beyond their immediate research field and academic environment, helping them to strengthen both their scientific work and their professional development.

Konrad Bergmeister

Equally important is the unique community that emerges from these meetings. Many former participants recall that the most valuable outcomes were not only the technical discussions but also the personal and professional relationships that began during the symposium. The opportunity to meet fellow PhD candidates from different countries, exchange experiences, discuss challenges, and learn from one another frequently develops into long-term collaborations. Over the years, numerous research partnerships, joint projects, academic exchanges, and industrial collaborations have originated from connections first established at a fib PhD Symposium. In many cases, these professional relationships have grown into lifelong friendships that continue to shape careers and enrich our international fib community.

Recognizing the importance of supporting the next generation of researchers, the fib PhD Symposium 2026 will further strengthen its educational and networking mission through the integration of the fib Mentoring Programme. This initiative will provide participants with opportunities to engage directly with experienced researchers and senior members of the fib community, fostering knowledge transfer, career guidance, and professional development beyond the technical sessions.

The symposium also serves as a bridge between academia and practice. Through interactions with industry representatives, consulting engineers, contractors, and material producers, partur career.

We wish you an inspiring, productive, and memorable symposium and look forward to welcoming you to Vienna.

Sincerely,
The Organizing Committee

Symposium Organization

Organizing Association

fib International

Organizing Institution

BOKU University

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Scientific Committee

The Scientific Committee brings together renowned researchers and professors from leading universities, research institutions and industry organizations worldwide. Their expertise ensure the high scientific quality and international relevance of this Symposium.

Global Representation

Austria - Belgium - Czech Republic - France - Germany - Greece - Hungary - Italy - Japan - Lebanon - Malta - Netherlands - Norway - Poland - Portugal - Romania - Serbia - South Africa - South Korea - Spain - Switzerland - Turkey - United Arab Emirates - United Kingdom and others

Timeline of the PhD Symposium

1996
1st Symposium with the goal to increase the international exposure of young scientists
Budapest University of Technology and Economics
BME, Budapest, Hungary

1998
2nd PhD Symposium
Budapest University of Technology and Economics
BME, Budapest, Hungary

2000
3rd PhD Symposium
University of Applied Sciences
Vienna, Austria

2002
4th PhD Symposium
Technical Univ. of Münich and Univ. of Federal Armed Forces Munich
Munich, Germany

2004
5th PhD Symposium
Delft University of Technology
Delft, The Netherlands

2006
6th PhD Symposium
ETH Zürich
Zürich, Switzerland

2008
7th PhD Symposium
University Stuttgart
Stuttgart, Germany

2010
8th PhD Symposium
Technical Univ. of Denmark
Lyngby, Denmark

2012
9th PhD Symposium
Karlsruhe Institute of Techn.
Karlsruhe, Germany

2014
10th PhD Symposium
Université Laval
Quebec City, Canada

2016
11th PhD Symposium
The Tokyo University
Tokyo, Japan

2018
12th PhD Symposium
Technical University of Prague
Prague, Czech Republic

2020
13th PhD Symposium
University Gustave Eiffel
Paris, France

2022
14th PhD Symposium
University of Rome, Tor Vergata
Rome, Italy

2024
15th PhD Symposium
Budapest University of Technology and Economics
BME, Budapest, Hungary

2026
16th PhD Symposium
BOKU University
Vienna, Austria

Symposium Venue

BOKU University

BOKU is one of Europe's leading life sciences universities, distinguished by its holistic approach to research and teaching. Our researchers, students,and alumni work on solutions to pressing societalchallenges and for a sustainable future. Its story began in 1872 as a small agricultural college under the name "k. k. Hochschule für Bodenkultur".

Today, the BOKU locations Türkenschanze, Muthgasse, and Tulln offer for the six departments and 11,000 students optimal conditions for learning, teaching, and research. The symposium highlights the growing importance and international recognition of sustainable civil and infrastuctural engineering at BOKU University.

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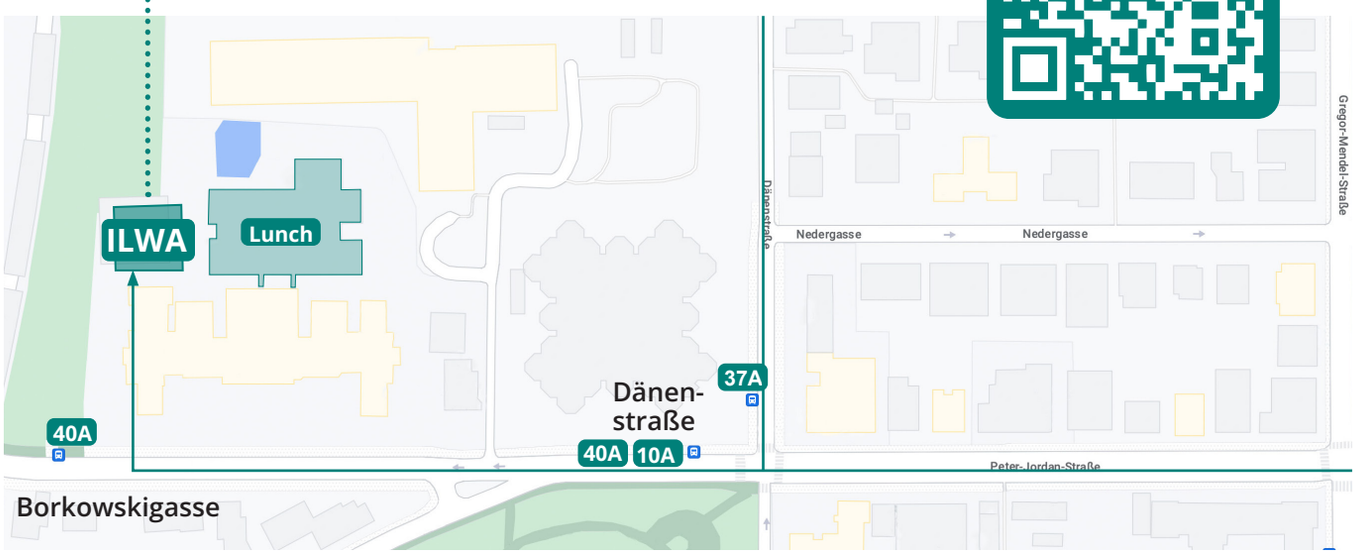
Ilse-Wallentin-Haus (ILWA)

