

footbridge 2011

Wrocław, Poland, July 6-8



Wrocław University of Technology

Institute of Civil Engineering



**4th International Conference
Footbridge 2011**

Final Programme

Introduction

Wroclaw University of Technology is honoured to organize the next edition of the International Conference Footbridge. After successful three previous editions in 2002 (Paris), 2005 (Venice) and 2008 (Porto), the 4th International Conference Footbridge is held in **Wroclaw (Poland) on July 6th – 8th, 2011**.

The Conference is held in Poland, a country which after joining the European Union strives for a prompt modernization of the transport infrastructure. Many communities around the world also begin or continue the process of such modernization, including pedestrian footbridges, which may significantly contribute to their future economic and cultural development. The investment costs, technology and execution time are crucial issues nowadays, so it is important to discuss solutions which are inexpensive and universal. Then, the main objective of the Conference, except for the presentation of impressive architectural and engineering achievements, is also the introduction of universal, aesthetic footbridges constructed of high quality and durability materials. Problems that remain still current are the comfort of users and dynamics of footbridges.

The keynote of the Conference is '**Attractive Structures at Reasonable Costs**'.

From 216 abstracts submitted to the Conference the Scientific Committee accepted 162 papers from 38 countries for presentation, including 7 keynote lectures prepared by recognized specialists invited by the Organizing Committee.

We sincerely hope that the Conference will provide numerous opportunities for specialists from different countries to exchange opinions and that it will contribute to the quality improvement of new projects.

We express our thanks to the Authors of the papers for their valuable contribution, to the Members of the Scientific Committee and Advisory Committee for their valuable effort, to the Members of the Organizing Committee for their hard work during the Conference arrangement and to the Publisher for thorough edition of the Conference materials.

We wish many benefits – scientific, technical as well as tourist, to all participants of the International Conference FOOTBRIDGE 2011.

Main Topics

- Planning and conceptual design
- Aesthetics and architecture
- Footbridges in urban area
- Structural analysis and behaviour
- Dynamics, vibration tests and control
- New materials and innovations
- Maintenance and operation
- Renovation, repair and refurbishment
- Special case studies
- Guidelines and codes

Workshop

Following the good tradition of the previous editions of Footbridge Conference a pre-conference workshop is arranged for those who would like to extend their knowledge and interests. The workshop is held on **July 5th, 2011**.

This Workshop, with the main theme '**Materials for Footbridges - Recent Achievements**' will handle major outcomes in application of modern material solutions for footbridges.

Traditional domination of structural steel and cement concrete in bridge structures is undeniable. However constant progress in development in structural design gives us several possibilities to consider modern materials recently predicted to the space and marine structures.

Industrial production of several unique materials makes them available on the common market. These phenomena coupled with much more reasonable price open new fields for wide range of advanced products. New fiber composites, modern metal alloys, chemically and structurally modified wood, structural glass and polymer concrete seem to be attractive alternative to traditional materials.

Workshop topics

- Timber solution for footbridges
- Aluminum alloy in bridges
- Steel wires and tension rods
- Fiber composites - structural solutions
- Fiber composites - wires in structures
- Protective coating systems used on footbridges
- Glass for footbridges
- Footbridge analysis - numerical approach

Conference Committees

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General Programme

Building	Time	5 th July (TUESDAY)
A-1		
	9:00-10:00	Registration (foyer)
	10:00-11:10	Workshop session 1 (241)
	11:10-11:40	Coffee-break
	11:40-13:15	Workshop session 2 (241)
	13:15-13:45	Discussion
	13:45-15:00	Lunch
	15:00-16:20	Workshop session 3 (241)
	16:20-17:00	General discussion
A-1	19:30-22:00	Welcome reception

Building	Time	6 th July (WEDNESDAY)
A-1	7:30-8:30	Registration (foyer)
	8:30-9:30	Opening ceremony (main hall)
	9:30-11:00	Keynote lecture 1
		Keynote lecture 2
C-13	11:00-12:00	Opening of exhibition Coffee-break
	12:00-14:00	Parallel session 1 (0.31) Parallel session 2 (0.32) Parallel session 3 (1.30)
	14:00-15:30	Lunch
	15:30-17:30	Parallel session 4 (0.31) Parallel session 5 (0.32) Parallel session 6 (1.30)
Town hall	19:30-22:00	Footbridge awards

Building	Time	7 th July (THURSDAY)
A-1	8:00-9:00	Coffee
	9:00-10:00	Keynote lecture 4
		Keynote lecture 5
	10:00-11:00	Plenary session 1
C-13	11:00-12:00	Poster presentations 1 Coffee-break
	12:00-14:00	Parallel session 7 (0.31) Parallel session 8 (0.32) Parallel session 9 (1.30)
	14:00-15:30	Lunch
	15:30-17:30	Parallel session 10 (0.31) Parallel session 11 (0.32) Parallel session 12 (1.30)
	Centennial hall	19:30-00:00

Building	Time	8 th July (FRIDAY)
A-1	8:00-9:00	Coffee
	9:00-10:00	Keynote lecture 6
		Keynote lecture 7
	10:00-11:00	Plenary session 2
C-13	11:00-12:00	Poster presentations 2 Coffee-break
	12:00-14:00	Parallel session 13 (0.31) Parallel session 14 (0.32) Parallel session 15 (1.30)
	14:00-15:30	Lunch
A-1	15:30-17:00	Closing ceremony (main hall)

Detailed Programme of Workshop

5th July (TUESDAY) 10:00 – 17:00

Start	End	Workshop session 1		
10:00	11:10			Room: 241 / A-1
10:00	10:10	1	Krzysztof Żółtowski <i>Gdańsk University of Technology</i>	WELCOME
10:10	10:40	2	Henryk Zobel, Thakaa Alkhafaji <i>Warsaw University of Technology</i>	TIMBER AS A STRUCTURAL MATERIAL
10:40	11:10	3	Tomasz Siwowski <i>Rzeszów University of Technology</i>	ALUMINIUM ALLOYS - AN EXCELLENT MATERIAL FOR FOOTBRIDGES

11:10 11:40 Coffee-break

Start	End	Workshop session 2		
11:40	13:45			Room: 241 / A-1
11:40	12:10	1	Erik Mellier <i>Freysinet International</i>	CABLE TECHNOLOGIES FOR FOOTBRIDGES
12:10	12:25	2	Andrzej Berger <i>Mosty Gdańsk</i>	CABLES IN FOOTBRIDGES - POLISH IMPLEMENTATIONS
12:25	12:55	3	Morten Gantriis Sørensen <i>Fiberline Composites</i>	FRP BRIDGE DECKS - LIGHT AND DURABLE SOLUTIONS
12:55	13:15	4	Monika Miłek <i>Megachemie</i>	PROTECTIVE COATING SYSTEMS USED ON FOOTBRIDGES
13:15	13:45	Discussion		

13:45 15:00 Lunch

Start	End	Workshop session 3		
15:00	17:00			Room: 241 / A-1
15:00	15:20	1	Andreas Keil <i>Schlaich Bergermann und Partner</i>	GLASS FOR FOOTBRIDGES - A SUBTLE TUBE IN LISBON
15:20	15:50	2	Thomas Fink <i>SOF/STIK</i>	CASE STUDIES OF FOOTBRIDGES DESIGNED WITH SOF/STIK SOFTWARE
15:50	16:20	3	Jürgen Bellmann <i>SOF/STIK</i>	CONSTRUCTION STAGES AND FORCE/SHAPE OPTIMIZATION IN FOOTBRIDGE ANALYSIS
16:20	17:00	General discussion		

