



**NZAAR INTERNATIONAL EVENT SERIES ON NATURAL AND BUILT ENVIRONMENT, CITIES, SUSTAINABILITY AND ADVANCED ENGINEERING**

8:00-9:00

**REGISTRATION + COFFEE NETWORKING**

**OPENING SESSION**

09:00-09:05

Welcome speech by NZAAR corporate member + Group photo

09:05-09:15

Welcome speech by NZAAR representative + Acknowledgment of sponsors/partners

Official opening + keynote speech 01

**Ir. Ahmad Izdihar**

***"Can We Afford Not to Build Green?"***

09:15-09:30



(President, Malaysia Green Building Confederation, **MALAYSIA**)

**PLENARY SPEECH SESSION**

Keynote speech 02

**Prof. Dr.-Ing. Horst Kreimes**

***"From Biomass to Electricity and Heat/chill – Three Different Generation Ways"***

09:30-10:00

Hochschule **Rosenheim**  
University of Applied Sciences



(Professor, University of Applied Sciences Rosenheim, **GERMANY**)

Keynote speech 03

**Engr. Gregers Reimann**

***"Reclaiming the Streets"***

10:00-10:15



(Director, IEN Consultants, **MALAYSIA**)

Keynote speech 04

**Prof. Dr. Nik Meriam Binti Nik Sulaiman**

***"Urban Sustainability Challenges – The Nexus Approach"***

10:15-10:30



(Professor and Former Dean, Sustainability Science Cluster, University of Malaya, **MALAYSIA**)

Keynote speech 05

**Engr. Masoud Moinfar**

***"Sustainability of Sustainability in Malaysia"***

10:30-10:45



(Director, Fenestra, **MALAYSIA**)

Keynote speech 06

**Dr. Husam Al-Waer (Virtual)**

***"Helping Places Address Change and Uncertainty: Experience from Europe"***

10:45-11:00



(Senior Lecturer and CECHR Associate Director, University of Dundee, **UK**)

Keynote speech 07

**Prof. Dr. John Tookey (Virtual)**

***"Construction Industry in New Zealand and Sustainability Challenges"***

11:00-11:15



(Professor and Head of Department of Built Environment Engineering, Auckland University of Technology, **NEW ZEALAND**)