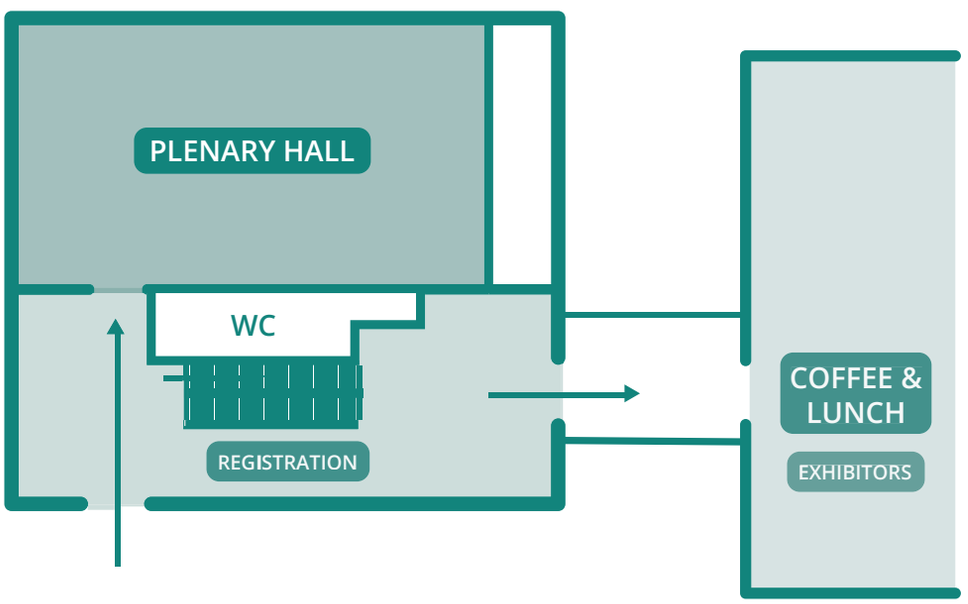
The venue of this symposium is the "Ilse-Wallentin-Haus". The building was named after the first woman to receive a doctorate at the university, Ilse Wallentin.

Scan to view our location on Google Maps.



Ilse-Wallentin-Haus (ILWA)

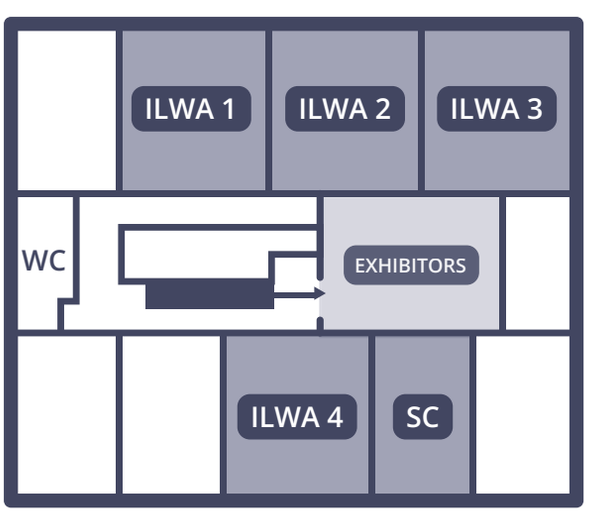
ILWA
Ground Floor (EG)



Plenary hall:
Opening Ceremony, Keynotes, Closing Ceremony

Welcome reception:
Coffee & Lunch Area (Auditorium Schwackhöfer House)

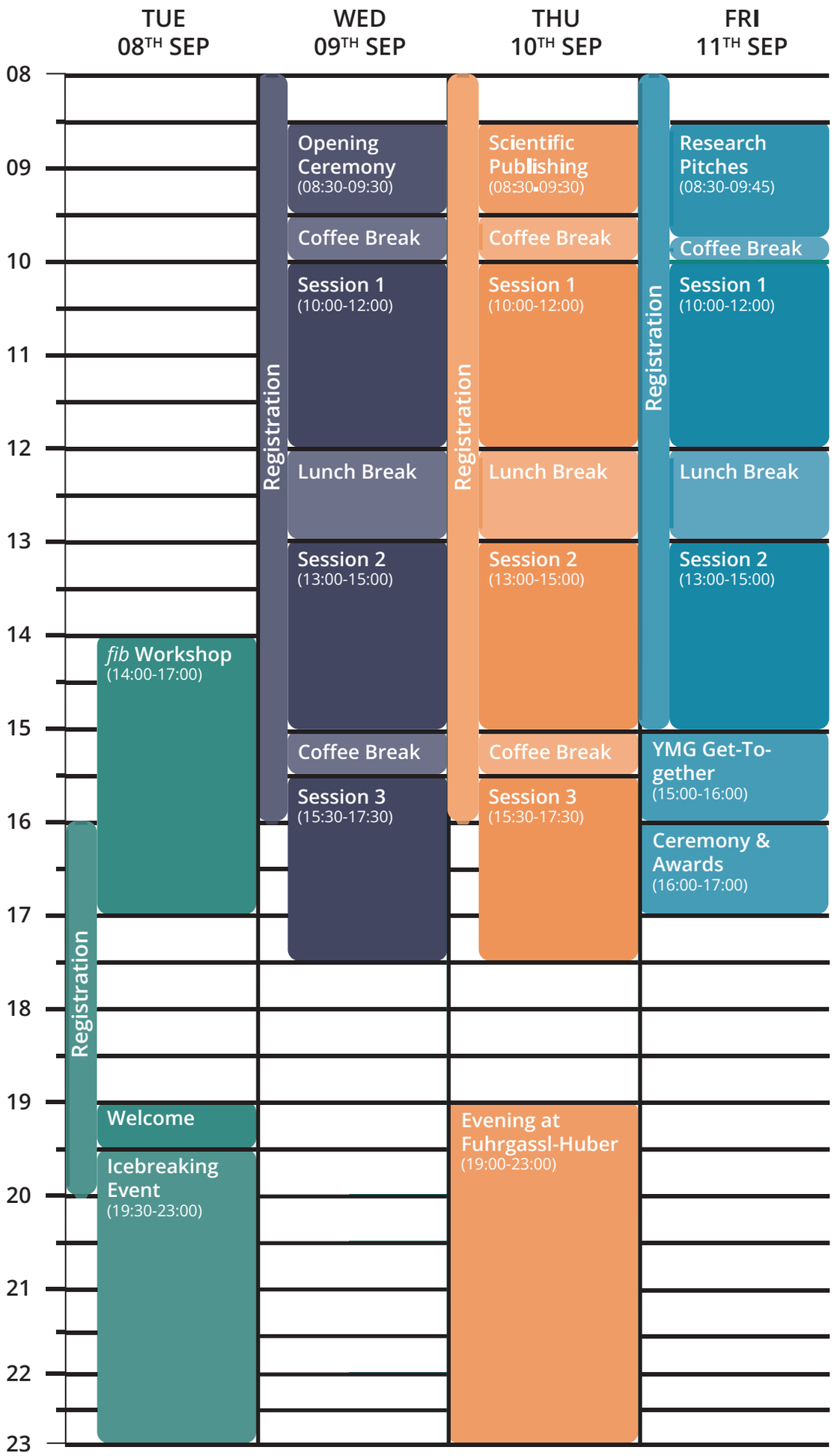
ILWA
Lower Level (UG)



Rooms ILWA1–ILWA4:
Parallel sessions

SC = Slide Center

Symposium Overview



Programme

TUESDAY 8 SEPTEMBER 2026

fib Workshop
(KOIN CAD Room, 14:00-17:00)

- Advanced Numerical Methods
- AI-Based Assessment and Decision Technologies

Welcome & Icebreaking Event
(Schwackhöfer House, 19:00-23:00)

WEDNESDAY 9 SEPTEMBER 2026

Opening Ceremony
(Plenary Hall, 08:30-09:30)

