



The Fourth European and Mediterranean Structural Engineering and Construction
 Conference EURO MED SEC 4
 State-of-the-art Materials and Techniques in Structural Engineering and
 Construction



EURO MED SEC 4 Detailed Technical Program

World times corresponding to EURO MED SEC 4 events are given on Pages 13-15.

Monday – June 20, 2022		
17:00 - 19:00	Icebreaker & Welcome Reception	Geutebrück-Building, Main Stair Case, 3 rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig
Tuesday – June 21, 2022		
Registration		
08:30 - 17:00	Registration (<i>on-site</i>)	Geutebrück-Building, Main Stair Case, 3 rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig
Conference Opening		
09:00 - 09:45	Welcome message from HTWK Leipzig and Introductions (20 min) <i>Klaus Holschemacher, Conference Chair</i>	Geutebrück-Building, 3 rd floor, Room G329, Karl-Liebknecht-Straße 132, 04107 Leipzig V-Room A Zoom link https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWV0cUJVSQT09 PMI: 336 508 2496 Passcode: 395011
	Welcome from ISEC Society (10 min) <i>Amarjit Singh, ISEC Society President</i>	
	Presentation Video City of Leipzig (5 min)	
	Announcements (10 min) <i>Klaus Holschemacher, Conference Chair</i>	
09:45 - 10:15	Keynote Speaker I: Prof. Dr. Giovanni Plizzari , Professor of Structural Engineering, University of Brescia, Italy <i>Title: Fiber reinforced concrete for new and existing structures</i>	
Coffee Break 10:15 – 11:00		
Geutebrück-Building, Main Stair Case, 3 rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig		



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Tuesday, June 21, 2022, 11:00 – 12:30

Technical Session I

	Track A	Track B	Track C
	<p>I-A: Steel Structures</p> <p>Room: G329 (Geutebrück-Building)</p> <p>Moderator: SALAH EL-DIN E. EL-METWALLY Co-Moderator: AYSHA HAROON</p> <p>IT Staff: ABDULLAH QUADRI V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4VWlhPbFZoS2RTdElQMWV0cUJVSQT09 PMI: 336 508 2496, Passcode: 395011</p>	<p>I-B: Analysis I</p> <p>Room G 327 (Geutebrück-Building)</p> <p>Moderator: VOLKER SLOWIK Co-Moderator: MOUNIR EL ASMAR</p> <p>IT Staff: JUSTIN HONDA V-Room B Zoom link: https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1QvcG1FcEsvOEQ3ay9LViswUT09 PMI: 366 682 2714, Passcode: 142731</p>	<p>I-C: Reinforced Concrete Structures I</p> <p>Room G 332 (Geutebrück-Building)</p> <p>Moderator: DEJAN DINEVSKI Co-Moderator: AMARJIT SINGH</p> <p>IT Staff: EMIR GÜNIM V-Room C Zoom link: https://us02web.zoom.us/j/3055945850?pwd=anNKajdud0U0WHZMamtaMW8waExjQT09 PMI: 305 594 5850, Passcode: 7eTTnh</p>
1	TCC-01: FLEXURAL BEHAVIOUR OF A BRACED HYBRID STEEL-TIMBER BEAM AMAR KHENNANE, WASIM REZA, MOURAD KHELIFA	STR-44: EVALUATION OF SEISMIC PERFORMANCE ENHANCEMENT TECHNIQUES FOR SHEAR WALL BUILDINGS USING ADVANCED MATERIALS AND SYSTEMS ROSHEN JOSEPH, AMAN MWAFY, SHAHRIA ALAM	MAT-14: FRP COMPOSITE STRENGTHENING OF CONCRETE COLUMNS WITH VARIOUS SHAPES AND LOADING CONDITIONS NASER KABASHI, ENES KRASNIQI, MILOT MUHAXHERI
2	STR-08: NODES OF HOLLOW CORE PROFILE TRUSS BRIDGES WITH INCOMPLETE WELDS PHILIPPE VAN BOGAERT	STR-60: BLAST LOADING EFFECT ON CHEVRON TYPE BUCKLING RESTRAINED BRACED FRAMES OSHMANN CHARCO, FRANK CHAVARIN, RAIS AHMAD <i>-online-</i>	STR-16: THE USE OF ULTRA-HIGH STRENGTH CONCRETE (UHSC) WITH LONGITUDINAL GFRP REINFORCEMENT UNDER FLEXURE ZIN MAHAINI, FARID ABED
3	STR-09: END CONNECTIONS OF TUBULAR MEMBERS BY CIRCULAR PLATE AND CENTRAL FLANGE PHILIPPE VAN BOGAERT	STR-43: APPLICATION OF BUCKLING RESTRAINED DAMPER TO TRUSS BRIDGE FOR BETTER SEISMIC PERFORMANCE NAMKHAINYAMBUU ENKHBOLD, PUREVDORJ SOSORBURAM, EIKI YAMAGUCHI <i>-online-</i>	STR-29: COMPREHENSIVE DESIGN-ORIENTED MODEL FOR FRP-CONFINED CIRCULAR RC COLUMNS STEFAN KAESEBERG, KLAUS HOLSCHMACHER



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Tuesday, June 21, 2022			
Technical Session I			
	Track A	Track B	Track C
4	STR-25: STUDY ON TENSILE FORCE TRANSMISSION PERFORMANCE OF DECK PLATE DAICHI KATO, KEITA SUZUKI, SEISHI WATANABE, OSAMU TAKAHASHI <i>-online-</i>	GFE-02: SLOPE STABILITY ANALYSIS UNDER SEISMIC LOADS (COMPARATIVE BETWEEN NUMERICAL AND TRADITIONAL PSEUDO-STATIC METHODS) MOHAMAD NAZIEH JLILATI, HIBA MASRI <i>-online-</i>	STR-48: FINITE ELEMENT ANALYSIS OF FRCM RETROFITTED PRE-DAMAGED SLENDER CIRCULAR RC COLUMNS MUHAMMAD SALMAN KYAURE, FARID ABED
5	STR-34: RESPONSE OF STEEL FRAME ASSEMBLY UNDER LOCALIZED FIRE EFFECT SABARNA PALIT, SRIMAN KUMAR BHATTACHARYYA <i>-online-</i>	STR-14: JUDGMENT TENDENCY AND FUZZY INFERENCE MODEL RELATED TO REDUNDANCY OF FRAMED STRUCTURES AGAINST DISSAPEARANCE OF MEMBER YU MORIYAMA, TSUBASA SAITO, TAKUMI ITO <i>-online-</i>	MAT-26: REINFORCEMENT BONDING PERFORMANCE IN REFRACTORY CASTABLES UNDER ELEVATED TEMPERATURES LINAS PLIOPLYS, ANDRIUS KUDŽMA, ALEKSANDR SOKOLOV, VALENTIN ANTONOVIČ, VIKTOR GRIBNIAK
6	STR-62: AUTOMATED PREPARATION GRADE JUDGEMENT SUPPORT SYSTEM FOR WEATHERING STEEL BRIDGES BY DEEP LEARNING TATSUYA GOBARA, MAKOTO OHYA, NOZOMU HIROSE, MASAMICHI TAKEBE <i>-online-</i>	STR-61: COMPARATIVE STUDY OF MODIFIED CONSTRUCTION STAGE ANALYSIS AND CONSTRUCTION STAGE ANALYSIS FOR RC BUILDINGS NEHAL DESAI, SANDIP VASANWALA <i>-online-</i>	STR-28: RESEARCH ON THE SEMI-RIGID COLUMN BASE OF REINFORCED CONCRETE TAKUMI MISAKI, MINORU ODA, OSAMU TAKAHASHI <i>-online-</i>
Lunch Break 12:30 – 13:30 Geutebrück-Building, Main Stair Case, 3rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig			