11:15-11:45

**MORNING COFFEE BREAK**

PARALLEL SESSIONS I & II			
PARALLEL SESSION I	Session I Chairs: Engr. Gregers Reiman & Engr. Masoud Moinfar	PARALLEL SESSION II	Session II Chair: Prof Salmaliza Salleh
11:45-12:00	<p><b>PREFERRED TEMPERATURE IN AN AIR-CONDITIONED BUILDING: A CLIMATE CHAMBER EXPERIMENT</b> NUR DALILAH DAHLAN*</p> <p><i>University of Putra Malaysia Kuala Lumpur, MALAYSIA</i></p>	11:45-12:00	<p><b>ANALYSIS ON THE FACTORS AFFECTING COMMUNITY ATTACHMENT OF RESIDENTS LIVING IN RESIDENTIAL ENVIRONMENTS FOLLOWING URBAN REGENERATION</b> MUN YOUNG A, SU JUNGHAH*, LIM DONGHYUN &amp; KIM HONGGYU</p> <p><i>Department of Urban Planning and Engineering, College of Engineering, Yonsei University Seoul, SOUTH KOREA</i></p>
12:00-12:15	<p><b>VIRTUAL AND PHYSICAL ARCHITECTURAL ATMOSPHERE</b> ANDERS HERMUND* &amp; LARS SIMON KLINT</p> <p><i>The Royal Danish Academy of Fine Arts, Schools of Architecture, Design and Conservation Copenhagen, DENMARK</i></p>	12:00-12:15	<p><b>HYBRID WATCH USING INTERNET OF THINGS</b> MADHUMITHAA S R*, BALAMURUGAN V T, DEEPA R &amp; RAJASEKAR L</p> <p><i>Department of Electronics and Communication Engineering, Bannari Amman Institute of Technology Tamil Nadu, INDIA</i></p>
12:15-12:30	<p><b>INTELLIGENT ARCHITECTURE, BIOLOGY &amp; BIOMIMICRY</b> MAHDIAR GHAFFARIANHOSEINI &amp; ROXANNE FALLAH</p> <p><i>Faculty of Environmental Design, University of Calgary Calgary, CANADA</i></p>	12:15-12:30	<p><b>URBAN CONTEXT OF CHURCH ARCHITECTURE &amp; SPATIAL RECONFIGURATION AIMED FOR IMPROVING UTILITY IN USING ARCHITECTURAL SPACE</b> PARK SEUNGBAE, OH SANGJOON*, YEO JANGKWON &amp; KIM HONGKYU</p> <p><i>Department of Urban Planning and Engineering, College of Engineering, Yonsei University Seoul, SOUTH KOREA</i></p>
12:30-12:45	<p><b>REVIEW ON SUSTAINABLE AND INNOVATIVE APPROACH TOWARDS MOSQUE DESIGN IN CONTEMPORARY WORLD</b> NANGKULA UTABERTA*, NAYEEM ASIF</p> <p><i>University of Putra Malaysia Kuala Lumpur, MALAYSIA</i></p>	12:30-12:45	<p><b>PARAMETRIC ANALYSIS OF THE THERMAL COMFORT CONDITIONS OF UNSHADED COURTYARDS IN THE TROPICAL CONTEXT OF KUALA LUMPUR</b> PEGAH MAROOFEE*, AMIRHOSEIN GHAFFARIANHOSEINI, NORHASLINA HASSAN</p> <p><i>University of Putra Malaysia Kuala Lumpur, MALAYSIA</i></p>
12:45-13:00	<p><b>SCREEN DESIGN AND APPLICATIONS FOR SUSTAINABLE BUILDINGS</b> FIDA ISAM ABDULHAFIZ* &amp; MOHAMED EL AMROUSI</p> <p><i>Department of Architecture, Abu Dhabi University Abu Dhabi, UNITED ARAB EMIRATES (UAE)</i></p>	12:45-13:00	<p><b>A COMPARATIVE ANALYSIS OF PERIOD DETERMINANTS IN NEWTOWN PROJECT AND HOUSING REDEVELOPMENT PROJECT OF SEOUL</b> YONGJOO SEO, SONG SEO YOUNG*, YUN YOUNG KUN &amp; HONG-KYU KIM</p> <p><i>Department of Urban Planning and Engineering, College of Engineering, Yonsei University Seoul, SOUTH KOREA</i></p>
13:00-13:15	<p><b>INTERNAL AND EXTERNAL COST OF SPANISH MOSSES AS GREEN ROOF WITH ZERO MAINTENANCE IN HOT AND HUMID CLIMATE</b> TACHAYA SANGKAKOOL* &amp; KUAANAN TECHATO</p> <p><i>Faculty of Environmental Management, Prince of Songkla University Hatyai, Songkhla, THAILAND</i></p>	13:00-13:15	<p><b>A NEW APPROACH TO URBAN HEAT ISLAND ASSESSMENT IN THE CONTEXT OF GREATER KUALA LUMPUR</b> LOGARAJ RAMAKRESHNAN<sup>1,2*</sup>, NASRIN AGHAMOHAMMADI<sup>2</sup> &amp; AMIRHOSEIN GHAFFARIANHOSEINI<sup>3</sup></p> <p><i>1Institute of Graduate Studies, University of Malaya, Kuala Lumpur, MALAYSIA 2Centre for Occupational and Environmental Health, Department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, MALAYSIA 3Department of Geography, Faculty of Arts and Social Sciences, University of Malaya, Kuala Lumpur, MALAYSIA</i></p>
13:15-14:15	<b>INTERNATIONAL BUFFET LUNCH BREAK</b>		