Keynote Lecture:
Research-Driven Innovation for the Precast Concrete Industry by Eduardo Júlio, *Instituto Superior Técnico, Portugal*

Coffee Break at Schwackhöfer House | Group Photo in Front of the Exner House

Session 1
(10:00-12:00)

- ILWA 1: **Material Performance**
- ILWA 2: **3D Printing**
- ILWA 3: **Connections and Fastenings**
- ILWA 4: **Structural Monitoring**

Lunch at Schwackhöfer House

Session 2
(13:00-15:00)

- ILWA 1: **AI and Knowledge Based Modeling**
- ILWA 2: **Structural Performance**
- ILWA 3: **Durability**
- ILWA 4: **Sustainability and Circularity**

Coffee Break & Mentoring at Schwackhöfer House

Session 3
(15:30-17:30)

- ILWA 1: **Numerical Modelling**
- ILWA 2: **Novel Non-Metallic Reinforcement**
- ILWA 3: **Structural Assessment**
- ILWA 4: **Sustainable Concrete**

THURSDAY 10 SEPTEMBER 2026

Scientific Publishing
(Plenary Hall, 08:30-09:30)

Keynote Lecture:
AI for PhD Researchers: Opportunities, Limitations and Best Practices by Sylvia Keßler, *Helmut-Schmidt-University / University of the Federal Armed Forces Hamburg, Germany*

Coffee Break at Schwackhöfer House

Session 1
(10:00-12:00)

- ILWA 1: **Sustainable Concrete**
- ILWA 2: **Material Performance**
- ILWA 3: **Connections and Fastenings**
- ILWA 4: **Structural Monitoring**

Lunch at Schwackhöfer House

Session 2
(13:00-15:00)

- ILWA 1: **Numerical Modelling**
- ILWA 2: **Material Performance**
- ILWA 3: **Structural Performance**
- ILWA 4: **Soil–Structure Interaction**

Coffee Break & Mentoring at Schwackhöfer House

Session 3
(15:30-17:30)

- ILWA 1: **Novel Non-Metallic Reinforcement**
- ILWA 2: **AI and Knowledge Based Modeling**
- ILWA 3: **Structural Assessment**
- ILWA 4: **Sustainability and Circularity**

Networking and Social Evening at a Traditional Viennese Heuriger "Fuhrgassl-Huber"

(19:00-23:00)

FRIDAY 11 SEPTEMBER 2026

Research Pitches

(Plenary Hall, 08:30-09:45)

Emerging Ideas Shaping the Future of Concrete and Structural Engineering by Thomas Mader, Christina Anegg, Matthias Hammerl

Alumni Keynote

(Plenary Hall)

Once upon a time there was a PhD Candidate... a short story of bonds, reinforcement, and aggregate experience by Panagiotis Spyridis

Coffee Break at Schwackhöfer House

Session 1

(10:00-12:00)

- ILWA 1: **Structural Performance**
- ILWA 2: **Material Performance**
- ILWA 3: **Connections and Fastenings**
- ILWA 4: **Reliability Concepts**

Lunch at Schwackhöfer House

Session 2

(13:00-15:00)

- ILWA 1: **Material Performance**
- ILWA 2: **Structural Performance**
- ILWA 3: **Reliability Concepts**
- ILWA 4: **Numerical Modelling**

fib YMG Get-Together

(ILWA, 15:00-16:00)

Awards, Recognition and Closing Ceremony

(Schwackhöfer House, 16:00-17:00)

Registration at ILWA ground floor
Tuesday: 16:00 – 20:00
Wednesday-Thursday: 08:00 – 16:00
Friday: 08:00 – 12:00

fib Workshop

More information and the registration for the Mentoring Programme you find here:

Prior to the official opening of the fib International PhD Symposium 2026, we are pleased to offer a PhD Training Programme on Tuesday, 8 September 2026, from 14:00 to 17:00.

The training covers the topics Advanced Numerical Methods and AI-Based Assessment and Decision Technologies, with a particular focus on nonlinear computational modelling, physics-based digital twins, and AI-supported structural assessment and decision-making for concrete structures. Participation is open to all interested symposium attendees. If you would like to join the training programme, please register using the link below by 1 September 2026.

Registration deadline: 1 September 2026

Registration: click here

Keynote Speakers

Sylvia Keßler

Helmut-Schmidt-University / University of the Federal Armed Forces Hamburg, Germany

Publishing in Structural Concrete: Facts, Figures, and an Editor's Perspective

Keynote teaser:
Structural Concrete, the journal of the International Federation for Structural Concrete, provides an international platform for research and innovation across the field of structural concrete. This presentation offers an inside look at publishing in Structural Concrete, combining key facts and figures on the journal's development, submissions, readership, and publication process with the perspective of an editor. Beyond the numbers, the talk will address a question of particular interest to prospective authors: "What can you do to avoid having your manuscript desk-rejected?" Drawing on first-hand editorial experience, the presentation will highlight what editors look for during the initial screening of a manuscript, common reasons for desk rejection, and practical advice on how to give your submission the best possible start.

Short-Bio:
Prof. Keßler is Professor for Engineering Materials and Building Preservation. Her research centers on service-life design and condition assessment of reinforced concrete structures, with a strong focus on non-destructive testing and monitoring. She advances the integration of AI, digitalization, and Building Information Modeling (BIM) to improve reliability and optimize maintenance strategies. Her work supports sustainable, data-driven infrastructure management across the entire life cycle. Prof. Keßler serves on the fib Presidium and convenes Special Activity Group (SAG) 2: "AI and Digitalization". She also convenes the fib Task Group 3.3 on "Existing Concrete Structures: Life Management, Testing, and Structural Health Monitoring," in addition to holding various national and international professional roles. She also serves as an Associate Editor-in-Chief of Structural Concrete, the scientific journal of fib.

Eduardo S. Júlio

Instituto Superior Técnico, Portugal

Research-Driven Innovation for the Precast Concrete Industry

Keynote teaser
What is research? What is its purpose? And how can it drive innovation in industry? Addressing these questions for a PhD audience, Eduardo Júlio's keynote will reflect on over 25 years of collaboration between his research group and the Portuguese precast concrete industry. Through examples centred mainly on advanced concrete materials, it will show how applied research has translated scientific advances into innovative products, enhancing aesthetics, performance, cost-effectiveness, durability, and sustainability. The lecture will also reflect on future challenges for research and innovation, highlighting the important role of fib in fostering dialogue between research and practice.

Short-Bio:
Full Professor at Instituto Superior Técnico, University of Lisbon (since 2011). Research on innovative prefabricated concrete systems and rehabilitation of existing structures. Played a leading role in establishing ISISE and CERIS, Portugal's only

two Civil Engineering research centres rated "Excellent". Led 35 competitively funded R&D projects, securing >€11 million in funding, supervised 20 PhD theses, authored >500 publications, including >200 Scopus-indexed papers (h-index=49), being repeatedly recognised among Stanford University's World's Top 2% Scientists. Launched new master's and doctoral programmes, and received the IST Excellent Teacher Award on several occasions. Maintains an active consultancy practice, held several management positions, including CEO of Fundiestamo, responsible for implementing Portugal's National Fund for the Rehabilitation of the Built Environment. President of GPBE–fib Portugal, Associate Editor-in-Chief of Structural Concrete, fib Fellow and Honorary Life Member. From January 2027, will serve as Deputy Chair of the fib Technical Council and member of the fib Presidium.