Detailed Programme of Oral Presentations

6th July (WEDNESDAY) 8:30 – 9:30

Start	End	Opening ceremony		
08:30	09:30	Chairs: Jan Biliszczuk, Jan Bień, Wojciech Radomski, Tadeusz Więckowski, Antoni Szydło, Helena Russell, Paweł Hawryszków, Kazimierz Furtak, Ueli Brunner		
		Place: Main Hall / A-1		
08:30	09:30	1	Jan Biliszczuk	WELCOME
		2	Tadeusz Więckowski	WELCOME
		3	Wojciech Radomski	WELCOME
		4	Ueli Brunner	WELCOME
		6	Jan Bień	SHORT INFORMATION ABOUT POLAND, WROCLAW AND WUT
		7	Maciej Hildebrand	BRIDGES IN POLAND
		8	Jan Bień	MEDALS OF POLISH SOCIETY OF BRIDGE ENGINEERS
		9	Paweł Hawryszków	ORGANIZING INFORMATION

6th July (WEDNESDAY) 9:30 – 11:00

Start	End	Keynote lectures		
9:30	11:00	Chairs: Wojciech Radomski, Enzo Siviero		
		Place: Main Hall / A-1		
09:30	10:00	K1	Brian Duguid	BENCHMARKING COST AND VALUE OF LANDMARK FOOTBRIDGES
10:00	10:30	K2	Cezary Bednarski	THE 'CHAINED' BRIDGE (ATTRACTIVE STRUCTURES AT REASONABLE COST?)
10:30	11:00	K3	Jan Biliszczuk, Wojciech Barcik	FOOTBRIDGES IN POLAND – THE HISTORY AND PRESENT STATE

6th July (WEDNESDAY) 12:00 – 14:00

Start	End	Parallel session 1		
12:00	14:00	Inspirations and Limitations in Footbridge Design		
		Chairs: Krzysztof Berger, Andrzej Kulawik		Room: 0.31 / C-13
12:00	12:15	1	Avery Louise Bang, Amy Floren	CORPORATE / NGO PARTNERSHIP FOR SUSTAINABLE RURAL FOOTBRIDGE TECHNOLOGIES IN THE DEVELOPING WORLD
12:15	12:30	2	Nan Hu, Gonglian Dai	THE NECESSITY OF ADDING AESTHETIC CONTENTS TO FUTURE CODES
12:30	12:45	3	Martin Knight, Simon Fryer	COMBINING ENGINEERING AND AESTHETICS: THE TOWN CENTRE LINK, LONDON
12:45	13:00	4	Guillermo Capellán Miguel, Héctor Beade, Juan José Arenas de Pablo, Pablo Alfonso, Marianela García	FOOTBRIDGE OVER THE TIRÓN RIVER IN HARO (SPAIN). A DESIGN INSPIRED BY THE WINE CULTURE
13:00	13:15	5	Marek Salamak	INSPIRATIONS IN FOOTBRIDGE DESIGNING
13:15	13:30	6	Beate Vlaanderen - Geimer	ARCHITECTURE, INFRASTRUCTURE AND ENVIRONMENT
13:30	13:45	7	Alessandra Tosone, Renato Morganti, Danilo Di Donato	THE FINITE LIGHT: SYMBOL AND CONSTRUCTIVE NATURE OF FOOTBRIDGE
13:45	14:00	8	Christian Ernst	KØGE PEDESTRIAN BRIDGE. (INTERNATIONAL) COOPERATION IN SMALL SCALE

Start	End	Parallel session 2		
12:00	14:00	Footbridges over Transportation Routes		
		Chairs: Wojciech Siwowski, Paul Sanders		Room: 0.32 / C-13
12:00	12:15	1	John Anderson, Marlize van Zyl	MARKGRAAFF PEDESTRIAN BRIDGE: AN UN-BRACED STEEL NETWORK ARCH BRIDGE
12:15	12:30	2	Tiaan Kramer, Edwin Kruger, Raimond Miller	LYNNWOOD GLEN PEDESTRIAN AND PIPE BRIDGE
12:30	12:45	3	Alan Mordey	THE REPLACEMENT OF HEATH TOWN FOOTBRIDGE, WOLVERHAMPTON, ENGLAND
12:45	13:00	4	Douglas Watt, Pankaj Garg, Alan Mordey	FOOTBRIDGES FOR THE M50 PPP UPGRADE, DUBLIN, IRELAND
13:00	13:15	5	Jifi Stráský, Petr Mojzík, Vladimir Puda, Radim Nečas	BICYCLIST AND PEDESTRIAN BRIDGE ACROSS THE MOTORWAY D1, BOHUMIN, CZECH REPUBLIC
13:15	13:30	6	Sarah Skorpen, Gerrit Visser, Edwin Kruger	THE DESIGN AND CONSTRUCTION OF THE NEW 7TH AVENUE PEDESTRIAN BRIDGE
13:30	13:45	7	Guillermo Capellán Miguel, Miguel Sacristán M., Juan José Arenas de Pablo	DELICIAS FOOTBRIDGE IN ZARAGOZA (SPAIN). A LIGHT STRUCTURE TO RECEIVE THE HIGH SPEED TRAIN
13:45	14:00	8	Xavier Font	CAN GILI FOOTBRIDGE OVER THE BV-1432 HIGHWAY IN GRANOLLERS

Start	End	Parallel session 3		
12:00	14:00	Footbridges and Environment I		
		Chairs: Andreas Keil, Vladimir Slivker		Room: 1.30 / C-13
12:00	12:15	1	David Baird, Chris Hendy, Rachel Jones, Patrick Wong, David Smith	DESIGN OF THE OLYMPIC PARK BRIDGE L01
12:15	12:30	2	Stanisław Sipiński, Krzysztof Topolewicz, Marek Jusik, Miroslaw Filipiak	MALTA FOOTBRIDGE – POZNAŃ – POLAND
12:30	12:45	3	Edmund Budka, Wojciech Lorenc, Adam Stempniewicz, Paweł Wątroba	DESIGN OF A NEW FOOTBRIDGE NEXT TO EURO 2012 STADIUM IN WROCLAW
12:45	13:00	4	Conor Lavery, Keith Brownlie	UNIVERSITY OF LIMERICK 'LIVING' BRIDGE
13:00	13:15	5	José Romo, José Soriano, Daniel Jimenez	NAJERA FOOTBRIDGE
13:15	13:30	6	Giorgio Masotti, Luca Humair	FOOTBRIDGE OVER VERZASCA RIVER (CH) - SWITZERLAND
13:30	13:45	7	Giorgio Masotti, Fabio Gervasoni	CABLE-STAYED FOOTBRIDGE OVER TICINO RIVER (CH) - SWITZERLAND
13:45	14:00	8	Massimo Majowiecki, Nicola Cosentino	EXPERIENCES ON FOOTBRIDGE CONCEPTUAL DESIGN VS. DYNAMIC PERFORMANCES