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Tuesday, June 21, 2022, 13:30 – 15:00

Technical Session II

	Track A	Track B	Track C
	<p>II-A: Project Management and Construction I</p> <p>Room: G329 (Geutebrück-Building)</p> <p>Moderator: PAOLA PROVENZANO Co-Moderator: PHILIPPE VAN BOGAERT</p> <p>IT Staff: ABDULLAH QUADRI V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWV0cUJSQT09 PMI: 336 508 2496, Passcode: 395011</p>	<p>II-B: Cementitious Materials</p> <p>Room G 327 (Geutebrück-Building)</p> <p>Moderator: FARID ABED Co-Moderator: FRANK YAZDANI</p> <p>IT Staff: JUSTIN HONDA V-Room B Zoom link: https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1QvcG1FcEsvOEQ3ay9LViswUT09 PMI: 366 682 2714, Passcode: 142731</p>	<p>II-C: Reinforced Concrete Structures II</p> <p>Room G 332 (Geutebrück-Building)</p> <p>Moderator: YURI RIBAKOV Co-Moderator: DAVID HOLSCHEMACHER</p> <p>IT Staff: EMIR GÜNIM V-Room C Zoom link: https://us02web.zoom.us/j/3055945850?pwd=anNKajdud0U0WHZMamtaMW8waExjQT09 PMI: 305 594 5850, Passcode: 7eTTnh</p>
1	<p>ENR-01: A REVIEW OF PUBLIC-PRIVATE PARTNERSHIPS FOR RENEWABLE ENERGY PROJECTS IN DEVELOPING COUNTRIES KAREEM OTHMAN, RANA KHALLAF</p>	<p>MAT-33: XRD INVESTIGATIONS ON COMPRESSIVE STRENGTH GAIN OF UHPC SUBJECTED TO VARIOUS CURING TECHNIQUES AYSHA HAROON, T. HEMALATHA</p>	<p>STR-54: TECHNIQUE TO DETERMINE DEPTH OF SUB-SURFACE DEFECTS IN CONCRETE STRUCTURES USING INFRARED THERMOGRAPHY – A SIMULATION STUDY USING FEM MADHURAJ KIRAN NAIK, GANESH HEGDE, LALAT GIRI</p>
2	<p>CON-05: IMPLEMENTATION OF PROJECT BUNDLING DANIEL D'ANGELO, EDWARD MINCHIN</p>	<p>MAT-27: CURING TEMPERATURES EFFECT ON EXPLOSIVE SPALLING IN ALUMINA-CEMENT BASED CONCRETES ANDRIUS KUDŽMA, LINAS PLIOPLYS, VALENTIN ANTONOVIČ, RIMVYDAS STONYS, VIKTOR GRIBNIAK</p>	<p>STR-13: EFFECTIVE LATTICE PUNCHING SHEAR REINFORCEMENT WITH DIFFERENT ARRANGEMENT JOHANNES FURCHE, ULRICH BAUERMEISTER</p>
3	<p>PRO-03: MULTI-CRITERIA DECISION-MAKING METHODS FOR CONTRACTOR SELECTION: A REVIEW HANDAN KUNKCU, KERIM KOC, ASLI PELIN GÜRGÜN <i>-online-</i></p>	<p>MAT-31: STATIC YIELD STRESS MEASUREMENTS OF FINE AGGREGATES LUDWIG HERTWIG, KLAUS HOLSCHEMACHER, VIKTOR MECHTCHERINE</p>	<p>STR-17: STRENGTH PREDICTION OF CONCRETE BOTTLE-SHAPED STRUTS SALAH EL-DIN E. EL-METWALLY, ABDELRAZEK E. EBRAHIM</p>



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Tuesday, June 21, 2022			
Technical Session II			
	Track A	Track B	Track C
4	CPM-04: COMPARATIVE COST ANALYSIS OF DIFFERENT THERMAL POWER PLANT PROJECTS MUHAMMAD SAIFUL ISLAM, LAITH A HADIDI <i>-online-</i>	AAE-11: REFRACTORY PROPERTIES OF CONCRETE USING SINGLE MICRON FLY ASH AND GROUND GRANULATED BLAST FURNACE SLAG FINE POWDER CHISATO KUROKI <i>-online-</i>	STR-53: EXPERIMENTAL STUDY OF RC BEAMS WITH WEB OPENINGS SUBJECTED TO PURE TORSION HAMED ASKAR
5	CSA-04: RISK ANALYSIS OF FALLING FROM HEIGHTS IN THE GROWING CONSTRUCTION INDUSTRY JEMA RICA LOPEZ, SORN VIMONSATIT, JOSHUA TUMBAGA <i>-online-</i>	MAT-25: EXPERIMENTAL INVESTIGATION OF MARBLE DUST CONCRETE IN ARTIFICIAL SEA WATER NIKHIL SANTOSHKUMAR AGRAWAL, ANSHUMAN SRIVASTAVA, MANPREET SINGH, RAJENDRA KHAPRE <i>-online-</i>	STR-70: GFRP REINFORCED INVERTED T BEAMS: AN EXPERIMENTAL STUDY AMINA YAKOUT, BILAL EL-ARISS, TAMER EL MAADDAWY <i>-online-</i>
6	CSA-05: IMPROVEMENT OF DFS PERCEPTION OF CONSTRUCTION STAKEHOLDERS THROUGH COMPARISON BETWEEN DIFFERENT COUNTRIES SEUNG-HYEON SHIN, JEONG-HUN WON, HYEON-JI JEONG, NAM-GWON JANG, MINJUN KIM, MIN-GUK KANG <i>-online-</i>	MAT-39: TREATED MEDICAL WASTES CONCRETE AHMAD SALAH EDEEN NASSEF, ASILA AL NAQBI, BALAQIS AL SHEIBANI, BUTHAINA AL BADI, LAMYAA AL MAQBALI <i>-online-</i>	STR-36: DYNAMIC BEHAVIOR OF A RC COLUMN UNDER AXIAL-LATERAL IMPACT SERGEY YU. SAVIN, NATALIA V. FEDOROVA <i>-online-</i>
Coffee Break 15:00 – 15:45 Geutebrück-Building, Main Stair Case, 3rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig			