More information about the Pitch Speaker you find here:

Wednesday 9 September 2026

Opening Ceremony (ILWA 1, 08:30-09:30) – See page 15

Session 1 (10:00-12:00)

ILWA1

Material Performance

Chairs: Peter Mark & György L. Balázs
YM-Chair: Mathias Hammerl

Pullout performance of glass fibre reinforced polymer bars of various diameters in a novel experimental setup

Szinvai, S.; Kovács, T.; Zhang, J.

Differential shrinkage cracking in fully end-restrained fibre reinforced concrete members with conventional reinforcement

Tang, P.; Amin, A.

Strain coupling effects in reinforced concrete membrane elements subjected to in-plane stresses

V G, J.G.; Sengupta, A.K.

Impact of tendon failures: a comparative study on twin post-tensioned box-girder carriageways

Galatà, C.; Messina, D.; De Domenico, D.; Recupero, A.; Proverbio, E.

ILWA2

3D Printing

Chairs: Christian Glock & Lucio Blandini
YM-Chair: Peter Gappmaier

Durability assessment of 3D printable concrete under freeze and thaw

Baral, S.; Madsen, G.; Lande, I.; Vysochinskiy, D.

Experimental investigation of interlayer shear behaviour in 3D printed concrete under varying confinement conditions

Giulivo, G.; Mudadu, A.; Menna, C.

Load-bearing behaviour of 3D-printed concrete beams with a rationalised reinforcement approach for automated production

Fritz, F.; Huber, P.; Huber, T.

Influence of variable strand orientation on the strength of 3D-printed concrete

Pfleger, M.; Radl, E.; Huber, P.; Huber, T.

ILWA3

Connections and Fastenings

Chairs: Panagiotis Spyridis & Jan Hofmann
YM-Chair: Oliver Zeman

Experimental investigation of uplift in a reversibly dry-jointed timber-concrete composite ceiling system

Müller, R.; Sorg, C.; Ruppert, F.; Glock, C.

Evaluation and prioritisation of sealing elements in contact joints of precast lock chamber walls

Schmied, J.; Lühr, S.; Stephan, C.; Pahn, M.

Dry interlocking joint for CFRP-reinforced modular component: tensile testing with computed tomography and digital image correlation

Ragab, A.; Liebold, F.; Grzesiak, S.; Zierul, L.; de Sousa, C.; Pahn, M.; Beckmann, B.; Adam, V.

Rehabilitation of cold war sites in Europe: structural exoskeletons for seismic strengthening and sustainability

Vazzoler, A.; Plizzari, G.A.; Longo, O.; Marini, A.; Labò, S.

ILWA4

Structural Monitoring

Chairs: Daniele Losanno & Matthias Neuner
YM-Chair: Maximilian Granzner

Existing tunnels monitoring, risk evaluation and rehabilitation: an overview of the italian guidelines

Brentana, G.; Trabucchi, I.; Tiberti, G.; Plizzari, G.A.

Rod shape monitoring based on strain measurements from fibre optic sensors

Šplíchal, B.; Grba, D.; Lehký, D.; Strauss, A.

Structural behaviour and crack evolution of full-scale RC dapped-end beams with orthogonal reinforcement

van Ratingen, L.; Vanquaille, A.; Amin, N.; Verstrynge, E.; Mihaylov, B.; Vereecken, E.; Degée, H.

Monitoring crack initiation and propagation in reinforced concrete using two-dimensional distributed fiber optic sensing

Wellmann, T.; Becks, H.; Classen, M.

Session 2 (13:00-15:00)

ILWA1

AI and knowledge based modeling

Chairs: Benjamin Kromoser & David Lehký
YM-Chair: Zare Pegah

Predicting mechanical response of discrete lattice unit cells using neural networks

Raisinger, J.; Eliáš, J.

Automated characterisation of subsequently cut surfaces of reused RC-elements using optical 3D scans

Pieplow, S.; Sanio, D.; Mark, P.

Automated industry foundation classes modeling of bridge superstructures via knowledge based point cloud slicing

Schellen, M.; Glock, C.

Capturing reality or modeling it? Point clouds vs building information modeling in bridge monitoring

Koehncke, M.; Kessler, S.

ILWA2

Structural Performance

Chairs: Matteo Colombo & Lucio Blandini
YM-Chair: Simon Leitner

Bond behaviour of concrete members with fibre-reinforced polymer reinforcement and its influence on cracking behaviour

Lengert, K.; Görtz, S.

Bond performance in horizontally and vertically cast ultra-high-performance fibre-reinforced concrete overlays

Thomassen, M.; Lande, I.

Influence of planted columns on shear resistance of transfer slabs without transverse reinforcement

Long, J.; Vollum, R.; Macorini, L.

Load bearing capacity of hollow core floors subjected to free edge concentrated loads – experimental study

Jeziorski, M.; Derkowski, W.

ILWA3

Durability

Chairs: Peter Paulik & Frank Dehn
YM-Chair: Szabolcs Szinvai

From potential to corrosion: the role of chloride thresholds in spatial variability of reinforcement corrosion in concrete

Fache, K.; Keßler, S.; Harnisch, J.

Probabilistic modelling of spatial variability in chloride diffusion in the lattice discrete particle model

Billiet, J.; Botte, W.; Wan-Wendner, R.

Mechanical performance and durability of recycled concrete precast elements in infrastructure applications

Pichler, T.; Voit, K.; Bergmeister, K.

ILWA4

Sustainability and Circularity

Chairs: Eduardo N. B. Santos Júlio & Peter Mark
YM-Chair: Sara Reichenbach

Innovative arch-based precast ceiling-systems to enable non destructive dismantling and recycling

Dernbach, A.; Glock, C.

Automated strengthening concept for reused concrete members: stress redistribution between metallic and non-metallic reinforcement

Stöhr, B.; Hägle, M.; Hofmann, F.; Stark, A.

Economic of sustatinable design - builidng components as future capital

Valente, M.; Fadai, A.

Effect of recycled aggregates and portland composite cements on the performance of sprayed concrete

Hlavsa, Z.; Kucharczyková, B.; L. Vítek, J.

Session 3 (15:30-17:30)

ILWA1

Numerical Modelling

Chairs: Dirk Schlicke & Beatrice Belletti
YM-Chair: Alexandros Stathas

Development of constitutive models for masonry structures

Fekete, K.; Szép, J.

Experimental and numerical investigation of fracture behavior in C30/37 and C70/85 concrete

Moizuddin, S.; Sivakumar, M.

Modelling of flexural hinge property of equivalent beams for pushover analysis of a building with flat slabs

Akula, P.K.; Sengupta, A.K.

Numerical modelling of hydration heat and shrinkage in gravity dam

Potůčková, S.; Kněž, P.; Holý, M.; Kolísko, J

ILWA2

Novel Non-Metallic Reinforcement

Chairs: Konrad Bergmeister & Christian Glock
YM-Chair: Caroline Durnwalder

Textile-reinforced concrete using hemp fibres: flexural behavior and structural implications

Kaliske, M.; Kuhn, S.; Schänzlin, J.; Ricker, M.