6th July (WEDNESDAY) 15:30 – 17:30

Start	End	Parallel session 4		
15:30	17:30	Footbridge Dynamics I		
		Chairs: Antonio Adão da Fonseca, João Fonseca		Room: 0.31 / C-13
15:30	15:45	1	Gee-Cheol Kim, Joo-Won Kang	APPLICATION OF EQUIVALENT WALKING LOADS FOR EFFICIENT ANALYSIS OF FOOTBRIDGE VIBRATION
15:45	16:00	2	Krzysztof Zóltowski, Andrzej Kozakiewicz	THE NEW FOOTBRIDGE IN CITY OF CRACOW - DYNAMIC DESIGN AND FINAL VERIFICATION IN TEST LOADING
16:00	16:15	3	Caspar Breman, Herke Stuit, Bert Snijder	DYNAMIC ANALYSIS OF THE ROTTERDAM CENTRAL STATION FOOTBRIDGE
16:15	16:30	4	Daia Zwicky, Julien Biemann	DYNAMIC BEHAVIOR OF A WALKWAY IN THEORY AND FIELD TEST
16:30	16:45	5	Carmelo Gentile, Annibale Luigi Materazzi, Filippo Ubertini	OPERATIONAL MODAL TESTING AND ANALYSIS OF A LONG SPAN FOOTBRIDGE
16:45	17:00	6	Albert Ortiz, Jhon Sanchez, Peter Thomson	DYNAMIC CHARACTERIZATION OF COLOMBIAN FOOTBRIDGE DUE TO PEDESTRIAN LOADS
17:00	17:15	7	Peter Tanner, Juan Luis Bellod, David Sanz	DYNAMIC LOAD TESTS ON NON CONVENTIONAL FOOTBRIDGES
17:15	17:30	8	João Fonseca, Clemente Pinto, Carlos Azevedo	ABOUT THE CONSTRUCTION AND DYNAMIC BEHAVIOR OF CARPINTEIRA FOOTBRIDGE

Start	End	Parallel session 5		
15:30	17:30	Urban Footbridges I		
		Chairs: Manfred Kausser, Jerzy Onysyk		Room: 0.32 / C-13
15:30	15:45	1	Juan José Arenas de Pablo, Guillermo Capellán Miguel, Emilio Merino Rasillo	LA CAVA FOOTBRIDGE IN LOGROÑO. INNOVATIVE DESIGN FOR AN URBAN CROSSING
15:45	16:00	2	Jamey Barbas, Michael Williams	DESIGN AND CONSTRUCTION OF LINK BRIDGE, YAS HOTEL, ABU DHABI
16:00	16:15	3	Juan A. Sobrino, Ricardo Ferraz	THREE PEDESTRIAN BRIDGES IN URBAN ENVIRONMENT
16:15	16:30	4	Pier Giorgio Malerba, Paolo Galli, Marco di Domizio, Matteo Patelli	THE NEW EUROPA PEDESTRIAN BRIDGE IN PARMA
16:30	16:45	5	Davood Liaghat, Kit Powell-Williams, Massimo Capasso	PONTE DELLA MUSICA: AN URBAN BRIDGE IN ROME
16:45	17:00	6	Rudolf Brandstötter	LINK 27. A NEW FOOTBRIDGE IN THE WEST OF VIENNA, AUSTRIA
17:00	17:15	7	Bartłomiej Halaczek, Martin Knight	A NEW, SUSTAINABLE BRIDGE FORM: THE MARGARETENGÜRTEL BRIDGE, VIENNA

Start	End	Parallel session 6		
15:30	17:30	Footbridges and Environment II		
		Chairs: Massimo Majowiecki, Marek Lagoda		Room: 1.30 / C-13
15:30	15:45	1	Enzo Siviero, Lorenzo Attolico	FOOTBRIDGE OVER BRENTELLA CHANNEL TO SERVE THE CYCLE TRACK IN VIA PELOSA (PADUA, ITALY)
15:45	16:00	2	Héctor Beade, Guillermo Capellán Miguel, Juan José Arenas de Pablo, Pablo Alfonso, Juan Ruiz	BUTTERFLY WINGS. LAS NORIAS FOOTBRIDGE OVER THE EBRO RIVER IN LOGROÑO (SPAIN)
16:00	16:15	3	Jonah Ptak, Ravi Ronny	CONTEXT-SENSITIVE SOLUTIONS IN COMMUNITY DEVELOPMENT PROJECTS
16:15	16:30	4	Thomas Hermekeing, Michael Rinklin	INSTALLATION OF A CABLE SUSPENDED BRIDGE IN THE NATURE RESERVE URFTSEE: VICTOR NEELS BRIDGE
16:30	16:45	5	Andreas Keil, Sebastian Linden	FOOTBRIDGE OVER THE RHEIN-HERNE-CANAL IN GELSENKIRCHEN, GERMANY
16:45	17:00	6	Stanislav Brtan, Tomas Kulhavy	FOOTBRIDGE ACROSS OSTRAVICE RIVER IN FRYDEK-MISTEK, CZECH REPUBLIC
17:00	17:15	7	James Marks, Kandiah Kuhendran	PEACE BRIDGE, DERRY~LONDONDERRY
17:15	17:30	8	Slawomir Barczak	FOOTBRIDGE ON THE SAN RIVER IN THE TOWN OF WITRYLOW TO ULUCZ

7th July (THURSDAY)

9:00 – 11:00

Start	End	Keynote lectures		
09:00	10:00	Chairs: Jan Biliszczuk, Mike Schlaich		Place: Main Hall / A-1
09:00	09:30	K4	Henryk Zobel, Thakaa Alkhafaji	CONTEMPORARY STRUCTURAL SOLUTIONS OF TIMBER PEDESTRIAN BRIDGES
09:30	10:00	K5	Enzo Siviero, Michele Culatti, Danila Natalini	CONCEPTUAL DESIGN OF FOOTBRIDGES IN THE SCHOOL OF ARCHITECTURE IN VENICE - ITALY

Start	End	Plenary session 1		
10:00	11:00	Chairs: Jan Bień, Graeme Dundas		Place: Main Hall / A-1
10:00	10:15	P1	David Baird, Steven Cook, Patrick Wong, Martin Kirk	FOOTBRIDGES FOR THE LONDON 2012 OLYMPIC AND PARALYMPIC GAMES
10:15	10:30	P2	Tomasz Siwowski, Piotr Żółtowski, Krzysztof Żółtowski, Jan Biliszczuk	THE NEW ARCH FOOTBRIDGE OVER VISTULA RIVER IN CRACOW
10:30	10:45	P3	David Smith, Tony Smith, Manuela Chiarello, Alan Ho	DUBAI METRO FOOTBRIDGE DESIGN
10:45	11:00	P4	Dietmar Feichtinger, José Luis Fuentes, Andreas Keil, Michael Zimmermann	PASSERELLE SUR NANTERRE – SPATIAL PLAY OF FORCES

7th July (THURSDAY)
12:00 – 14:00

Start	End	Parallel session 7	
12:00	14:00	Footbridge Dynamics II	
		Chairs: Zbigniew Wójcicki, Ingbert Mangerig	Room: 0.31 / C-13
12:00	12:15	1	Danuta Bryja Anna Woszczyzna RESONANT VIBRATIONS OF A CABLE-STAYED FOOTBRIDGE UNDER GUSTY WIND WITH TIME DEPENDENT PERIODIC MEAN VELOCITY
12:15	12:30	2	Hongli Li, Christos T. Georgakis, Z.Q. Chen THE RESPONSE SPECTRUM METHODOLOGY CONSIDERING INTER- AND INTRA-SUBJECT VARIABILITY
12:30	12:45	3	Hadi Moghadasi Faridani, Majid Barghian, Leila Moghadasi PROPOSING A NEW MODEL OF HANGERS IN PEDESTRIAN SUSPENSION BRIDGES TO SOLVE HANGERS SLACKNESS PROBLEM
12:45	13:00	4	Katrien Van Nimmen, Peter Van den Broeck, Bram Gezels, Guido De Roeck, Geert Lombaert OPERATIONAL MODAL ANALYSIS AND VIBRATION SERVICEABILITY ASSESSMENT OF A FOOTBRIDGE
13:00	13:15	5	Henryk Jan Ciurej, Piotr Gwozdziwicz OPTIMIZATION OF LOCALIZATION AND PARAMETERS OF MULTIPLE TUNED MASS DAMPERS ON LIGHTWEIGHT FOOTBRIDGES
13:15	13:30	6	Jörn Scheller, Uwe Starossek DESIGN AND EXPERIMENTAL VERIFICATION OF A NEW ACTIVE MASS DAMPER FOR CONTROL OF PEDESTRIAN-INDUCED BRIDGE VIBRATIONS
13:30	13:45	7	Andrzej Flaga, Michał Polak EFFECTIVENESS OF NON-LINEAR TUNED VISCOUS-PENDULUM DAMPER IN HORIZONTAL VIBRATION REDUCTION OF FOOTBRIDGES
13:45	14:00	8	Christiane Butz, Christian Schuermann, Oliver Benicke TUNED MASS DAMPERS FOR THE FOOTBRIDGE OF VW AUTOSTADT IN WOLFSBURG, GERMANY

