

**TENTATIVE PROGRAMME:**  
**AWAM International Conference on Civil Engineering 2022**

<i>Date/Time</i>	<i>Venue</i>	15 February 2022 (Tuesday)	16 February 2022 (Wednesday)	17 February 2022 (Thursday)
0800 – 0830			Registration	
0830 – 0900		Registration and Briefing on Webex	Opening Ceremony by Vice-Chancellor of USM <b>Professor Dato' Dr. Faisal Rafiq Mahamd Adikan</b>	
0900 – 0930			<u>Keynote 1:</u> <b>Dr. Tetsushi Kanda</b>	
0930 – 1000			<u>Keynote 2:</u> <b>Professor Dr. Nor Azazi Bin Zakaria</b>	
1000 – 1030			Morning Tea Break	Morning Tea Break
1030 – 1230	Room A Room B Room C Room D Room E Room F		Parallel Session 1	Parallel Session 3
1230 – 1430			Lunch Break	Lunch Break
1430 – 1530	Room A Room B		Parallel Session 2	Parallel Session 4
1530 – 1600	Room C Room D		Afternoon Tea Break	Afternoon Tea Break
1600 – 1700	Room E Room F		Continue Parallel Session 2	Continue Parallel Session 4
1700 – 1730				Closing ceremony

**Collaboration with:**



United Nations  
Educational, Scientific and  
Cultural Organization



UNESCO Chair on Ecohydraulics for  
Sustainable Water Infrastructures for  
SDG 6 in the Asia and the Pacific Region  
Universiti Sains Malaysia  
Penang, Malaysia



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The Energy University

15 <sup>th</sup> February 2022		
0900 – 1100	Registration and Briefing on Webex	Room: <a href="https://bit.ly/33GzN4k">https://bit.ly/33GzN4k</a>

16 <sup>th</sup> February 2022				
0800 - 0830	Registration			<b>Room:</b> <a href="https://bit.ly/33GzN4k">https://bit.ly/33GzN4k</a>
0830 - 0900	Welcoming Speech by General Chair AICCE' 22, <b>Professor Dr. Mohd Suffian Yusoff</b> Opening Ceremony by Vice-Chancellor of USM <b>Professor Dato' Dr. Faisal Rafiq Mahamd Adikan</b>			
0900-0930	Keynote 1: <b>Dr. Tetsushi Kanda</b> “Sustainable Supply Chain in Construction Industry and Approach for Carbon Neutralization in Construction Materials”			
0930-1000	Keynote 2: <b>Professor Dr. Nor Azazi Bin Zakaria</b> “Integrated Water Resources For Sustainability Management of Stormwater towards SDG 6”			
<b>1030-1230</b>	<b>Parallel Session 1</b>			
<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room A</i>
	0106	1030	EVALUATION OF NOISE AT PARIT BUNTAR HOSPITAL, PERAK, MALAYSIA	<b>Chairman:</b> Dr. Wesam Almadhoun  <b>Link:</b> <a href="https://bit.ly/3GpsF9U">https://bit.ly/3GpsF9U</a>
	0109	1050	CHICKEN FEATHER FIBERS AS ADSORBENTS FOR THE REMOVAL OF HEAVY METALS FROM WATER	
	0112	1110	DEVELOPMENT OF FLOATING PLATFORM FOR WATER QUALITY MONITORING	
	0115	1130	APPLICATION OF ULTRASONIC EXTRACTION TO MEASURE PARTICULATE BIOAVAILABLE PHOSPHORUS IN A LAKE SEDIMENT	

Collaboration with:





<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room F</i>
	0083	1210	FLOOD HAZARD POTENTIAL MAPPING USING GIS: A CASE STUDY IN SUNGAI BESI CAMP, KUALA LUMPUR	
STRUCTURAL ENGINEERING (M)	0010	1030	NON-STANDARD LARGE SCALE FIRE TESTS OF STRUCTURES: A MINI REVIEW	<b>Chairman:</b> Dr. Siti Noratikah Che Deraman  <b>Link:</b> <a href="https://bit.ly/3sgxX2G">https://bit.ly/3sgxX2G</a>
	0011	1050	EFFECT OF HOLLOW BODIES ON THE STRENGTH AND DENSITY OF BUBBLE CONCRETE	
	0028	1110	THERMAL PERFORMANCE OF GEOPOLYMER CONCRETE WITH NATURAL FIBRES	
	0030	1130	PERFORMANCE OF NATURAL FIBRE-REINFORCED GEOPOLYMER COMPOSITES EXPOSED TO SULFURIC ACID	
	0033	1150	EXPERIMENTAL EVALUATION OF BOND PROPERTIES IN TEXTILE REINFORCED CONCRETE BY DIGITAL IMAGE CO-RELATION	
	0036	1210	CHARACTERIZATION OF SPENT BLEACHING EARTH ASH (SBEA) AND ASSESSING ITS USE AS PARTIAL CEMENT REPLACEMENT IN CEMENT MORTAR	
<b>1430-1700</b>	<b>Parallel Session 2</b>			
<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room A</i>
STRUCTURAL ENGINEERING (M)	0043	1430	PALM OIL CLINKER AS COARSE AND FINE AGGREGATES IN LIGHTWEIGHT CONCRETE	<b>Chairman:</b> Ir. Dr. Ahmad Zaki  <b>Link:</b> <a href="https://bit.ly/3sbCGIT">https://bit.ly/3sbCGIT</a>
	0053	1450	STUDY ON THE CONCRETE STRENGTH DEVELOPMENT INCORPORATING WITH POWER PLANT WASTE AS AN AGGREGATE REPLACEMENT	
	0064	1510	ALTERNATIVE MIX DESIGN MODEL OF PERVIOUS CONCRETE USING RESPONSE SURFACE METHODOLOGY (RSM) CONSIDERING THE CURRENT COVID-PANDEMIC SITUATION	
	0076	1600	COMPRESSIVE STRENGTH OF LIGHT-TRANSMITTING CONCRETE (LTC) INCORPORATED WITH OPTICAL FIBRE	
	0094	1620	INVESTIGATION ON MECHANICAL PROPERTIES OF HIGH STRENGTH DUCTILE ENGINEERED GEOPOLYMER COMPOSITES (EGC)	

**Collaboration with:**

<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room B</i>
	0104	1640	INFLUENCE OF WASTE CRUMB RUBBER AS A PARTIAL RE-PLACEMENT FOR FINE AGGREGATES ON CONCRETE PROPERTIES	
EARTHQUAKE ENGINEERING & SUSTAINABLE INFRASTRUCTURE	0071	1430	DEFORMED SHAPE AND DUCTILITY OF REMODELED REINFORCED CONCRETE HERITAGE BUILDING IN PULAU PINANG SUBJECTED TO MODERATE SEISMIC EXCITATION	<b>Chairman:</b> Assoc. Prof. Ir. Dr. Lau Tze Liang  <b>Link:</b> <a href="https://bit.ly/3IWeU49">https://bit.ly/3IWeU49</a>
	0150	1450	STUDY ON EARTHQUAKE CHARACTERISTICS AND METHOD OF ASSEMBLING REPEATED EARTHQUAKES ON THE 2D SEISMIC DESIGN RC FRAMES	
	0034	1510	COMPARISON OF MICROSTRUCTURAL PROPERTIES OF ONE- AND TWO-PART FLY ASH GEOPOLYMER CONCRETES	
	0046	1600	STRENGTH PERFORMANCE OF HYBRID FIBER REINFORCED CONCRETE CONTAINING MANUFACTURED POLYPROPYLENE AND RING-SHAPED POLYETHYLENE TEREPHTHALATE WASTE FIBERS	
	0050	1620	THERMO-MECHANICAL PROPERTIES OF CONCRETE MORTAR WITH CENOSPHERE	
	0070	1640	INFLUENCE OF MOISTURE CONTENT AND POSITION ON THE TENSILE STRENGTH OF FOUR AIR-DRIED BAMBOO SPECIES	
	0074	1700	THE AFLAJ SYSTEMS IN SULTANATE OF OMAN: ITS TRADITIONAL-ENGINEER CONSTRUCTION AND OPERATION	
<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room C</i>
TRANSPORTATION AND TRAFFIC ENGINEERING	0018	1430	REVIEW ON THE MAIN CHARACTERISTICS OF FREEWAY MERGING SECTION	<b>Chairman:</b> Assoc. Prof. Dr. Nur Sabahiah Abdul Sukor  <b>Link:</b> <a href="https://bit.ly/34s3qXd">https://bit.ly/34s3qXd</a>
	0026	1450	ALLOWABLE LIMIT OF HUMAN ANNOYANCE TOWARDS GROUND-BORNE VIBRATION VELOCITY INDUCED BY RAIL TRAFFIC: A REVIEW	
	0038	1510	COOLING BEHAVIOUR AND REUSABILITY OF HOT MIX ASPHALT	
	0047	1600	ROAD CRASHES AMONG FOOD DELIVERY RIDERS (P-HAILING) DURING PANDEMIC IN KUALA LUMPUR	
	0052	1620	CHARACTERIZATION OF PENETRATION GRADE BITUMEN BLENDED WITH PETROLEUM PRODUCTS FOR CUTBACK PRODUCTION	