Numerical analysis of lightweight textile-reinforced concrete structures

Cengu, S.; Vakaliuk, I.; Scheerer, S.

Experimental and numerical investigation of the bond behavior of FRP quadriaxial anchored fabrics

Ali, H.A.; del Vecchio, C.; di Ludovico, M.; Prota, A.

Investigation of pull-out and beam-end bond behavior of CFRP reinforcing bars in low-clinker concretes

Heber, P.; Sikorski, O.; Schumann, A.; Schütze, E.; Großkopff, P.; Beckmann, B.; Marx, S.

ILWA3

Structural Assessment

Chairs: Patrick Huber & Silke Scheerer
YM-Chair: Elisabeth Zeman

Preservation state assessment of steel tendons in prestressed concrete bridges via direct and indirect inspections

Giglio, M.; Ranedda, L.; Proverbio, E.; Di Vita, C.P.

Calibrating the traffic load model for assessment of existing bridges using short-term weigh-in-motion measurements

Milutinovic, G.; Hajdin, R.

Time-dependent structural safety assessment of corroded prestressed concrete bridges: a defect-to-mechanics framework

Di Criscio, F.; Pedone, L.; Pampanin, S.

Comparative study of empirical and analytical methods for the determination of masonry compressive strength

Al Jabi, M.; Marx, S

ILWA4

Sustainable Concrete

Chairs: Sylvia Kessler & Marco di Prisco
YM-Chair: Michael Eckstein

Comparison of two different activation methods for concrete fines: thermal and carbonation activation

Denu, M.; P. Höffgen, J.; A. Patel, R.; Dehn, F.

Direct shear behaviour of concrete incorporating EAF slag aggregates

Clerici, L.; Piemonti, A.; Plizzari, G.; Conforti, A.

The effect of waste building materials as cement replacement on the properties of sustainable mortars

Filipović, M.; Baloević, G.

Water absorption of crushed sand: measurement and impact on mortars performances

Boudiaf, M.; Amiri, O.; Roziere, E.; Claverie, J.; Rellier, V.; Cussigh, F.; Lafon, R.

Thursday 10 September 2026

Scientific Publishing (ILWA 1, 08:30-09:30) – See page 15

Session 1 (10:00-12:00)

ILWA1

Sustainable Concrete

Chairs: Katalin Kopecskó & Christian Glock
YM-Chair: Zdravka Mikulić

Drying shrinkage of blast-furnace slag cement systems under heat-curing: sulfate optimization and cement type effects

Habirun, A.N.; Asamoto, S.; Luan, Y.; Takahashi, K.

Influence of the strand spacing on the material strength of 3D-printed concrete

Radl, E.; Pfleger, M.; Huber, P.; Huber, T.

Mitigating shrinkage effects in thin layers of high performance fiber reinforced concrete for jacketing bridge piers

Beltracchi, I.; Reggia, A.; Sirtoli, D.; Lura, P.; Metelli, G.; Plizzari, G.A.

Experimental investigation of novel precast tunnel segments with hybrid steel–basalt fiber reinforcement

Macha, M.; Evangelatos, A.; Bergmeister, K.; Galler, R.

ILWA3

Connections and Fastenings

Chairs: Panagiotis Spyridis & Matthias Neuner
YM-Chair: Oliver Zeman

Wood meets minerals: behaviour of timber-to-concrete joints

Özdemir, A.; Mahadik, V.; Hofmann, J.

Numerical investigation of behaviour of connections between bonded laminates and concrete

Burczyk, M.; Mahadik, V.; Hofmann, J.

Validation concept for numerical simulations for the design of fastenings in reinforced concrete

Holder, J.; Lakhani, H.; Hofmann, J.

Connection failure of near surface steel mounts used for flexural strengthening

Upcin, B.D.; Mahadik, V.; Hofmann, J.

ILWA2

Material Performance

Chairs: Ildiko Merta & Frank Dehn
YM-Chair: Helga Zeitlhofer

Mechanical behaviour and coupling effect of hybrid ultra high performance fibre reinforced concrete

Ergin, T.; Colombo, M.; Rampini, M.C.; di Prisco, M.

Cracking behaviour in carbon-reinforced concrete under biaxial tensile loading

Schmidt, J.; Marx, S.; Curbach, M.

Towards a new generation of sustainable precast concrete: the use of limestone calcinded clay cement and reduced binder factors

Rapelli, S.; Coffetti, D.; Salvi, S.; Casali, L.; Coppola, L.

The response of fully cracked solid reinforced concrete subjected to three-dimensional stress states

Schulz, J.M.; Hoang, L.C.; Poulsen, P.N.; Larsen, J.

ILWA4

Structural Monitoring

Chairs: Maria Rosaria Pecce & Agnieszka Bigaj-van Vliet
YM-Chair: Maximilian Granzner

Monitoring of reinforced concrete beams with thermoplastic bars using digital image correlation and optical fibers

Mendoza, C.R.; Ortiz, G.; Oller, E.; Murcia-Delso, J.

Thermal imaging–based automated fatigue monitoring for concrete anchorages

Mellios, N.; Ahmad, M.; Rousakis, T.; Spyridis, P.

Reliability assessment of structural health monitoring using model-assisted probability of detection

Jaelani, Y.; Grashorn, J.; Marsili, F.; Keßler, S.

Integrated experimental–numerical study on prestressed concrete girders for structural health monitoring

Shamsaddinlou, A.; De Domenico, D.; Recupero, A.; Rezaie Oshtolagh, M.; Maugeri, N.; Longo, P.; La Mazza, D.; Lon

Session 2 (13:00-15:00)

ILWA1

Numerical Modelling

Chairs: Dirk Schlicke & Tomislav Kišiček
YM-Chair: Thomas Mader

Estimation of punching shear strengths of overlay slabs based on dual potential capacity model

Yoon, Y.; Kim, J.M.; Kang, J.; Jeong, H.; Kim, K.S.

Numerical modelling strategies for textile reinforced concrete

Saccomanno, C.; C. Rampini, M.; Zani, G.; Romeo, F.

Numerical investigation of post-installed screw anchors for shear retrofitting of reinforced concrete beams

Alnsour, R.; Muciaccia, G.

Numerical simulation of corrosion-induced rust expansion with crack influence

Noxpanco, G.G.; Marzec, I.

ILWA2

Material Performance

Chairs: Marco di Prisco & Eduardo N. B. Santos Júlio
YM-Chair: Bohumil Šplíchal

Correlation between the splitting crack opening width and the corrosion level in prestressed concrete beams

Merabti, C.; Belletti, B.; Sirico, A.; Palii, O.; Ravasini, S.; Montero, J.S.

Compression behavior of preloaded carbon fiber-reinforced polymer-confined concrete using digital image correlation

Kian, N.; Tung, N.D.

Key challenges in designing and evaluating lined rock caverns for hydrogen storage

Toosi, A.S.; Della Vecchia, G.; Muciaccia, G.; Ferrara, L.

