

Chairs of the sessions

Saturday 2nd of September

- A. 8:00-9:00** C. Chalioris, T. Rousakis, T. Makrogiannopoulos, A. Ilki, E. Efthimiou, P. Lazaridis, V. Vanian, M. Papasimakopoulou, M. Papageorgiou, T. Gaintatzis, E. Kaloudaki, E. Chaitas, V. Michail, Z. Xatziparaskeva, C. Vekdimitriadis, M. Kyrka, M. Papageorgiou, T. Fanaradelli, C. Kargidou, M. Karabini, M. Pandi, D. Tsirigoti, I. Kavvadias, Z. Skouteli, G. Karasakalidis, A. Thomoglou, I. Maragkou, A. Karfaki, K. Chatzigrivas, P. Kitou,
- A. 9:00-10:00** A. Ilki, C. Chalioris, T. Rousakis, M. Papasimakopoulou, I. Kavvadias, T. Gaintatzis, E. Kaloudaki, E. Chaitas, V. Michail, Z. Xatziparaskeva, C. Vekdimitriadis, M. Kyrka, M. Papageorgiou, C. Kargidou, Z. Skouteli, G. Karasakalidis, P. Lazaridis, V. Vanian, I. Maragkou, A. Karfaki, P. Kitou,
- A. 10:20 -11:20** A. Kwiecien, Z. Rakicevic, A. Bogdanovic, E. Efthimiou, M. Papasimakopoulou, P. Inci, D. Lau, E. Golias, E. Chaitas, T. Makrogiannopoulos, S. Doulgeraki, S. Plastara, A. Padaka, E. Papadopoulos, M. Teza, E. Seckin, E. Coskun, A.M. Turk, P. Lazaridis
- A. 11:40-13:00** A. Ilki, A. Elenas, I. Kavvadias, K. Tsongas, M. Kyrka, C. Vekdimitriadis, M. Pandi, S. Papadopoulou, T. Rousakis, P. Lazaridis, V. Vanian, P. Spyridis, M. Naoum, E. Anagnostou, E. Efthimiou, M. Kalivas, A. Thomoglou
- A. 13:10 – 13:55** A. Ilki, Y.F. Wu, Z. Rakicevic, P. Inci, I. kavvadias, D. Tsirigoti, A. Yfantidou, O. Karalagia, M. Kalivas, T. Rousakis, P. Lazaridis, C. Vekdimitriadis, M. Kyrka, I. Maragkou, A. Karfaki, P. Kitou,
- A. 15:30-16:30** V. Vanian, J. Jiang, P. Nouri, M. Papageorgiou, M. Pandi, S. Papadopoulou, D. Tsirigoti, C. Kargidou, M. Papageorgiou, A. Kosta, MP Macha,
- A. 16:50-17:50** V. Vanian, T. Rousakis, P Lazaridis, T. Fanaradelli, M. Karabini, E. Golias, M. Papageorgiou, C. Kargidou, C. Vekidimitriadis, G. Mallinis, M, Voutetaki, A. Tsantekidis, O. Karalagia, K. Demertzis, L. Vasiliadis, L. Iliadis
- A. 18:10-18:40** V. Vanian, K. Kouravelou, T. Rousakis, P Lazaridis, T. Fanaradelli, M. Karabini, C. Kargidou, C. Vekidimitriadis, C. Chalioris, L. Iliadis, A. Elenas, B. Papadopoulos, A. Konguetsof, D. Tsirigoti, I Kavvadias, I. Maragkou, A. Karfaki, P. Kitou, A. Kosta, MP Macha, P. Spyridis
- A. 18:50-19:30** K. Bergmeister, V. Vanian, P. Spyridis, A. Kosta, MP Macha, T. Rousakis, P Lazaridis, V. Kytinou, A. Zapriss, C. Kargidou, Z. Skouteli, C. Vekidimitriadis, P. Spyridis, A. Strauss. P. Lazaridis, P. Spyridis
- B. 15:30 -16:30** A. Viskovic, D. Radogna, A Sapalidis, K. Papatheodorou, N. Theodoulidis, N. Klimis, C. Zulfikar, S. Valkaniotis, G. Panagopoulos, M.J. Munir, D. Bountas, Matsala, C. Karakostas, G. Papathanassiou, P. Lazaridis, I. Kavvadias,

C. 15:30 -17:10 A. Konguetsof, B. Papadopoulos, D. Grammatikopoulos, F. Gkountakou, G. Souliotis, A. Daniilidou, V. Kytinou, A. Zapris, V. Navrozidis, P. Tzitzos, G. Kougioumtzis, K. Efthimiadis, M.V

Sunday 3rd of September

10:00 – 11:30 D. Tsirigoti, I. Kavvadias, M. Karabini, C. Vekidimitriadis,

A. 12:00-13:40 D. Tsirigoti, A. Constantinidis, A. Topalidis, K. Bantilas, C. Karayannis, A. Elenas, M. Karabini, S. Kavitha, A. Papageorgiou, L Lolos, A. Mpalaskas, T. Matikas A. Ilki, C. Chalioris, M. Papasimakopoulou, I. Kavvadias, T. Gaintatzis, E. Kaloudaki, E. Chaitas, V. Michail, Z. Xatziparaskeva, V. Vanian, F. Nestoridou, A. Thomoglou