Collaboration with:

<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room D</i>
	0077	1640	UNCOVERING THE RELATIONSHIP BETWEEN RISKY RIDING BEHAVIOURS AMONG YOUNG MOTORCYCLIST TOWARDS ROAD CRASHES IN URBAN AREAS	
STRUCTURAL ENGINEERING (S)	0037	1430	AN INNOVATIVE SHEAR CONNECTOR FOR COMPOSITE BEAM WITH COLD-FORMED STEEL OF C-CHANNEL SECTION	<b>Chairman:</b> Prof. Ir. Dr. Taksiah A. Majid  <b>Link:</b> <a href="https://bit.ly/35PyDo9">https://bit.ly/35PyDo9</a>
	0039	1450	APPROXIMATE EQUATION FOR ESTIMATING GLOBAL BUCKLING LOAD OF SINGLE-LAYER CYLINDRICAL SPACES	
	0044	1510	DYNAMIC PROPERTIES AND SEISMIC PERFORMANCES OF 1.5-LAYER SPACE FRAMES WITH LAP-UNITS WITH CONSIDERING VIBRATION OF LOWER JOINTS	
	0062	1600	EXPERIMENTAL STUDY ON COLUMN STRENGTHENING USING PRE-TENSIONED STEEL STRAPS CONFINEMENT	
	0063	1620	EXPERIMENTAL REPORT ON COMPRESSION LOADING TEST OF TEMPERED GLASS PANELS	
	0065	1640	DAMAGE INDEX ANALYSIS OF BRIDGE DECK STRUCTURAL HEALTH MONITORING USING SENSOR TECHNIQUES	
<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room E</i>
ENVIRONMENTAL ENGINEERING	0091	1430	ASSESSMENT OF THE CORRELATION BETWEEN PARTICULATE MATTERS AND WEATHER PARAMETERS IN MALAYSIA	<b>Chairman:</b> Assoc. Prof. Dr. Noor Faizah Fitri Md. Yusof  <b>Link:</b> <a href="https://bit.ly/3J3iFVJ">https://bit.ly/3J3iFVJ</a>
	0092	1450	FLAT SHEET PSF/PVP ULTRAFILTRATION MEMBRANE FOR LEACHATE TREATMENT	
	0099	1510	ASSESSMENT OF TRAFFIC NOISE LEVEL AND TRAFFIC COMPOSITION IN KULIM, KEDAH	
	0100	1600	STUDY OF AIRCRAFT NOISE AT RESIDENTIAL AREA IN TAMAN UDARA, BUTTERWORTH, PULAU PINANG	
	0105	1620	PRELIMINARY ASSESSMENT OF SELECTED WATER QUALITY PARAMETERS IN THE LOWER BASIN OF PERAK RIVER USING GIS AND QUAL2K	

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15-17 February 2022 | Penang, Malaysia

