



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΔΥΤΙΚΗΣ ΑΤΤΙΚΗΣ
UNIVERSITY OF WEST ATTICA

1st International Symposium on “Humanitarian Engineering Challenges and Approaches”

We would like to invite you to join us

18-19 May 2021 / 11:00 – 14:00 (GMT+0200)

University of West Attica

Registration Free (required to receive Certification of Attendance) at:

<https://humanitarianengineeringchallenges01.eventbrite.co.uk>

You can join us in the following MS TEAMS link:

[Humanitarian Engineering Symposium](#)

The [University of West Attica](#) / Department of [Informatics and Computer Engineering](#), in collaboration with [ENHANCE](#) Erasmus+ project is hosting an international symposium of invited speakers, focusing on Humanitarian Engineering Challenges and Approaches. Due to the ongoing Covid-19 Pandemic, the event will take place online this year.



What is ENHANCE project?

ENabling Humanitarian Attributes for Nurturing Community-based Engineering (ENHANCE), is a 3-year collaborative project supported through the European Commission under the Erasmus+ Key Action 2 Cooperation for innovation and the exchange of good practices; Capacity Building in the field of Higher Education. The project investigates complex humanitarian issues from a wide range of disciplinary perspectives in order to develop balanced, intelligent and synergistic solutions.



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Erasmus+ Programme
of the European Union



Symposium Program

Day 1 – Tuesday, 18 May 2021

- 11:00 - 11:15 Registration - Welcoming Remarks
11:15 - 11:30 Rector, Prof. Panagiotis Kaldis, University of West Attica

Session 1 - The role of Humanitarian Engineering

Chair: Ass. Prof. Yiannis Koumpouros

- 11:30 - 11:45 **“Appropriate methods in designing electrical systems in reducing fire induced human disaster in high rise buildings”**
Professor Dr. Saiful Islam, Former Vice Chancellor - Bangladesh University of Engineering and Technology (Bangladesh)
- 11:45 - 12:00 **“Enhancing the value of innovative curriculum in humanitarian engineering in Vietnam: perspectives of enterprises and higher education institutions”**
Dr. Vu Anh Quang, Vice-Director, External Relations Office – Ho Chi Minh City University of Technology (Vietnam)
- 12:00 - 12:15 **“Post-disaster Housing Reconstruction during COVID-19 pandemic: Experience from Indonesia”**
Professor Krishna S. Pribadi – Institut Teknologi Bandung (Indonesia)
- 12:15 - 12:30 **“Bridge load capacity estimation in post-disaster and -conflict zones”**
Assistant Professor Irwanda Laory – University of Warwick (United Kingdom)
- 12:30 - 12:45 **“Community based city resilience activities for better livability in Malang, Indonesia”**
Dr. Surjono & Adipandang Yudono – Universitas Brawijaya (Indonesia)

Session 2 - Environment and Climate Change

Chair: Dr. Angelos Georgoulas

- 12:45 - 13:00 **“Community-based Climate Adaptation in Ben Tre: An Implication for Project-based Learning”**
Professor Vo Le Phu, Dean - Ho Chi Minh City University of Technology (Vietnam)
- 13:00 - 13:15 **“Impact of Climate Change on Extreme Floods of the Brahmaputra River in Bangladesh”**
Professor G M Tarekul Islam - Bangladesh University of Engineering and Technology (Bangladesh)
- 13:15 - 13:30 **“Sustainable options for single-use plastic: from user's perspectives to recycler's choices”**
Professor Pham Thi Anh - Ho Chi Minh City University of Transport (Vietnam)

- 13:30 - 13:45 **“Assessing the potential for carbon dioxide uptake of urban greening”**
Dr. Christia Meidiana - Universitas Brawijaya (Indonesia)
- 13:45 - 14:00 **“Noise pollution in Ho Chi Minh City - current situations and solutions”**
Dr. Nguyen Tien Thuy - Ho Chi Minh City University of Transport (Vietnam)

End of first day

Day 2 – Wednesday, 19 May 2021

Session 3 - Humanitarian Challenges in Public health

Chair: Ass. Prof. Yiannis Koumpouros

- 11:00 - 11:15 **“Strategy to Improve Global Food Safety”**,
Professor Mohammad Shoeb – University of Dhaka (Bangladesh)
- 11:15 - 11:30 **“Identification of water sources to supply clean water demand for Rembang society”**
Dr. Ir. Intan Supraba – Universitas Gadjah Mada (Indonesia)
- 11:30 - 11:45 **“Population Health Management, Emerging technologies, and the Science of the Individual”**
Anastasios Moutzoglou – Editor-in-Chief, International Journal of Reliable and Quality E-Healthcare (IJRQEH) (Greece)
- 11:45 - 12:00 **“Social Capital and Collective action in Rural Tourism During and Post Pandemic Covid-19. The Case Study of Rural Tourism Pujon Kidul, Malang-Indonesia)”**
Dr. Gunawan Prayitno – Universitas Brawijaya (Indonesia)
- 12:00 - 12:15 **“Tackling the aging of the population by exploiting the latest ICTs”**
Georgia Maria Markopoulou – University of West Attica (Greece)
- 12:15 - 12:30 **“Public Health Burden due to Misuse or Over Use of Antibiotics”**
Professor Mohammad Shoeb – University of Dhaka (Bangladesh)

Session 4 – Natural Disasters

Chair: Prof. Georgia Kremmyda / Dr. Angelos Georgoulas

- 12:30 - 12:45 **“Gender Perspectives of 2017 Flood in the North-Western Part of Bangladesh”**
Professor Sujit Kumar Bala – Bangladesh University of Engineering and Technology (Bangladesh)
- 12:45 - 13:00 **“The importance of understanding the local physical and social conditions in post-earthquake housing reconstruction policies”**
Dr. Ashar Saputra – Universitas Gadjah Mada (Indonesia)
- 13:00 - 13:15 **“Changes in storm surge inundation and vulnerability in the coastal region of Bangladesh under Global Warming”**
Professor A.K.M. Saiful Islam – Bangladesh University of Engineering and Technology

(Bangladesh)

13:15 - 13:30 “Towards sustainable landslide risk reduction in the Bandung Basin”

Dr. Imam A. Sadisun – Institut Teknologi Bandung (Indonesia)

13:30 - 14:00 Discussion - Closing Remarks

End of symposium