Start	End	Parallel session 8	
12:00	14:00	Urban Footbridges II	
		Chairs: Paweł Hawryszków, Bratislav Stipanic	Room: 0.32 / C-13
12:00	12:15	1	John Anderson, Mervyn Lewis, Stephen Agar STEEL CABLE STAYED BRIDGES: ATTRACTIVE STRUCTURES THAT CAN BE DEVELOPED AT AN AFFORDABLE PRICE
12:15	12:30	2	John Anderson, Paul Vink BUIENGRAGT STRUCTURAL STEEL PEDESTRIAN BRIDGE - A CONTINUOUS ASYMMETRIC BOX GIRDER
12:30	12:45	3	W. Victor Anderson, Joanne McCall DESIGN AND CONSTRUCTION OF URBAN FOOTBRIDGES IN CANADA
12:45	13:00	4	Jan Biliszczuk, Tomasz Kamiński, Robert Toczkiwicz THE TECHNICAL DESIGN OF KAZIMIERZ-LUDWINÓW FOOTBRIDGE IN CRACOW
13:00	13:15	5	Robert Beasley OHIO AND ERIE CANAL TOWPATH PEDESTRIAN BRIDGES
13:15	13:30	6	Peter Lyttle, Jesper Henriksen TRADESTON FOOTBRIDGE
13:30	13:45	7	Werner Sobek, Wolfgang Straub, Wolfgang Sundermann AN ELEGANT CONTRIBUTION TO URBAN DESIGN – THE RECONSTRUCTION OF THE JOSEF EBERLE BRIDGE IN ROTTENBURG AM NECKAR
13:45	14:00	8	Enzo Siviero Lorenzo Attolico RARI NANTES FOOTBRIDGE IN PADUA

Start	End	Parallel session 9		
12:00	14:00	Footbridges and Environment III		
		Chairs: Igor Kolyushev, Kazimierz Łatak		Room: 1.30 / C-13
12:00	12:15	1	Josef Schmees, Miroslaw Kubiak, Bartłomiej Karpiński	BETWEEN THE TREETOPS - FOOTBRIDGE IN THARANDT BOTANIC GARDEN
12:15	12:30	2	Malcolm Robert Sutton	A TALE OF TWO FOOTBRIDGES – PROOF THAT A REDESIGN CAN STILL ACHIEVE SIGNATURE STATUS AT AN AFFORDABLE COST
12:30	12:45	3	Carlos Castanon, Alvaro Serrano, Julio Martinez-Calzon	ARGANZUELA HELICOIDAL FOOTBRIDGE OVER THE MANZANARES RIVER
12:45	13:00	4	Mario Guisasaola	VARIABLE DEPTH FOOTBRIDGES
13:00	13:15	5	Rok Mlakar, Viktor Markej	A BRIDGE TO THE CAVE. THE NEW 'MARINIČ' BRIDGE IN THE ŠKOCJAN CAVES PARK IN SLOVENIA
13:15	13:30	6	Manuel Reventós Rovira, Jordi Pascual Gilabert, Guillem Collell Mundet, Juan Carlos Rosa Garcia, Oriol Garcia Arribas	WORKS. ENGINYERIA REVENTÓS.
13:30	13:45	7	Alessio Pipinato	DESIGN OF A NEW FOOTBRIDGE OVER THE ADIGE RIVER
13:45	14:00	8	Thomas Cooper, Brent Whitcomb, Stanley Szabelak	PEDESTRIAN BRIDGE FOR TRANSIT ORIENTED DEVELOPMENT

7th July (THURSDAY)
15:30 – 17:30

Start	End	Parallel session 10		
15:30	17:30	Footbridge Dynamics III		
		Chairs: Ian Ainsworth, Michał Majka		Room: 0.31 / C-13
15:30	15:45	1	Marek Pařatak	DYNAMIC CHARACTERISTICS OF MEDIUM SPAN TRUSS, CABLE-STAYED AND SUSPENSION STEEL FOOTBRIDGES UNDER HUMAN-INDUCED EXCITATION
15:45	16:00	2	Federica Tubino, Giuseppe Piccardo	A LOADING MODEL FOR THE INTERPRETATION OF LATERAL VIBRATIONS OF FLEXIBLE FOOTBRIDGES
16:00	16:15	3	Jaroslav Bęc, Tomasz Lipecki, Andrzej Flaga	AERODYNAMIC ANALYSIS OF TWO FOOTBRIDGES IN CRACOW
16:15	16:30	4	Elsa Caetano, Álvaro Cunha, Luís Cãncio Martins	ASSESSMENT OF RUNNING PEDESTRIAN INDUCED VIBRATIONS ON A STRESS-RIBBON FOOTBRIDGE
16:30	16:45	5	Thomas Canor, Gaëtan Kerschen, Vincent Denoël	VANDALISM PREVENTION OF A FOOTBRIDGE WITH CABLE VIBRATIONS
16:45	17:00	6	Francesco Ricciardelli, Michele Mafřici, Einar T. Ingólfsson	MOTION-DEPENDENT LATERAL WALKING FORCES ON FOOTBRIDGES
17:00	17:15	7	Jan Biliszczuk, Zbigniew Wójcicki, Wojciech Pakos, Janusz Tadla, Jacek Groseł, Wojciech Sawicki	ANALYTICAL AND EXPERIMENTAL DYNAMICAL ANALYSIS OF A CABLE-STAYED FOOTBRIDGE MODEL
17:15	17:30	8	Andrzej Flaga, Marek Pařatak	CASE STUDY OF LIGHTWEIGHT STEEL FOOTBRIDGE VIBRATIONS WITH RESPECT TO OWN VIBRATION COMFORT CRITERIA FOR FOOTBRIDGES

Start	End	Parallel session 11		
15:30	17:30	Investigation, Analysis and Design I		
		Chairs: Heinrich Kreuzinger, Janusz Holowaty		Room: 0.32 / C-13
15:30	15:45	1	Paul Archbold, Brian Mullarney	THE INFLUENCE OF SELECTED GAIT PARAMETERS ON VERTICAL PEDESTRIAN LOADING
15:45	16:00	2	Petr Kocourek, Michal Jurik, Radim Nečas, Jiří Stráský	CURVED STRESS RIBBON AND FLAT ARCH PEDESTRIAN BRIDGES
16:00	16:15	3	Jozef Gocál, Josef Vičan, Marián Sýkora	THEORETICAL AND EXPERIMENTAL ANALYSIS OF TIMBER FOOTBRIDGE
16:15	16:30	4	Radim Nečas, Michala Hrnčířová, Jiří Stráský	FLAT ARCH STIFFENED BY A SUSPENSION CABLE
16:30	16:45	5	Bruno Briseghella, Baochun Chen, Luigi Fenu, Wenjin Huang, Tobia Jordan	TENSEGRITY FOOTBRIDGES WITH ARCH AND STRIGHT DECK: COMPARISON OF THEIR STRUCTURAL BEHAVIOUR
16:45	17:00	6	Schaun Valdivinos	STAWAMUS CHIEF PEDESTRIAN BRIDGE, BRITISH COLUMBIA, CANADA
17:00	17:15	7	Philippe Pécol, Stefano Dal Pont, Silvano Erlicher, Joanna Bodgi, Pierre Argoul	A 2D DISCRETE MODEL FOR CROWD-STRUCTURE INTERACTION
17:15	17:30	8	Tim Black	OPTIMISATION IN FOOTBRIDGE DESIGN