A. 13:50-14:20 A. Kwiecien, D. Tsirigoti, A. Constantinidis, A. Topalidis, K. Bantilas, C. Karayannis, A. Elenas, M. Karabini, S. Kavitha, A. Papageorgiou, L Lolos, A. Mpalaskas, T. Matikas A. Ilki, C. Chalioris, M. Papasimakopoulou, I. Kavvadias, T. Gaintatzis, E. Kaloudaki, E. Chaitas, V. Michail, Z. Xatziparaskeva, K. Kouravelou, T. Rousakis, M. Papageorgiou, V. Vanian E. Siakas, M. Pandi

A. 15:30-16:50 P. Tzitzos, A. Kothalis, T. Rousakis, V. Navrozidis, G. Kougioumtzis, K. Efthimiadis, M.A. Karabini, A.J. Karabinis, C.G. Karayannis, P. Karatzoglou, V. Michail, Z. Xatziparaskeva, V. Vanian, E. Siakas, M. Falara, A. Konguetsof, B. Papadopoulos

A. 17:00-19:00 I. Kavvadias, A. Ilki, T. Rousakis, M. Constantinou, D. Tsirigoti, K. Bantilas, C. Karayannis, A. Elenas, M. Karabini, S. Kavitha, A. Papageorgiou, C. Chalioris, M. Papasimakopoulou, T. Gaintatzis, E. Kaloudaki, E. Chaitas, V. Michail, Z. Xatziparaskeva, M. Papageorgiou, V. Vanian, P. Lazaridis, F. Nestoridou, A. Kosta, MP Macha, P. Spyridis

A. 19:10-20:10 I. Kavvadias, T. Rousakis, D. Dimitriou, K. Bantilas, C. Karayannis, A. Elenas, M. Karabini, L. Iliadis, P. Lazaridis, A. Papageorgiou, C. Chalioris, M. Papasimakopoulou, E. Kaloudaki, E. Chaitas, V. Michail, Z. Xatziparaskeva, M. Papageorgiou, M. Pandi, A. Kosta, MP Macha

B. 12:00-13:40 P.K. Moumtzakis, K.P. Moumtzakis, K. Moumtzakis, M. Papageorgiou, C. Vekidimitriadis, K. Douloukitakis, M. Karabagli, P. Mousikas, Z. Sirmou, D. Christoforidis, G. Karasakalidis, P. Lazaridis, P. Karatzoglou, I. Maragkou, A. Karfaki, P. Kitou,

B. 15:30-16:30 Z. Sirmou, E. Paraschaki, F. Skoupoura, P. Mousikas, T. Tsalkatidis.
Tsirigoti, S. Kavitha, A. Mpalaskas, M. Papasimakopoulou, E. Kaloudaki, E. Chaitas, M.
Kyrka, M. Papageorgiou, C. Vekdimitriadis, P. Lazaridis

C. 12:00-13:40 L. Melidis, G.C. Manos, D. Mpares, L. Kotoulas, K. Katakalos, D. Nikolaidis,
S. Tastani, Stefanos Tsoukas, K. Douloukitakis, M. Karabagli, P. Mousikas, M.C. Naoum, N.A.
Papadopoulos, G. Sapidis, M. Voutetaki and C.E. Chalioris, V. Kytinou, A. Zaprís, C.
Kargidou, Z. Skouteli,

Monday 4th of September

- A. 8:30-9:00** C. Chalioris, T. Rousakis, T. Makrogiannopoulos, A. Ilki, E. Efthimiou, P.
Lazaridis, V. Vanian, M. Papasimakopoulou, M. Papageorgiou, T. Gaintatzis, E. Kaloudaki,
E. Chaitas, V. Michail, M. Papageorgiou, T. Fanaradelli, C. Kargidou, M. Karabini, D.
Tsirigoti, I. Kavvadias, Z. Skouteli, G. Karasakalidis, A. Thomoglou
- A. 9:00-10:00** A. Matzarakis, A. Ilki, C. Chalioris, T. Rousakis, I. Kavvadias, V. Michail, M.
Papageorgiou, C. Kargidou, Z. Skouteli, G. Karasakalidis, P. Lazaridis, V. Vanian, I.
Maragkou, A. Karfaki, P. Kitou,
- A. 10:20 -11:20** D. Tsirigoti, P. Fokaides, T. Klitou, P.Z. Georgali, A. Papadopoulos, A.
Lagarias, Z. Skouteli, G. Karasakalidis, A. Konguetsof, B. Papadopoulos
- A. 11:40-12:10** I. Dokas, A. Matzarakis, A. Elenas, I. Kavvadias, S. Papadopoulou, T. Rousakis,
P. Lazaridis, A. Thomoglou, A. Sapolidis, , V. Michail, M. Papageorgiou, C. Kargidou, P.
Xystris
- A. 12:30-13:30** E. Palaiokastritis, Faidra Givannaki, Ioannis Nerantzis, N. Klimis , K.
Papatheodorou, S. Valkaniotis, El. Petala , G. Papathanassiou and J. Gkiougkis, VV Lepov,
V. Michail, M. Papageorgiou, C. Kargidou, A. Konguetsof, B. Papadopoulos
- A. 16:15-16:50** A. Fam, I. Kavvadias, S. Papadopoulou, T. Rousakis, P. Lazaridis, A.
Thomoglou, A. Sapolidis, , V. Michail, M. Papageorgiou, C. Kargidou, Z. Skouteli, G.
Karasakalidis, C. Vekidimitriadis, V. Vanian, K. Bantilas, M. Karabini, T Fanaradelli, E.
Anagnostou
- A. 17:00-18:00** A. Fam, I. Kavvadias, S. Papadopoulou, T. Rousakis, P. Lazaridis, A.
Thomoglou, A. Sapolidis, , V. Michail, M. Papageorgiou, C. Kargidou, Z. Skouteli, G.
Karasakalidis, C. Vekidimitriadis, V. Vanian, K. Bantilas, M. Karabini, T Fanaradelli, E.

