



The International Federation for Structural Concrete 5th International fib Congress 2018
 MONDAY 08 October 2018 - THURSDAY 11 October 2018
 Melbourne Convention and Exhibition Centre

As at 25 June 2018

Monday, 08 October 2018						
07:30	REGISTRATION OPEN					
09:00	OPENING CEREMONY					
09:45	THE ART AND SCIENCE OF DESIGNING AND BUILDING THE TALLEST BUILDINGS IN THE WORLD Dr Andy DAVIDS					

10:30 Morning Tea Break

	Plenary 3 BRIDGES	Room 215 SHEAR & TORSION	Room 216 REINFORCEMENT & PRESTRESS	Room 217 CONCRETE MATERIALS	Room 218 MODEL CODES & STANDARDS	Room 219 SPECIAL SESSION - SUSTAINABILITY
11:00	213: BRIDGES STRUCTURES ON HIGH SPEED RAILWAY LINES IN GERMANY Mr Chongjie KANG	14: RECENT IMPROVEMENTS OF THE CRITICAL SHEAR CRACK THEORY FOR PUNCHING SHEAR DESIGN AND ITS SIMPLIFICATION FOR CODE PROVISIONS Dr Miguel FERNANDEZ RUIZ	380: FIB BULLETIN 75 RECOMMENDATION ON POLYMER-DUCT SYSTEMS FOR INTERNAL BONDED POST-TENSIONING – NEW SYSTEM PERFORMANCES AND VALIDATION FULL SCALE TESTS Mr Tommaso CICCONE, Mr Luca CIVATI	438: THE EFFECT PARTICLE SHAPE AND GRADING OF MANUFACTURED SANDS ON THE PLASTIC AND HARDENED PROPERTIES OF CONCRETE Mr Roy BUTCHER	434: FIB MODEL CODE 2020 AND EXISTING CONCRETE STRUCTURES Dr Stuart MATTHEWS	SPECIAL SESSION Koji SAKAI
11:15	205: DESIGN OF RAILWAY BRIDGES FOR HIGH-SPEED TRAFFIC Mr Sebastian SCHNEIDER	256: ADVANCED SHEAR STRENGTHENING TECHNIQUES FOR RC MEMBERS Prof Norbert RANDL	39: EXPERIMENTAL INVESTIGATION ON HIGH-STRENGTH MORTAR GROUT FOR AN INTERNAL STRENGTHENING SYSTEM WITH POST-TENSIONING TENDONS Mr Takafumi MIHARA	371: IS OLD CONCRETE CAPABLE OF AUTOGENOUS REPAIR? EFFECT OF HIGH CEMENT CONTENT Miss Magdalena RAJCAKOWSKA		
11:30	238: EXPERIMENTAL STUDY ON THE TENSILE CAPACITY OF BRIDGE DECK LOOP CONNECTIONS WITH SHEAR KEYS Dr Henrik Broener JOERGENSEN	154: SHEAR TESTS AT THE INNER SUPPORT OF CONTINUOUS POST-TENSIONED CONCRETE BEAMS Mr Tobias HUBER	373: SADDLES FOR STAY CABLES: DESIGN, TESTING AND DEVELOPMENTS Mr Tommaso CICCONE, Mr Andrea CASTIGLIONI DI CARONNO	392: CARBONATION OF CONCRETE USING FERRONICKEL SLAG Mr Quang Dieu NGUYEN	227: PREDICTION ACCURACY OF CODE PROVISIONS FOR THE CALCULATION OF CRACK WIDTHS Dr Martin EMPERMANN	425: THE EFFECT OF COARSE CRUSHED CONCRETE AGGREGATE ON THE CHLORIDE ION INGRESS OF STRUCTURAL CONCRETE Dr Wayne DODDS