<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room F</i>
WATER RESOURCES ENGINEERING	0079	1430	DETERMINATION OF DOWNSTREAM HYDRAULICS GEOMETRY PARAMETERS	<b>Chairman:</b> Dr. Noor Aida Saad  <b>Link:</b> <a href="https://bit.ly/3L43SMc">https://bit.ly/3L43SMc</a>
	0087	1450	COMPUTATIONAL FLUID DYNAMIC ANALYSIS AT DAM SPILLWAY DUE TO DIFFERENT UPSTREAM WATER LEVEL	
	0088	1510	VIBRATION EFFECT TO KENYIR DAM INTAKE SECTION DURING A SPILL EVENT	
	0093	1600	NUMERICAL STUDY OF INCOMPRESSIBLE FLOW PAST A CIRCULAR CYLINDER AT LOW REYNOLDS NUMBER USING COMSOL MULTIPHYSICS	
	0113	1620	COMPARISON OF WATER VELOCITY OF PHYSICAL AND NUMERICAL MODELING ANALYSIS ON A DOWNSCALE SPILLWAY	
	0114	1640	WATER FLOW VELOCITY ANALYSIS ON SMALL SCALE SPILLWAY USING PARTICLE IMAGE VELOCIMETRY (PIV)	

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17th February 2022				
0930 - 1000	Keynote 3: <b>Prof. Dr Hemanta Hazarika</b> “Sustainable Early Warning System for Mitigating Rainfall Induced Landslide Disasters”			<b>Room:</b> <a href="https://bit.ly/33GzN4k">https://bit.ly/33GzN4k</a>
<b>1030-1230</b>	<b>Parallel Session 3</b>			
<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room A</i>
CONSTRUCTION MANAGEMENT	0007	1030	EFFECT OF PROJECT ORGANIZATIONAL CULTURE ON PARTICIPANTS SATISFACTION OF UNITED ARAB EMIRATES (UAE) CONSTRUCTION PROJECTS	<b>Chairman:</b> Dr. Siti Hafizan Hassan  <b>Link:</b> <a href="https://bit.ly/3nS1Vs9">https://bit.ly/3nS1Vs9</a>
	0012	1050	PREPAREDNESS OF SMALL AND MEDIUM ENTERPRISES FOR THE IMPLEMENTATION OF BIM IN MALAYSIA	
	0054	1110	EVALUATION OF STRUCTURAL HEALTH MONITORING (SHM) IN BRIDGE ASSESSMENT	
	0006	1130	THE RELATIONSHIP BETWEEN PROJECT ORGANIZATIONAL CULTURE AND PROJECTS PERFORMANCE IN CONSTRUCTION INDUSTRY OF UNITED ARAB EMIRATES (UAE)	
	0068	1150	AVAILING CROSS-TABULATION AND CHI-SQUARE ANALYSIS IN ATTESTING CONSTRUCTION DEFECT CAUSAL FACTORS HYPOTHESES FROM QUANTITATIVE L.S. DATA	
	0152	1210	GOVERNMENT PERSPECTIVE OF BUILDING INFORMATION MODELLING IN THE NIGERIAN CONSTRUCTION INDUSTRY	
<i>Subtheme</i>	<i>Paper ID</i>	<i>Time</i>	<i>Title</i>	<i>Room B</i>
GEOTECHNICAL ENGINEERING	0122	1030	GROUND IMPROVEMENT TECHNIQUES FOR SOFT SOIL	<b>Chairman:</b> Dr. Aizat Mohd Taib @ Taib
	0130	1050	SLOPE STABILITY OF SG LANGAT UNDER THE INFLUENCE OF EXTREME RAINFALL	
	0132	1110	A REVIEW ON SIMPLIFIED IMAGE ANALYSIS METHOD FOR MEASURING LNAPL SATURATION UNDER GROUNDWATER TABLE FLUCTUATION	