Start	End	Parallel session 12		
15:30	17:30	Operation, Maintenance and Revitalization of Footbridges		
		Chairs: Marek Salamak, Edward Marcinków		Room: 1.30 / C-13
15:30	15:45	1	Manuel Reventós Rovira, Jordi Pascual Gilabert, Guillem Collell Mundet, Jaume Guàrdia Tomàs	FOOTBRIDGES IN BRIDGES
15:45	16:00	2	Charles Redfield, Sajid Abbas	BIKEPATH ON THE SAN FRANCISCO-OAKLAND BAY BRIDGE
16:00	16:15	3	Michel Moussard	WIDENING EXISTING BRIDGES WITH LATERAL FOOTBRIDGES: THE CHALLENGE OF MATCHING OLD AND NEW
16:15	16:30	4	Giancarlo Guadagnini, Maurizio Merli, Giuseppe Musinu	MAINTENANCE AND RESTORATION OF THE MASONRY BRIDGE "PONTE NUOVO" AND CONSTRUCTION OF TWO NEW STEEL FOOTBRIDGES
16:30	16:45	5	Jerzy Onysyk, Jerzy Jasieńko, Mariusz Sułkowski, Jacek Szczepański	REVITALIZATION OF FOOTBRIDGES AS COMPONENTS OF CULTURAL LANDSCAPE
16:45	17:00	6	Enzo Siviero, Alessandro Stocco	NEW FOOTBRIDGE OVER MALONE RIVER IN SAN BENIGNO CANAVESE (TURIN)
17:00	17:15	7	Luca Zanaica, Roberto Zanon	VINTAGE-STYLE LATTICE FOOTBRIDGE IN THE TICINO NATURAL PARK
17:15	17:30	8	Héctor Beade, Guillermo Capellán Miguel, Pablo Alfonso, Santiago Guerra Soto, Mariana Garcia	RECONSTRUCTION OF A STEEL FOOTBRIDGE AT VALLETTA GRAND HARBOUR BREAKWATER (MALTA)

8th July (FRIDAY)
9:00 – 11:00

Start	End	Keynote lectures		
09:00	10:00	Chairs: Krzysztof Żółtowski, Elsa Caetano		Place: Main Hall / A-1
09:00	09:30	K6	Aleksandar Pavic	VERTICAL CROWD DYNAMIC ACTION ON FOOTBRIDGES: REVIEW OF DESIGN GUIDELINES AND THEIR APPLICATION
09:30	10:00	K7	Andrzej Flaga	WIND TUNNEL TESTS AND AERODYNAMICAL CALCULATIONS OF NON-TYPICAL FOOTBRIDGES

Start	End	Plenary session 2		
10:00	11:00	Chairs: Andrzej Flaga, Danuta Bryja		Place: Main Hall / A-1
10:00	10:15	P5	Jan Koláček, Radim Nečas, Jiří Stráský	CURVED CABLE STAYED AND SUSPENSION PEDESTRIAN BRIDGES
10:15	10:30	P6	Qi Ye, Jingang Chen, Guang-Nan Fanjiang, Dayong Jin	DESIGN OF A 3D DOUBLE-HELIX FOOTBRIDGE FOR XINJIN, CHINA
10:30	10:45	P7	Paweł Hawryszków	ANALYSIS OF DYNAMICAL SENSITIVITY AND COMFORT OF FOOTBRIDGES
10:45	11:00	P8	Ian Ainsworth, Kathy Franklin, Peter Burnton	KURILPA BRIDGE – A CASE STUDY

8th July (FRIDAY)
12:00 – 14:00

Start	End	Parallel session 13		
		Innovative Materials in Footbridge Construction		
12:00	14:00	Chairs: Tomasz Kamiński, Daia Zwicky		Room: 0.31 / C-13
12:00	12:15	1	Alessio Pipinato	LIGHTWEIGHT STRUCTURES AND INNOVATIVE MATERIALS FOR FOOTBRIDGES
12:15	12:30	2	Alessandro Adilardi, Salvatore Russo	FIRST CONSTRUCTED FULL COMPOSITE PEDESTRIAN BRIDGE IN ITALY
12:30	12:45	3	Juan A. Sobrino, Arantxa Olmo, Lara Pellegrini, Ricardo Ferraz	DESIGN AND CONSTRUCTION OF HYBRID STEEL AND GFRP FOOTBRIDGES
12:45	13:00	4	Andrey Ushakov, Sergey Ozerov, Alexander Safonov	SPIRAL PEDESTRIAN BRIDGE MADE OF COMPOSITE MATERIALS
13:00	13:15	5	Alistair Oliver	INTEGRATED TIMBER AND STEEL FOOTBRIDGES
13:15	13:30	6	Vitaliy Temirgaliev	ANALYSIS OF POSSIBILITIES OF FOOTBRIDGE CONSTRUCTION APPLYING INNOVATIVE SYNTHETIC MATERIALS
13:30	13:45	7	Markus Hennecke, Georg Kusser	PRE-STRESSED GRANITE BRIDGES: A NEW GENERATION OF GRANITE BRIDGES
13:45	14:00	8	David Greenwold, Simon Fryer, Karl Haglund	DESIGN AND CONSTRUCTION OF THE NORTH BANK BRIDGE

Start	End	Parallel session 14		
12:00	14:00	Investigation, Analysis and Design II		
		Chairs: Maciej Hildebrand, Aleksandar Pavic		Room: 0.32 / C-13
12:00	12:15	1	Sigrid Adriaenssens, Patrick d'Ambrosio	FINDING FORMS FOR FOOTBRIDGES: A DESIGNER'S TOOLBOX
12:15	12:30	2	Allison B. Halpern, Sigrid Adriaenssens	APPLICATION OF SUSTAINABILITY RATING SYSTEMS TO FOOTBRIDGE DESIGN
12:30	12:45	3	Witold Doboszyński, Krzysztof Kania, Marcin Wróbel	INTEGRATED FOOTBRIDGES – IS IT WORTH TO CONTINUE CONSTRUCTING THEM?
12:45	13:00	4	Michał Majka, Michael Carroll	DESIGN ASPECTS OF INTEGRAL FOOTBRIDGES ON EXAMPLE OF THE BROADMEADOW ESTUARY FOOTBRIDGE
13:00	13:15	5	Philip Icke	THE USE OF FINITE ELEMENT ANALYSIS IN THE DESIGN OF FOOTBRIDGES
13:15	13:30	6	Manuel Quagliaroli	AN EXTENDED FORCE DENSITY METHOD FOR THE FORM FINDING OF SUSPENDED PEDESTRIAN BRIDGES
13:30	13:45	7	Mykhailo Malgin, Kostiantyn Medvediev	ANALYSIS OF THE FOOTBRIDGE OF THE BORYSPIL AIRPORT TRAFFIC INTERCHANGE
13:45	14:00	8	Przemysław Kuras, Janusz Rusek, Olga Sukta	DETERMINING THE DYNAMIC CHARACTERISTICS OF FOOTBRIDGES USING GROUND-BASED INTERFEROMETRIC RADAR