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Tuesday, June 21, 2022, 15:45 – 17:15

Technical Session III

	Track A	Track B	Track C
	<p>III-A: Textile Reinforced and Fiber Reinforced Concrete</p> <p>Room: G329 (Geutebrück-Building)</p> <p>Moderator: FRANK YAZDANI Co-Moderator: YURI RIBAKOV</p> <p>IT Staff: ABDULLAH QUADRI V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WihPbFZpS2RTdElQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011</p>	<p>III-B: Analysis II</p> <p>Room G 327 (Geutebrück-Building)</p> <p>Moderator: EDWARD MINCHIN Co-Moderator: NASER KABASHI</p> <p>IT Staff: JUSTIN HONDA V-Room B Zoom link: https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1QvcG1FcEsvOEQ3ay9LViswUT09 PMI: 366 682 2714, Passcode: 142731</p>	<p>III-C: High-Performance Concrete and Sustainability</p> <p>Room G 332 (Geutebrück-Building)</p> <p>Moderator: FARID ABED Co-Moderator: ASLI PELIN GÜRGÜN</p> <p>IT Staff: EMIR GÜNİM V-Room C Zoom link: https://us02web.zoom.us/j/3055945850?pwd=anNKajdu0U0WHZMamtaMW8waExjQT09 PMI: 305 594 5850, Passcode: 7eTTnh</p>
1	<p>CAC-01: COLUMN CONFINEMENT WITH TEXTILE-REINFORCED CONCRETE (TRC) WLADISLAW POLIENKO, KLAUS HOLSCHEMACHER, HENNING VON DAAKE</p>	<p>AAC-04: PREDICTION OF ABSORPTION RATE IN HOUSING PROJECT BY ARTIFICIAL NEURAL NETWORK PATCHARIDA PULTAWEE, KONGKOON TOCHAIWAT</p>	<p>SUS-16: EXPERIMENTAL STUDY ON STRENGTH CHARACTERISTICS OF ULTRA HIGH STRENGTH CONCRETE M-150 KALASKAR KUMAR NARESH, VANKUDOTHU BHIKSHMA, SUDARSHAN KODAM</p>
2	<p>MAT-11: EFFECT OF CURVATURE ON THE TENSILE STRENGTH OF FRCM DENNIS MESSERER, KLAUS HOLSCHEMACHER</p>	<p>EPE-01: KEY TOPICS IN TOPOLOGY OPTIMIZATION TRAINING FOR ENGINEERS BOŠTJAN HARL, MARKO KEGL, DEJAN DINEVSKI</p>	<p>SUS-17: EXPERIMENTAL STUDY ON FLEXURAL BEHAVIOUR OF ULTRA HIGH STRENGTH CONCRETE USING L-BOX VANKUDOTHU BHIKSHMA</p>
3	<p>CAC-04: BUILDING CLIMATIC PROPERTIES OF LIGHTWEIGHT FACADES ALEXANDER KAHNT, OTTO GRAUER, MATTHIAS TIETZE, KLAUS HOLSCHEMACHER</p>	<p>STR-15: STRUCTURE ROBUSTNESS AGAINST PROGRESSIVE COLLAPSE DUE TO UNFORESEEABLE EVENTS SALAH EL-DIN E. EL-METWALLY, MOHAMED E. EL-ZOUGHIBY, WALEED E. EL-DEMERDASH</p>	<p>SUS-13: COMPARATIVE CARBON-FOOTPRINT ANALYSIS OF RESIDENTIAL BUILDINGS WITH DIFFERENT STRUCTURAL MATERIALS ADEL YOUNIS, AMBROSE DODOO -online-</p>



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Technical Session III

	Track A	Track B	Track C
4	<p>CAC-06: THE AUTOMATED MANUFACTURING PROCESS OF BUILDING ENVELOPES USING THE EXAMPLE OF CARBON-REINFORCED CONCRETE OTTO GRAUER, ALEXANDER KAHNT, MATTHIAS TIETZE, KLAUS HOLSCHEMACHER</p>	<p>STR-59: THREE-DIMENSIONAL COMPATIBILITY STRUT-AND-TIE METHOD FOR THREE-PILE CAPS SUBJECTED TO CONCENTRIC AXIAL LOADS NITHYASREE P V, MADHU M KARTHIK</p>	<p>AAW-03: ANALYSIS OF FLOWRATE, SULFATE, AND TOTAL SULFUR PATTERN IN WASTEWATER INLET TANKS FOR H2S MANAGEMENT MOHSINA MUHAMMED SHERIEF, ASHRAF ALY HASSAN, MOHAMED HAMOUDA, MUNJED MARAQA</p>
5	<p>MAT-09: CREEP BEHAVIOR OF STEEL FIBER REINFORCED LIGHTWEIGHT CONCRETE BEAMS UNDER FLEXURAL LOADING FLORIAN JUNKER, KLAUS HOLSCHEMACHER</p>	<p>STR-55: NEW DIRECTIONS IN PREDICTING AND MODELING TRUCK LOAD POPULATIONS INCLUDING OVERLOADS BORA JANG, JAMSHID MOHAMMADI <i>-online-</i></p>	<p>AAW-02: DEVELOPMENT OF URINE TREATMENT TECHNOLOGY FOR ITS REUSE APPLICATION MANISHA SUKHRAJ KOTHARI, RAHUL MANNA, AMI MISTRY, SHIVANGI PATEL, MIHIR VYAS, ASHRAF ALY HASSAN</p>
6	<p>MAT-32: WORKABILITY AND FLEXURAL STRENGTH OF CONCRETE REINFORCED WITH BASALT MACRO-FIBERS SHAHRUKH SHOAB, TAMER EL-MAADAWY, HILAL EL-HASSAN, BILAL EL-ARISS, MARWA ALSALAMI <i>-online-</i></p>	<p>STR-71: INFLUENCE OF TIMESPANS ON CONSTRUCTION SEQUENCE ANALYSIS OF RC BUILDINGS NEHAL DESAI, SANDIP VASANWALA <i>-online-</i></p>	<p>SUS-18: STRENGTHENING OF CONTRACTUAL PROVISIONS FOR CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT PRAVIN KUMAR SONKAR, SUDHIR MISRA <i>-online-</i></p>





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Wednesday – June 22, 2022		
08:30 - 14:00	Registration (<i>on-site</i>)	Geutebrück-Building, Main Stair Case, 3 rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig
9:00 – 09:30	Keynote Speaker II: Univ.-Prof. Dr.-Ing. habil. Michael Kaliske , Head of Institute for Structural Analysis, Technical University of Dresden, Germany <i>Title: Innovations Driven by Computational Engineering</i>	Geutebrück-Building, 3 rd floor, Room G329, Karl-Liebknecht-Straße 132, 04107 Leipzig V-Room A Zoom link https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWVocUVSQT09 PMI: 336 508 2496 Passcode: 395011