Drying shrinkage and compressive strength of mortars incorporating low-kaolinitic calcined clay and limestone powder

Pornsiri, N.; Asamoto, S.; Takahashi, K

ILWA3

Structural Performance

Chairs: Jan Vítek & Walter Kaufmann
YM-Chair: Johannes Holder

Efficient implementation of the shear crack propagation theory using algorithmic differentiation

Hendricks, J.; Linden, C.; Classen, M.

Prediction and measurement of slab construction load and deflection of wall-type residential building

Lee, J.; Hwang, H.; Moon, H.; Park, H.

Experimental investigation on the structural behaviour of reinforced concrete dapped-end beams with bars subjected to mechanically simulated pitting corrosion

Carleschi, E.; Reggia, A.; A. Plizzari, G.

Fibre optic sensing in formed carbon reinforcement: separation of longitudinal strain and transverse pressure

Gündogdu, B.; Beckmann, B.; Marx, S.

ILWA4

Soil–Structure Interaction

Chairs: Klaus Voit & Alfred Strauss
YM-Chair: Michael Eckstein

Numerical modelling of swelling clay soils

Kioko, J.M.; János, S.

Workflow for consistent soil-structure interaction regarding structural and geotechnical design

Wallner, C.; Tschuchnigg, F.; Schlicke, D.

Enhanced analytical model for estimating pull-out capacity of power-actuated fasteners

Yousef, A.; Spyridis, P.

Kinematic measurements of concrete-to-concrete interfaces in full-scale continuous precast girders

Borges, E.A.; Hendriks, M.; Yang, Y.

Session 3 (15:30-17:30)

ILWA1

Novel Non-Metallic Reinforcement

Chairs: Matteo Colombo & Jürgen Feix
YM-Chair: Simon Leitner

Comparative numerical analysis of the structural performance of steel and basalt-reinforced tunnel segments

Kosta, A.; Mader, T.; Evangelatos, A.; Neuner, M.; Bergmeister, K.

Numerical analysis of cracking behaviour and tension stiffening in GFRP reinforced concrete lap splices

Sandoval, N.; Barris, C.; Baena, M.

Investigation of basalt filaments as mineral reinforcement for filigree sustainable lightweight concrete structures

Miller, O.; Blandini, L.

ILWA2

AI and knowledge based modeling

Chairs: Konrad Bergmeister & György L. Balázs
YM-Chair: Bohumil Šplíchal

Data-driven assessment of urban tunnel alignment options based on resource demands for building strengthening measures

Dengg, F.; Voit, K.

Intelligent control of sustainable clinker processes from recycled material

Mešković, A.; Mielich, O.; Ali, M.A.; Coenen, M.; Haist, M.

Experimental study on compressive failure of fibre reinforced polymer reinforced concrete beams with enhanced compression zones

Somlai, B.; Schaul, P.; Solyom, S.

ILWA3

Structural Assessment

Chairs: Rade Hajdin & Shingo Asamoto
YM-Chair: Maria Serrano-Mesa

Comparative assessment of beam-to-column connection modelling in multi-storey precast concrete frame structures

Baltrocchi, R.M.A.; Martinelli, P.

Comparative assessment of residual prestress in prestressed concrete bridges through long-term deflection

Zarrella, G.; Losanno, D.; Strauss, A.

Repair strategies for marine reinforced concrete structures: mechanisms, materials and nature-based solutions

Ashokkumar, A.N.; Bastidas-Arteaga, E.; Spyridis, P.

Post-installed basalt fibre reinforced polymer bars

Kendlbacher, M.; Bergmeister, K

ILWA4

Sustainability and Circularity

Chairs: Wit Derkowski & Jan Vítek
YM-Chair: Caroline Durnwalder

Workflow for evaluation of construction kits for element extraction for reuse from cast-in-place concrete structures

Dollendorf, M.; Schürmann, A.; Thewes, M.; Vogel, A.

A state-of-the-art review of demountable constructions

Schachner, K.; Fadai, A.

Stability loss of slender columns with recycled aggregate

Kováčová, A.; Benko, V.

Modular reuse of RC elements: determination of load-bearing capacities and structural design exemplified on a frame structure

Zielonka, H.; Sanio, D.; Mark, P.

Social Evening at “Fuhrgassl-Huber” (19:00-23:00) – See page 16

Friday 11 September 2026

Research Pitches (ILWA 1, 08:30-09:45) – See page 16

Session 1 (10:00-12:00)

ILWA1

Structural Performance

Chairs: Walter Kaufmann & Wit Derkowski
YM-Chair: Patrick Leitner

Prestressed ultra high-performance concrete-steel composite beams with continuous shear connectors in the tension zone

Harsányi, P.; Randl, N.; Viet Tue, N.

Punching shear strengthening of already shear reinforced structures by use of additionally installed concrete screws

Fröschl, L.; Walkner, R.; Feix, J

Energy-based evaluation of regular reinforced concrete shear wall building

Issa, M.; Al-Dali, A.

Comparative experimental study of test setups for bond testing of textile reinforcements in concrete

Wachter, J.; Konzilia, J.; Feix, J.; Preinstorfer, P

ILWA2

Material Performance

Chairs: Konrad Bergmeister & Giovanni Plizzari
YM-Chair: Elisabeth Zeman

A model for restrained shrinkage in rebar-reinforced ultra-high performance fibre-reinforced concrete

Yüksel, S.; Leutbecher, T.

Evolution of stress transfer in the compression zone of reinforced concrete beams under shear-fatigue loading

Linden, C.; Hendricks, J.; Claßen, M.

Finite element analysis of cementitious layer strengthened reinforced concrete beams using different configurations

Nemessányi, C.; Pluzsik, A.

Shrinkage prediction using small concrete specimens

Dohnalová, L.; Havlásek, P.; Šmilauer, V.

ILWA3

Connections and Fastenings

Chairs: Jürgen Feix & Jan Hofmann
YM-Chair: Florian Brosch

Development of a ductile tension anchor in mid-rise timber-hybrid-buildings in context of a circular economy

Gerger, A.; Fadai, A.

Effect of interface morphology on the behaviour of hsc dry joints subjected to concentric loading

Hung, N.D.; Tung, N.D.

Concrete edge failure of bonded anchors under shear in recycled aggregate concrete

Mikulić, Z.; Bergmeister, K.

ILWA4

Reliability Concepts

Chairs: Drahomír Novák & Rade Hajdin
YM-Chair: Mathias Hammerl

Reliability quantification of degrading concrete discontinuity regions via strut-and-tie modelling

Luyten, K.; Botte, W.; Caspeele, R.

Comparison between deterministic and probabilistic ground motion estimation methods for performance-based seismic design

Moon, H.; Kim, J.-H.; Park, H.-G.

Reliability of GFRP embedded reinforcement at extreme temperatures

Ježek, J.; Girgle, F.; Vašátko, D.; Čairović, Đ.; Zlámal, M.; Štěpánek, P.

Reliability assessment of conventional versus eco-concrete under overstrength condition

Faghfouri, S.; Strauss, A.

Session 2 (13:00-15:00)

ILWA1

Material Performance

Chairs: Patrick Huber & Ildiko Merta
YM-Chair: Peter Gappmaier

Assessment of corrosion effects on the residual capacity of post-tensioned concrete road bridges

Mezera, A.; Holý, M.; Kněž, P.