11:45	324: ON THE ADVANTAGE OF EXTERNAL PRESTRESSING IN STRENGTHENING COMPOSITE CONCRETE - OPEN WEB EXPANDED STEEL BEAMS Prof Nazar OUKALI	170: STIFFNESS BASED APPROACH TO DETERMINE THE SHEAR-CAPACITY OF REINFORCED CONCRETE BEAMS Mr Thomas HERTLE	50: DEVELOPMENT AND TESTING OF EXTRA-BONDED 10-WIRE PC STRAND Dr Lev ZARETSKY	263: EXPANDED SLATE LIGHTWEIGHT AGGREGATE FOR HIGH PERFORMANCE STRUCTURAL CONCRETE Dr Reid CASTRODALE	506: PUNCHING SHEAR OF LIGHTWEIGHT AGGREGATE CONCRETE FLAT SLABS Dr Michal GOBYN	403: AN ATTEMPT TO USE OF WASTE HORTICULTURAL MINERAL WOOL AS AN ADDITIVE IN CEMENT COMPOSITES Dr Lukasz SADOWSKI
12:00	420: PARALLEL STRAND SYSTEM - 40 YEARS OF EXPERIENCE AND DEVELOPMENT – STATE OF THE ART FROM EARLY DAYS AND CHALLENGES FOR FUTURE DEVELOPMENTS Mr Julien-Erden ERDOGAN	217: A SHEAR STRENGTH MODEL FOR SHORT FRC COUPLING BEAMS Dr Boyan MIHAYLOV	590: BOND BEHAVIOR OF FRP-REINFORCEMENT TO CONCRETE – EXPERIMENTAL TESTS Prof Renata KOTYNYA	202: INVESTIGATING THE SELF-HEALING POTENTIAL OF CRACKED CONCRETE UNDER VARIABLE LOADS IN REAL AND LABORATORY SCALE Dr Nico HERRMANN	150: EXPERIMENTAL INVESTIGATIONS ON TENSION LOADED ANCHOR GROUPS OF ARBITRARY CONFIGURATIONS Ms Boglarka BOKOR	447: USE OF WASTE GLASS IN CONSTRUCTION MATERIALS Mr Ali BAGHERI
12:15	432: DESIGN OF HSBANVYE VIADUCT OF NORTHERN MARMARA MOTORWAY, TURKEY Mr Marco NOVARIN	591: SHEAR DEFORMATION AND FAILURE OF FRP REINFORCED CONCRETE BEAMS WITHOUT STRIPPERS Prof Renata KOTYNYA	561: FIBRE COMPOSITE REBAR: AN EMERGING CONSTRUCTION TECHNOLOGY FOR CONCRETE STRUCTURES IN AUSTRALIA Dr Allan MANALO	264: BENEFITS OF STRUCTURAL LIGHTWEIGHT CONCRETE ... OTHER THAN REDUCED DENSITY Dr Reid CASTRODALE	463: HISTORY OF CONCRETE CODES/STANDARDS IN AUSTRALIA Mr John WOODSIDE	480: THE USE OF LOW-CARBON-FOOTPRINT MULTI-SIZED FILLERS IN HIGH-PERFORMANCE CONCRETE Mr Saad BINHOWIMAL
12:30	449: ASSESSMENT AND BEHAVIOUR OF PRESTRESSED CONCRETE BRIDGE BEAMS IN SHEAR WITH LESS THAN MINIMUM SHEAR REINFORCEMENT Mr Matthew HOURIGAN	7: THE PROBLEM OF SHEAR FAILURE AND STRENGTH IN RC ELEMENTS: VARIETY OF POSSIBILITIES AND OPTIMAL CHOICE Mr Vitaii MITROFANOV	572: EXPERIMENTAL STUDY ON MECHANICAL BEHAVIORS OF SELF-BALANCED PRESTRESSED BAR Mr Pengfei XIE	396: THE EFFECT OF WASTE GLASS POWDER ON MICROSTRUCTURAL BEHAVIOUR WHEN USED AS A PARTIAL CEMENT REPLACEMENT Miss Nafisa TAMMANA	67: ON THE RELATION BETWEEN THE MEAN COMPRESSIVE STRENGTH AND THE CHARACTERISTIC ONE Mr Jean Michel TORRENTI	327: SUSTAINABLE CONCRETE USING RECYCLED AGGREGATE AND SUPPLEMENTARY CEMENTITIOUS MATERIALS Dr Samer AL MARTINI