Wednesday – June 22, 2022, 09:30 – 11:00			
Technical Session IV			
	Track A	Track B	Track C
	IV-A: Alkali Activated Cement Room: G329 (Geutebrück-Building) Moderator: AMAR KHENNANE Co-Moderator: STEFAN KAESEBERG IT Staff: ABDULLAH QUADRI V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWVocUVSQT09 PMI: 336 508 2496, Passcode: 395011	IV-B: Legal Topics Room G 327 (Geutebrück-Building) Moderator: AMARJIT SINGH Co-Moderator: EDWARD MINCHIN IT Staff: JUSTIN HONDA V-Room B Zoom link: https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1QvcG1FcEsvOEQ3ay9LViswUT09 PMI: 366 682 2714, Passcode: 142731	IV-C: Building Construction I Room G 332 (Geutebrück-Building) Moderator: MICHAEL KALISKE Co-Moderator: SYED FAIZ AHMAD IT Staff: EMIR GÜNIM V-Room C Zoom link: https://us02web.zoom.us/j/3055945850?pwd=anNKajdu0U0WHZMamtaMW8waExjQT09 PMI: 305 594 5850, Passcode: 7eTTnh
1	AAC-01: MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SLAG ACTIVATED WITH SODIUM SILICATE RICHARD CARON, FRANK DEHN	LIC-01: DECISION SUPPORTING FLOW CHART FOR DISPUTE RESOLUTION ULRIKE QUAPP, KLAUS HOLSCHMACHER	AAE-08: THE APPLICATION OF AN ADAPTIVE SOFT STRUCTURE FOR LIGHTWEIGHT FACADES TOUCHAPHONG SRISUWAN



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Wednesday – June 22, 2022			
2	AAC-05: SHRINKAGE OF ALKALI-ACTIVATED BLENDED BINDER MIXTURES BIRUK HAILU TEKLE, LUDWIG HERTWIG, KLAUS HOLSCHMACHER	LIC-02: DISPUTE RESOLUTION MANAGEMENT: FINDING THE MORE EFFECTIVE CONCILIATION FROM THE PRE-CONTRACT PHASE TO THE RESOLUTION PHASE PAOLA PROVENZANO, GIUSEPPE IDDAS	AAW-04: GREEN WALLS CAN IMPROVE INDOOR AIR QUALITY IN THE CLASSROOM WANNAWIT TAEMTHONG, NAVAPA CHEYCHAROEN
3	AAC-09: MECHANICAL PROPERTIES OF STEEL FIBER-REINFORCED ALKALI-ACTIVATED CONCRETE INCORPORATING RECYCLED AGGREGATES HILAL EL-HASSAN, TAMER EL-MAADDAWY, ABDALLA HUSSEIN, JAMAL MEDLJY <i>-online-</i>	LDR-05: PAYMENT PROCEDURES UNDER FIDIC CONSTRUCTION CONTRACT KHALED HESHAM HYARI	AAE-22: PRESERVATION OF RAMMED EARTH STRUCTURES THROUGH TRADITIONAL METHODS: CASE STUDY TERESA MARÍA PELLICER, VICENTE LOPEZ-MATEU
4	AAC-10: THE EFFECT OF RE-CALCINATION FLY ASH ON GEOPOLYMER PERFORMANCE M SHAHIB AL BARI, JANUARTI JAYA EKAPUTRI, RASGIANTI RASGIANTI, BERNARDED OKA ANGGARANI, PRASETYO ADI WIBOWO <i>-online-</i>	LDR-02: THE VOLUNTARINESS OF DISPUTANTS IN CONSTRUCTION MEDIATION NAN CAO, SAI ON CHEUNG <i>-online-</i>	AAE-18: INVESTIGATING THE IMPACT OF BIO-INSPIRED FACADE DESIGN ON INDOOR ENVIRONMENT SHASHWAT SHASHWAT, KISHOR ZINGRE, NIRAJ THURAIRAJA <i>-online-</i>
5		CPM-10: ORGANIZATIONAL COMMITMENT OF CONSTRUCTION PROFESSIONALS IN THE CONSTRUCTION INDUSTRY KERIM KOC, HANDAN KUNKCU, ASLI PELIN GÜRGÜN <i>-online-</i>	STR-23: THE DEVELOPMENT OF NEW CONSTRUCTION METHODS ABOUT SHAKE PREVENTION DUCT STRUCTURES SHOYA CHIBA, OSAMU TAKAHASHI, DAICHI KATO, KAZUTO SAKATSUME <i>-online-</i>
6		AAE-01: THE INTENTION TO SETTLE DRIVERS OF CONSTRUCTION DISPUTE NEGOTIATION SEN LIN, SAI ON CHEUNG <i>-online-</i>	PND-01: ASSESSING CRITICAL FACTORS AFFECTING THE DEVELOPMENT OF A NATIONAL MAINTENANCE POLICY BABATUNDE FATAI OGUNBAYO, CLINTON OHIS AIGBAVBOA, DIDIBHUKU WELLINGTON THWALA, OLUSEGUN AANUOLUWAPO OGUNTONA <i>-online-</i>
<p>Coffee Break 11:00 – 11:30</p> <p>Geutebrück-Building, Main Stair Case, 3rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig</p>			



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Wednesday – June 22, 2022, 11:30 – 13:00