Start	End	Parallel session 15		
12:00	14:00	Sponsors' session		
		Chair: Edward Zabawa		Room: 1.30 / C-13
12:00	12:20	1	<i>Redaelli</i>	SPONSOR'S PRESENTATION
12:20	12:40	2	Robert Herceg <i>SOFISTIK</i>	FINITE ELEMENT ANALYSIS WITH SOFISTIK SOFTWARE
12:40	13:00	3	Krzysztof Berger <i>Freyssinet Polska</i>	EUGÈNE FREYSSINET – 100 YEARS OF PRESTRESSING
13:00	13:20	4	Jerzy Onysyk <i>Research and Design Office MOSTY-WROCŁAW</i>	TECHNOLOGICAL ASPECTS OF CONSTRUCTION OF A CONCRETE CABLE-STAYED BRIDGE ALONG THE HIGHWAY RING ROAD OF WROCŁAW

8th July (FRIDAY)
15:30 – 17:00

Start	End	Closing ceremony		
15:30	17:00	Chairs: Jan Biliszczuk, Jan Bień, Wojciech Radomski, Helena Russell, Paweł Hawryszków, Krzysztof Żółtowski		Place: Main Hall / A-1
		15:30	17:30	1
2	Mike Schlaich			CONFERENCE SUMMARY
3	Jan Bień			YOUNG AUTHORS PRIZE
4	Jan Biliszczuk			ANNOUNCEMENT OF FOOTBRIDGE 2014 CONFERENCE ORGANIZER
5	Paweł Hawryszków			ORGANIZING SUMMARY

Detailed Programme of Poster Presentations

7th July (THURSDAY)
11:00 – 12:00

Start	End	Poster presentations 1	
11:00	12:00	Place: Foyer / A-1	
11:00	12:00	1	Paolo Legrenzi, Emanuele Arielli PSYCHOLOGY AND ENVIRONMENT: HOMAGE TO WROCLAW'S FOOTBRIDGES
		2	Kazimierz Flaga, Krystyna Januskiewicz ON THE AESTHETICS AND TECHNICAL EFFICIENCY OF CURRENT ARCHED FOOTBRIDGES
		3	Ewa Maria Kido FOOTBRIDGES UPON THE WATER - AESTHETIC INTEGRATION
		4	Janusz Holowaty THE CONSTRUCTION OF AN ARCH FOOTBRIDGE OVER AN INNER RING-ROAD IN SZCZECIN
		5	Manuel Reventós Rovira, Guillem Collell Mundet, Jaume Guàrdia Tomás, Jordi Pascual Gilabert WORKS IN PROGRESS
		6	Przemysław Pielach, Dariusz Malinowski REALIZATION OF A RECREATIONAL PIER ON THE VISTULA RIVER IN PŁOCK
		7	Grażyna Łagoda, Marek Łagoda FOOTBRIDGE ACROSS VISTULA RIVER BETWEEN KAZIMIERZ DOLNY AND JANOWIEC
		8	Michał Pigoń, Sławomir Biegański, Marek Jagiełło, Roman Höffner THE CABLE-STAYED FOOTBRIDGE NEAR THE EURO 2012 STADIUM IN WROCLAW
		9	Jan Biliszczuk, Piotr Woźny, Hanna Onysyk SEARCH OF SUITABLE ARCHITECTURAL FORM OF FOOTBRIDGES LOCATED IN ATTRACTIVE TOURIST AREAS
		10	Marcin Wrzesiński FOOTBRIDGES ON HYDROTECHNICAL BUILDINGS OF WROCLAW WATERWAY SYSTEM
		11	Krzysztof Kolasa, Mirosław Kubiak IN HARMONY WITH NATURE
		12	Marek Jagiełło, Piotr Wanecki, Tomasz Boniecki CONCEPT OF FOOTBRIDGE CONNECTING SĘPOLNO WITH SZCZYTNIICKI PARK
		13	Kazimierz Łatak, Piotr Lewicki KAZIMIERZ-LUDWINÓW BIKE- AND FOOTBRIDGE OVER THE RIVER VISTULA IN KRAKOW
		14	Bratislav Stipanic, Milos Zivanovic CONCEPT DESIGN PROPOSAL OF PEDESTRIAN-CYCLE BRIDGE ACROSS IBAR RIVER IN KRALJEVO (SERBIA)
		15	Francisco Burgos Ruiz, Ginés Garrido Colmenero, Alejandro Bernabeu Larena LENT-TABOR FOOTBRIDGE, MARIBOR, SLOVENIA
		16	Kazimierz Łatak, Piotr Lewicki LENT - TABOR BIKE- AND FOOTBRIDGE ON THE DRAVA IN MARIBOR
		17	Tomasz Piotrowski FAIRMONT PEDESTRIAN BRIDGE, CITY OF FAIRMONT, WV
		18	Tomasz Siwowski, Artur Wysocki THE CIRCULAR FOOTBRIDGE IN THE CITY CENTER

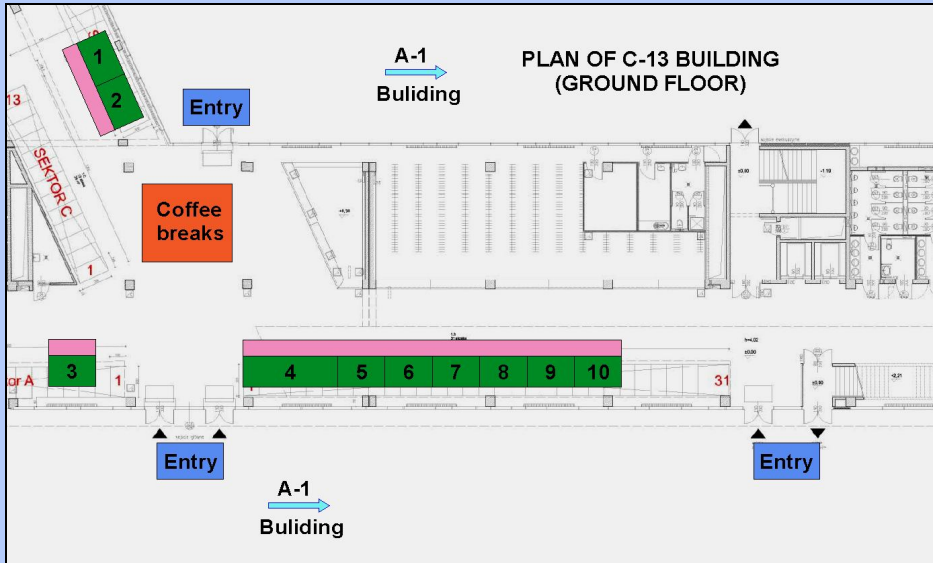
8th July (FRIDAY)