12:45	320: STRENGTH AND SERVICEABILITY OF PARTIALLY PRESTRESSED CONCRETE BEAMS EXPOSED TO LIMITED REPEATED LOADING Prof Nazar OUKALI	77: COMPARISON OF RC BEAMS STRENGTHENED WITH PBO-FRCM COMPOSITE WITH DIFFERENT TYPES OF ANCHORAGE Mrs Dorota MARCINZAK	80: UTILISATION OF CARBON FIBRE REINFORCED POLYMERS CAPACITY IN STRENGTHENING CONCRETE STRUCTURES A/Prof Katarina GAJDOSOVA	603: EVALUATION OF THE POTENTIAL ASR OF FERRONICKEL SLAG AGGREGATE AND ITS MITIGATION BY FLY ASH A/Prof Prabir SARKER	304: SLENDER CONCRETE COLUMNS AT THE LOSS OF STABILITY Prof Vladimir BENKO	594: SUSTAINABLE CONSTRUCTION BY UTILIZING BUILDING RESOURCE STOCKS TO BE CONSIDERED RESILIENCE SITUATION Dr Masaki TAMURA

13:00 Lunch Break

	ULTRA HIGH PERFORMANCE	FIRE	PREFABRICATED & PRECAST	AAC & GEOPOLYMERS	MODEL CODES & STANDARDS	SUSTAINABILITY
14:00	74: NUMERICAL MODELLING OF FIBER-REINFORCED ULTRA-HIGH PERFORMANCE CONCRETE Ms Ingrid Lande LARSEN	502: INSIGHT INTO FIRE INDUCED SPALLING FROM HYDRO-THERMO-MECHANICAL MODELLING Dr James DE BURGH	511: SHAKE TABLE TEST ON SEISMIC BEHAVIOR OF MODULAR PRECAST COMPOSITE SHEAR WALL STRUCTURE Prof Bin ZHAO, Mr Qirui CAI, Prof Xilin LU	398: EXPERIMENTAL AND THEORETICAL EVALUATION OF TENSION-STIFFENING, CRACK SPACING, AND CRACK WIDTH OF GEOPOLYMER CONCRETE Dr Mark BETAR	421: A STRUCTURAL RELIABILITY BASED EVALUATION OF THE SAFETY FORMATS FOR NONLINEAR FINITE ELEMENT ANALYSIS OF REINFORCED CONCRETE STRUCTURES – CONCEPTS AND PRINCIPLES Dr Diego L. ALLAIK	SPECIAL PAPER ON SUSTAINABILITY Mr Petr HAJEK
14:15	593: PRELIMINARY RESULTS OF FIRST PURE SHEAR TEST ON UHPRFC Prof Evan BENTZ	418: POST-FIRE SEISMIC BEHAVIOR OF THE RC BEAM-COLUMN JOINTS Mr Xin Liu, Dr Ling-zhi LI	356: INNOVATIVE PREFABRICATED HIGH-RISE MODULAR BUILDING Mr Shan KUMAR	589: FRESH AND HARDENED PROPERTIES FOR A WIDE RANGE OF GEOPOLYMER BINDERS Dr Katalin KOPECSKO	522: A STRUCTURAL RELIABILITY BASED EVALUATION OF SAFETY FORMATS FOR NONLINEAR FINITE ELEMENT ANALYSIS OF REINFORCED CONCRETE STRUCTURES – ILLUSTRATION EXAMPLES Dr Diego Lorenzo ALLAIK	
14:30	555: PROPERTIES OF MATRIX-AGGREGATE TRANSITION ZONE IN ULTRA HIGH STRENGTH CONCRETE Dr Shanaka BADUGE, Prof Priyan MENDIS	81: EFFECT OF FIRE DAMAGE ON THE RESIDUAL PRESTRESS AND LOAD CARRYING CAPACITY OF PRE-TENSIONED PRESTRESSED CONCRETE BRIDGE GIRDERS Prof Susumu INOUE	378: THE DWYDAG DUCTILE CONNECTOR - AN INGENUOUS CONNECTION METHOD FOR PRECAST STRUCTURES IN HIGHLY SEISMIC ZONES Mr Jannik GAWLISTA	38: OPTIMIZING THE MIXING PROCEDURE FOR ALKALI-ACTIVATED BINDERS BASED ON THEIR RESPONSE TO AGGRESSIVE CHEMICALS Mr Swraj PATIL	564: COMPARATIVE STUDY ON RELIABILITY OF DUCTILITY AND STRENGTH LIMIT STATES IN DESIGN OF REINFORCED CONCRETE BEAMS IN FIB MODEL CODE Dr Hassan BAJI	462: FUNDAMENTAL PROPERTY OF MORTAR USING CEMENT CLINKER AS FINE AGGREGATE Dr Shintaro MIYAMOTO
14:45	222: LOAD-BEARING CAPACITY OF PROFILED DRY JOINTS BETWEEN ADJACENT UHPRFC PRECAST ELEMENTS Dr Vincent OETTEL	224: REPAIR OF STRUCTURAL CONCRETE AGAINST THERMO-MECHANICAL LOADS Prof Ananth RAMASWAMY	185: DEVELOPMENT OF PRECAST CONCRETE BARRIERS FOR REPLACEMENT IN METROPOLITAN EXPRESSWAYS Mr Yosuke ISHIHARA	294: SQUARE GEOPOLYMER CONCRETE COLUMNS REINFORCED WITH GFRP BARS SUBJECTED TO CONCENTRIC AND ECCENTRIC AXIAL LOADING Dr Mohamed ELCHALAKANI	582: INTRODUCTION OF NEW JSCE GUIDELINE FOR INTERVENTION OF EXISTING CONCRETE STRUCTURES Prof Takumi SHIMOMURA	515: CASE STUDY - THE CARES SUSTAINABLE CONSTRUCTIONAL STEEL CERTIFICATION SCHEME FOR STEEL REINFORCEMENT IN CONCRETE Mr Loeb BRANKLEY
15:00	566: SUBSTITUTION OF STEEL BY UHPC Prof Nguyen Viet TUE	125: EXPLOSIVE SPALLING BEHAVIOR AND LOAD CAPACITY OF PRESTRESSED CONCRETE MEMBERS EXPOSED TO FIRE Mr Kentaro FUJIMOTO	552: PROBABILISTIC ANALYSIS OF LOCAL FAILURE IN PRECAST BUILDINGS DUE TO ACCIDENTAL LOADINGS Mr Qazi Amjad Ali PATHAN	295: BEHAVIOUR AND DESIGN OF RECTANGULAR GEOPOLYMER CONCRETE COLUMNS REINFORCED WITH GFRP BARS Dr Mohamed ELCHALAKANI	383: TOWARD FIB MODEL CODE 2020: PARTIAL SAFETY FACTOR FOR RESISTING MODEL UNCERTAINTIES IN PLANE STRESS NLFEM ANALYSIS OF RC SYSTEMS Dr Paolo CASTALDO	538: REUSED RECYCLED AGGREGATE CONCRETE (RRAC) Mr Mohammed ABEED
15:15	402: PREFABRICATED UHPC COMPOSITE ELEMENT FOR PUNCHING SHEAR ENHANCEMENT Prof Norbert RANDL	135: DESIGN OF THE CUT AND COVER TUNNELS ON WESTCONEX 18 FOR HYDROCARBON FIRES Mr Jarrod HITCHCOX	483: EXPERIMENTAL INVESTIGATION INTO TENSION-FREE PIN SHEAR CONNECTORS IN PUSH-OUT TESTS Mr Zhiyuan HU	199: INVESTIGATION OF ONE-PART HYBRID ALKALINE CEMENT WITH HEAT-TREATED ALUMINOSILICATE ACTIVATOR Mrs Minwisk Dwi PRATIWI	331: OVERVIEW OF AASHTO LRFD DESIGN SPECIFICATIONS FOR CONCRETE BRIDGE REINFORCED WITH HIGH STRENGTH FRC Mr Steven NOLAN	24: SUSTAINABILITY APPROACH FOR THE STRUCTURAL DESIGN OF BUILDINGS Dr Mahdi ROBATI
15:30	58: EFFICIENT USE OF FIBERS IN UHPC – A STRUCTURED SCOPING REVIEW Ms Ingrid Lande LARSEN	497: MECHANICAL FRACTURE PARAMETERS OF CONCRETE EXPOSED TO HIGH TEMPERATURES RELATED TO APPROXIMATION OF TEMPERATURE FIELD IN EXPERIMENTAL PANELS Ms Iva ROZSYPALOVA	203: A STUDY ON THE RATIONAL JOINT FOR PRECAST MEMBER Mr Kazumasa OKUBO	207: THE INFLUENCE OF FLY ASH PROPERTIES ON STRENGTH AND STRUCTURE OF GEOPOLYMER PASTE Mrs Trivulan TRIVULAN	466: FIB MC2010 SHEAR ENHANCEMENT METHOD FOR POINT LOADED NON-SLENDER MEMBERS A/Prof Alimia UZEL	427: SUSTAINABILITY ANALYSIS OF TRANSPORTATION CORRIDORS UNDER CONSTRUCTION IN AN URBAN ENVIRONMENT Mr Shishir BANSAL

15:45 Afternoon Tea Break

	RESILIENCE & ROBUSTNESS	UNDERGROUND & FOUNDATIONS	FIBRE REINFORCED CONCRETE	AAC and GEOPOLYMER	ARCHITECTURAL CONCRETE	CONCRETE DETERIORATION METHODS
16:15	412: STAY CABLE HARDENING & PROTECTION NEW DEVELOPMENTS ON BLAST, FIRE AND ICE PROTECTIONS Mr Nicolas FABRY	266: FEASIBILITY ANALYSIS OF CROSS-SECTION CULVERT COMPOSED OF 3 RADIUS CIRCLE WITH REDUCED WALL THICKNESS Prof Mounir Khalil EL DEBS	194: MATERIAL FATIGUE OF STEEL FIBER REINFORCED HIGH PERFORMANCE CONCRETE FOR ON- AND OFFSHORE WIND TURBINES Mr Frederik BUCKENHUSKES	210: CHARACTERIZATION AND MECHANICAL PROPERTIES OF GEOPOLYMER PASTA Mrs Ari WIDAYANTI	379: FORMS FOLLOWS ENVIRONMENT Dr Maria Patricia GARIBALDI	160: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS OF CONCRETE FATIGUE BEHAVIOR EXPOSED TO VARYING LOADING RANGES Mr Abdulgader BAKTHEER
16:30	197: ELASTIC ENERGY BALANCE CONCEPT FOR THE DESIGN OF RESILIENT PRESTRESSED CONCRETE STRUCTURES AGAINST REPETITIVE SEVERE EARTHQUAKES Prof Shoji IKEDA	407: INTEGRATED WELL-PILE FOUNDATION OF A CABLE STAYED BRIDGE Mr Shishir BANSAL	57: TENSILE LOAD BEARING AND BOND BEHAVIOR OF CARBON REINFORCED CONCRETE UNDER CYCLIC LOADING Ms Juliane WAGNER	317: MATHEMATICAL APPROACH TO DETERMINE THE CO2 DIFFUSION COEFFICIENT OF GEOPOLYMER CONCRETE Ms Kirubajjig PASUPATHY	109: BIM AS A TOOL FOR SUSTAINABLE DESIGN Mr Christian K SANDVIK, Mr Fredrik FOUNGNER	406: BOND BEHAVIOUR OF REINFORCED CONCRETE UNDER HIGH CYCLE FATIGUE PULL-OUT LOADING Mr Marc KOSCHMANN
16:45	71: BOND STRENGTH OF EMBEDDED STEEL REINFORCEMENT AT HIGH STRAIN RATES Dr Shao-Bo KANG	335: INVESTIGATION OF DYNAMIC RESPONSE OF RECTANGULAR TUNNEL LINING STRUCTURES UNDER BLAST LOADING Mr Le XIE	382: MECHANICAL PROPERTIES AND DURABILITY OF FRC WITH GLASS-POLYMER COMPOSITE FIBER Prof Vyacheslav FALIKMAN	478: EXPERIMENTAL STUDY OF BOND STRENGTH BETWEEN REINFORCEMENT BARS AND CLASS F FLY ASH CONCRETE USING PULLOUT TEST Ms Ratni NURWIDAYATI	301: CONCRETE FRAME SYSTEM FOR SUSTAINABLE AND RESILIENT BUILDINGS Mr Petr HAJEK	405: SIMULATION OF NON-UNIFORM FROST DAMAGE ACCUMULATION IN RC BEAMS UNDER VARIOUS HEAT & MOISTURE EXPOSURE CONDITIONS Dr Fuyuan GONG
17:00	177: SEAWALLS, SEASON, RESILIENCE AND SUSTAINABILITY Mr Steven NOLAN	6: CRITICAL P19 & P23 FOUNDATIONS FOR SIGNATURE BRIDGE AT DELHI Mr V N HEGGADE	144: STATIC, CYCLIC AND IMPACT MECHANICAL CHARACTERISTICS OF STEEL FIBRE REINFORCED CONCRETE BASED ON WASTE CERAMIC AGGREGATE A/Prof Jacek KATZER	82: EFFECTS OF STORAGE PERIOD ON THE MECHANICAL PROPERTIES OF CONCRETE WITH ALKALI-ACTIVATED BINDERS Mr Ajinkya NARINGE	494: HERITAGE COMPLEX ARCH BRIDGES: MERGING STRUCTURE WITH ARCHITECTURE Mr Alok PANDAY	443: EFFECT OF ALKALI SILICA REACTION ON BOND STRENGTH AND LOAD CAPACITY OF REINFORCED CONCRETE STRUCTURES Dr Nadarajah GOVWIPALAN
17:15	179: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS ON EFFECTS OF SLAB CORNERS ON THE TORSIONAL BEHAVIOUR OF PERIMETER BEAMS Prof Tan KANG HAI	235: HOW TO BUILD QUALITY FOUNDATIONS FOR WIND TURBINES - A CONTRACTOR'S PERSPECTIVE Mr Alexandre MATHERN	551: EVALUATION OF STRAIN RATE EFFECT ON STEEL FIBRE REINFORCED CONCRETE Mr Lei YANG	134: ULTRA-LOW SHRINKAGE AND HIGH STRENGTH CONCRETE WITHOUT PORTLAND CEMENT Dr Taku MATSUDA	513: DAYLIGHT CONCENTRATION OF STRUCTURAL TRANSLUCENT CONCRETE BUILDING ENVELOPE A/Prof Baofeng HUANG	509: FREEZE-THAW RESISTANCE OF NORMAL AND HIGH STRENGTH RECYCLED AGGREGATE CONCRETE Dr Enzo MARTINELLI

18:00 WELCOME RECEPTION



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As at 25 June 2018

Tuesday, 09 October 2018						
07:30	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
REGISTRATION						
09:00	NEW INSIGHTS INTO THE DURABILITY PROPERTIES OF GEOPOLYMER CONCRETES Prof Frank DEHN					
09:45	600: HYGRO-MECHANICS BASED DESIGN AND PERFORMANCE ASSESSMENT OF STRUCTURAL CONCRETE Prof Koichi MAEKAWA					
10:30	Morning Tea Break					
11:00	BRIDGES	SHEAR & TORSION	MODELS FOR DURABILITY	CONCRETE MATERIALS	MODELLING & DESIGN	MONITORING & CONDITION ASSESSMENT
11:00	510: BUILDING BRIDGES USING THIN-WALLED CONCRETE ELEMENTS AND POST-TENSIONING Prof Johann KOLLEGER	500: COMBINED YIELD CRITERIA FOR SHEAR-BENDING IN NUMERICAL LIMIT ANALYSIS OF SLABS Mr Thomas Westergaard JENSEN	573: DURABILITY DESIGN EARLY AGE CRACK CONTROL - CONCRETE RESTRAINT FROM SITE MONITORING Mr Rodney PAULL	240: EXPERIENCE OF A LOW-PH CONCRETE FOR DEPOSITION TUNNELS Mr Alexandre MATHERN	136: RESPONSE SIMULATION OF UHPFRC MEMBERS Prof Serhan GUNER	37: FIELD TEST OF WIDE-RANGE-ULTRASONIC TESTING (WUT) TO DETECT UNFILLED GROUT IN POST-TENSIONING PRESTRESSED CONCRETE BRIDGES Mr Kuniharu FUKUSHIMA
11:15	411: DEVIATION SADDLES FOR CABLE BRIDGES: NEW DEVELOPMENTS ON SADDLE TENSIONING Mr Nicolas FABRY	245: ANALYSIS OF THE SHEAR LOAD BEARING BEHAVIOUR OF THIN WALLED CFRP REINFORCED UHPFC STRUCTURES Dr Benjamin KROMSER	221: FATIGUE LIFE OF CURVED TENDONS IN POST-TENSIONED CONCRETE STRUCTURES Mr Jörn REMITZ	400: THREE-DIMENSIONAL PARAMETERS TO CHARACTERIZE AND DESCRIBE THE SIZE AND SHAPE OF AGGREGATES BASED ON COMPUTED TOMOGRAPHY Mrs Blanca DORNISCH-BUND	504: CRACKING ANALYSIS OF A CONCRETE REINFORCED WITH TWO DIAMETER BARS: COMPARISON WITH EXPERIMENTAL RESULTS Dr Maurizio TALIANO	19: STUDY ON CONSERVATION FOR STAY CABLE SYSTEMS OF CABLE-STAYED BRIDGES Dr Hideaki SAKAI
11:30	404: I. CROSS LINKS: AN INNOVATIVE HIGH-PERFORMANCE CABLE DAMPING SOLUTION Mr Julien-Erdem ERDOGAN, Mr Ivica ZIVANOVIC	188: DEVELOPMENT OF CSMM BASED SEISMIC FRAGILITY CURVES OF RC HOLLOW RECTANGULAR BRIDGE PIERS Mr Vijay Kumar POLIMERU	60: FEEDBACK GATHERED DURING 2-YEAR MEASUREMENT OF DURABILITY INDICATORS FOR THE NEW COASTAL ROAD ON REUNION ISLAND (FRANCE) MAJOR PROJECTS Mr Lionel LINGER, Mr Jonathan MAI-NHU	78: BEST MIXING PROCEDURES OF CRUMB RUBBER CONCRETE Dr Osama YOUSSEF	251: AN INVESTIGATION OF THE STRAIN PROFILE OVER THE COVER IN REINFORCED CONCRETE ELEMENTS SUBJECTED TO TENSION Mr Reingard TAN	42: FIELD VIBRATION TESTING AND VIBRATION CALCULATION & EVALUATION OF OVER-TRACK BUILDING INDUCED BY SUBWAY Mr Ligang BAI
11:45	262: FROM ANCIENT ROMAN BRIDGE TO THE NEW HSR VIADUCT OVER RIVER ALMONTE Dr Guillermo CAPELLÁN	523: SHEAR TESTS ON REINFORCED CONCRETE BEAMS WITH EXTREMELY LOW AMOUNTS OF STIRRUPS Dr Nguyen Duc TUNG	489: A GENETIC ALGORITHM TO IDENTIFY THE OPTIMAL CONCRETE MIX FOR THE ELEMENTS SUBJECT TO RISK OF EARLY AGE THERMAL CRACKING Ms Maryam GHAREHCHAEI	49: EXPERIMENTAL STUDY ON THE MECHANICAL PROPERTIES OF LIGHTWEIGHT RUBBERIZED CONCRETE Dr Osama YOUSSEF	368: EVALUATION OF THERMAL STRESS DEVELOPMENT IN EARLY AGE CONCRETE Mr Aoehong ZHONG	127: LOWER WATER-TO-CEMENT-RATIO MAY INDUCE HIGHER DETERIORATION WHEN CONCRETE IS CRACKED - EXPERIMENTAL INVESTIGATION AND MECHANISM - Dr Satoshi FUJIMOTO
