_			Monday 8 C	October 2018		
REGISTRATION Main foyer 2 & 3						
			Plen	ary 3		
Chairperson: Stephen Foster OPENING CEREMONY						
			"THE ART AND SCIENCE OF DESIGNING AND BU	ILDING THE TALLEST BUILDINGS IN THE WORLD"		
H			MORNI	NG TEA		
r	Plenary 3	Room 215	Room 216	yer 2 & 3 Room 217	Room 218	Room 219
	BRIDGES	SHEAR & TORSION	REINFORCEMENT & PRESTRESS	CONCRETE MATERIALS	MODEL CODES & STANDARDS	SUSTAINABILITY
	Sponsored by ACRS Chairperson: Jim Forbes	Chairperson: Aurelio Muttoni	Chairperson: John Fenwick	Chairperson: Frank Dehn	Chairperson: lan Gilbert	Chairperson: Petr Hajek
	213: BRIDGES STRUCTURES ON HIGH SPEED	14: RECENT IMPROVEMENTS OF THE CRITICAL SHEAR CRACK THEORY FOR PUNCHING SHEAR	380: fib BULLETIN 75 RECOMMENDATION ON POLYMER-DUCT SYSTEMS FOR INTERNAL	438: THE EFFECT PARTICLE SHAPE AND GRADING OF MANUFACTURED SANDS ON THE	·	
ľ	RAILWAY LINES IN GERMANY Mr Chongjie KANG	DESIGN AND ITS SIMPLIFICATION FOR CODE PROVISIONS	BONDED POST-TENSIONING – NEW SYSTEM PERFORMANCES AND VALIDATION FULL SCALE TESTS	PLASTIC AND HARDENED PROPERTIES OF CONCRETE	434: fib MODEL CODE 2020 AND EXISTING	ESSENCE OF SUSTAINABILITY AND ITS
L		Prof Aurelio MUTTONI	Mr Tommaso CICCONE, Mr Luca CIVATI 39: EXPERIMENTAL INVESTIGATION ON HIGH-	Mr Roy BUTCHER	CONCRETE STRUCTURES Dr Stuart MATTHEWS	INCORPORATION INTO fib MODEL CODE 2020 Prof Koji SAKAI
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L	Mr Sebastian SCHNEIDER 238: EXPERIMENTAL STUDY ON THE TENSILE	Prof Norbert RANDL 154: SHEAR TESTS AT THE INNER SUPPORT OF	Mr Takafumi MIHARA 373: SADDLES FOR STAY CABLES: DESIGN,	Mr Quang Dieu NGUYEN 263: EXPANDED SLATE LIGHTWEIGHT	227: PREDICTION ACCURACY OF CODE	403: AN ATTEMPT TO USE OF WASTE
	CAPACITY OF BRIDGE DECK LOOP CONNECTIONS WITH SHEAR KEYS	CONTINUOUS POST-TENSIONED CONCRETE BEAMS	TESTING AND DEVELOPMENTS Mr Tommaso CICCONE, Mr Andrea CASTIGLIONI	AGGREGATE FOR HIGH PERFORMANCE STRUCTURAL CONCRETE	PROVISIONS FOR THE CALCULATION OF CRACK WIDTHS	HORTICULTURAL MINERAL WOOL AS AN ADDITIVE IN CEMENT COMPOSITES
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Е	EXPERIENCE AND DEVELOPMENT – STATE OF THE ART FROM EARLY DAYS AND CHALLENGES FOR FUTURE DEVELOPMENTS Mr Ivica ZIVANOVIC	FRC COUPLING BEAMS Dr Boyan MIHAYLOV	375: ELECTRICALLY ISOLATED TENDONS FOR A DURABLE BRIDGE STRUCTURE Dr Christian GLAESER	264: BENEFITS OF STRUCTURAL LIGHTWEIGHT CONCRETE OTHER THAN REDUCED DENSITY Dr Reid CASTRODALE	150: EXPERIMENTAL INVESTIGATIONS ON TENSION LOADED ANCHOR GROUPS OF ARBITRARY CONFIGURATIONS Ms Boglarka BOKOR	480: THE USE OF LOW-CARBON-FOOTPRINT MULTI-SIZED FILLERS IN HIGH-PERFORMANCE CONCRETE Mr Saad BINHOWIMAL
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	Tuesday 9 October 2018 REGISTRATION 07:30					
L				RATION yer 2 & 3		
			Chairperson: NEW INSIGHTS INTO THE DURABILITY PR	ary 3 Hugo Corres OPERTIES OF GEOPOLYMER CONCRETES		
				NK DEHN MANCE ASSESSMENT OF STRUCTURAL CONCRET MAEKAWA	E	
			MORNI	NG TEA yer 2 & 3		
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
	BRIDGES	SHEAR & TORSION	MODELS FOR DURABILITY	CONCRETE MATERIALS	MODELLING & DESIGN	MONITORING & CONDITION ASSESSMENT
	Chairperson: Akio Kasuga 510: BUILDING BRIDGES USING THIN-WALLED CONCRETE ELEMENTS AND POST-TENSIONING	Chairperson: Mikael Braestrup 500: COMBINED YIELD CRITERIA FOR SHEAR-BENDING IN NUMERICAL LIMIT ANALYSIS OF SLABS	Chairperson: Frank Papworth 573: DURABILITY DESIGN EARLY AGE CRACK CONTROL – DIFFERENTIAL TEMPERATURE IMPACT ON CONCRETE	Chairperson: Tor Am Martius-Hammer 240: EXPERIENCE OF A LOW-PH CONCRETE FOR DEPOSITION TUNNELS	Chairperson: Jean Michel Torrenti 136: RESPONSE SIMULATION OF UHPFRC MEMBERS	Chairperson: Stuart Matthews 37: FIELD TEST OF WIDE-RANGE-ULTRASONIC TESTING (WUT) TO DETECT UNFILLED GROUT I POST-TENSIONING PRESTRESSED CONCRETE
4	Mr Stephan FASCHING 11: DEVIATION SADDLES FOR CABLE BRIDGES: NEW DEVELOPMENTS ON SADDLE CONCEPTION Mr Ivica ZIVANOVIC	Mr Thomas Westergaard JENSEN 245: ANALYZATION OF THE SHEAR LOAD BEARING BEHAVIOUR OF THIN WALLED CFRP REINFORCED UHPC STRUCTURES	Mr Rodney PAULL 60: FEEDBACK GATHERED DURING 2-YEAR MEASUREMENT OF DURABILITY INDICATORS FOR THE NEW COASTAL ROAD ON REUNION ISLAND (FRANCE) MAJOR PROJECTS	Mr Alexandre MATHERN 400: THREE-DIMENSIONAL PARAMETERS TO CHARACTERIZE AND DESCRIBE THE SIZE AND SHAPE OF AGGREGATES BASED ON COMPUTED TOMOGRAPHY	Prof Serhan GUNER 504: CRACKING ANALYSIS OF A CONCRETE TIE REINFORCED WITH TWO DIAMETER BARS: COMPARISON WITH EXPERIMENTAL RESULTS	BRIDGES Mr Kuniharu FUKUSHIMA 19: STUDY ON CONSERVATION FOR STAY CABLE SYSTEMS OF CABLE-STAYED BRIDGES Dr Hideaki SAKAI
	404: I. CROSS LINKS: AN INNOVATIVE HIGH- PERFORMANCE CABLE DAMPING SOLUTION fr Julien-Erdem ERDOGAN, Mr Ivica ZIVANOVIC	Dr Benjamin KROMOSER 523: SHEAR TESTS ON REINFORCED CONCRETE BEAMS WITH EXTREMELY LOW AMOUNTS OF STIRRUPS Dr Nguyen Duc TUNG	Mr. Lionel LINGER 489: A GENETIC ALGORITHM TO IDENTIFY THE OPTIMAL CONCRETE MIX FOR THE ELEMENTS SUBJECT TO RISK OF EARLY AGE THERMAL CRACKING MS MAYYAM GHAREHCHAEI	Mrs Bianca DORNISCH-BUND 78: BEST MIXING PROCEDURES OF CRUMB RUBBER CONCRETE Dr Osama YOUSSF	Dr Maurizio TALIANO 251: AN INVESTIGATION OF THE STRAIN PROFILE OVER THE COVER IN REINFORCED CONCRETE ELEMENTS SUBJECTED TO TENSION Mr Reignard TAN	42: FIELD VIBRATION TESTING AND VIBRATION CACULATION & EVALUATION OF OVER-TRACK BUILDING INDUCED BY SUBWAY Mr Ligang BAI
26	62: FROM ALCANTARA ROMAN BRIDGE TO THE NEW HSR VIADUCT OVER RIVER ALMONTE Mr Jose BERRAZUETA	159: PUNCHING RESISTANCE OF FLAT SLABS WITH OPENINGS Prof Jaroslav HALVONIK	5: EARLY AGE EXPOSURE TO CHLORIDES: THE CASE OF THE MARITIME INFRASTRUCTURE OF THE MONACO SEA EXTENSION Dr Christian CREMONA	49: EXPERIMENTAL STUDY ON THE MECHANICAL PROPERTIES OF LIGHTWEIGHT RUBBERIZED CONCRETE Dr Osama YOUSSF	368: EVALUATION OF THERMAL STRESS DEVELOPMENT IN EARLY AGE CONCRETE Mr Aocheng ZHONG	127: LOWER WATER-TO-CEMENT-RATIO MAY INDUCE HIGHER DETERIORATION WHEN CONCRETE IS CRACKED - EXPERIMENTAL INVESTIGATION AND MECHANISM - Dr Satoshi FUJIMOTO
	40: TESTING OF STAY CABLE SYSTEMS Dr Alex-W. GUTSCH	514: CALIBRATION OF THE SHEAR STOP CRITERIA BASED ON CRACK KINEMATICS OF REINFORCED CONCRETE BEAMS WITHOUT SHEAR REINFORCEMENT Prof Dick A. HORDIJK	316: DURABILITY PLANS FOR MAJOR PROJECTS Mr Sean WINDRED	215: PERFORMANCE OF ANCHORS IN EARLY- AGE CONCRETE WITH SUPPLEMENTARY CEMENTITIOUS MATERIAL Dr Jessey LEE	98: ANALYSES FOR A REASONABLE SHEAR REINFORCEMENT DESIGN IN BRIDGE PIER CAP Mr Jae-Hyun PARK	437: CONCRETE NDT DATA IN "R", AN OPEN SOURCE STATISTICS AND GRAPHICS PROGRAMMING ENVIRONMENT Mr William WARD
3	51: CABLE STAYED VIADUCT ON THE RAILWAY LINE 13 – GUARULHOS INTERNATIONAL AIRPORT Mr Fernando STUCCHI	247: SHEAR STRENGTH OF LIGHTWEIGHT CONCRETE BEAMS WITHOUT WEB REINFORCEMENT Prof Sherif YEHIA	441: SHRINKAGE INDUCED CRACKING IN CONCRETE- A COMPARISON OF EXISTING MODELLING APPROACHES Dr Inam KHAN	524: ANCHORAGE LENGTHS OF CAST-IN AND POST-INSTALLED REINFORCING BARS IN AUSTRALIA, NEW ZEALAND, THE USA, AND EUROPE Dr Christoph MAHRENHOLTZ	540: DECREASING THE MAGNITUDE OF SHEAR RATES IN THE FLOWCYL Mrs Elisabeth Leite SKARE	576: EVALUATION OF THE PC STEEL MATERIAL BREAKAGE CAUSED BY CORROSION USING AE METHOD Mr Yusuke TOYOTA
	175: ADVANCING SMALL BRIDGES (DOWN UNDER - FLORIDA): Mr Steven NOLAN	546: A MECHANICAL APPROACH TO MODELING THE CRACK DEVELOPMENT AND SHEAR FAILURE OF REINFORCED CONCRETE BEAMS WITH LOW AMOUNTS OF SHEAR REINFORCEMENT Dr Nguyen Duc TUNG	104: INFLUENCE OF ENVIRONMENTAL POLLUTION ON CORROSION MAPS IN SLOVAKIA A/Prof Peter KOTEŠ	553: ALKALI LIMIT IN CEMENT WITH SUPPLEMENTARY CEMENTING MATERIALS - A REVIEW Miss Cibele SANCHEZ ROBOREDO	282: A SIMPLE EXPRESSION TO EVALUATE BENDING CAPACITY AND COMPRESSION ZONE HEIGHT OF RECTANGULAR RC WALL SECTIONS A/Prof Avraham DANCYGIER	381: INSPECTION AND MONITORING OF STAY CABLES Mr Werner BRAND
5	68: DESIGN AND CONSTRUCTION OF BRIDGES FOR MOUNTAIN RAILWAYS Mr Neil BANERJEE	77: COMPARISON OF RC BEAMS STREGTHENED WITH PBO-FRCM COMPOSITE WITH DIFFERENT TYPES OF ANCHORAGE Mrs Dorota MARCINCZAK	89: USE OF RESISTIVITY AS A CONCRETE QUALITY ROUTINE CONTROL TOOL. OUTCOMES OF RECORDS GATHERED DURING 2-YEAR FOR THE NEW COASTAL ROAD ON REUNION ISLAND (FRANCE) OFFSHORE VIADUCT Mr Lionel LINGER		258: TORSION OF REINFORCED CONCRETE ELEMENTS – BEHAVIOUR AND MODELLING Prof Jan VITEK	193: APPLICATION OF ACOUSTIC EMISSION ANALYSIS FOR EVALUATION OF STATIC AND DYNAMIC EXPERIMENTS Prof Jens MINNERT
			LUI	NCH yer 2 & 3		
L	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
	ULTRA HIGH PERFORMANCE	SHRINKAGE & CREEP	PREFABRICATED & PRECAST	NEW MATERIALS	DESIGN & CONSTRUCTION	REINFORCEMENT CORROSION
	Chairperson: Evan Bentz 50: SUSTAINABLE ULTRA-HIGH PERFORMANCE CONCRETE INCORPORATING GROUND GRANULATED BLAST-FURNACE SLAG AND FLY ASH	Chairperson: Harald Muller 54: NOVEL TESTS AND IMPROVED UNDERSTANDING OF CONCRETE PERFORMANCE FROM VERY EARLY AGES	Chairperson: David Fernandez-Ordonez 450: PREFABRICATION / PRECAST - BENDIGO HOSPITAL Mr Peter HEALY	Chairperson: Dick Hordijk 596: DEVELOPMENT OF A HIGH MOD-E, VERY HIGH STRENGTH, HIGH PERFORMANCE, SUPER- WORKABLE LOW CARBON CONCRETE	Chairperson: Ehab Harned 516: FLOATING CONCRETE STRUCTURES Mr Tor Ole OLSEN	Chairperson: Rodney Paull 311: ANATOMY OF GROUTED POST-TENSION TENDON FAILURES Dr Randall POSTON
	Dr Padmaja KRISHNAN 519: CONSTRUCTION OF LARGE UHPC STRUCTURES – EXPERIENCE FROM A SLIPFORMING MOCK-UP TEST Dr Tor Arne MARTIUS-HAMMER	Mr Liang LI 66: MODELLING OF THE LONG TERM BEHAVIOUR OF THE PRESTRESSED CONTAINMENT OF NPPS Mr Jean Michel TORRENTI	448: DEVELOPMENT OF A NOVEL PRESTRESSED JOINT SYSTEM FOR PRECAST SLAB Mr Masami KOSHIISHI	Mr Stephen FOSTER 397: BOND PROPERTIES BETWEEN PRINTABLE CONCRETE AND ROCK Mr Zhiyuan HU	61: CRITERIA FOR THE MAXIMAL ADMISSIBLE THERMAL DIFFERENTIAL WITHIN A MASS CONCRETE ELEMENT Mr Laurent BOUTILLON	38: GALVANIZED STEEL REINFORCEMENT Prof Stephen YEOMANS
	239: BENDING BEHAVIOUR OF FILIGREE STRUCTURAL ELEMENTS MADE OF TEXTILE REINFORCED UHPC Mr Philipp PREINSTORFER	569: EXPERIMENTAL INVESTIGATION OF CREEP RECOVERY OF T-SHAPED RC BEAMS AND VALIDATION OF CREEP AND CREEP RECOVERY MODELS Mr Nicky REYBROUCK	293: TWO-BEAM MODEL – NEW METHOD FOR DETERMINING SHEAR CAPACITY OF HOLLOW CORE SLABS IN SLIM FLOORS A/Prof Wit DERKOWSKI	444: SEEBECK EFFECT IN CARBON NANOTUBE- REINFORCED CEMENT PASTES Dr Alastair MACLEOD	115: DESIGN AND CONSTRUCTION OF THE YOBAISAN VIADUCT Mr Ryo OYAGI	2: SIGNIFICANCE OF CRACKS IN DURABILITY DESIGN AND ASSESSMENT OF HYDRAULIC CONCRETE STRUCTURES DUE TO REINFORCEMENT CORROSION Dr Amir RAHIMI
F	9: IMPROVEMENT OF REINFORCED CONCRETE VOID SLAB BRIDGES BY USING ULTRA HIGH PERFORMANCE FIBRE REINFORCED CEMENT- ASED COMPOSITES (UHPFRC): AN ANALYTICAL INVESTIGATION Dr Tohru MAKITA	499: ADVANTAGES OF CHEMICALLY POST- TENSIONED STEEL FIBRE REINFORCED CONCRETE SLABS ON GRADE AND SUSPNDED SLABS: FROM DESIGN STAGE TO APPLICATION Mr Xavier DESTREE	463: HISTORY OF CONCRETE CODES/STANDARDS IN AUSTRALIA Mr John WOODSIDE	274: POLYUREA AS A MATERIAL TO REINFORCE THE SURFACE AND INCREASE THE WATERPROOFING OF CONCRETE Dr Marek MAJ	306: 3D-PRINTED CONCRETE OFFICE BUILDING IN DUBAI Dr Musa ALAWNEH	122: MECHANICAL BEHAVIOUR OF POST- TENSIONED PC GIRDERS HAVING RUPTURED TENDONS Prof Hiroshi MUTSUYOSHI
	63: CONTROL OF THE ULTRA-HIGH ERFORMANCE FIBRE REINFORCED CONCRETE (UHPFRC) CONCERNING TO POST-CRACKING PERFORMANCE Miss Lufan LI	27: EXPERIMENTS ON DRYING, SELF- DESICCATION AND SHRINKAGE OF CONCRETE WITH DIFFERENT WATER CEMENT RATIO Dr Marek VINKLER	581: A NOVEL NON-COMBUSTIBLE LIGHTWEIGHT CORE FOR PREFABRICATED SANDWICH PANELS Dr Ailar HAJIMOHAMMADI	352: DEVELOPMENT OF MULTIFUNCTIONAL SANDWICH PANELS FOR INTEGRATED REHABILITATION OF RC-BUILDINGS: CHARACTERIZATION OF THE COMPONENTS Enzo Martinelli	172: CONFINEMENT IN BENDING OF LIGHTWEIGHT AGGREGATE CONCRETE BEAMS Mr Jan Arve ØVERLI	157: EFFECT OF CORRODED REBAR SHAPE, RUST AROUND REBAR AND CRACK DUE TO CORROSION ON BOND BEHAVIOUR Ms Yizhou YANG
	308: EXPERIMENTAL AND NUMERICAL SIMULATION INVESTIGATION OF UHPC CONCRETE BEAM-COLUMN JOINT IN UNDERGROUND STRUCTURES Dr Xuesong CAI	283: COMPARISON OF CREEP AND SHRINKAGE STRAINS OF LARGE CONCRETE SPECIMENS WITH THEORETICAL MODELS Mr Dominik SUZA	344: A SIMPLIFIED METHOD FOR THE FLEXURAL ANALYSIS OF PREFABRICATED CONCRETE SANDWICH PANELS MADE WITH DIAGONAL BAR CONNECTORS Mr Qian HUANG	507: MECHANICAL PROPERTIES AND DURABILITY PERFORMANCE OF POLYMER- MODIFIED CONCRETE Dr Farhad NABAVI	584: DESIGNING SERVICE LIFE INTO THE TENDER DOCUMENTS FOR HIGH PERFORMANCE CONCRETE CONSTRUCTION Mr Stuart CURTIS	503: QUANTIFICATION AND PROPAGATION OF UNCERTAINTIES OF MODELS FOR CORRODEL REINFORCEMENT IN STRUCTURAL ANALYSIS Dr Árpád RóZSÁS
	431: HIGH RESISTANCE STAY CABLES AND UHPFRC DECK TO SPAN 1100 METERS Mr Marco NOVARIN		79: ENTIRE DISPLACEMENT DISTRIBUTION OF REINFORCED CONCRETE BOX CULVERT IN THE DAMAGING PROCESS SUBJECTED TO HORIZONTAL LOAD Dr Yoshinori MIYAGAWA		33: ONE GIRDER OF ONE AND HALF KM LONG BRIDGE ON RIVER BRAHMAPUTRA Mr Venkatramana Narayan HEGGADE	243: EXPERIMENTAL AND ANALYTICAL STUDY ON LONG TERM PERFORMANCE OF RC BEAMS SUBJECTED TO SUSTAINED LOADS AND CHLORIDE ENVIRONMENT Dr Ding NIE
				OON TEA yer 2 & 3		
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
	LARGE CHALLENGING PROJECTS Chairperson: Brett Pielstick	FIRE Chairperson: Priyan Mendis	REINFORCEMENT & PRESTRESS Chairperson: Randall Poston	FIBRE REINFORCED CONCRETE Chairperson: Vyacheslav Falikman	DESIGN & CONSTRUCTION Chairperson: Tor Ole Olsen	CONCRETE DETERIORATION METHODS Chairperson: Amir Rahimi
	426: POST-TENSIONED CONCRETE WIND TOWERS AND "EOLIFT" SYSTEM Mr Marco NOVARIN	374: RESIDUAL CAPACITY OF CONCRETE PREPARED WITH POROUS AGGREGATE EXPOSED TO ELEVATED TEMPERATURE Prof Sherif YEHIA	161: DIFFERENCES IN BENDING BEHAVIOUR OF STEEL AND GFRP REINFORCED BEAMS A/Prof Viktor BORZOVIC	433: ANALYTICAL CORRELATION BETWEEN MONTEVIDEO TEST (MVD) AND THREE-POINT BENDING TEST FOR FIBRE REINFORCED CONCRETE (FRC) Prof Luis SEGURA-CASTILLO	35: CHECKING OF STRUCTURAL SAFETY – EXPERIENCES WITH LARGE-SCALE STRUCTURES Prof Robert HERTLE	76: INVESTIGATION OF THE INFLUENCE OF LOADING FREQUENCY ON THE FATIGUE RESISTANCE OF HIGH STRENGTH CONCRETE Mr Sebastian SCHNEIDER
	338: VIADUCTS OF THE TOLUCA-MEXICO INTERCITY TRAIN Mr Jordi REVOLTOS	501: ARE SYNTHETIC FIBRES EFFECTIVE ON FIRE RESISTANCE IN ALL STRENGTH CLASSES? Mr Mohammed ABED	305: EXPERIMENTAL AND THEORETICAL ANALYSIS OF SLENDER G-FRP REINFORCED SLABS Prof Vladimir BENKO	428: ENHANCED ENERGY DISSIPATION IN STEEL FIBER REINFORCED CONCRETE BARRIERS Dr Mi CHORZEPA	326: REDUCTION OF SHEAR RESISTANCE IN BUBBLEDECKS WITH OPENINGS Prof Nazar OUKAILI	158: BOND BEHAVIOR IN REINFORCED CONCRETE UNDER HIGH CYCLE FATIGUE PUSH IN LOADING Mr Abedulgader BAKTHEER
		343: FIRE PERFORMANCE LIGHTWEIGHT AERATED CONCRETE AND STEEL COMPOSITE WALL PANELS Mr Ali AL-DUJAILI, Mr Ehsan NEGHBAN	364: NUMERICAL AND EXPERIMENTAL VALIDATION OF FRP REINFORCEMENTS USED IN EMBEDDED THROUGH- SECTION STRENGTHENING METHOD Mrs Haifa SALEH	113: EXPERIMENTAL LOADING TESTS OF STEEL- FIBRE REINFORCED CONCRETE (SFRC) SLAB IN INTERACTION WITH SUBSOIL Prof Radim CAJKA	200: STRUCTURAL PERFORMANCE OF SCREW ANCHORS OF DIFFERENT TYPES UNDER THE TENSILE LOADING Dr Alireza MOHYEDDIN	160: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS OF CONCRETE FATIGUE BEHAVIOR EXPOSED TO VARYING LOADING RANGES Mr Abedulgader BAKTHEER
,	408: YAVUZ SULTAN SELIM BRIDGE CABLE ECHNOLOGY - AN IMPORTANT MILESTONE ON LONG SPAN CABLE STAYED STRUCTURE	556: FIRE PERFORMANCE OF AEARATED ALKALI ACTIVATED SLAG FOR UNITISED FACADE SYSTEMS		482: EVALUATION OF ANCHORAGE CAPACITY OF HEADED BARS IN STEEL FIBER REINFORCED CONCRETE EXTERIOR BEAM-COLUMN JOINT Mr Seunghwa LEE	44: INFLUENCE OF THE DESIGN REVIEW PROCESS ON THE DESIGN REVIEW ENGINEER DUE TO HUMAN FACTORS Prof Robert HERTLE	204: EXPERIMENTAL INVESTIGATION OF SIZE EFFECT ON FATIGUE BEHAVIOR OF HIGH STRENGTH CONCRETE Mr Vivian FREI
Т	DEVELOPMENT Mr Julien-Erdem ERDOGAN	Dr Kate Tq NGUYEN				

	Wednesday, 10 October 2018							
:30	REGISTRATION 07:3 Main foyer 2 & 3							
22	Plenary 3 Chairperson: Tor Ole Olsen IN QUEST OF THE HOLY GRAILS OF CONSTRUCTION Prof Campbell R. MIDDLETON							
:00								
45			ALKALI-SILICA REACTI Dr Michae				(
10:30 MORNING TEA Main foyer 2 & 3							1	
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219		
	BRIDGES	SEISMIC	REINFORCEMENT & PRESTRESS	fib AWARDS WINNERS	MODELLING & DESIGN	COMPOSITE AND HYBRID		
	Chairperson: Johann Kollegger 312: STUDY ON THE AERODYNAMIC PERFORMANCE AND CABLE DESIGN METHOD OF AN EXTRADOSED AND SUSPENSION HYBRID BRIDGE WITH 800M SPAN OF BUTTERFLY WEB GIRDER	Chairperson: Alessandro Palermo SPECIAL SESSION - SEISMIC	Chairperson: lan Gilbert 360: THIN CONCRETE PANELS PRESTRESSED WITH CARBON TEXTILE REINFORCEMENT: FLEXURAL TESTING Mrs Katarzyna ZDANOWICZ	Chairperson: Jim Forbes	Chairperson: Shan Kumar 358: A PUNCHING SHEAR MECHANICAL MODEL FOR REINFORCED CONCRETE SLABS WITH AND WITHOUT PUNCHING REINFORCEMENT Prof Antonio MARI	Chairperson: Riadh Al-Mahaidi 453: INFLUENCE OF CONCRETE MODULUS ON THE AXIAL BEHAVIOUR OF PULTRUDED FIBRE REINFORCED POLYMER TUBE COLUMNS Prof Thiru ARAVINTHAN		
5	Mr Hiroyuki UCHIBORI 365: NORTHLINK WA: COLLIER RD SPUI BRIDGE – INNOVATION IN DESIGN Mr Andreas KERKOVIUS	3. 2572 3250.31 32.51.10	259: CARBON FIBRE TENDONS FOR A DURABLE BRIDGE STRUCTURE Dr Christian GLAESER		196: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS OF LARGE SCALE FATIGUE TESTS Prof Steffen MARX	168: SMALL-SCALE TESTING ON BOND BEHAVIOR OF PROFILED STEEL REINFORCED CRC COMPOSITE SLABS MISS OU YI)	
0	110: STUDY FOR CAUSAL INFERENCE ABOUT CRACKS FOUND IN THE WEBS OF A PRESTRESSED CONCRETE BRIDGE Mr Taizan KAWATANI	414: THE BASE ISOLATION OF THE NEW TRIESTE HARBOR LOGISTIC PLATFORM Mr Julien-Erdem ERDOGAN	41: LARGE SCALE TESTING ON STRUCTURAL REINFORCED ELEMENTS AND STAY CABLE SYSTEMS Dr Alex-W. GUTSCH		83: RESIDUAL PROPERTIES OF SLABS THAT DID NOT FAIL DURING A FIRE EVENT A/Prof Avraham DANCYGIER	99: EXPERIMENTAL STUDY ON UNBONDED PRESTRESSED CONCRETE BEAM-COLUMN SUBASSEMBLAGES Mr Daiki HINATA		
5	118: INNOVATIVE SHIP IMPACT PROTECTION FOR THE MERSEY GATEWAY BRIDGE Dr Kenneth C. KLEISSL	355: GROUP BEHAVIOUR OF DOUBLE HEADED ANCHORED BLIND BOLTS UNDER CYCLIC LOADING Dr Tilak POKHAREL	461: EVALUATION TESTS FOR NEW APPLYING OF ULTRA-HIGH STRENGTH PC STRAND Mr Rei KASAHARA		121: EFFECTS OF CONFINEMENT ON THE BOND BEHAVIOUR BETWEEN REBAR AND HIGH STRENGTH CONCRETE Prof Ana Lucia H C EL DEBS	253: EXPERIMENTAL STUDY ON FLEXURAL BEHAVIOR OF ECC-RC COMPOSITE BEAM Dr Zhi QIAO		
0	491: ENHANCING PERFORMANCE AND AESTHETICS OF CURVED BRIDGES Mr Alok PANDAY	165: SEISMIC RETROFIT OF CONCRETE SLAB- COLUMN CONNECTIONS USING FLEXIBLE SHEAR REINFORCEMENTS Prof Maria Anna POLAK	267: DURABILITY OF POST TENSIONING TENDONS: REVIEW OF PAST AND PRESENT PRACTICES AND FUTURE TRENDS TO PROTECT POST TENSIONING TENDONS AGAINST CORROSION Dr Max Ernst MEYER	CASE STUDIES - AWARD WINNERS	84: EVALUATION WAYS OF DEFLECTIONS OF BEAMS AND ONE-WAY SLABS A/Prof Avraham DANCYGIER	114: CONSTRUCTION OF A STEEL-CONCRETE HYBRID RIGID-FRAME BRIDGE Mr Kenichi KATA		
5	464: MONITORING OF EXISTING LONG SPAN BRIDGES – RESULTS, NUMERICAL SIMULATION, MATHEMATICAL MODELS FOR LONG TERM PREDICTION PROF LUKAS VRABLIK	PARC_CL 2.1 CRACK MODEL Prof Beatrice BELLETTI	214: EXPERIMENTAL STUDY ON REINFORCED CONCRETE MEMBERS USING BAMBOO AND PP- BAND AS REINFORCEMENT Dr Masakazu TERAI		88: INTERNAL FORCES DUE TO IMPOSED DEFORMATION IN REINFORCED CONCRETE Dr Johannes BERGER	43: A MODIFIED DESIGN APPROACH TO THE FATIGUE LIMIT STATE FOR STUD SHEAR CONNECTORS IN STEEL-CONCRETE-COMPOSITE MEMBERS Prof Robert HERTLE		
5	FOR PRECAST "U" SECTION CONCRETE BEAM BRIDGES IN OBLIQUE RAILWAY UNDERPASSES Mr Agustín BLANCO	97: THREE-DIMENSIONAL SEISMIC ANALYSIS OF UNDERGROUND REINFORCED CONCRETE BOX CULVERT WITH L-JUNCTION Mr Tsuguhiro SHIMABATA 181: CYCLIC LOADING TEST OF RC COLUMNS			167: APPROACH SLAB AND ITS STRUCTURAL BEHAVIOUR DURING WHOLE SERVICE LIFE A/Prof Viktor BORZOVIC	101: INVESTIGATION OF ANCHORING COMPOSITE DOWELS UNDER DYNAMIC LOADS FOR USE IN WIND TURBINE TOWERS Prof Jens MINNERT	S	
0	32: CONSTRUCTION OF AN ICONIC SIGNATURE BRIDGE AT DELHI Mr Venkatramana Narayan HEGGADE	WITH BOND-SLIP CONNECTORS ON LONGITUDINAL BARS Mr Keita UEMURA	Lut	iru	280: THREE-DIMENSIONAL FORCE TRANSFER BETWEEN REINFORCEMENT AND CONCRETE Mr Chris HENDY			
			Main foy	yer 2 & 3				
١	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219		
ļ	Chairperson: Jim Forbes	SEISMIC Chairperson: Koichi Maekawa	FIBRE REINFORCED CONCRETE Chairperson: Marco di Prisco	fib NATIONAL REPORTS Chairperson: Tor Ole Olsen	DESIGN & CONSTRUCTION Chairperson: Christian Glaeser	MODELS FOR DURABILITY Chairperson: Stuart Matthews		
)	562: EMPIRICAL SHEAR STRENGTH MODEL AND NONLINEAR MODELING OF UNREINFORCED BEAM-COLUMN RC JOINTS WITH PLAIN BARS Dr Maria Teresa DE RISI	419: A MULTI-FUNCTIONAL SOLUTION FOR ALIBEYKOY AND KAGITANE VIADUCTS Mr Julien-Erdem ERDOGAN	387: TIME-DEPENDENT BEHAVIOUR OF FIBRE REINFORCED CONCRETE Prof lan GILBERT	fib NMG - UAE	395: THE USE OF GOPOLYMER CONCRETE AND GFRP MATERIALS FOR AN INNOVATIVE WHARF STRUCTURE Mr Thomas GLASBY	272: LONG-TERM DURABILITY OF TEXTILE REINFORCED CONCRETE Mr Arne SPELTER		
5	270: PERFORMANCE EVALUATION OF RC BEAMS WITH STIRRUP CORROSION AND RUPTURE Mr Shinya IKEHATA	220: A NEW BUCKLING MECHANISM OF LONGITUDINAL REBAR RELATED TO HORIZONTAL CRACK PROPAGATION IN BEAM CROSS SECTION UNDER CYCLIC LOADINGS Prof Hikaru NAKAMURA	94: NONLINEAR FE ANALYSIS OF STEEL FIBRE REINFORCED CONCRETE CONTINUOUS BEAMS Mr S M Faisal MAHMOOD	fib NMG - BRAZIL fib NMG - CZECH REPUBLIC	17: FIELD DRIVING TESTS OF PRECAST CONCRETE PILES REINFORCED WITH GLASS FRP BARS AND TIES Prof Brahim BENMOKRANE	460: KINGSFORD SMITH DRIVE PROJECT BRISBANE - DURABILITY ASSESSMENT AND PLANNING EXPERIENCES Mr Warren GREEN		
0	452: FATIGUE LIFE ASSESSMENT OF INITIALLY AND TIME-DEPENDENTLY DETERIORATED RC DECKS BY DATA ASSIMILATION Dr Yuya TAKAHASHI	417: ISOLATED LONG OVERHEAD VIADUCTS: A SOLUTION FOR IMPROVE CITIZENS' MOBILITY IN HIGH SEISMIC COUNTRIES Mr Julien-Erdem ERDOGAN	349: ASSESSING THE EFFECT OF SYNTHETIC FIBRES ON THE MECHANICAL PROPERTIES OF HIGH STRENGTH CONCRETE Dr Estela GARCEZ	fib NMG - FRANCE	56: FIXING SYSTEMS FOR THIN, TEXTILE REINFORCED CONCRETE FAÇADES LEAD TO A RENEWAL OF ESTABLISHED DESIGN RULES Dr Matthias ROIK	526: DETERMINING MINIMUM REINFORCEMENT BASED ON THE DEFORMATION COMPATIBILITY Prof Nguyen Viet TUE		
5	303: SAFETY OF PRECAST PRESTRESSED CONCRETE STRUCTURES AFTER DESIGN LIFE PERIOD A/Prof Wit DERKOWSKI	309: SEISMIC RESPONSE OF DEEP-BURIED SHIELD TUNNEL CONSIDERING INTERNAL- STORED RAINWATER Dr Xiao YAN	65: SHEAR CAPACITY OF HIGH STRENGTH REINFORCED CONCRETE BEAMS WITH STEEL FIBER Mr Narawit HEMSTAPAT	fib NMG - IRAN	59: PERFORMANCE-BASED REQUIREMENT IN DESIGN-BUILD CONTRACTING IN HIGHWAY CONSTRUCTION AND MAINTENANCE Prof Johan SILFWERBRAND	391: EXPERIMENTAL STUDY ON FATIGUE DURABILITY OF ULTRA HIGH DURABLE SLAB Mr Masato FUKUDA		
0	230: INTERACTION BETWEEN LONGITUDINAL BENDING MOMENT AND TRANSVERSAL SHEAR STRENGTH IN RC DECK SLABS OF HOLLOW BOX BRIDGE Prof Beatrice BELLETTI	201: EXPERIMENTAL STUDY ON THE SEISMIC RETROFIT OF PLAIN CONCRETE PIERS USING THE MOVEMENT RESTRAINING DEVICES FOR THE CONSTRUCTION JOINT Mr Kazuhiro SAKAOKA	169: STEEL FIBRE-REINFORCED RUBBERISED CONCRETE BARRIERS AS FORGIVING INFRASTRUCTURE Dr Thomaida POLYDOROU	fib NMG RUSSIA	103: APPLICATION OF THE NEW MEASURING METHOD OF FIBRE-OPTIC STRAIN MEASUREMENT ON REINFORCED CONCRETE COLUMNS WITH BUTT JOINT Prof Jens MINNERT	4: DURABILITY CRITERIA OF THE MARITIME INFRASTRUCTURE OF THE MONACO SEA EXTENSION Dr Christian CREMONA		
5	96: ULTIMATE SHEAR STRENGTH OF STEEL REINFORCED CONCRETE MEMBERS WITH LOW- STRENGTH CONCRETE MS Kju Kju NWE	187: ULTIMATE DEFORMATION CAPACITY OF REINFORCED CONCRETE COUPLING BEAMS Mr Yong LI	359: FAILURE MODE OF STEEL FIBER REINFORCED EXTERIOR BEAM-COLUMN JOINTS ACCORDING TO DEFORMATION CAPACITY Mr Dong-Hee SON	fib NMG - NEW ZEALAND	126: REMOVAL AND RECONSTRUCTION OF EXISTING PIERS UNDER LONG-TERM TEMPORARY SUPPORT UNDER TRAFFIC SERVICE Mr Dan SAITO	454: DURABILITY OF REINFORCED CONCRETE MARINE STRUCTURES UP TO 109 YEARS Miss Jemma EHSMAN	Ξ	
0				fib NMG - SWITZERLAND	610: FRAGILITY ANALYSIS OF A POST- EARTHQUAKE CFRP-REPAIRED LIMITED DUCTILITY RC BUILDING USING HYBRID SIMULATION Mr Ali Y. AL-ATTRAQCHI	221: FATIGUE LIFE OF CURVED TENDONS IN POST-TENSIONED CONCRETE STRUCTURES Mr Jörn REMITZ		
5			AFTERN Main fo	OON TEA yer 2 & 3				
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219		
	BRIDGES	EXISTING STRUCTURES	AAC and GEOPOLYMER	REPAIR & REHABILITATION	DESIGN & CONSTRUCTION	CONCRETE DETERIORATION METHODS		
5	Chairperson: Jim Forbes SPECIAL SESSION ON EXISTING BRIDGES. SERVICE LIFE AND CHALLENGES FOR THE FUTURE A discussion on service life and challenges for the future with some prominent fib people. A number of the	Chairperson: Chris Hendy 521: SEISMIC PERFORMANCE OF RC BEAMS WITH CURTAILED SECOND LAYER LONGITUDINAL REINFORCEMENT Dr Susumu KONO	Chairperson: Frank Dehn 297: EXPERIMENTAL INVESTIGATION OF BOND BETWEEN GEOPOLYMER CONCRETE AND GFRP BARS Dr Mohamed ELCHALAKANI	Chairperson: Lionel Linger 16: DURABILITY OF PLAIN AND FIBRE REINFORCED SHOTCRETE PILE REPAIRS IN A TROPICAL MARINE ENVIRONMENT Dr Marita ALLAN BERNDT	Chairperson: Tuan Ngo 557: MITIGATION OF EARLY AGE THERMAL & SHRINKAGE CRACKS IN PRESTRESSED CONCRETE WALLS OF CONTAINMENT ZONE OF INTERNATIONAL CENTER FOR FOOT AND MOUTH DISEASES AT BHUBANESWAR, INDIA Mr Umesh RAJESHIRKE	Chairperson: Nadarajah Gowripalan 307: RESONANT FATIGUE TEST FACILITY FOR LARGE SCALE BENDING TESTS Mr Raif HERRMANN	₹	
0	existing bridges were designed and built decades ago under very different design codes and load conditions than today. As the evolution of knowledge in the design and the changes in	22: COST-BENEFIT ANALYSIS OF ALTERNATIVE RETROFIT OPTIONS FOR PILOTIS-TYPE REINFORCED CONCRETE (RC) FRAME BUILDINGS Prof Donatello CARDONE	574: MITIGATING ALKALI SILICA REACTIONS IN THE ABSENCE OF USING SCMS: A REVIEW OF EMPIRICAL STUDIES. Miss Elsie NSIAH-BAAFI	587: REHABILITATION AND CFRP STRENGTHENING OF ASR AFFECTED CONCRETE BRIDGE PIERS Dr Reza SALAMY	MIT UMBSIN KAJESTHIKNE 363: BEHAVIOR OF JOINTS IN BETWEEN FILIGREE PLANK PROFILES SUBJECTED TO BENDING: AN EXPERIMENTAL STUDY MIT TOM MOLKENS	70: AGE OF STRUCURES/DAMS THROUGH THE DETERIORATION OF CEMENT CONCRETE IN FLOWING WATER DUE TO SEEPAGE & CEMENT LOSS Mr Kulwant Singh SINGH		
15	regulations and load requirements for bridges have evolved, there is a need to rethink on how to deal with the maintenance and use of existing bridges. Recent accidents like the	211: EXPERIMENTAL STUDY ON REMAINED FATIGUE LIFE OF DAMAGED REINFORCED CONCRETE BRIDGE SLAB Mr Takashi KURODA	618: DEVELOPMENT & APPLICATION OF HIGH DENSITY GEOPOLYMER CONCRETE FOR BREAKWATER ARMY UNITS Mr Aziz Hasan Mahmood	250: REPLACEMENT METHODS OF PARTIALLY OR FULLY COLLABSED EXTERNAL BONDED TENDONS Dr Christian GLAESER	341: TEST METHOD FOR CURVATURE- DEPENDENT TENSILE STRENGTH REDUCTION OF TEXTILE REINFORCED CONCRETE (TRC) Mr Dennis MESSERER	543: DAMAGE REASONS ANALYSIS OF PT CABLES BLISTER IN A ROAD BRIDGE Dr Piotr GWOźDZIEWICZ	_	
00	bridges. Recent accidents like the Genova Polcevera Bridge show how important it is to have this discussion. Participants: Hugo Corres, fib President, (Spain) Marco di Prisco (Italy)		130: EVALUATION OF THE BEHAVIOR OF REINFORCED CONCRETE WITH ALKALI ACTIVATED BINDERS EXPOSED TO SEVERELY HIGH TEMPERATURES Miss Kruthi Kiran RAMAGIRI	45: REPLACEMENT OF FLOOR SLAB OF THE STEEL BRIDGE WITH NIGHT ROAD CLOSED AND TRAFFIC CONTROL Mr Hidekazu HAYASHI	18: EXPERIMENTAL STUDY ON STRUCTURAL	570: LIFE CYCLE COST ANALYSIS OF SHORT AND MEDIUM SPAN CONCRETE BRIDGE IN THE NORTH OF CHINA MS QI XU	ΙE	
15	Marco di Prisco (italy) Aurelio Muttoni (Switzerland) Akio Kasuga (Japan) John Fenwick (Australia)			208: DESIGN OF UHPFRC DECK SLAB FOR REPLACEMENT OF DETERIORATED CONCRETE SLAB Mr Kimio SAITO		254: PREMATURE FAILURE OF HIGH-STRENGTH GROUT IN FATIGUE TESTS DUE TO THE WARMING OF SPECIMEN DURING CYCLIC LOADING Mrs Corinne OTTO	Н	

	Thursday, 11 October 2018								
07:30	REGISTRATION 07:30 Main foyer 2 & 3								
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219			
	BRIDGES Sponsored by DSI	POSTERS	AAC & GEOPOLYMER	REPAIR & REHABILITATION	MODELLING & DESIGN	STRUCTURAL STRENGTHENING			
08:30	Chairperson: Michel Moussard	Chairperson: David Fernandez-Ordonez	Chairperson: Craig Heidrich	Chairperson: Norbert Randl	Chairperson: Tamon Ueda	Chairperson: Riadh Al-Mahaidi	08:30		
	112: DESIGN AND CONSTRUCTION OF A PRESTRESSED CONCRETE COMPOSITE			265: STRATEGIES FOR USING STRUCTURAL LIGHTWEIGHT CONCRETE	424: THERMAL CRACKING ANALYSIS OF	119: SHEAR RESISTANCE OF DECK SLABS SUBJECTED TO CONCENTRATED			
08:40	BRIDGE OVER A ROAD, A RAILWAY AND A RIVER Mr Ryoichi KAWANAKA	223: EXPERIMENTAL VERIFICATION OF		FOR BRIDGE REHABILITATION Dr Reid CASTRODALE	MASSIVE CONCRETE INFRASTRUCTURE Dr Mi CHORZEPA	LOAD Prof Jaroslav HALVONIK	08:40		
08:45		CONCRETE RESISTANCE AGAINST LOW- PH ENVIRONMENT Mr Stanislav REHACEK	DELIVERY OF GEOPOLYMER CONCRETE TO THE MARKETPLACE – CASE STUDIES				08:45		
08:50	186: AN AUSTRALIAN FIRST SOLUTION	WI Stallislav KETIASEK	Mr Thomas GLASBY	236: A CASE STUDY ON RESTORATION OF LARGE SPAN BALANCE CANTILEVER TYPE BRIDGE STRUCTURE ACROSS	102: FEASIBILITY EVALUATION OF	329: FAILURES AND REHABILITATION OF SLOVAK FIRST GENERATION PRECAST	08:50		
	TO DELIVER KEY INFRASTRUCTURE IN CHALLENGING RAIL ENVIRONMENTS Mr George MAKRAKIS	323: EXPERIMENTAL STUDY ON THE REINFORCED CONCRETE PILE-CAP WITH A PILE, EXTERIOR COLUMN AND		RIVER NARMADA ON CHANDOD POICHA ROAD, GUJARAT, INDIA	BRIDGE PIER CAP DESIGN BY COMPARING CURRENT DESIGN CODES Mr Juniong AN	BRIDGE ERECTED BY BALANCED CANTILEVER METHOD			
	•	FOUNDATION BEAM Prof Shinji KISHIDA		Mr Sureshchandra PATEL, Mr Jitendrakumar PATEL	•	Prof Martin MORAVCIK			
09:00							09:00		
09:10	486: CABLES FOR EXTRADOSED	382: THE USAGE OF THE ACOUSTIC	DOES GEOPOLYMER CONCRETE HAVE	330: CONCRETE TO CONCRETE BOND -	95: FUNDAMENTAL STUDY ON BOND	385: INFLUENCE OF COATING THE STEEL TUBE ON THE BOND STRESS	09:10		
	BRIDGES IN INDIA Mr Werner BRAND	EMISSION METHOD FOR THE EXPERIMENTAL DETERMINATION OF THE DAMAGE PROGRESS IN THE FINE-	A ROLE IN SUSTAINABLE CONSTRUCTION? A/Prof James ALDRED	A CRITICAL REVIEW ON METHODS FOR BOND STRENGTH DETERMINATION Prof Norbert RANDL	PROPERTIES USING FIBER-OPTIC STRAIN SENSOR Mr Atsushi SHIBAYAMA	BETWEEN THE STEEL TUBE AND CONCRETE			
		GRAINED CEMENTITIOUS COMPOSITES SUBJECTED TO LOADING				Mr Peter GANDY			
09:15		Miss Michaela HODULáKOVá 314: RESISTANCE OF CONCRETE WITH					09:15		
	481: GORI NADI BRIDGE: A UNIQUE	STYRENE-ACRYLATE ADDITIVE IN LOW- PH ENVIRONMENT Dr Daniel DOBIAS	FIELD MONITORING OF GEOPOLYMER	354: EXPERIMENTAL AND NUMERICAL STUDY OF BOND BEHAVIOUR BETWEEN	116: NUMERICAL SIMULATION OF CRACK PROPAGATION USING RANDOMLY	284: SHORT-TERM BRIDGE			
09:20	UNSYMMETRICAL BRIDGE IN INDIA Mr Alok PANDAY	133: PROPERTIES OF CONCRETE OBTAINED FROM RC BUILDING	STRUCTURES Dr Kirubajiny PASUPATHY	NSM CFRP LAMINATE AND CONCRETE EXPOSED TO HIGH TEMPERATURE Dr Kamiran ABDOUKA	DISTRIBUTED MATERIAL PARAMETERS Mr Marcel MEINHARDT	STRENGTHENING METHOD Mr Dominik SUZA	09:20		
		CONSTRUCTED AT 1971 Prof Hideo ARAKI		Di Namilian ADDOUNA					
09:30	156: CABLE STAYS – NEW FUNCTIONALITIES, AESTHETICS AND	86: EXPERIMENTAL EXAMINATION OF LOAD-CARRYING CAPACITY FOR A	FIRE DESIGN IN GEOPOLYMER	162: COMPARISON OF FRP-TO- CONCRETE ANCHORED JOINTS	558: NUMERICAL SIMULATION OF	319: SHEAR CAPACITY EVALUATION OF UNBONDED PRECAST PRESTRESSED	09:30		
	PROTECTION PROTECTION Mr Rachid ANNAN	FATIGUED CONCRETE BEAM REINFORCED WITH ROUND REBAR Mr Hiroshi HAYASHIDA	CONCRETE STRUCTURES Prof Jay SANJAYAN	DESIGNED FOR FRP SHEAR- STRENGTHENED RC T-BEAMS Dr Ahmed GODAT	PRECAST CONCRETE PANEL FOR AIRFIELD PAVEMENT Dr Josef NOVAK	CONCRETE BEAM-COLUMN JOINTS CAUSED VOLUME LOSS BY SHEATH TUBES			
09:40 09:45		WII HIIOSIII HATASHIDA				Mr Yuji TAJIMA	09:40 09:45		
09:50	218: IN-SITU SHEAR TESTS ON A 64 YEAR OLD ROADBRIDGE	206: PERFORMANCE IMPROVEMENT OF LIGHT TRANSPARENT CONCRETE	PERFORMANCE SPECIFICATION FOR MECHANICAL AND MATERIALS PROPERTIES OF GEOPOLYMER	586: BONDING BEHAVIOUR OF MINERAL COMPOSITE IN METAKAOLIN VARIED CFRP RETROFIT	493: NUMERICAL INVESTIGATIONS ON THE BEHAVIOUR OF CIRCULAR ANCHOR		09:50		
	Mr Sebastian GEHRLEIN	Prof Byoungil KIM	CONCRETE Prof Stephen FOSTER	Mr Raghavendra VASUDEVA UPADHYAYA	GROUPS Ms Nilde MISHAXHIU	EXPERIENCE Mr Padmakar MANJURE			
10:00		275: MODEL FOR DESCRIBING SILO			289: AN EMBEDDED STRONG DISCONTINUITY APPROACH BASED ON	216: STRENGTHENING OF STEEL CONCRETE COMPOSITE GIRDER	10:00		
		WALL DISPLACEMENTS INDUCED BY SELF-EXCITED VIBRATIONS			LOCAL DEGREES OF FREEDOM FOR MODELLING FRACTURE IN CONCRETE	BRIDGE USING THE EXTERNAL PRESTRESSING TENDON			
		Prof Andrzej UBYSZ	OPEN DISCUSSION OF THE FUTURE OF GEOPOLYMER CONCRETE AND SESSION CLOSING REMARKS		STRUCTURES Mr Marcelo CARVALHO	(YUMIFURIGAWA BRIDGE) Mr Kotaro IKEGAMI			
10:15	512: NEW METHOD FOR THE PRODUCTION OF DECK SLABS OF	357: OPTIMISING THE MIXTURE PROPORTIONING OF HIGH VOLUME FLY	Mr Craig HEIDRICH	143: EXPERIMENTAL STUDY AND APLICABILITY AGAINST METHOD DEVELOPED FOR REPAIR OF SALT-	313: CLOSED FORM ADAPTIVE EFFECTIVENESS FACTOR FOR	583: COMPARISON OF THE SEISMIC PERFORMANCE OF SLENDER AND	10:15		
	STEEL-CONCRETE-COMPOSITE BRIDGES Prof Johann KOLLEGGER	ASH SELF-COMPACTING CONCRETE Miss Zhiyuan ZHOU, Dr Massoud SOFI, Prof Priyan MENDIS		DAMAGED RC SLABS LOCATED IN SNOW COLD DISTRICTS Mr Hiroaki KAMEDA	NUMERICAL MODELS Dr Morten HERFELT	SQUAT T-SHAPED RC WALLS Dr Jiaxing MA			
10:30				NG TEA yer 2 & 3			10:30		
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219			
	CONCRETE MATERIALS	POSTERS	REPAIR & REHABILITATION	DESIGN & CONSTRUCTION	MODELLING & DESIGN				
11:00	Chairperson: Nico Hermann	Chairperson: David Millar 361: EXPERIMENTAL INVESTIGATION OF	Chairperson: Fernando Stucchi	Chairperson: Jay Sanjyan	Chairperson: Andreas Sjaastad		11:00		
	183: MECHANICAL AND THERMAL	THE MATERIAL CHARACTERISTICS OF YOUNG FINE-GRAINED CEMENT-BASED COMPOSITES	300: REPAIR OF MAJOR CRACK IN 4 SPAN CONTINUOUS MODULE OF	451: CONSTRUCTION SPEED AND POUR	142: APPLICATION OF DIFFERENT PROBABILISTIC METHODS FOR				
11:10	PROPERTIES OF CONCRETE PAVEMENT USING EAF SLAG FINE AGGREGATE Mr Sushanta ROY	Mrs Barbara KUCHARCZYKOVá 131: MAGNETIC PROBE TO TEST	BRIDGE AT VARSOVA ON NH-48, NEAR MUMBAI, INDIA	STRIPS Dr David MCDONALD	STRUCTURAL RELIABILITY OF REINFORCED CONCRETE HYDRAULIC STRUCTURES		11:10		
	Wil Gustiania (Co.)	SPATIAL DISTRIBUTION OF STEEL FIBRES IN UHPFRC BEAMS Miss Lufan LI	Mr Dhananjay BHIDE		Mr Arslan TAHIR				
11:15		336: INVESTIGATION OF TEMPERATURE EFFECTS OF LARGE DIAMETER			163: FINITE ELEMENT INVESTIGATION		11:15		
	46: THERMAL STRESS MITIGATION IN MASS CONCRETE FOR P23 WELL CAP IN SIGNATURE BRIDGE DELHI	CONCRETE SILOS EXPOSED TO SOLAR RADIATION Mr Le XIE	394: RESEARCH ON THE INTEGRAL LATERAL RELOCATION TECHNIQUE OF CURVED CONTINUOUS BRIDGE	249: ADVANCED TENDON FEATURES FOR POST-TENSIONING OF WIND TOWERS	ON THE EFFECT OF COLUMN RECTANGULARITY ON PUNCHING SHEAR STRENGTH OF CONCRETE				
11:20	Mr Venkatramana Narayan HEGGADE	106: EXPERIMENTAL MEASUREMENT OF REINFORCEMENT CORROSION	Mr Hui GAO	Dr Christian GLAESER	SLABS Prof Maria Anna POLAK		11:20		
11:30	10: APPLICATION OF CONCRETE	Dr Miroslav BRODNAN 292: INNOVATIVE ELEMENTS AND	538- ELEVLIDAL TEST OF CONCESTS				11:30		
	INCORPORATING 25% FLY ASH BY WEIGHT OF CEMENT (THE "25% FLY ASH CEMENT") TO THE CONSTRUCTION OF A	STRUCTURES MADE FROM ULTRA HIGH - PERFORMANCE FIBRE REINFORCED CONCRETE	536: FLEXURAL TEST OF CONCRETE ELEMENTS BONDED WITH POLYMER FLEXIBLE JOINT: EXPERIMENTAL AND	212: TENSILE CAPACITY OF SCREW ANCHORS FAILING DUE TO THE PULL- OUT FAILURE MODE	191: DESIGN OF THE PARRAMATTA ROAD VENTILATION FACILITY ON WESTCONNEX 1B				
11:40	PRE-TENSIONED PRESTRESSED CONCRETE GIRDER Mr Yosuke AZUMA	Mr David CITEK 75: SIMULATION ANALYSIS OF PCAPC	NUMERICAL ANALYSIS Mr Lukasz ZDANOWICZ	Dr Alireza MOHYEDDIN	Mr Daniel THOMY		11:40		
11:45		THREE STORY SHAKING-TABLE TEST Prof Makoto MARUTA	31: PERFORMANCE EVALUATION BY WHEEL LOAD RUNNING TEST AFTER	195: HIGH STRENGTH REINFORCEMENT	328: BOND SPLITTING BEHAVIOUR OF		11:45		
11:50	550: CATENARY ACTION IN BEAM COLUMN CONNECTIONS: A REVIEW Mr Qazi Amjad Ali PATHAN	528: MECHANICAL FRACTURE PARAMETERS OF SELECTED MORTARS BASED ON ALKALI-ACTIVATED BINDER	REINFORCEMENT COMPARAING DETERIORATION DEGREE OF ROAD	– NEW CONCEPTS FOR HIGH RISE STRUCTURES	POST-INSTALLED AND CAST IN REINFORCING BARS		11:50		
	wazi Allijau All FATRAN	AND NATURAL FIBERS Dr Hana SIMONOVA	BRIDGE RC SLABS Mr Toshihiko NAGATANI	Mr Torsten VOSS	Prof Norbert RANDL				
12:00	178: STANDARDIZATION OF FLY ASH CONCRETE IN THE HOKURIKU REGION AND ITS APPLICATION TO		123: WHEEL RUNNING FATIGUE TEST OF UHPFRC DECK SLAB FOR HIGHWAY	182: CONSTRUCTION OF INTERMEDIATE SUPPORT OF A LARGE EXTRADOSED BRIDGE BY INCREMENTAL LAUNCHING	291: POTENTIAL OF THE RIGID FINITE ELEMENT METHOD IN REINFORCED		12:00		
	AND ITS APPLICATION TO PRESTRESSED CONCRETE BRIDGES Mr Tuan Minh HA		BRIDGES Mr Yuki YOKOTA	METHOD Dr Manabu HOSOTANI	CONCRETE BEAMS CALCULATIONS Dr Michal MUSIAL				
12:15				164: CONCRETE TEMPERATURE MANAGEMENT BY ALTERNATIVELY USING POST-COOLING OR PRE-	376: NUMERICAL INVESTIGATION ON PROGRESSIVE COLLAPSE RESISTANCE		12:15		
				COOLING (LIQUID NITROGEN) DURING CONSTRUCTION OF THE "PUENTE DEL	OF MULTI-STORY PLANAR RC FRAMES STRENGTHENED BY STEEL BRACES				
				ATLANTICO" IN PANAMA Mr Lionel LINGER	A/Prof Jun YU				
12.22	Plenary 3								
12:30	Chairperson: Stephen Foster CLOSING CEREMONY								
13:00				NCH			13:00		
	Main foyer 2 & 3								