PARALLEL SESSIONS III & IV			
PARALLEL SESSION III	Session III Chairs: Ir Ahmad Izdihar & Prof. Dr.-Ing. Horst Kreimes	PARALLEL SESSION IV	Session IV Chair: Dr. Amirhosein GhaffarianHoseini
14:15-14:30	<p><b>AN ARCHITECTURAL-MORPHOLOGICAL ANALYSIS OF THE MUGHAL GARDENS OF THE 16<sup>TH</sup> AND 17<sup>TH</sup> CENTURIES: ENGAGING CULTURAL FORMS AS STRATEGIES FOR PASSIVE DESIGN FOR URBAN SUSTAINABILITY</b></p> <p>NURUL SYALA ABDUL LATIP*, PUTERI SHIREEN JAHN KASSIM, MUSTAFFA KAMAL BASHAR MOHD FAUZI, SHAUKAT MAHMOOD</p> <p><i>International Islamic University Malaysia Kuala Lumpur, MALAYSIA University of the Punjab Lahore, PAKISTAN</i></p>	14:15-14:30	<p><b>TREATED TRANSPARENT CONDUCTING FILMS FOR FULL FLEXIBLE ELECTROCHROMIC DEVICES</b></p> <p>KANYANEE SANGLEE, SURAWUT CHUANGCHOTE*, PIPAT CHAIWIWATWORAKUL &amp; PISIST KUMNORKAEW<sup>3</sup></p> <p><i>The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi Bangkok, THAILAND Centre of Excellence on Energy Technology and Environment, Science and Technology Postgraduate Education and Research Development Office Bangkok, THAILAND National Nanotechnology Center, National Science and Technology Development Agency, Thailand Science Park Khlongluang, Pathumthani, THAILAND</i></p>
14:30-14:45	<p><b>A STUDY ON THE APPLICATION OF CRIME PREVENTION THROUGH SMART ENVIRONMENTAL DESIGN FOR THE CULTURAL PROPERTIES CONSERVATION AND PROMOTION</b></p> <p>JEONGYEON CHO*, KWANYOUNG YOON, YONGHEE KIM &amp; JEASUN LEE</p> <p><i>Department of Urban Planning and Engineering, College of Engineering, Yonsei University Seoul, SOUTH KOREA</i></p>	14:30-14:45	<p><b>OPTIMIZATION OF LIGNIN SEPARATION PROCESS FROM BLACK LIQUOR USING STRONG ACIDS AND SUPERCRITICAL CO<sub>2</sub></b></p> <p>NATTHATIDA KUNWONG*, NAVADOL LAOSIRIPOJANA &amp; VERAWAT CHAMPREDA</p> <p><i>The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi Bangkok, THAILAND National Center for Genetic Engineering and Biotechnology Klong Luang, Pathumthani, THAILAND</i></p>
14:45-15:00	<p><b>REPURPOSING UNDERUTILISED SPACE AS PUBLIC SPACE IN BANDUNG: LEARNING FROM LONDON BOROUGH REDESIGNING STUDY</b></p> <p>TIKA SAVITRI DEDDY HASAN ST, DENNY ZULKAIDI</p> <p><i>Urban Planning &amp; Design Research Group, School of Architecture, Planning, and Policy Development, Institut Teknologi Bandung Bandung, INDONESIA</i></p>	14:45-15:00	<p><b>INVESTIGATION ON WIND ENERGY POTENTIAL WITH OMNI-DIRECTION-GUIDE-VANE (ODGV) IN MEIKTILA, THE REPUBLIC OF UNION OF MYANMAR</b></p> <p>THANDAR NWE, CHONG WEN TONG &amp; ONG HWAI CHYUAN</p> <p><i>Department Of Mechanical Engineering, Faculty of Engineering, University of Malaya Kuala Lumpur, MALAYSIA</i></p>