Technical Session V

	Track A	Track B	Track C
	<p>V-A: Sustainability and Maintenance Room: G329 (Geutebrück-Building) Moderator: VIKTOR GRIBNIAK Co-Moderator: WANNAWIT TAEMTHONG IT Staff: ABDULLAH QUADRI V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhpPbFZoS2RTdElQMWV0cUJSQT09 PMI: 336 508 2496, Passcode: 395011</p>	<p>V-B: Project Management and Construction II Room G 327 (Geutebrück-Building) Moderator: PHILIPPE VAN BOGAERT Co-Moderator: DEJAN DINEVSKI IT Staff: JUSTIN HONDA V-Room B Zoom link: https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1QvcG1FcEsvOEQ3ay9LViswUT09 PMI: 366 682 2714, Passcode: 142731</p>	<p>V-C: Building Construction II Room G 332 (Geutebrück-Building) Moderator: NASER KABASHI Co-Moderator: AYSHA HAROON IT Staff: EMIR GÜNIM V-Room C Zoom link: https://us02web.zoom.us/j/3055945850?pwd=anNKajdu d0U0WHZMamtaMW8waExjQT09 PMI: 305 594 5850, Passcode: 7eTTnh</p>
1	<p>SUS-07: FINANCIAL SUSTAINABILITY OF CONSTRUCTION AND DEMOLITION WASTE RECYCLING PLANTS ABHISHEK THAKUR, SUDHIR MISRA, AMARJIT SINGH</p>	<p>CON-06: THE CONSTRUCTABILITY REVIEW PROCESS IN A SMALL STATE HIGHWAY AGENCY: A CASE STUDY EDWARD MINCHIN, ASHISH ASUTOSH, DAN TRAN</p>	<p>AAE-14: THE CONTRIBUTION OF WOODEN RING BEAMS TO THE RESPONSE OF THE ADOBE STRUCTURES PETROS CHRISTOU, GEORGIOS XEKALAKIS</p>
2	<p>SUS-12: LARGE-SCALE, ROPE-DRIVEN ROBOT FOR THE AUTOMATED MAINTENANCE OF URBAN GREEN FACADES DAVID HOLSCHMACHER, CHRISTOPH MÜLLER, MARKUS HELBIG, NIKLAS WEISEL</p>	<p>SUS-03: ANALYZING AND FORECASTING CONTRACTORS' GREEN BUILDING REVENUES HALA SANBOSKANI, MOUNIR EL ASMAR, ELIE AZAR</p>	<p>AAE-17: ABOUT THE ROLE OF PHYSICAL MODEL FOR THE INSTITUTE FOR LIGHTWEIGHT-STRUCTURES PAVILLION IN STUTTGART AND THE CREATION OF ITS DIGITAL-TWIN BARIS WENZEL, BENJAMIN SCHMID, EBERHARD MÖLLER, JULIA NETT, CHRISTIANE WEBER</p>
3	<p>CEN-01: INVESTIGATION OF THE REASONS OF CONTAMINATION OF BEACH SANDS SYED FAIZ AHMAD</p>	<p>CPM-03: APPLICATION OF CHOOSING BY ADVANTAGE (CBA) TO SELECT MOST SUSTAINABLE PROJECT, METRO EXTENSION CASE STUDY MOHAMMAD MASFIQUL ALAM BHUIYAN, ANTHONY SULLE, AHMED HAMMAD -online-</p>	<p>STR-21: COMPARATIVE PERFORMANCE OF WIND INDUCED STRUCTURAL RESPONSE OF HIGH-RISE BUILDINGS WITH REINFORCED CONCRETE AND ULTRA LIGHTWEIGHT CROSS LAMINATED TIMBER SYSTEMS SAMAR DERNAYKA, DANISH AHMED, ANDI ASIZ, TAHAR AYADAT, MUHAMMAD AJMAL</p>



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Wednesday – June 22, 2022			
4	SUS-14: CARBON FOOTPRINT OPTIMIZED DESIGN OF SUSTAINABLE REINFORCED CONCRETE COLUMNS USING DEEP LEARNING AKNUR KARABAY, RAUSHAN UTEMURATOVA, DICHUAN ZHANG, HUSEYIN ATAKAN VAROL -online-	FAM-02: IN-DEPTH, LITERATURE-DRIVEN ANALYSIS OF CONSTRUCTION PROJECT DISRUPTIONS CATEGORIZED BY REGION MARTA MIERZEJEK -online-	AAE-06: PRE-FABRICATED CONNECTORS USED IN BAMBOO ARCHITECTURAL FRAMES FOR TIMELY-EFFICIENT CONSTRUCTION SUPREEDDEE RITTIRONK
5	SUS-05: TRENDS IN SUSTAINABLE PRACTICES IN THE CONSTRUCTION INDUSTRY USING GREEN STAR CERTIFIED BUILDINGS DATA JOSHUA TUMBAGA, SORN VIMONSATIT, JEMA RICA LOPEZ -online-	CON-29: CONSTRUCTION INDUSTRY AND THE ADOPTION OF EMERGING TECHNOLOGIES IN THE FOURTH INDUSTRIAL REVOLUTION: THE KEY IMPEDIMENTS IN DEVELOPING COUNTRIES BEAUTY JOHN, SAMUEL ADENIYI ADEKUNLE, CLINTON AIGBAVBOA -online-	AAE-16: SCAN-TO-BIM EFFICIENT APPROACH TO EXTRACT BIM MODELS FROM HIGH PRODUCTIVE INDOOR MOBILE MAPPING SURVEY SIMONA ROGGERI, GIORGIO PAOLO MARIA VASSENSA, LAVINIA CHIARA TAGLIABUE -online-
6	SUS-02: A KNOWLEDGE-BASED DECISION SUPPORT SYSTEM FOR SELECTION OF SUSTAINABLE STRUCTURAL MATERIALS: USING FUZZY EXPERT SYSTEM NIMA NARJABADIFAM, HALIL BASCIK, SAMANEH FALLAH NAFARI, AHMED HAMMAD -online-	HOS-04: RESIDENTS' DEGREE OF SATISFACTION IN PUBLIC-PRIVATE PARTNERSHIPS HOUSING PROVISION IN DEVELOPING ECONOMY BABATUNDE FATAI OGUNBAYO, CLINTON OHIS AIGBAVBOA, DIDIBHUKU WELLINGTON THWALA, OLUSEGUN AANUOLUWAPO OGUNTONA -online-	AAE-15: LEADERS OF TOMORROW: STATUS AND OUTLOOK OF BIM IMPLEMENTATION AMONG YOUNG QUANTITY SURVEYORS SAMUEL ADENIYI ADEKUNLE, CLINTON AIGBAVBOA, OBUKS EJOHWOMU, WELLINGTON D THWALA, JOHN ALIU -online-
<p>Lunch Break 13:00 – 13:30</p> <p>Geutebrück-Building, Main Stair Case, 3rd floor Karl-Liebknecht-Straße 132, 04107 Leipzig</p>			

Wednesday – June 22, 2022		
Closing Session and Awards		
13:30 – 14:00	Address of Conference Chair <i>Klaus Holschemacher (2 min)</i>	Geutebrück-Building, 3rd floor, Room G329, Karl-Liebkecht-Straße 132, 04107 Leipzig V-Room A Zoom link https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWWVocUVSQT09 PMI: 336 508 2496 Passcode: 395011
	Announcement of Best EURO MED SEC 4 Presentation Awards <i>TBD (15 min)</i>	
	Remarks by the Chief ISEC Copy Editor <i>Asli Gürgün (5 min)</i>	
	Presentation of ASEA SEC 6 Conference <i>(Nov/Dec 2022, Sydney, Australia)</i> <i>Sorn Vimonsatit (3 min.)</i>	



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	Announcements <i>Klaus Holschemacher (2 min.)</i>	
	Closing Remarks by ISEC Society <i>Frank Yazdani (3 min.)</i>	
18:00 – 21:00	Dinner Banquet in the Leipzig Old Stock Exchange	Alte Handelsbörse, Naschmarkt 1, 04109 Leipzig



Thursday, June 23, 2022		
09:00 – 18:00	Technical Tour 1: Concrete Plant Oschatz, Dresden and Carbonbetontechnikum	



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World Times Corresponding to EURO MED SEC 4 Events