Shrinkage and mechanical performance of cement pastes incorporating cellulose nanocrystals

Al-Askary, A.S.J.; Kopecskó, K.

Techniques for measuring CO_2 sequestration in concrete: a review of key methods

Rafique, M.A.; Sidhu, A.S.; Faleschini, F.; Pellegrino, C.

Effects of retrofitting interventions on risk and safety in existing bridges: a case study

Mariolopoulou, E.; Carlo Rampini, M.; di Prisco, M.

ILWA2

Structural Performance

Chairs: Giovanni Plizzari & Shingo Asamoto
YM-Chair: Sara Reichenbach

Experimental investigation of the shear capacity of reinforced concrete beams with bent-up bars

Jespersen, E.; Jørgensen, H.B.; Autrup, F.

Effect of reinforcement configuration on shear capacity of aged reinforced autoclaved aerated concrete roof panels

Amiri, S.S.; Goodier, C.I.; Blay, K.; Gorse, C.; Waters, K.

Effect of bond of post-tensioned reinforcement on cracking and deflection development of post-tensioned concrete beams

Vízner, T.; Vítek, J.L.

Punching shear in unbonded post-tensioned steel fibre reinforced concrete slabs: the role of fibre distribution

Gaddi, C.; Colombo, M.; di Prisco, M.

ILWA3

Reliability Concepts

Chairs: Alfred Strauss & Silke Scherer
YM-Chair: Florian Brosch

Probabilistic shear strength modelling based on nonlinear fracture mechanics

Večeře, J.; Novák, D.; Lehký, D.; Szczech, D.

Quantification of spatial variability of concrete parameters for the reliability assessment of reused concrete elements

Al-Shboul, O.; Ahmed, R.; Schoen, S.; Schiano, L.; Ringeloth, D.; Fina, M.; Bijeljic, J.; E. Neu, G.; Niederleithinger, E.; Freitag, S.; Curoșu, I.

Safety formats for nonlinear finite element analysis of holistic 3D models

Ober, J.; Schlicke, D.

Numerical modelling and experimental validation of fibre orientation in ultra-high performance concrete flow

Poitevin, L.; Bauer, L.; Massicotte, B.

ILWA4

Numerical Modelling

Chairs: Beatrice Belletti & Antonio Godoy
YM-Chair: Alexandros Stathas

Numerical analysis of pull-out test using a realistic ribbed rebar geometry model

Burdziński, M.; Niedostatkiewicz, M.

Anisotropic nonlinear analysis of timber-concrete composite structures

Gamage, T.; Abbas, A.

Conceptual study on the material-saving potential of prestressed concrete industrial floors

Griniov, E.; Yolcu Sever, R.; Schlicke, D.

Large-scale tests on reinforced concrete shell elements and comparison to multilayer model analyses

Kummer, Y.; Thoma, K.; Kaufmann, W.

fib YMG Get-Together (ILWA, 15:00-16:00) – See page 16

Awards, Recognition and Closing Ceremony (ILWA 1, 16:00-17:00) – See page 16

Activities

Nonlinear Finite Element Analysis of Reinforced Concrete Structures

Scan the QR code for the full seminar description and detailed programme.

Tuesday, 8 September 2026 | 14:00–17:00

Explore the theory and practical application of nonlinear finite element analysis for reinforced concrete structures.

The seminar combines a concise introduction to nonlinear modelling with a live ATENA case study of a reinforced concrete shear wall. Participants will follow the model setup and simulation, observe crack propagation and damage evolution, and discuss the interpretation of the results as well as their application in engineering practice.

Researcher Pitches – Concrete Visions

Scan the QR code below for the full description, presentation titles, and speakers.

Friday, 11 September 2026 | 08:30–09:00

As part of the 16th fib PhD Symposium 2026, researchers will present their ideas and perspectives in a series of short pitches under the title “Concrete Visions.”

Join us for an inspiring start to the day and discover fresh thoughts on the future of concrete and structural engineering.

Mentoring Programme – *fib* PhD Symposium 2026

Scan the QR code below to see the mentors, their research topics, and the assigned mentoring sessions.

Wednesday, 9 September & Thursday, 10 September 2026 | 15:00–15:30
Schwackhöferhaus, BOKU Vienna

Take the opportunity to meet experienced experts during our Mentor Coffee Breaks. Discuss your research, exchange ideas, and receive valuable feedback on your PhD project in an informal setting.

Scan the QR code to learn more about the Young Members Group and the get-together.

fib Austria Young Members Group Get-Together

Friday, 11 September 2026 | 15:00–16:00
ILWA, BOKU Vienna

Meet the fib Austria Young Members Group and connect with fellow PhD students, young researchers, and professionals in an informal setting..

Social Programme

Icebreaker Event

Get to know each other and BOKU University at the Icebreaker-Event on Tuesday.

Scan to view our location on Google Maps.

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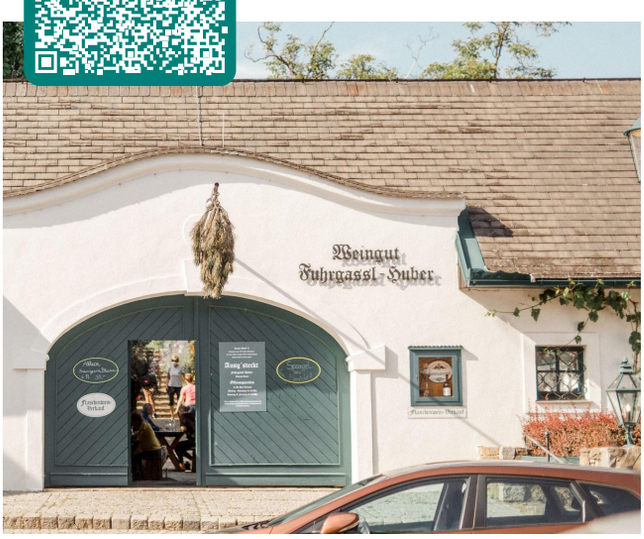

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Get-together at a viennese “Heuriger“

Enjoy typical Viennese cuisine on Thursday at the ‘Heuriger’ Fuhrgassl-Huber. This traditional Viennese tavern serves its own wine and classic Viennese dishes such as Wiener Schnitzel. Take bus line 35A towards Salmansdorf and get off at the ‘Neustift/Agnesgasse’ stop.

Transportation

Public Transport

Vienna's public transport is run by Wiener Linien (U-Bahn, trams, buses) and ÖBB for S-Bahn and regional trains, all integrated in the VOR network. Tickets include single rides, 24/48/72-hour and weekly/monthly options; stamp paper tickets before travel, while mobile tickets don't need validation.

To reach BOKU, the most direct route from the city center is bus 40A from Schottentor to Dänenstraße. From the ring tram hub, you can also take tram 41 to Türkenschanzplatz and walk about 5–7 minutes through the park. If you're coming via the suburban line S45, get off at Wien Gersthof and continue two short stops on 10A to Dänenstraße. From the U6 (Währinger Straße–Volksoper), transfer to 40A toward Döbling and ride to the same stops. From Westbahnhof, take U6 to Währinger Straße–Volksoper and switch to 40A; from Hauptbahnhof, tram D to Schottentor and then 40A is easy. Typical total travel times from the center are 20–30 minutes, with buses and trams running every few minutes on weekdays.