15:00-15:15	<p><b>STUDY ON THE PHENOMENON AND FEATURES OF ANCIENT CHINESE CITIES AND ARCHITECTURES AFFECTED BY THE TRADITIONAL CONCEPT OF TIME AND SPACE</b></p> <p>LIANGWA CAI* &amp; PENG ZENG</p> <p><i>School of Architecture, Tianjin University Nankai, Tianjin, CHINA</i></p>	15:00-15:15	<p><b>THE EFFECT OF TEMPERATURE AND GAS/LIQUID RATIO ON CO<sub>2</sub> REMOVAL PERFORMANCE BY WATER- BASED NANO-BUBBLE PROCESS</b></p> <p>JIRAYU KANLAYA*, NAVADOL LAOSIRIPOJANA, NUTTHACHAI PONGPRASERT, VARIT SRILAONG</p> <p><i>The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi Bangkok, THAILAND School of Bioresources and Technology (Bangkhuntien Campus), King Mongkut's University of Technology Bangkok, THAILAND</i></p>
15:15-15:30	<p><b>ANALYSIS ON ELEMENTS IN PEDESTRIAN ENVIRONMENTS TO REVITALIZE THE COMMERCIAL STREET</b></p> <p>SOEUN KIM*, SEUNGJOON YOO, NOORY HAN &amp; JEASUN LEE</p> <p><i>Department of Urban Planning and Engineering, College of Engineering, Yonsei University Seoul, SOUTH KOREA</i></p>	15:15-15:30	<p><b>VERTICAL MONUMENT VERSUS HORIZONTAL LANDSCAPE COMPARISON OF CHINESE AND WESTERN CONTEMPORARY MEMORIAL</b></p> <p>LI ZHANG*</p> <p><i>Southeast University China, Nanjing, Jiangsu, CHINA</i></p>
15:30-15:45	<p><b>AN ASSESSMENT OF TRAINING AND PROGRAM PRACTICES IN ADOPTION OF HYDROGEN FUEL CELL VEHICLES (HFCV) IN MALAYSIA: A STUDY IN BANGI INDUSTRIAL AREA, BANGI, SELANGOR</b></p> <p><sup>1</sup>RUSINAH SIRON*, <sup>2</sup>TAN KWE LU, <sup>3</sup>MOHD AMIN TASRIPAN</p> <p><i>1 Graduate Business School, College of Graduate Studies, Universiti Tenaga Nasional, Kajang, MALAYSIA 2Institute of Energy Policy and Research, Universiti Tenaga Nasional, Kajang, MALAYSIA 3College of Foundation and General Studies, Universiti Tenaga Nasional, Kajang, Malaysia</i></p>	15:30-15:45	<p><b>ASSESSMENT OF EGYPTIAN NEIGHBORHOOD SPATIAL CONFIGURATIONS AFTER THE REVOLUTION, USING SPACE SYNTAX THEORIES</b></p> <p>SHERINE SHAFIQ &amp; ANN REDA HELMY*</p> <p><i>Architectural Engineering and Environmental Design Department, Academy for Science, Technology, and Maritime Transport Alexandria, EGYPT</i></p>
15:45-16:00	<p><b>ARE YOU EXPERIENCED? METHODS OF MAPPING BEHAVIOUR AND EXPERIENCE IN TRANSACTIONAL ENVIRONMENTS</b></p> <p>STEPHEN ANDERSON*</p> <p><i>University of Portsmouth, Portsmouth, UK</i></p>	15:45-16:00	<p><b>CULTURAL SUSTAINABILITY IN ARCHITECTURE</b></p> <p>AISWARYA SHYLAJA BABURAJ*</p> <p><i>Department of Architecture, Aakar Academy of Architecture, Visvesvaraya Technological University Bangalore, INDIA</i></p>
16:00-16:30	<b>AFTERNOON COFFEE BREAK</b>		