Event	Leipzig Date	Leipzig Time	Central European Summer Time	UK and British Isles // West Africa Time	Brazilian Time	EST - USA // Chile Time	CST - USA // Quito Time	MST - USA
Welcome Reception	20-Jun	5:00 PM	5:00 PM	4:00 PM	12 noon	11:00 AM	10:00 AM	9:00 AM
Opening Session	21-Jun	9:00 AM	9:00 AM	8:00 AM	4:00 AM	3:00 AM	2:00 AM	1:00 AM
Keynote Speech I	21-Jun	9:45 AM	9:45 AM	8:45 AM	4:45 AM	3:45 AM	2:45 AM	1:45 AM
Coffee Break	21-Jun	10:15 AM	10:15 AM	9:15 AM	5:15 AM	4:15 AM	3:15 AM	2:15 AM
Tech Session I	21-Jun	11:00 AM	11:00 AM	10:00 AM	6:00 AM	5:00 AM	4:00 AM	3:00 AM
Lunch Break	21-Jun	12:30 PM	12:30 PM	11:30 AM	7:30 AM	6:30 AM	5:30 AM	4:30 AM
Tech Session II	21-Jun	1:30 PM	1:30 PM	12:30 PM	8:30 AM	7:30 AM	6:30 AM	5:30 AM
Coffee Break	21-Jun	3:00 PM	3:00 PM	2:00 PM	10:00 AM	9:00 AM	8:00 AM	7:00 AM
Tech Session III	21-Jun	3:45 PM	3:45 PM	2:45 PM	10:45 AM	9:45 AM	8:45 AM	7:45 AM
Keynote Speech II	22-Jun	9:00 AM	9:00 AM	8:00 AM	4:00 AM	3:00 AM	2:00 AM	1:00 AM
Tech Session IV	22-Jun	9:30 AM	9:30 AM	8:30 AM	4:30 AM	3:30 AM	2:30 AM	1:30 AM
Coffee Break	22-Jun	11:00 AM	11:00 AM	10:00 AM	6:00 AM	5:00 AM	4:00 AM	3:00 AM
Tech Session V	22-Jun	11:30 AM	11:30 AM	10:30 AM	6:30 AM	5:30 AM	4:30 AM	3:30 AM
Lunch Break	22-Jun	1:00 PM	1:00 PM	12:00 PM	8:00 AM	7:00 AM	6:00 AM	5:00 AM
Closing Session	22-Jun	1:30 PM	1:30 PM	12:30 PM	8:30 AM	7:30 AM	6:30 AM	5:30 AM



The Fourth European and Mediterranean Structural Engineering and Construction
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World Times Corresponding to EURO MED SEC 4 Events (continued)

	Leipzig Date	Leipzig Time	PST-USA	HST - USA	New Zealand Time	Eastern Australia Time	Japan Time
Event	Event Start Time						
Welcome Reception	20-Jun	5:00 PM	8:00 AM	5:00 AM	3:00 AM	1:00 AM	12:00 AM
Opening Session	21-Jun	9:00 AM	12:00 AM	9:00 PM	7:00 PM	5:00 PM	4:00 PM
Keynote Speech I	21-Jun	9:45 AM	12:45 AM	9:45 PM	7:45 PM	5:45 PM	4:45 PM
Coffee Break	21-Jun	10:15 AM	1:15 AM	10:15 PM	8:15 PM	6:15 PM	5:15 PM
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Tech Session II	21-Jun	1:30 PM	4:30 AM	1:30 AM	11:30 PM	9:30 PM	8:30 PM
Coffee Break	21-Jun	3:00 PM	6:00 AM	3:00 AM	1:00 AM	11:00 PM	10:00 PM
Tech Session III	21-Jun	3:45 PM	6:45 AM	3:45 AM	1:45 PM	11:45 PM	10:45 PM
Keynote Speech II	22-Jun	9:00 AM	12:00 AM	9:00 PM	7:00 PM	5:00 PM	4:00 PM
Tech Session IV	22-Jun	9:30 AM	12:30 AM	9:30 PM	7:30 PM	5:30 PM	4:30 PM
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Tech Session V	22-Jun	11:30 AM	2:30 AM	11:30 PM	9:30 PM	7:30 PM	6:30 PM
Lunch Break	22-Jun	1:00 PM	4:00 AM	1:00 AM	11:00 PM	9:00 PM	8:00 PM
Closing Session	22-Jun	1:30 PM	4:30 AM	1:30 AM	11:30 PM	9:30 PM	8:30 PM



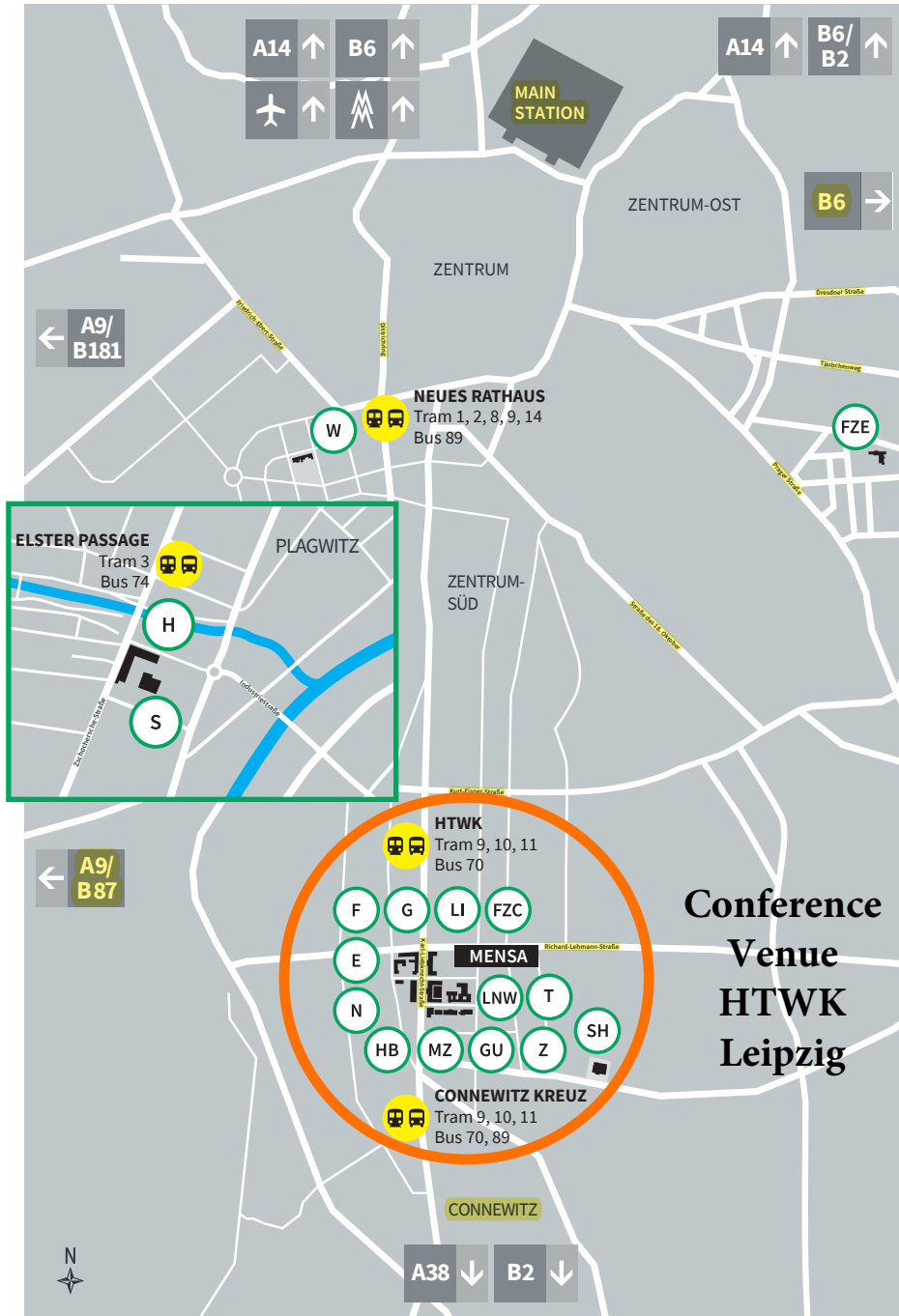
The Fourth European and Mediterranean Structural Engineering and Construction
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World Times Corresponding to EURO MED SEC 4 Events (continued)