Anagnostou, M. Naoum, E. Golias, C. Chalioris, A. Zapris, G. Sapidis, V. Kytinou, P. Xystris

B. 10:20 -11:20 *M. Gams, N. Gattesco, E. Rizzi, I. Boem, A. Dudine, M. Karabini, T. Rousakis, I. Kavvadias, V. Michail, M. Papageorgiou, C. Kargidou, P. Lazaridis, Marco Di Ludovico, Ciro Del Vecchio, Andrea Prota, Boris Azinović*

B. 12:30-13:30 *C. Goksu, M. Vassiliou, N.K. Stamataki, D.V. Achillopoulou, I Kavvadias, P. Kitou, T Rousakis, S. Papadopoulou, I Maragkou*

C. 10:20 -11:20 *O. Karalagia, A. Tsantekidis, T. Fanaradelli, T. Rousakis, A. Thomoglou, M. Falara, S. Papadopoulou, M. Matsala, E. Bourbouni, A. Kourti, E. Chaitas, G. Karakasis, A. Tsantekidis, M.R. Tziatara, A. Sapalidis, I. Xynopoulos, I. Arsoniadis, F. Petrakis, T. Kazantzidis, G. Tsakalacos, G. Koukourigkos, A. Katsaros,*

C. 12:30-13:30 *K.K. Sideris, Panos Spyridis, Alfred Strauss, Andreas Pürgstaller, Stefano Pampanin, Konrad Bergmeister, A.G. Zapris, V.K. Kytinou V., C.E. Chalioris*

D. 12:30-13:30 *D. Tsirigoti, A. Zamanidou, E. Messinas, A. Karfaki, P. Xystris*

5th announcement / 2nd Hybrid (physical-virtual real-time) Workshop in "Innovative Seismic Protection and Structural/Community Resilience" Saturday 2nd of September - Monday 4th of September 2023, place: Civil Engineering Department, Democritus University of Thrace (DUTH), Conference Center, Xanthi, Greece.

[Link for real-time announcements during the Workshop](#)

<https://www.linkedin.com/events/2ndhybridworkshopininnovativese7090028086401916928/>

[Links for the presenters and for the participation in the Workshop:](#)

Reception

https://teams.microsoft.com/l/meetup-join/19:meeting_YmI5NjMxZTUtYmQzNy00YzRkLWFiOTgtNDYzM2VmNmUyZmYy@thread.v2/0?context=%7B%22Tid%22:%228035113d-c2cd-41bd-b069-0815370690c7%22,%22Oid%22:%225d18600b-afd9-4c4a-9584-a4571fc55af5%22%7D

Sessions A

<https://msteams.link/32KN>

Sessions B

<https://msteams.link/9XT5>

Sessions C

<https://msteams.link/4OE0>

Sessions D

<https://msteams.link/MTL1>

Sessions E

<https://msteams.link/H282>

**5th announcement / 2nd Hybrid (physical-virtual real-time)
Workshop in "Innovative Seismic Protection and
Structural/Community Resilience" Saturday 2nd of September -
Monday 4th of September 2023, place: Civil Engineering Department,
Democritus University of Thrace (DUTH), Conference Center, Xanthi,
Greece.**

Workshop Program

Invited Presentations 2/9 – 4/9 2023

Chairs for all sessions to be released soon!

Saturday 2nd of September, Time 8:00-19:50 (Eastern European Time, UTC+02:00).*

Session A Saturday

8:00 – 9:00 A Welcome and Greetings

9:00 – 10:00 A Session on Seismic Protection

**Keynote presentation by Prof. A. Ilki " Damage Assessment System in Turkey and
Modification Suggestions In the Light of February 2023 Earthquakes ", Civil Engineering
Faculty, Istanbul Technical University (ITU), Turkey**

10:00 – 10:20 Break

10:20-11:20 A 2nd session Saturday

10:20 – 10:40 A Saturday

**Z. Rakicevic, A. Bogdanovic, "Shaking Table Experiments – Gathered Experience and
Knowledge Through Years", "Ss Cyril and Methodius" in Skopje Institute of Earthquake
Engineering and Engineering Seismology (IZIIS), North Macedonia.**

10:40 – 11:00 A

E. Efthimiou, S. Doulgeraki, S. Plastara, A. Padaka, E. Papadopoulos, M. Teza, M. Papasimakopoulou, “Not only Turning but Shaking as well!”, 14th Primary School, Xanthi, Greece.