11:00 – 12:00

Start	End	Poster presentations 2	
11:00	12:00		Place: Foyer / A-1
11:00	12:00	1	Enzo Siviero, Fabrizia Zorzenon PALESTRO CICLABILE: A PROJECT OF URBAN REGENERATION IN PADUA
		2	Pat Moore, Job Schroën, Sander Den Blanken THE CONCEPTUAL DESIGN OF THE PONTE PALAZZO
		3	Enzo Siviero, Lorenzo Attolico TRANSFORMATION OF THE CITY OF PADUA FOR THE BENEFIT OF "WEAK" USERS: FOOTBRIDGE OVER SAN GREGORIO CHANNEL (PADUA, ITALY)
		4	Andrzej S. Nowak, Anna M. Rakoczy LIVE LOAD MODEL FOR PEDESTRIAN BRIDGES
		5	Piotr Bętkowski ON A METHOD OF ESTIMATING FLEXIBILITY OF STRANDS OF CABLE-STAYED FOOTBRIDGES
		6	Anna Makarova, Viktorija Volkova THE INVESTIGATION OF THE DEFLECTED MODE OF SPAN STRUCTURES
		7	Lee Franck, Aurelio Muttoni DEVELOPMENT AND DESIGN OF AN INNOVATIVE OPENING MECHANISM FOR A FOOTBRIDGE
		8	Hendrik Blonrock MOVEABLE PEDESTRIAN BRIDGE AT BRUSSELS
		9	Yanwen Xiao, Xin Ruan CONCEPTUAL DESIGN OF A NEW MOVABLE SPANNING STRUCTURE PROTOTYPE WITH ADJUSTABLE UNDER-CLEARANCE
		10	Peter Curran, Steve Thompson MEDIA CITY FOOTBRIDGE, SALFORD QUAYS
		11	Jan Bień, Mieszko Kuźawa DETERIORATION OF FOOTBRIDGES
		12	Jesús de Sebastián, Iván M. Díaz, Carlos M. Casado, Ali Vasallo, Alfonso V. Poncela, Antolín Lorenzana ENVIRONMENTAL AND CROWD INFLUENCE ON THE DYNAMIC BEHAVIOUR OF AN IN-SERVICE FOOTBRIDGE
		13	Enzo Siviero, Alessandro Stocco EXECUTIVE EXTREMELY URGENT PROJECT FOR THE REHABILITATION OF VEHICULAR AND PEDESTRIAN TRAFFIC OF THE BRIDGE OVER CORACE RIVER IN GIMIGLIANO MUNICIPALITY
		14	John Bourke, Su Taylor, Des Robinson PRECAST CONCRETE ARCH FOOTBRIDGES USING THE FLEXIARCH™ SYSTEM
		15	Józef Rabiega, Janusz Tadla SUSPENSION FOOTBRIDGE OVER MAŁA PANEW IN KRUPSKI MŁYN
		16	Viktorija Volkova BRIDGE HEALTH MONITORING USING NONLINEAR APPROACHES: QUALITATIVE IDENTIFICATION
		17	Albert Lantoukh- Liashchenko MARKOV CHAIN MODELS FOR THE RESIDUAL SERVICE LIFE PREDICTION OF BRIDGES
		18	Jan Biliszczuk, Maciej Hildebrand, Hanna Onysyk EXPERIENCE IN STRUCTURAL MONITORING OF SELECTED LARGE BRIDGES AND ITS POSSIBLE APPLICATION FOR FOOTBRIDGES

Exhibition

Plan of Exhibition Area



List of Exhibitors

1	 IABSE	6	 Redaelli
2	 Bridge DESIGN & ENGINEERING	7	 LUSAS Bridge Analysis Software
3	 FIBERLINE COMPOSITES	8	 PFEIFER Seilbau Cable Structures
4	 FREYSSINET	9	 MAURER SÖHNE forces in motion
5	 SOFiSTiK FINITE ELEMENT SOFTWARE	10	 ANKER SCHROEDER

Evening Events



Welcome reception

Place: **WUT A-1** Date: **5th July (TUESDAY)** Time: **19:30 - 22:00**

- Registration
- Welcome of participants
- Snacks and drinks
- Concert (string trio, piano quartet)



Footbridge awards

Place: **Town hall** Date: **6th July (WEDNESDAY)** Time: **19:30 - 22:00**

- Footbridge Awards
- Snacks and drinks
- Concert (harp)



Gala dinner

Place: **Centennial hall** Date: **7th July (THURSDAY)** Time: **19:30 - 00:00**

- Gala dinner
- Concert (jazz trio, cello)
- Multimedia fountain show

Excursions



Wrocław sightseeing

Additional programme for accompanying persons and participants of the Conference interested in Wrocław sightseeing. Two options are available: sightseeing using special vehicles (6th July) or cruise on the Odra River (7th July). A guide will be accompanying during the sightseeing.

Date: **6th and 7th July (WEDNESDAY and THURSDAY)**

Cost: **40 EUR / 160 PLN**

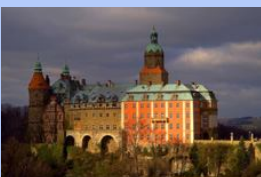


Technical visit

Technical visit will be organised for interested Conference participants and accompanying persons on the construction site of the second longest cable-stayed bridge in Poland.

Date: **9th July (SATURDAY)**

Cost: **FREE**



Książ Castle sightseeing

Conference participants could take the opportunity Książ Castle sightseeing, which is located close to Wrocław and is one the most beautiful baroque buildings in Poland.

Date: **9th July (SATURDAY)**

Cost: **60 EUR / 240 PLN**

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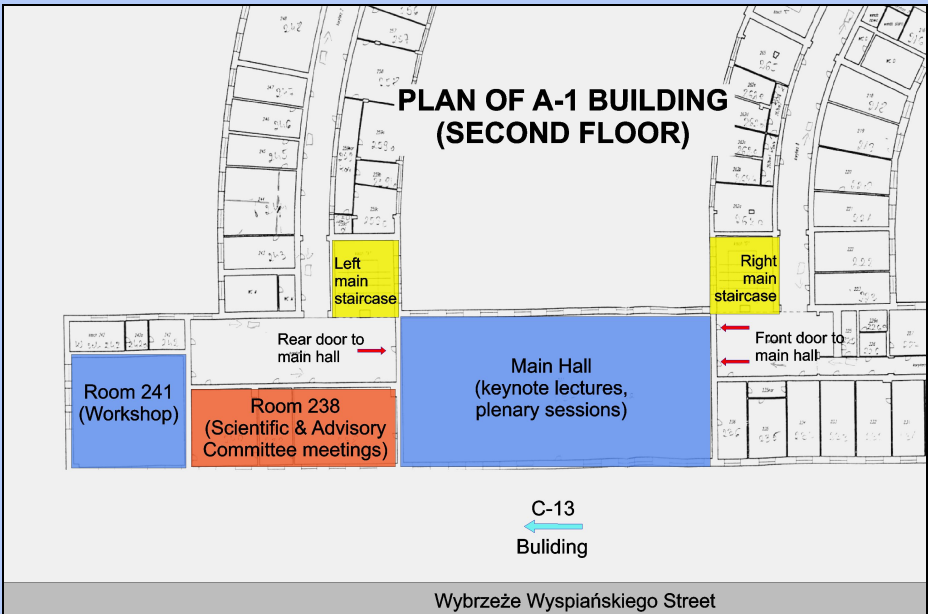
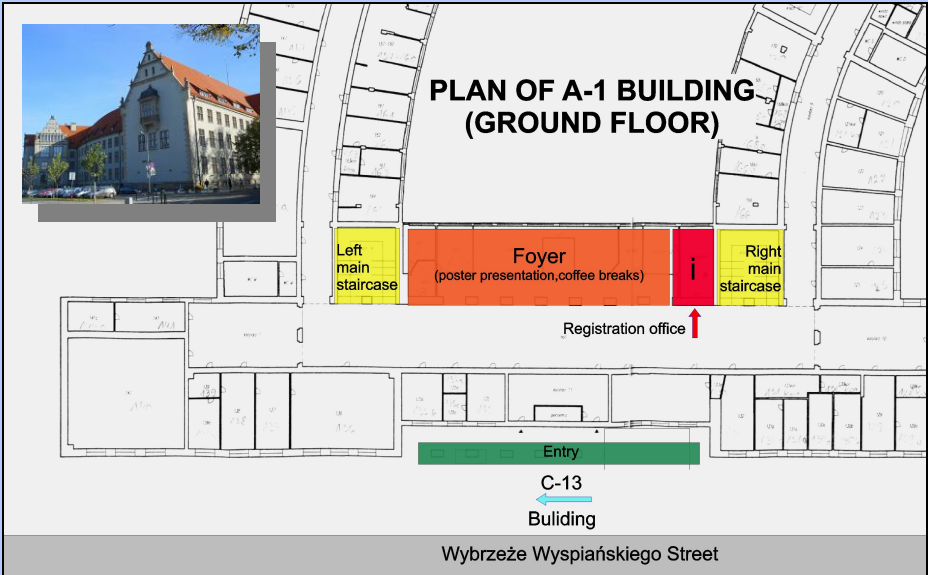