Event	Leipzig Date	Leipzig Time	Western Australia // Taiwan // Beijing // Hong Kong Time	Thailand Time	India Time	UAE Time	Eastern European Summer // West Asia // Saudi Arabia & Kuwait Time
Welcome Reception	20-Jun	5:00 PM	11:00 PM	10:00 PM	8:30 PM	7:00 PM	6:00 PM
Opening Session	21-Jun	9:00 AM	3:00 PM	2:00 PM	12:30 PM	11:00 AM	10:00 AM
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Tech Session V	22-Jun	11:30 AM	5:30 PM	4:30 PM	3:00 PM	1:30 PM	12:30 PM
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Closing Session	22-Jun	1:30 PM	7:30 PM	6:30 PM	5:00 PM	3:30 PM	2:30 PM

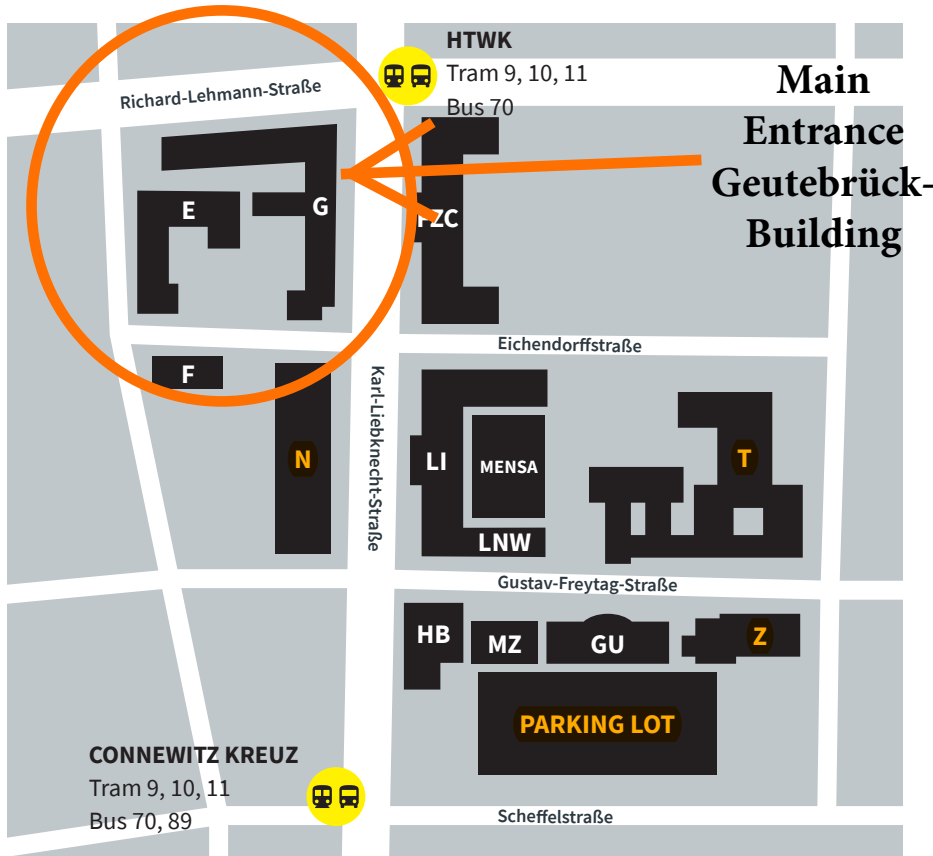
Site map complete overview



Addresses, traffic links from main station

- E** **Eichendorffstraße** Eichendorffstraße 2, 04277 Leipzig
Tram 9, 10, 11 HTWK
- FZE** **Research Center** Eilenburger Straße 13, 04317 Leipzig
Tram 15 Ostplatz, Bus 60 Schulze-Boysen-Straße
- FZC** **Research Center Campus**
Karl-Liebnecht-Straße 143, 04277 Leipzig
Tram 9, 10, 11 HTWK
- F** **FÖPPL-Building** Kochstraße 85, 04277 Leipzig
Tram 9, 10, 11 HTWK
- G** **GEUTEBRÜCK-Building**
Karl-Liebnecht-Straße 132, 04277 Leipzig
Tram 9, 10, 11 HTWK
- GU** **GUTENBERG-Building**
Gustav-Freytag-Str. 42, 04277 Leipzig
Tram 9, 10, 11 Connewitz Kreuz
- H** **HOPPER-Building** Zschochersche Straße 69, 04229 Leipzig
Tram 3, Bus 74 Elster Passage
- HB** **University Library**
Gustav-Freytag-Straße 40, 04277 Leipzig
Tram 9, 10, 11 Connewitz Kreuz
- SH** **Collegiate Sports Gym**
Arno-Nitzsche-Straße 29, 04277 Leipzig
Tram 10 Meusdorfer Straße
- LI** **LIPSIUS-Building** Karl-Liebnecht-Straße 145, 04277 Leipzig
Tram 9, 10, 11 HTWK
- LNW** **Laboratory Building Sciences**
Gustav-Freytag-Straße 41 A, 04277 Leipzig
Tram 9, 10, 11 Connewitz Kreuz
- MZ** **Multi Media Center** Gustav-Freytag-Straße 40, 04277 Leipzig
Tram 9, 10, 11 Connewitz Kreuz
- N** **NIEPER-Building** Karl-Liebnecht-Straße 134, 04277 Leipzig
Tram 9, 10, 11 Connewitz Kreuz
- S** **SHANNON-Building**
Zschochersche Straße 69, Innenhof 04229 Leipzig
Tram 3, Bus 74 Elster Passage
- T** **Building T** Gustav-Freytag-Straße 43, 04277 Leipzig
Tram 9, 10, 11 Connewitz Kreuz
- W** **WIENER-Building** Wächterstraße 13, 04107 Leipzig
Bus 89 Wächterstraße, Tram 1, 2, 8, 9, 14 Neues Rathaus
- Z** **ZUSE-Building** Gustav-Freytag-Straße 42A, 04277 Leipzig
Tram 9, 10, 11 Connewitz Kreuz