PARALLEL SESSIONS V & VI			
PARALLEL SESSION V	Session V Chairs: Dr. Nur Dalilah & Prof. Dr. Nik Meriam	PARALLEL SESSION VI	Session VI Chair: TBA
16:30-16:45	<p><b>PARAMETRIC ANALYSIS OF THE OUTDOOR THERMAL COMFORT CONDITIONS OF PARTIALLY SHADED URBAN SPACES IN THE TROPICAL CONTEXT OF MALAYSIA</b> AMIRHOSEIN GHAFARIANHOSEINI<sup>1*</sup>, UMBERTO BERARDI<sup>2</sup>, ALI GHAFARIANHOSEINI<sup>3</sup>, JOHN TOOKEY<sup>3</sup></p> <p><sup>1</sup>Department of Geography, Faculty of Arts and Social Science, University of Malaya (UM), Kuala Lumpur, MALAYSIA <sup>2</sup>Faculty of Engineering and Architectural Science, Ryerson University, Toronto, CANADA <sup>3</sup>Department of Built Environment Engineering, School of Engineering, Computer and Mathematical Sciences, AUT University, Auckland, NEW ZEALAND</p>	16:30-16:45	<p><b>A BIM-BASED FRAMEWORK TO DEAL WITH PARTICULAR CLAIM BEFORE CONSTRUCTION STAGE (ONLINE)</b> YANG YU*</p> <p>Department of Built Environment Engineering, School of Engineering Computer and Mathematical Sciences Auckland, NEW ZEALAND</p>
16:45-17:00	<p><b>EFFECT OF DIFFERENT MIXING WATER ON COMPRESSIVE STRENGTH OF CONCRETE</b> SALMALIZA SALLEH* &amp; AMITHIRA SUBRAMANIAM</p> <p>Department of Civil Engineering, Faculty of Engineering and Built Environment, SEGi University Kota Damansara, Petaling Jaya, Selangor, MALAYSIA</p>	16:45-17:00	<p><b>THE EFFECT OF SELF-ESTEEM AND SOCIAL RESPONSIBLE CLAIMS ON GENERATION Y CONSUMERS' PERCEPTIONS ABOUT COFFEE BEAN PRODUCTS</b> YUN-TING ZENG*</p> <p>School of Management and Governance, Murdoch University Western Australia, AUSTRALIA</p>
17:00-17:15	<p><b>PRODUCTION OF HIGH STRENGTH CONCRETE BY PARTIAL REPLACEMENT OF FINE AGGREGATES WITH RECYCLED GLASS</b> SALMALIZA SALLEH* &amp; MOHAMMAD ARSHAD HOSSANY</p> <p>Department of Civil Engineering, Faculty of Engineering and Built Environment, SEGi University Kota Damansara, Petaling Jaya, Selangor, MALAYSIA</p>	17:00-17:15	<p><b>STUDENTS PERCEPTION ON SUSTAINABLE IN CREATING ECO CITY LIVING COMMUNITY: CASE STUDY AT BANDAR CASSIA, BATU KAWAN, PENANG, MALAYSIA</b> WAN NOOR ANIRA HJ WAN ALI @ YAACOB*, NADIYANTI MAT NAYAN &amp; SITI SYAMIMI OMAR</p> <p>Faculty of Architecture, Planning &amp; Surveying, Universiti Teknologi MARA, Seri Iskandar Campus Seri Iskandar, Perak, MALAYSIA</p>
17:15-17:30	<p><b>EFFECT OF USING COPPER SLAG AS A SAND REPLACEMENT IN MORTAR</b> SALMALIZA SALLEH* &amp; UMANEE DASAN DAYANANDA</p> <p>Department of Civil Engineering, Faculty of Engineering and Built Environment, SEGi University Kota Damansara, Petaling Jaya, Selangor, MALAYSIA</p>	17:15-17:30	<p><b>LAND RIGHTS IN CRISIS: FINDINGS AND LESSONS FROM IRAQ</b> LAITH HADY ALOSSMI* &amp; VIAN AHMED</p> <p>College of Engineering, Thi-Qar University Al-Nasiriyah, IRAQ School of the Built environment, Salford university Manchester, UNITED KINGDOM</p>
17:30-17:45	<p><b>GEOTECHNICAL STABILITY OF GABION WALLS</b> CHANDR TOSHAN RAMPAT*, ABDULAHI ALI MOHAMED, SANDY SIEN TI KOK</p> <p>University of Nottingham, Jalan Broga, Selangor, MALAYSIA</p>	17:30-17:45	<p><b>SELF-ORGANIZING NEURAL NETWORK: A METHOD FOR FEATURE ANALYSIS OF LANDS</b> AMIR HOUSHANG EHSANI*</p> <p>Faculty of Environment, University of Tehran Tehran, IRAN</p>
17:45-18:00	<p><b>INTERSTATE WATER RESOURCE RISK MANAGEMENT: TOWARDS A SUSTAINABLE FUTURE FOR TRANSBOUNDARY RIVER BASINS OF CENTRAL ASIA</b> PARVIZ NORMATOV, ABULQOSIM MUMINOV &amp; INOM NORMATOV*</p> <p>Institute of Water problems, Hydropower and Ecology of the Academy of Sciences of the Republic of Tajikistan Dushanbe, TAJIKISTAN</p>	17:45-18:00	<p><b>A COMPREHENSIVE APPROACH TO THE ASSESSMENT OF VISUAL CONSISTENCY IN TOWNSCAPE</b> DHEYAA HUSSEIN* &amp; PETER ARMSTRONG</p> <p>Faculty of Architecture, Design and Planning, University of Sydney Sydney, AUSTRALIA</p>
18:00-18:15	<p><b>A STUDY ON SUSTAINABLE JOURNALISM PRACTICE FOR SUSTAINABLE DEVELOPMENT IN MALAYSIA</b> IHEDIWA SAMUEL CHIBUNDU*</p> <p>Faculty of Arts and Social Science, Universiti Tunku Abdul Rahman (UTAR) Petaling Jaya, Selangor, MALAYSIA</p>	18:00-18:15	<p><b>RELEVANCY MEASURES OF ERRORS IN DISPLACEMENTS OF FINITE ELEMENTS ANALYSIS RESULTS</b> A.B. BOLKHIR* &amp; T. K. YOUSIF</p> <p>Civil Engineering Dep., Benghazi University Benghazi, LIBYA</p>
18:15-18:30	<b>ANNOUNCEMENT OF THE BEST PRESENTATIONS + OFFICIAL CLOSING BY NZAAR</b>		
19:30-21:00	<b>RAMAZAN BUFFET FOR FASTING PARTICIPANTS</b>		