Tickets:
Use the WienMobil app to buy tickets online, or use the ticket machines in trams and subway stations. The following subway stations also offer a ‚Tap + Ride' option: Hauptbahnhof, Westbahnhof, Bahnhof Meidling, Stephansplatz, Schwedenplatz, Spittelau, Zieglergasse, Neubaugasse, and Erdberg.

Vienna international Airport (VIE)

The main airport of Vienna, the capital of Austria, is situated in Schwechat, approximately 18 km (11 mi) southeast of central Vienna and 57 km (35 mi) west of Bratislava, the capital of Slovakia.

Due to construction works on the S-Bahn during summer you can only drive to Wien Hauptbahnhof (Hbf).

ÖBB Railjet/IC trains from Hauptbahnhof reach the airport in about 15 minutes, and Vienna Airport Lines buses run from hubs like Schwedenplatz and Westbahnhof in 20–45 minutes. Buy tickets via Wiener Linien/ÖBB apps or station machines; CAT requires its own ticket.

ILWA

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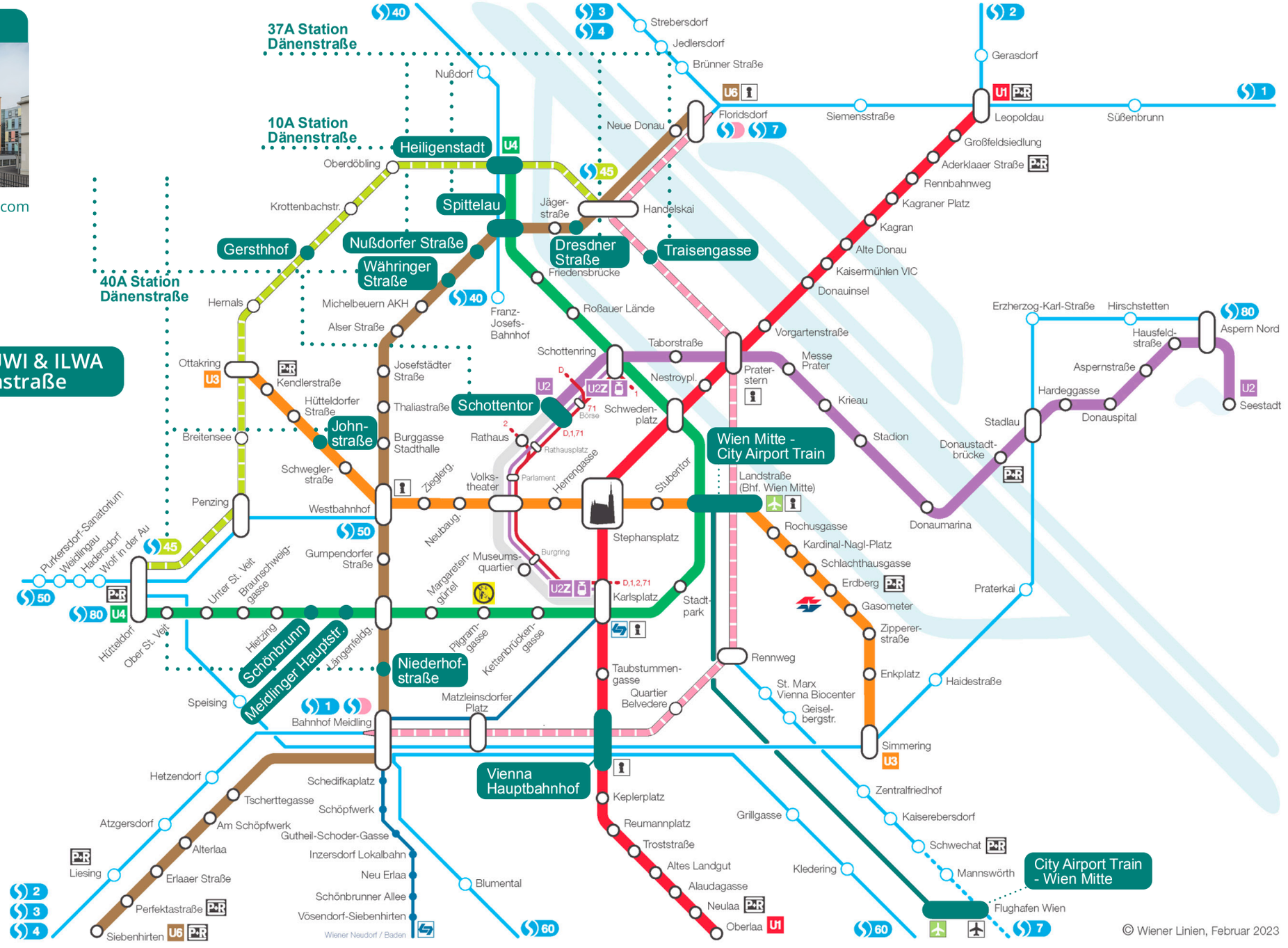
Bus lines to TÜWI & ILWA
Station: Dänenstraße

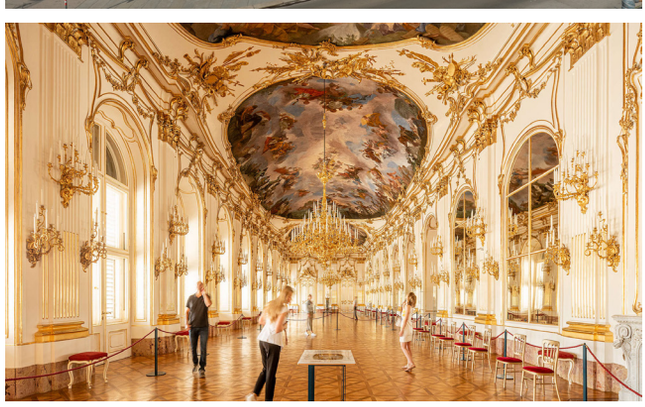
- 40A
- 10A
- 37A



About Vienna

Vienna's history stretches back to Roman times, when a military camp called Vindobona guarded the Danube frontier. In the Middle Ages, the Babenbergs made it a ducal seat; the Habsburgs then transformed it into the heart of a vast Central European monarchy. As the capital of the Austro-Hungarian Empire, Vienna flourished—its Baroque palaces, coffeehouse culture, and musical life (Mozart, Beethoven, Haydn, and later Strauss) defined its golden age. The 19th century saw the Ringstrasse reshape the city with grand museums and civic buildings.

After World War I and the empire's collapse in 1918, "Red Vienna" pioneered social housing and urban reforms. Annexed by Nazi Germany in 1938, the city endured heavy damage in World War II and Allied occupation. The 1955 State Treaty restored Austria's sovereignty and neutrality, and Vienna evolved into a diplomatic hub during the Cold War. Today, as Austria's capital and an EU member since 1995, Vienna blends imperial heritage with vibrant contemporary culture and high quality of life. Beneath you'll see some places worth visiting.



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Notes