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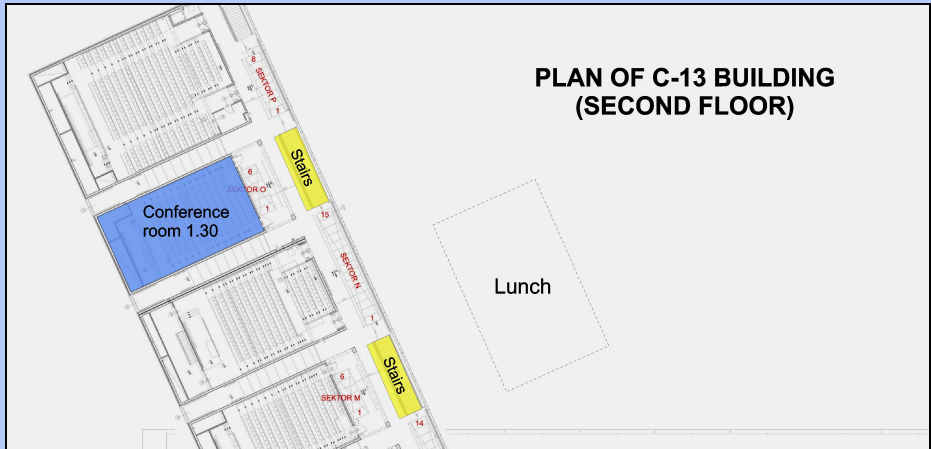
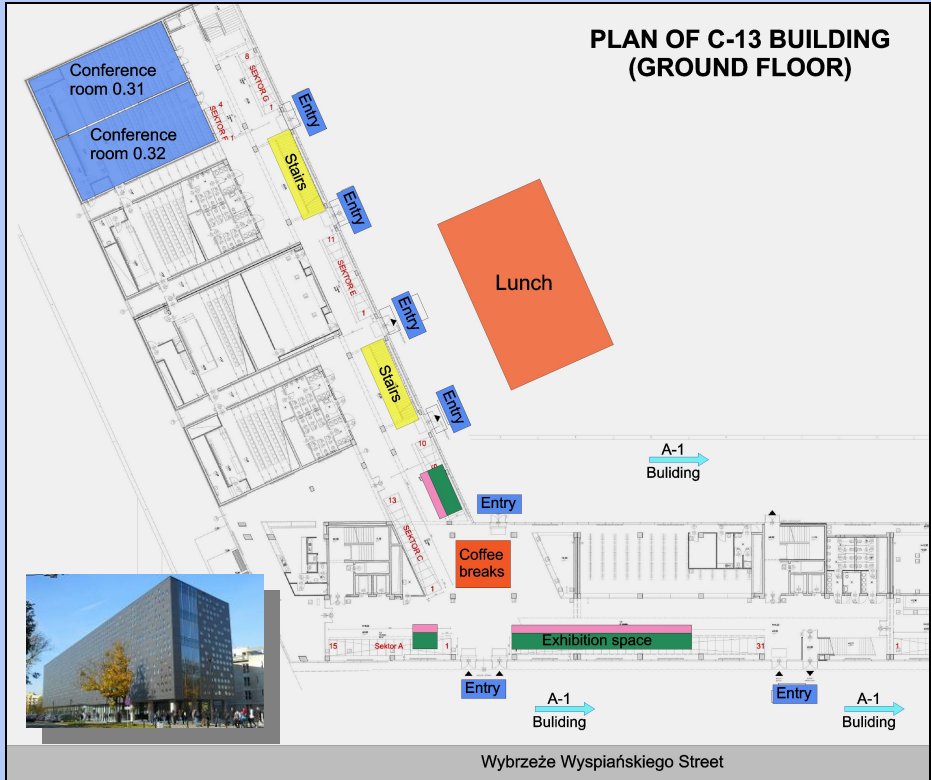


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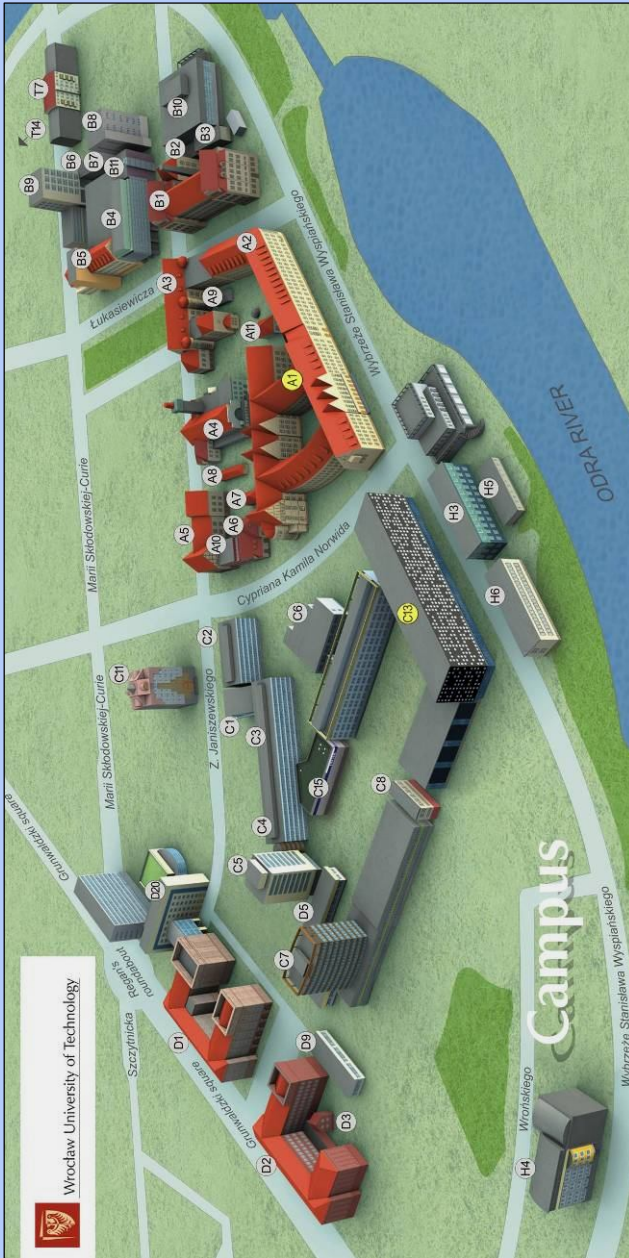
Plan of A-1 Building



Plan of C-13 Building



Plan of WUT Campus



Plan of Wrocław Centre