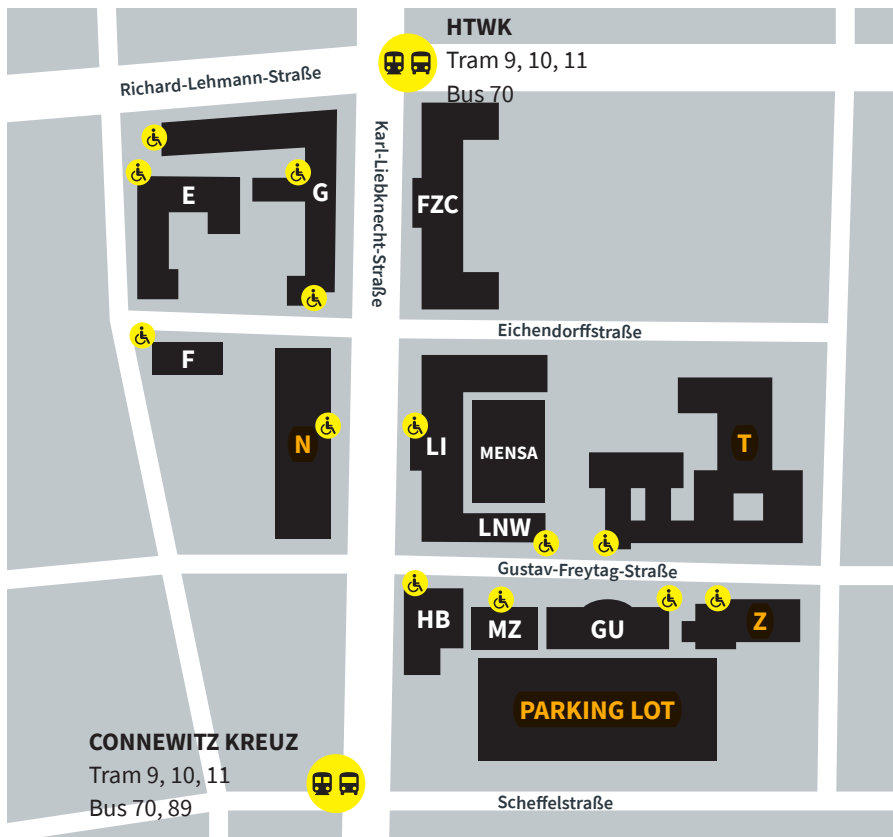
Campus overview



Addresses, traffic links from main station

- E** **Eichendorffstraße** Eichendorffstraße 2, 04277 Leipzig
Tram 9, 10, 11 ☺ HTWK
- FZC** **Research Center Campus**
Karl-Liebknecht-Straße 143, 04277 Leipzig
Tram 9, 10, 11 ☺ HTWK
- F** **FÖPPL-Building** Kochstraße 85, 04277 Leipzig
Tram 9, 10, 11 ☺ HTWK
- G** **GEUTEBRÜCK-Building**
Karl-Liebknecht-Straße 132, 04277 Leipzig
Tram 9, 10, 11 ☺ HTWK
- GU** **GUTENBERG-Building**
Gustav-Freytag-Str. 42, 04277 Leipzig
Tram 9, 10, 11 ☺ Connewitz Kreuz
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Gustav-Freytag-Straße 40, 04277 Leipzig
Tram 9, 10, 11 ☺ Connewitz Kreuz
- LI** **LIPSIUS-Building** Karl-Liebknecht-Straße 145, 04277 Leipzig
Tram 9, 10, 11 ☺ HTWK
- LNW** **Laboratory Building Sciences**
Gustav-Freytag-Straße 41 A, 04277 Leipzig
Tram 9, 10, 11 ☺ Connewitz Kreuz

Campus overview – wheelchair access



- MZ** **Multi Media Center** Gustav-Freytag-Straße 40, 04277 Leipzig
Tram 9, 10, 11 ☺ Connewitz Kreuz
- N** **NIEPER-Building** Karl-Liebknecht-Straße 134, 04277 Leipzig
Tram 9, 10, 11 ☺ Connewitz Kreuz
- T** **Building T** Gustav-Freytag-Straße 43, 04277 Leipzig
Tram 9, 10, 11 ☺ Connewitz Kreuz
- Z** **ZUSE-Building** Gustav-Freytag-Straße 42A, 04277 Leipzig
Tram 9, 10, 11 ☺ Connewitz Kreuz



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List of Moderators/Co-Moderators

FIRST NAME	LAST NAME	SESSION -TRACK
FARID	ABED	II-B: Cementitious Materials
FARID	ABED	III-C: High-Performance Concrete and Sustainability
SYED FAIZ	AHMAD	IV-C: Building Construction I
DEJAN	DINEVSKI	I-C: Reinforced Concrete Structures I
DEJAN	DINEVSKI	V-B: Project Management and Construction II
MOUNIR	EL ASMAR	I-B: Analysis I
SALAH EL-DIN E.	EL-METWALLY	I-A: Steel Structures
VIKTOR	GRIBNIAK	V-A: Sustainability and Maintenance
ASLI PELIN	GÜRGÜN	III-C: High-Performance Concrete and Sustainability
AYSHA	HAROON	I-A: Steel Structures
AYSHA	HAROON	V-C: Building Construction II
DAVID	HOLSCHMACHER	II-C: Reinforced Concrete Structures II
NASER	KABASHI	III-B: Analysis II
NASER	KABASHI	V-C: Building Construction II
STEFAN	KAESEBERG	IV-A: Alkali Activated Cement
MICHAEL	KALISKE	IV-C: Building Construction I
AMAR	KHENNANE	IV-A: Alkali Activated Cement
EDWARD	MINCHIN	III-B: Analysis II
EDWARD	MINCHIN	IV-B: Legal Topics
PAOLA	PROVENZANO	II-A: Project Management and Construction I
YURI	RIBAKOV	II-C: Reinforced Concrete Structures II
YURI	RIBAKOV	III-A: Textile Reinforced and Fiber Reinforced Concrete
AMARJIT	SINGH	I-C: Reinforced Concrete Structures I
AMARJIT	SINGH	IV-B: Legal Topics
VOLKER	SLOWIK	I-B: Analysis I
WANNAWIT	TAEMTHONG	V-A: Sustainability and Maintenance
PHILIPPE	VAN BOGAERT	II-A: Project Management and Construction I
PHILIPPE	VAN BOGAERT	V-B: Project Management and Construction II
FRANK	YAZDANI	II-B: Cementitious Materials
FRANK	YAZDANI	III-A: Textile Reinforced and Fiber Reinforced Concrete