11:00 – 11:20 A

P. Inci¹, E. Seckin¹, E. Coskun¹, A.M. Turk¹, A. Ilki² “Performance of Rapid Seismic Safety Assessment Methods on Estimation of Seismic Vulnerability of RC Buildings Affected by the February 2023 Earthquakes”, ¹Istanbul Kultur University, ²Istanbul Technical University, Turkey

11:20-11:40 Break

11:40 – 12:40 A 3rd session Saturday

11:40 – 12:00 A

C. Vekidimitriadis, M.V. Kyrka “Community resilience improvement through Xanthi's old town festival”, Structural Engineering Science Division, Civil Engineering Department, Electrical & Computer Engineering Department, Democritus University of Thrace (DUTH), Greece

12:00 – 12:20 A

M.V. Pandi, “Democritus University of Thrace; Who was Democritus?” Civil Engineering Department, Democritus University of Thrace (DUTH), Greece.

12:20 – 12:40 A

S. Papadopoulou, T. Rousakis "Heritage and Relevance of Democritus of Abdera in Human Capacity Building for Advanced Resilience", Structural Engineering Science Division, Civil Engineering Department, Democritus University of Thrace (DUTH), Greece

12:40 – 13:00 A

Ioannis E. Kavvadias¹, Konstantinos Tsongas², Kosmas E. Bantilas¹, Anaxagoas Elenas¹, "Mechanical Characterization of Composite Materials: A Multiscale Computational Perspective", ¹ Department of Civil Engineering, Democritus University of Thrace, 67100 Xanthi, Greece, ² Department of Industrial Engineering and Management, International Hellenic University, 57001 Thessaloniki, Greece

13:00-13:10 Break

13:10-13:55 A Saturday 4th Session on Seismic Protection

**Keynote presentation by Prof. YF. Wu “Failure localization and its mitigation”,
Guangdong Provincial Key Laboratory of Durability for Marine Civil Engineering,
Shenzhen University, Shenzhen, 518060, China and School of Engineering, RMIT
University, 376-392 Swanston St, Melbourne, Victoria, 3001, Australia**

13:55-15:30 Lunch Break

15:30-16:30 Parallel 5th Sessions A,B,C Saturday

Session A

15:30-15:50 A

V. Vagian, T. Rousakis “The evolution of numerical modelling in reinforced concrete infilled frames with composite materials: A Brief Retrospective”, Structural Engineering Science Division, Civil Engineering Department, Democritus University of Thrace (DUTH), Greece.

15:50-16:10 A

J. Jiang “Flexural behavior of GFRP-RC beams with new compression yielding scheme”, Department of Disaster Mitigation for Structures, College of Civil Engineering, Tongji University, Shanghai, China

16:10-16:30 A Saturday

Pouria Nouri, “Investigating new methods for enhancing the seismic performance of earthquake-resistant systems in steel buildings”, structural engineer at DES Consultant/MSc in Earthquake and Structural Engineering

Session B Saturday

15:30-15:50 B

A. Viskovic¹ D. Radogna², “TIMBER FRAMED STRUCTURES FOR MASONRY BUILDINGS RETROFITTING. CASE STUDIES: A PILOT PROJECT IN CAPORCIANO AND THE DUCAL PALACE IN ACCADIA”, ¹University of Chie1-Pescara, Department of Engineering and Geology, a.viskovic@unich.it , ²University of Chie1-Pescara, Department of Architecture, dradogna@unich.it

15:50-16:10 B

A.P. Sapalidis “The impact of Eurocodes and recent codes in Hellenic Construction industry. Can we really apply recent codes and if so how expensive is it?”, Civil Engineering Department, Democritus University of Thrace (DUTH), Greece, Sapalidis Engineering Office.

Sponsor/Donor

16:10-16:30 B Saturday

Konstantinos Papatheodorou¹, Nikolaos Theodoulidis², Nikolaos Klimis³, Can Zulfikar⁴, Dragos Vintila⁵, Vladlen Cardanet⁶, Emmanuel Kirtas¹, Dragos Toma-Danila⁵, Basil Margaris², Yasin Fahjan⁴, Georgios Panagopoulos¹, Christos Karakostas², Georgios Papathanassiou³, Sotiris Valkaniotis³, “Rapid Earthquake Damage Assessment and Public awareness raising actions, towards enhancing Community Resilience and Cross Border cooperation for Earthquake disaster mitigation” ¹International Hellenic University;

konstantinos.a.papatheodorou@gmail.com, ²Institute of Engineering Seismology & Earthquake Engineering; ntheo@itsak.gr, ³Democritus University of Thrace; nklimis@civil.duth.gr, ⁴Gebze Technical University; can.zulfikar@gmail.com, ⁵Ovidius University of Constanta; vdragos@univ-ovidius.ro, ⁶Institute of Geology & Seismology of Moldova; igs.seismolab@yandex.ru, ¹International Hellenic University; kmanolis@gmail.com, ⁵Ovidius University of Constanta; toma_drag@yahoo.com, ²Institute of Engineering Seismology & Earthquake Engineering; margaris@itsak.gr, ⁴Gebze Technical University; yasinfahjan@gmail.com, ¹ International Hellenic University; gpanagop@gmail.com, ²Institute of Engineering Seismology & Earthquake Engineering; christos@itsak.gr, ³Democritus University of Thrace; gpapatha@geo.auth.gr, ³ Democritus University of Thrace; yalkaniotis@yahoo.com

15:30 – 17:10 Session C 5th session Saturday

Session “Fuzzy Logic in Engineering Applications and in Artificial Intelligence”

Organizers: Assist. Prof. Avrilia Konguetsof, Prof. Basil Papadopoulos,

Chairman: Assist. Prof. Avrilia Konguetsof

Co-chairs:

15:30-15:50 C Saturday

B. Papadopoulos, A. Konguetsof, “Possibility vs Probability”, Civil Engineering Department, Democritus University of Thrace, Xanthi, Greece.