**Collaboration with:**

	0134	1130	MODELING OF MONOPILE FOR ONSHORE WIND TURBINES TOWER BY COMSOL MULTIPHYSICS	<b>Link:</b> <a href="https://bit.ly/3Iz147P">https://bit.ly/3Iz147P</a>
	0140	1150	REVIEW OF NATURAL FIBER APPLICATION FOR SUSTAINABLE GROUND IMPROVEMENT	
	0146	1210	MINI REVIEW OF THE APPROACHES OF LANDSLIDE RISK ASSESSMENT	
<b>Subtheme</b>	<b>Paper ID</b>	<b>Time</b>	<b>Title</b>	<b>Room C</b>
HIGHWAY ENGINEERING	0098	1030	MECHANICAL PROPERTIES OF HOT MIX ASPHALT INCORPORATING COAL FLY ASH FILLER	<b>Chairman:</b> Ts. Zanariah Abd Rahman  <b>Link:</b> <a href="https://bit.ly/3nSRd4R">https://bit.ly/3nSRd4R</a>
	0117	1050	CHARACTERIZATION OF ASPHALT EMULSION WITH DIFFERENT PERCENTAGE OF ASPHALT CONTENT	
	0123	1110	FULL EXTRACTION ASBUTON BITUMEN USING DIFFERENT ORGANIC SOLVENTS FOR BINDER REPLACEMENT	
	0124	1130	INVESTIGATION OF DRY-MIXING CRUMB RUBBER IN STONE MASTIC ASPHALT (SMA) USING SANDSTONE AGGREGATE	
	0145	1150	BINDER CHARACTERIZATION AND PERFORMANCE OF HOT MIX ASPHALT MODIFIED WITH WASTE ALUMINIUM CAN	
<b>Subtheme</b>	<b>Paper ID</b>	<b>Time</b>	<b>Title</b>	<b>Room D</b>
ENVIRONMENTAL ENGINEERING	0009	1030	CHARACTERISATION OF OIL PALM (ELAEIS GUINEENSIS) STARCH FOR COAGULATION-FLOCCULATION PROCESS IN LANDFILL LEACHATE TREATMENT	<b>Chairman:</b> Assoc. Prof. Dr. Vel Murugan Vadivelu  <b>Link:</b> <a href="https://bit.ly/3fMkvh4">https://bit.ly/3fMkvh4</a>
	0016	1050	INTEGRATED ELECTROCOAGULATION-ULTRASONIC METHOD FOR ORGANIC MATTER REMOVAL FROM LANDFILL LEACHATE	
	0024	1110	BIOCHAR AMENDMENT ON PALM OIL BIOMASS: EFFECT ON PHYSICOCHEMICAL PROPERTIES AND FIBRE DEGRADATION	
	0029	1130	EXTRACTION OF HUMIC ACID FOLLOWED BY COAGULATION WITH NATURAL STARCH COAGULATION FOR THE ELIMINATION OF COLOR AND COD FROM STABILIZED LEACHATE	
	0045	1150	A REVIEW OF POLLUTANT REMOVAL USING MICROALGAE (CHLORELLA VULGARIS) IN DIFFERENT WASTEWATER TREATMENT	

Collaboration with:







15-17 February 2022 | Penang, Malaysia

	Paper ID	Time	Title	Room E:
	0148	1620	EFFECT OF PRESSURE COEFFICIENT ON A RURAL HOUSE DUE TO THE NEIGHBORING BUILDING'S ARRANGEMENT USING LOW SPEED WIND TUNNEL TEST	
<b>Subtheme</b>	<b>Paper ID</b>	<b>Time</b>	<b>Title</b>	<b>Room E:</b>
TRANSPORTATION AND TRAFFIC ENGINEERING	0097	1430	HOW DRIVERS' PHYSIOLOGICAL RESPONSE OF BLOOD PRESSURE ON UNSIGNALIZED CONVENTIONAL ROUNDABOUT?	<b>Chairman:</b> Assoc. Prof. Ir. Dr. Sitti Asmah Binti Hassan  <b>Link:</b> <a href="https://bit.ly/3GZPwdi">https://bit.ly/3GZPwdi</a>
	0102	1450	MOBILITY TREND IN MALAYSIA THROUGHOUT RESTRICTIVE MOBILITY POLICIES AND NATIONAL IMMUNISATION PROGRAMME DUE TO COVID-19 PANDEMIC	
	0116	1510	STATE-OF-ART REVIEW OF SIGNALIZED ROUNDABOUTS: EVALUATION, ANALYSES AND GAPS.	
	0138	1600	GAP ACCEPTANCE BEHAVIOUR OF RISKY RIGHT-TURNING MOTORCYCLISTS FROM MINOR ROADS AT CONVENTIONAL AND UNCONVENTIONAL T-JUNCTIONS	
	0144	1620	INTELLIGENT TRANSPORT SYSTEM AND IMAGE PROCESSING: DEVELOPING TRAFFIC DETECTION PROGRAM BASED ON INDONESIAN HIGHWAY CAPACITY 1997 FOR RURAL ROAD	
1700-1730	Closing ceremony			<b>Room:</b> <a href="https://bit.ly/33GzN4k">https://bit.ly/33GzN4k</a>

Collaboration with: