



SHÁTIS'17

4TH INTERNATIONAL CONFERENCE ON
**STRUCTURAL HEALTH ASSESSMENT
OF TIMBER STRUCTURES**

FINAL PROGRAM

September 20 - 22, 2017 Istanbul, Turkey

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FINAL PROGRAM

TUESDAY
SEPTEMBER 19, 2017
09:00 – 17:50

Seminar on Timber Structures

Yıldız Technical University, Beşiktaş Campus Auditorium

8.30-09.30	Registration	
9.30-11.20	Inspection and Diagnosis of the failures (problems) in Timber Structures - <i>Eleftheria Tsakanika</i>	
11.30-13.20	Structural analysis and member verification (including software use, simple representation of seismic loads, ULS and SLS from software results) - <i>Roberto Tomasi</i>	
13.20-14.30	Lunch in YTU Çatı Restaurant	
14.30-16.20	Connection assessment and design (including traditional ones) - <i>Elisa Poletti</i>	SHATIS'17 Registration
16.30- 18.20	Repair and strengthening techniques - <i>Jorge Branco</i>	
18.30-19.00	Transfer to the reception area Bus to Çadır Köşk will start in front of the YTU auditorium	
19.00-22.00	Welcome Reception in Çadır Köşk, Yıldız Park	

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WEDNESDAY
SEPTEMBER 20, 2017

Yıldız Technical University, Beşiktaş Campus
a- Auditorium & b- Exhibition Hall

08.30-09.30	Registration
09.30-10.00	Session 1.1 Opening Session (a- auditorium)
10.00-10.40	Keynote Lecture: Structural Development of Earthquake-Resistant Timber Buildings in the Light of Archaeological Findings in Anatolia – <i>Hülya Dışkaya</i>
10.40-11.20	Keynote Lecture: Timber 2.0: Resilience and Vulnerability of Wood Construction in Earthquakes and Fires - <i>Randolph Langenbach</i>
11.20 – 11.50	Coffee Break
11.50-13.30	Session 1.2a–Timber framed structures - Cultural Identity and Resilience Chairperson: Deniz Mazlum
11.50-12.10	Insight into the Traditional Timber Frame Walls: Herculaneum Evidence versus Braced Frame Structures in Portugal and in Italy - <i>Stefania Stellacci</i>
12.10-12.30	Historic Timber Frame Structures: A Comparison of Different Constructive Systems and Their Resistance to Seismic Actions - <i>Elisa Poletti, Andreea Dutu, Nicola Ruggieri, Florent Vieux-Champagne</i>
12.30-12.50	Seismic analysis of timber frames and various infills in Romania - <i>Eliza Bulimar, Andreea Dutu, Daniel Ioan Dima, Razvan Ietan</i>
12.50-13.10	Timber Structures in Georgian Cultural Heritage (For Case of Southern Georgia, Region Samtskhe-Javakheti) - <i>A. Tamar Khoshtaria, B. Nino Chachava, C. Malkhaz Lekveishvili</i>
13.10-13.30	An Eighteenth Century Postal Palace of August III in Kutno – Its Original Architecture and Half-Timbered Frame Construction - <i>Ulrich Schaaf</i>
11.50-13.30	Session 1.2b– Safety Assessment of Timber Structures Chairperson: Meltem Vatan Kaptan
11.50-12.10	Structural Interaction of Tower with Walls and Flying Buttress System in Historic Church, <i>Marcin Szkobodziński, Czesław Miedziałowski, Jarosław Malesza</i>
12.10-12.30	Experimental and Numerical Investigations on Timber-Concrete Connections with Inclined Screws - <i>Beatrice Berardinucci, Simona Di Nino, Amedeo Gregori, Massimo Fragiaco, Franco Moar</i>
12.30-12.50	Assessment of the Structural Performance of a Norwegian Historic Timber Structure: Værnes Church - <i>Filippo Frontini, Jan Siem, Dag Nilsen</i>
12.50-13.10	Load-Bearing Capacity of Historic Timber with Focus on the Wood Corrosion - <i>Wolfgang Rug, Gunter Linke</i>
13.10-13.30	Evaluation of the Constructive Material Features of a Medieval Timber Framing in Arquata Scrivia “Gothic House”- <i>Macario Lucia, Ruggeri Nicola, Stagno Gerolamo, Vecchiattini Rita</i>
13.30-14.30	Lunch in YTU Çatı Restaurant
14.30-15.50	Session 1.3 Historic Structures Keynote Lectures (a- auditorium) Chairperson : Ünal Akkemik
14.30-15.10	Construction Systems of Timber Structures in China and Italy: A First Comparison of Conservation Approaches - <i>Shiruo Wang, M. Rosa Valluzzi, Claudio Modena</i>
15.10-15.50	Yenikapı Byzantine Shipwrecks, Istanbul, Turkey- <i>Ufuk Kocabay</i>
16.00- 18.00	Visit Laboratory of “Sunken Ships of Byzantine” Bus will depart at 15.45 from YTU Auditorium

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THURSDAY
SEPTEMBER 21, 2017

Yıldız Technical University, Beşiktaş Campus
a- Auditorium & b- Exhibition Hall

09.30–10.50	Session 2.1 – Keynote Lectures (a- auditorium) Chairperson : <i>Zeynep Ahunbay</i>
09.30-10.10	Persian Wooden Structures: Challenges in Repair, Strengthening and Restoration – <i>Mehrdad Hejazi</i>
10.10-10.50	The Venetian Floor of the “Bailo Building” in Chalcis, Greece; Deciphering Its Lost Construction Details - <i>Eleftheria Tsakanika, Panagiota Taxiarchi, Yorgos Kourmadas</i>
10.50-11.20	Coffee Break
11.20-13.00	Session 2.2a – Traditional Practices Chairperson: <i>Mehrdad Hejazi</i>
11.20-11.40	The Expansion of Mansard Roofs Accross Europe in 18th Century - <i>Krzysztof Atykow, Magdalena Napiórkowska-Atykow</i>
11.40-12.00	The timber roof of the Aula Magna of the University of Pavia - <i>Marco Morandotti, Emanuele Zamperini, Valentina Cinieri, Simone Lucenti</i>
12.00-12.20	The Typology of the Historical Timber Bridges of Turkey - <i>Süheyla Yılmaz, Halide Sert, N. Apaydın</i>
12.20-12.40	Structural and Ornamental Use of Timber in Hagia Triada Church, Ayvalık - <i>Gökhan Okumuş, Nurşah Cabbar, Merve Öztürk, Azime Aladağ, Cansu Ekici, Merve Gökcü, Miray Kisaer, Fuat Gökçe, Nimet Özgönül, Özgün Özçakır</i>
12.40-13.00	The Ottoman House / Evaluation of Structure and Form - <i>Ibrahim Canbulat</i>
11.20-13.00	Session 2.2b – Experimental Methods and Tests Chairperson: <i>Marius Mosoarca</i>
11.20-11.40	Estimation of Timber Members' Properties Combining Direct and Indirect Information: Two Applications - <i>Dulce Henriques, Ana Cândido</i>
11.40-12.00	Monitoring Method Analysis for Effective Measure of Wooden Architectural Heritage - <i>Ha Na Lee, A. Dai Whan, K. Hwan Chol, Y. Hyun Woo, K. Dong Yeol</i>
12.00-12.20	Characteristics and Evaluation of Termite Damage to Historical Wooden Buildings in South Korea - <i>Kim Si Hyun</i>
12.20-12.40	Damage Evolution in Wood under Tensile Loading Monitored by Acoustic Emission - <i>Imen Yahyaoui, Marianne Perrin, Xiaojing Gong, Hang Li</i>
12.40-13.00	Rapid In-site Survey and Assessment Method for Structural Members in Traditional Chinese Timber Structure - <i>Chao Gao, Juan Wang, Y. Qing Shan</i>
13.00-14.30	Lunch in YTU Çatı Restaurant

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THURSDAY
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14.30-16.30	Session 2.3 – Keynote Lectures Chairperson: <i>Hülya Dışkaya</i>
14.30- 15.10	Assessment of Timber Structures. Looking to the past to plan the future - <i>Jose Saporiti Machado</i>
15.10- 15.50	Numerical Modelling of the Cyclic Behaviour of Timber-Framed Structures using OpenSees - <i>Elisa Poletti, Graça Vasconcelos, Hugo Rodrigues, Relja Lukic,</i>
15.50-16.20	Coffee Break
16.20-18.00	Session 2.4a- Experimental Methods and Tests Chairperson: <i>Stephen Kelley</i>
16.20-16.40	Assessment of the Jupiter Joint's In-plane and Out-of-plane Mechanical Behaviour under Combined Actions - <i>Elena Perris, Martin Kessel, Michele Paradiso, Mike Seiders</i>
16.40-17.00	Indirect Sonic Stress Waves Method to Predict the Cross-Sectional Variation of Bending Modulus of Elasticity of a Timber Member - <i>Maria Jesus Morales Conde, Jose Saporiti Machado</i>
17.00-17.20	Moisture Content Monitoring in Glulam Structures by Embedded Sensors - <i>Hang Li, Marianne Perrin, Florent Erma, Xavier Jacob, Vincent Gaybait</i>
17.20-17.40	The Analysis of the Long-Term Structural Health Monitoring of a Typical Ancient Tibetan Building - <i>Tin Guo, Na Yang,</i>
17.40-18.00	Strengthening of Traditional Buildings with Slim Panels of Cross-Laminated Timber (CLT) - <i>Anders Bruno, Francesco Boggier, Anders Steamship Nygård, Roberto Tomasi</i>
16.20-18.00	Session 2.4b – Traditional Practices Chairperson : <i>Anna Rosanska</i>
16.20-16.40	Sacred Architecture in Montenegro - Case Study: Dobrilovina Monastery - Church of Saint George (1609) and Kučanska Mosque (1797) - <i>Igbala Šabović Kerović, Biljana Šćepanović</i>
16.40-17.00	Timber Vernacular Architecture Examples in the Historic Center of Lagos: A Global Survey - <i>Laura Félix, Mariana Correia, and Arthur Feio</i>
17.00-17.20	Port Said's Historic City Centre – Pecularity versus Metamorphosis- <i>Sara Fouad</i>
17.20-17.40	A Complex Assessment of Historic Roof Structures - <i>Alexandra-Iasmina Keller, Marius Mosoarca</i>
17.40-18.00	Surface Coatings of Exposed Timber Elements in the Second Half of the Nineteenth Century in Ottoman Istanbul - <i>Damla Acar</i>
18.00-19.00	Walk to Beşiktaş Port for Boat Tekne 14
19.30-23.00	Gala Dinner- on Boat Tekne 14

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FRIDAY
SEPTEMBER 22, 2017

Yıldız Technical University, Beşiktaş Campus
a- Auditorium & b- Exhibition Hall

09.30–10.50	Session 3.1 – Keynote Lectures Chairperson: Andreea Dutu
09.30-10.10	Safety Assessment and Strengthening of Ica Cathedral in Peru: The Hidden Timber Skeleton - <i>Paulo B. Lourenço, Maria Pia Ciocci, and Satyadhrik Sharma</i>
10.10-10.50	Single Step Joint Design and Reinforcement with Self-Tapping Screws - <i>Maxime Verbist, Jorge Branco, Elisa Poletti, Thierry Descamps, Paulo Lourenço</i>
10.50-11.20	Coffee Break
11.20-13.00	Session 3.2a – Structural Evaluation of Timber Structures Chairperson : Gülay Altay
11.20-11.40	Numerical Study on the In-plane Behaviour of Existing Timber Diaphragms Strengthened with Diagonal Sheathing - <i>Ermes Rizzi, Mirko Capovilla, Ivan Giongo, Maurizio Piazza</i>
11.40-12.00	Effect of Queti-Inclination on Mechanical Properties of Typical Tibetan Timber Beam-Column Joint - <i>Qin Shujie, Yang Na</i>
12.00-12.20	Predicting Mechanical Properties of Timber Elements by Regression Analysis Considering Multicollinearity of Non-Destructive Test Results - <i>Hélder S. Sousa, Jorge M. Branco, José S. Machado and Paulo B. Lourenço</i>
12.20-12.40	Structural Assessment of Timber Hanging Truss in Salt Magazines in Pag - <i>Juraj Pojatina, David Anđić, Hrvoje Turkulin, Marin Hasan</i>
12.40-13.00	Residual Life Prediction of Ancient Timber Components Based on Cumulative Damage Model: A Literature Review - <i>Wang Zhongcheng, Yang Na</i>
11.20-13.00	Session 3.2b – Experimental Methods and Tests Chairperson :
11.20-11.40	Seismic Behavior of a Two Story House from the Historical Center of Lima – A Mixed System adobe masonry and quincha system.
11.40-12.00	Determination of Bearing Strength of Wood Peg Connection - <i>Gi Young Jeong, Jin Hyuk Kong</i>
12.00-12.20	Historical Building with Timber Frame in the Liguria Region: an Inventory Proposal- <i>Bruzzone Anna, Forte Riccardo, Gelvi Silvia, Mor Giorgio, Pittaluga Daniela, Ragazzo Felice, Ruggieri Nicola, Secondini Linda, Stagno Gerolamo, Togni Marco</i>
12.20-12.40	Reconstruction of a Wooden "Polish Manor" with the Use of Solid Wood Layered Floors - <i>Anna Rozanska, Anna Policinska - Serwa, Wojciech Korycinski, Piotr Beer</i>
12.40-13.00	Recent Developments in Remedial and Non-Pressure Wood Protection Systems: Boron-based Compounds - <i>S. Nami Kartal, Evren Terzi</i>
13.00-14.30	Lunch in YTU Çatı Restaurant

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13.10-14.00	Lunch
14.30-16.30	Session 3.3 – Keynote Lectures Chairperson: <i>Paulo Lourenço</i>
14.30- 15.10	In Progress Restoration of the Golden Palace Monastery in Mandalay, Myanmar - <i>Stephen J. Kelley</i>
15.10- 15.50	“Damage and Restoration of Heritage Structures of Timber, Great East Japan Earthquake of 2011 and Kumamoto Earthquake of 2016” <i>Toshikazu Hanazato</i>
15.50-16.20	Coffee Break
16.20-18.00	Session 3.3 – Intervention, Restoration and Prevention Chairperson: <i>Paulo Lourenço</i>
16.20-16.40	Restoration Principles, Design and Practice – a Case Study from Safranbolu, the UNESCO World Heritage City - <i>Ibrahim Canbulat</i>
16.40-17.00	Seismic Performance Evaluation of Traditional Quincha Panels using the Capacity Spectrum Method- Daniel Torrealva, Marcio Silva
17.00-17.20	Architectural Historic Wooden Preservation in Japan: Documentation and the Dissemination of Knowledge- <i>Tanya Park</i>
17.20-17.40	Conservation and Restoration of Brazilian colonial architecture
17.40-18.00	The timber roof of the Basilica of San Michele Maggiore in Pavia
18.00-18.30	Closing Session

SATURDAY
SEPTEMBER 23, 2017

Meet at Beşiktaş IDO Port at 07.00

Sponsors



TÜBİTAK

TÜRKİYE BİLİMSEL VE TEKNOLOJİK ARAŞTIRMA KURUMU
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