15:50-16:10 C Saturday

D. Grammatikopoulos, B. Papadopoulos, "Fuzzy Implications: Recent Results and Some Problems, that Remain Unsolved", Civil Engineering Department, Democritus University of Thrace, Xanthi, Greece.

16:10-16:30 C Saturday

F. Gkoutakou, A. Konguetsof, B. Papadopoulos, "The use of Fuzzy Linear Regression for the selection of the most appropriate fuzzy implication", Civil Engineering Department, Democritus University of Thrace, Xanthi, Greece.

16:30-16:50 C Saturday

G. Souliotis, A. Konguetsof, B. Papadopoulos, "Fuzzy Inclusion and fuzzy implication, two different sides of the same coin", Civil Engineering Department, Democritus University of Thrace, Xanthi, Greece.

16:50-17:10 C Saturday

A. Daniilidou, A. Konguetsof, "A Generator of Fuzzy Operations", Civil Engineering Department, Democritus University of Thrace, Xanthi, Greece.

16:30-16:50 Break A

16:50-17:50 A 6th Session Saturday

16:50-17:10 A

T. Rousakis, E. Golias, V. Vanián, P. Lazaridis, I. Kavvadias, C. Chalioris, T. Fanaradelli, M. Karabini, A. Zapis, G. Sapidis, V. Kytinou, ... "Special Seismic Table Setup for Educational and Research Scopes: Earthquake Shaking of People, Real-Scale Column and Equipment or Scaled Structures", SESD Team, Civil Engineering Department, Democritus University of Thrace.

17:10-17:30 A

T. Rousakis, G. Mallinis, M. Voutetaki, A. Tsantekidis, M. Karabini, T. Fanaradelli, ... "MicroClimate improvement at apartment level and MacroClimate improvement at district level through vertical forests in existing rc buildings in urban areas", Democritus University of Thrace (DUTH) and Aristotle University of Thessaloniki (AUTH), Greece.

17:30-17:50 A

P.C. Lazaridis, I.E. Kavvadias, K. Demertzis, L. Iliadis, and L.K. Vasiliadis, “Interpretable Machine Learning for Assessing the Cumulative Damage of a Reinforced Concrete Frame Induced by Seismic Sequences”, Civil Engineering Department, Democritus University of Thrace (DUTH), Greece

17:50-18:10 Break

18:10-18:40 A Saturday 7th Session on Resilient Research and Innovation Policies
Keynote presentation by Dr. K. Kouravelou Director of the Hellenic Foundation for Research and Innovation (HFRI / ΕΛΙΔΕΚ) “Community Resilience: The Role of the Hellenic Foundation for Research and Innovation”

18:40-18:50 Break

18:50-19:30 A Saturday 8th Session on Sustainable, Green Infrastructure
Keynote presentation by Prof. K. Bergmeister, A. Kosta, M.P. Macha “Green Infrastructures: Circular Economy-driven life-cycle assessment”, Institute in Structural Engineering, University of Natural Resources and Life Sciences, BOKU, Vienna, Austria.

19:30-19:50 Closing of first day – Arrangements for the Old Town Festival – Social Program (Opening 20:30)

Sunday 3rd of September, Time 11:30-20:30 (Eastern European Time, UTC+02:00).*

10:00 – 11:30 Guided tour of the Old Town of Xanthi (free of charge). For reservation please contact Assist. Prof. Dimitra Tsirigoti dtsirigo@civil.duth.gr as soon as possible and until 29th of August.

Meeting point Democracy Square <https://goo.gl/maps/rt2TUWtzSgsswWNp8>

11:30 – 12:00 A Welcome

12:00 – 13:40 Parallel 1st sessions A, B Sunday

Session A Sunday

12:00-12:20 A

A. Constantinidis “Actions’ Protocol of Firemen During Severe Earthquakes / Οι επεμβάσεις των πυροσβεστών σε συμβάντα που προκύπτουν από σεισμούς” Fire Service Department (Head I. Arampatzis), Xanthi, Greece

12:20-12:40 A

A. Topalidis “Challenges in Operational Performance of the Fire Department in Case of an Earthquake - The Case of Xanthi / Αιτίες μείωσης Επιχειρησιακής Απόδοσης Πυροσβεστικής Υπηρεσίας σε περίπτωση σεισμού - Η περίπτωση της Ξάνθης” Fire Service Department (Head I. Arampatzis), Xanthi, Greece

12:40-13:00 A

K.E. Bantilas, M.C. Naoum, I.E. Kavvadias, C.G. Karayannis and A. Elenas, "Structural Pounding Effect on the Seismic Performance of a Typical Multistorey Reinforced Concrete Frame Structure". Civil Engineering Department, Democritus University of Thrace (DUTH), Xanthi, Greece

13:00-13:20 A

Dr. S. Kavitha "Performance of columns in building to resist progressive collapse", Dr.Ambedkar institute of technology ,Bangalore, Karnataka, INDIA.

13:20-13:40 A

Angelos Papageorgiou¹, Lampros Lolos², Anastasios Mpalaskas^{1,2,3}, T. E. Matikas³
“Ottoman monuments in the West Acropolis of the Castle of Ioannina.” ¹ Department of
Architecture, University of Ioannina, ² Department of Civil Engineering, Democritus University
of Thrace, ³Department of Materials Science and Engineering, University of Ioannina, Greece

Session B Sunday

12:00-12:20 B

P.K. Moumtzakis, K.P. Moumtzakis, K. Moumtzakis, "The young craftsman" Story script,
Moumtzakis Panagiotis, Presentation & videos, Moumtzakis Konstantinos (junior), Original
Narration, Moumtzakis Konstantinos

12:20-12:40 B

K. Douloukitakis, M. Karabagli, P. Mousikas, "Being a Thrax", Syllogos Avatou Xanthis
(cultural club)

12:40-13:00 B

Z. Sirmou, "The benefits of being a member of a traditional club", Syllogos Romilioton Rodopis
(cultural club)

13:00-13:20 B Sunday

D. Christoforidis, “Electric vehicles vs conventional vehicles and their environmental impact”,
Research & Teaching Associate, Laboratory of Applied Thermodynamics, Mechanical
Engineering dpt., Aristotle University of Thessaloniki

13:20-13:40 B Sunday

G. Karasakalidis, MEng Chemical Engineer AUTH, “Utilisation of plastics via pyrolysis for
liquid fuel production”.

Session C Sunday

12:00-12:20 C

L. Melidis, G.C. Manos, D. Mpares, L. Kotoulas, K. Katakalos, “Coupled structural/thermal
investigation of reinforced masonry piers built with a novel clay unit”, Laboratory for
Experimental Strength of Materials and Structures, Department of Civil Engineering, Aristotle
University of Thessaloniki, Greece

12:20-12:40 C

D. Nikolaidis, S. Tastani, "Retrofit techniques for seismic improvement of URM buildings, Case studies of URM Buildings in Greece", Civil Engineering Department, Democritus University of Thrace (DUTH), Greece

12:40-13:00 C Sunday

Stefanos Tsoukas, "Structural System Analysis Considerations through Case Studies", MSc Civil Engineer, DUTH graduate

13:00-13:20 C

K. Douloukitakis, M. Karabagli, P. Mousikas, "Being a Thrax", Syllogos Avatou Xanthis (cultural club)

13:20-13:40 C Sunday

M.C. Naoum, N.A. Papadopoulos, G. Sapidis, M. Voutetaki and C.E. Chalioris, "EMI-based Structural Health Monitoring System in FRC beams using a PZTs' network". Civil Engineering Department, Democritus University of Thrace (DUTH), Xanthi, Greece

13:40 – 13:50 Break

13:50-14:20 A Sunday

Keynote presentation, A. Kwicien, "Innovative intervention techniques in seismic protection of RC structures: Why flexible adhesives can be more effective than stiff ones in seismic areas?", Cracow University of Technology, Faculty of Civil Engineering (CUT), Poland

14:20 – 15:30 Lunch Break

15:30 – 16:30 Parallel 2nd sessions A, B Sunday

Session A Sunday

15:30-15:50 A

P. Tzitzos, V. Navrozidis , G. Kougioumtzis , K. Efthimiadis, “(AI.BMS) Building Management System with AI to manage electromechanical systems”, Civil Engineering, Electrical & Computer Engineering, Economics Departments, Democritus University of Thrace (DUTH), Greece

15:50-16:10 A

M.A. Karabini, A.J. Karabinis , C.G. Karayannis, “Seismic characteristics of a II-shaped 4-story RC structure with open ground floor”, Civil Engineering Departments, Democritus University of Thrace (DUTH) and Aristotle University of Thessaloniki (AUTH), Greece

16:10-16:30 A

P. Karatzoglou, "Building resilience in a harsh environment: the definition of education", 7th Gymnasium of Xanthi, Greece.

16:30-16:50 A Sunday

Agis Kothalis, “Contribution of masonry to the bearing capacity of buildings”, Prod. & Manag. Engineer, President and CEO of KEBE SA **Sponsor/Donor**

Session B Sunday

15:30-15:50 B

Z. Sirmou, "The benefits of being a member of a traditional club", Syllogos Romilioton Rodopis (cultural club)

15:50-16:10 B

E. Paraschaki, F. Skoupoura, P. Mousikas, "The magic circle", Cultural club Antica

16:10-16:30 B

T. Tsalkatidis. ' 'Repair and strengthening techniques of timber structures- State of the art review', Norwegian University of Life Sciences, Oslo, Norway

16:50-17:00 Break

17:00-19:00 A Sunday 3rd Session on Seismic Protection

Keynote presentations by Prof. M. Constantinou, Department of Civil, Structural and Environmental Engineering, University at Buffalo, The State University of New York, USA

17:00 – 17:35 “HISTORY OF SEISMIC PROTECTIVE SYSTEMS 500BC TO 2023”

17:35 – 18:10 “EXAMPLES OF RETROFIT OF BUILDINGS, BRIDGES AND THE INFRASTRUCTURE USING SEISMIC ISOLATION”

18:10 – 19:00 “THREE-DIMENSIONAL SEISMIC ISOLATION: DEVELOPMENTS, CHALLENGES AND BENEFITS”

19:00-19:10 Break

19:10-20:10 A Sunday 4th Session on Community and Business Ecosystem Resilience

Keynote presentation by Prof. D. Dimitriou “Interoperability of Supply Chain and Critical Infrastructures towards Community and Business Ecosystem Resilience”, Dept of Economics, Laboratory MaGBISE, PI Research Infrastructure: ENIRISST+, Democritus University of Thrace.

20:10-20:30 Closing of second day – Arrangements for the Old Town Festival – Social Program

Monday 4th of September, Time 8:30-19:30 (Eastern European Time, UTC+02:00).*

1st Session A Monday

8:30 – 9:00 A Welcome

9:00 – 10:00 A 1st Session on Warning Systems

Keynote presentation by A. Matzarakis " Meteorological warnings as examples for prevention and communication", University of Freiburg, Germany

10:00 – 10:20 Break

10:20-11:20 Parallel 2nd sessions A, B Monday

Session A Green and resilient approaches in architectural design: energy retrofit and construction Monday Organizer: Assist. Prof. Dimitra Tsirigoti

10:20-10:40 A

P. Fokaides, T. Klitou, P.Z. Georgali, A. Papadopoulos, “Buildings Minimum Energy Requirements, The Cyprus Case Study: Lessons Learnt”, Frederick University, Cyprus and Aristotle University of Thessaloniki (AUTH), Greece, p.fokaides@frederick.ac.cy
res.kt@frederick.ac.cy res.gp@frederick.ac.cy agis@auth.gr

10:40-11:00 A

A. Lagarias, “Green infrastructure as a climate adaptation strategy in urban areas: Typologies and best practices from the European Context”, University of Thessaly, Greece
lagarias@iacm.forth.gr

11:00-11:20 A

D. Tsirigoti, “Urban typologies and green spaces development for the improvement of microclimatic conditions”, Civil Engineering Dept., Democritus University of Thrace, Greece
dtsirigo@civil.duth.gr

Session B Monday

10:20-10:40 B

M. Gams a, N. Gattesco b, E. Rizzi b, I. Boem b, A. Dudine c, "A new method of seismic strengthening stone masonry with CRM coatings on one side", aUniversity of Ljubljana, Faculty of Civil and Geodetic Engineering, Jamova 2, 1000 Ljubljana, Slovenija, bUniversity of Trieste, Department of Engineering and Architecture, Via Alfonso Valerio 6/1, 34127 Trieste, Italy, cFibre Net S.p.A., Via Jacopo Stellini, 3 – Z.I.U., 33050 Pavia di Udine (UD), Italy

10:40-11:00 B

¹Marco Di Ludovico, ²Ciro Del Vecchio, ¹Andrea Prota, " Post earthquake damage and losses: actual data and prediction models", ¹Dept. of Structures for Engineering and Architecture, University of Napoli Federico II, Napoli, and ²Dept of Engineering, University of Sannio, Benevento, Italy

11:00-11:20 B Monday

Boris Azinović, "Innovative solutions for CLT structures: Forest value in Horizon 2020 Project InnoCrossLam ", Slovenian National Building and Civil Engineering Institute; Section for timber Structures (ZAG), Ljubljana, Slovenia.

Session C Monday

10:20-10:40 C

O. Karalagia, T. Rousakis, "Dynamic pushover assesment of reinforced concrete bridge and strengthening with composite materials", Laboratory of Reinforced Concrete & Seismic Design of Structures, Democritus University of Thrace, Xanthi, Greece

10:40-11:00 C Monday

E. Paraschaki, F. Skoupoura, P. Mousikas, "The magic circle", Cultural club Antica

11:00-11:20 C Monday

A. Tsantekidis, T. Rousakis, "Combined energy – structural retrofit of existing RC building with fiber-reinforced polymers to construct Vertical Forest", Laboratory of Reinforced Concrete & Seismic Design of Structures, Democritus University of Thrace, Xanthi, Greece

11:20-11:40 Break

11:40 – 12:10 A 3rd Session on Community Resilience

Keynote presentation by Assoc. Prof. I. Dokas “Community Resilience Against Cascading Disastrous Events – The Role of Risk and Resilience Assessment Centre”, Risk and Resilience Assessment Centre (RiskAC) Project, Democritus University of Thrace, Xanthi, Greece.

12:10-12:30 Break

12:30 – 13:30 Parallel 4th sessions A, B, C, D Monday

Session A Monday

12:30-12:50 A

E. Palaiokastritis¹, Dr. Faidra Givannaki², Dr Ioannis Nerantzis³ “Multiscale Modelling of Advanced Materials using Computational methods”, BETA CAE Systems SA, Kato Scholari, Thessaloniki GR-57500 Epanomi, Greece, e.palaiokastritis@beta-cae.com
p.givannaki@beta-cae.com nerantzis@beta-cae.com

12:50-13:10 A Monday

N. Klimis (1), K. Papatheodorou (2), S. Valkaniotis (1), El. Petala (1), G. Papathanassiou (3) and J. Gkiougkis(1), “Regional scale landslide and liquefaction hazard assessment as part of the Rapid Earthquake Damage Assessment System”, (1) Civil Engineering Department, Democritus University of Thrace (DUTH), (2) Survey & Geoinformatics Engineering Department, International Hellenic University (IHU), (3) Geology Department, Aristotle University of Thessaloniki (AUTH)

13:10-13:30 A

V.V. Lepov "The multiscale modeling of ultra-low cyclic fatigue fracture in complex structures", Director of V.P. Larionov Institute of the Physical-Technical Problems of the North of the Siberian Branch of the Russian Academy of Sciences, IPTPN SB RAS, Yakutia, Russia

Session B Monday

12:30-12:50 B

C. Goksu^{1,2} "Utilization of Recycled Concrete Aggregate as a Sustainable Approach Aftermath of Earthquakes", 1 Istanbul Technical University Civil Engineering Faculty, Structural and Earthquake Engineering Laboratory, Maslak, Sariyer, Istanbul, Türkiye 34469 and 2 Tashkent University of Architecture and Civil Engineering, Navoi street, 13, Tashkent, Uzbekistan, 100194

12:50-13:10 B

M. Vassiliou, "Sweeping modelling imperfections under the rug of excitation uncertainty", Chair of Seismic Design and Analysis, IBK (c/o IGT), D-BAUG, ETH Zürich

13:10-13:30 B

N.K. Stamataki, D.V. Achillopoulou, "Assessment of Resilience and Sustainability Levels for Critical Transport Infrastructures", Laboratory of Reinforced Concrete & Seismic Design of Structures, Democritus University of Thrace, Xanthi, Greece, nstamata@civil.duth.gr, James Watt School of Engineering, University of Glasgow, UK, dimitra.achillopoulou@glasgow.ac.uk

Session C Monday

12:30-12:50 C

K.K. Sideris "Influence of the type of cement on the service life of reinforced concrete structures against carbonation induced corrosion", Structural Engineering Science Division, Civil Engineering Department, Democritus University of Thrace (DUTH), Greece.

12:50-13:10 C

1Panos Spyridis, 2Alfred Strauss, 3Andreas Pürgstaller, 4Stefano Pampanin, 2Konrad Bergmeister, "Comprehensive approach to robustness of engineering structures", 1University of Rostock, Germany, 2University of Natural Resources and Applied Life Sciences, Institute for Structural Engineering, Vienna/Austria, 3Dr. Bergmeister Ingenieure GmbH, Munich, 4Sapienza University of Rome, Department of Structural and Geotechnical Engineering, Roma/Italy

13:10-13:30 C Monday

A.G. Zapris, V.K. Kytinou V., C.E. Chalioris "Innovative strengthening solutions for RC Beams subjected to torsion", Structural Engineering Science Division, Civil Engineering Department, Democritus University of Thrace (DUTH), Greece

Session D Green and resilient approaches in architectural design: energy retrofit and construction Monday Organizer: Assist. Prof. Dimitra Tsirigoti (part 2, continues)

Session D Monday

12:30-12:50 D

A. Zamanidou, "Two resilience preparedness/business continuity plans in the industrial ecosystem", Developed under the SUSTAIN project, IsZEB, Greece. azamanidou@iszeb.gr

12:50-13:10 D

E. Messinas, "Circular practices in design: The example of the restoration of the interior of the synagogue in Kos, Greece", Design Faculty, Holon Institute of Technology, Israel
eliasmessinas@gmail.com, elias@ecoama.com

13:30 – 16:15 Lunch Break

16:15 – 16:50 Session A 6th session Monday

Keynote presentation by Professor Amir Fam "Recent Advances in Bridge Deck Design and Testing Methods", Department of Civil Engineering Faculty of Engineering and Applied Science Queen's University, Kingston, Canada.

16:50-17:00 Break

17:00 – 18:00 Session A 7th session Monday

17:00-17:20 A

T. Rousakis, E. Golias, V. Vanian, P. Lazaridis, I. Kavvadias, C. Chalioris, T Fanaradelli, M. Karabini, A. Zapris, G. Sapidis, V. Kytinou, ... “Special Seismic Table Setup for Educational and Research Scopes: Earthquake Shaking of People, Real-Scale Column and Equipment or Scaled Structures”, SESD Team, Civil Engineering Department, Democritus University of Thrace.

17:20-17:40 A

T. Rousakis, “Resilience Practices and Indices to Assess and Optimize the Performance of Community”, Civil Engineering Department, Democritus University of Thrace.

17:40-18:00 A 8th session Monday

Association of Friends of Democritus and of Democritus University of Thrace CIND, “A Brief Presentation”

18:00-19:00 A 9th session Monday

**Discussion and Closing of the workshop - Conclusions / 3rd Hybrid Workshop!
Arrangements for the Old Town Festival – Social Program**



*Interested sponsors/donators may contact trousak@civil.duth.gr