12:00	40: TESTING OF STAY CABLE SYSTEMS Dr Alex-W. GUTSCH	159: PUNCHING RESISTANCE OF FLAT SLABS WITH OPENINGS Prof Ludovik FILLO	5: EARLY AGE EXPOSURE TO CHLORIDES: THE CASE OF THE MARITIME INFRASTRUCTURE OF THE MONACO SEA EXTENSION Dr Christian CREMONA	215: PERFORMANCE OF ANCHORS IN EARLY-AGE CONCRETE WITH SUPPLEMENTARY CEMENTITIOUS MATERIAL Mr Ayad AL-YOUSOF, Dr Jersey LEE	98: ANALYSES FOR A REASONABLE SHEAR REINFORCEMENT DESIGN IN BRIDGE PIER Mr Jae-Hyun PARK	437: CONCRETE NOT DATA IN "R", AN OPEN SOURCE STATISTICS AND GRAPHICS PROGRAMMING ENVIRONMENT Mr William WARD
12:15	351: CABLE STAYED VIADUCT ON THE RAILWAY LINE 13 - GUARILHOS INTERNATIONAL AIRPORT Mr Fernando STUCCHI	514: CALIBRATION OF THE SHEAR STOP CRITERIA BASED ON CRACK KINEMATICS OF REINFORCED CONCRETE BEAMS WITHOUT SHEAR REINFORCEMENT Dr Yugang YANG	316: DURABILITY PLANS FOR MAJOR PROJECTS Dr David McDONALD	477: CONSIDERATION OF MANUFACTURE THE FLY ASH REMOVED UNBURNED CARBON BY FLOTATION METHOD, EFFECT OF MATERIAL PROPERTIES Mr Rintaro TAKEHARA	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
12:30	175: ADVANCING SMALL BRIDGES (DOWN UNDER - FLORIDA) Mr Steven NOLAN	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	488: EXPLANATION OF HOW CONCRETE FILLING DEFECT OCCURS ON MORTAR LOSS MODEL Mr Hiroaki OKU	258: TORSION OF REINFORCED CONCRETE ELEMENTS - BEHAVIOUR AND MODELLING Prof Jan VITEK	381: INSPECTION AND MONITORING OF STAY CABLES Mr Werner BRAND
12:45	568: DESIGN AND CONSTRUCTION OF BRIDGES FOR MOUNTAIN RAILWAYS Mr Neil BANERJEE	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 KOTES	524: ANCHOR CHANNELS WITH CHANNEL BOLTS IN ADVANCED REINFORCED CONCRETE TYPES Dr Christoph MAHREHOLTZ	282: A SIMPLE EXPRESSION TO EVALUATE BENDING CAPACITY AND COMPRESSION ZONE HEIGHT OF RECTANGULAR RC WALL SECTIONS A/Prof Avraham DANCYGER	193: APPLICATION OF ACOUSTIC EMISSION ANALYSIS FOR EVALUATION OF STATIC AND DYNAMIC EXPERIMENTS Mr Manuel KOOB
13:00	Lunch Break					
14:00	ULTRA HIGH PERFORMANCE	SHRINKAGE & CREEP	PREFABRICATED & PRECAST	NEW MATERIALS	DESIGN & CONSTRUCTION	REINFORCEMENT CORROSION
14:00	350: SUSTAINABLE ULTRA-HIGH PERFORMANCE CONCRETE INCORPORATING GROUND GRANULATED BLAST-FURNACE SLAG AND FLY ASH Dr Padmaja KRISHNAN	54: NOVEL TESTS AND IMPROVED UNDERSTANDING OF CONCRETE PERFORMANCE FROM VERY EARLY AGES Mr Liang LI	450: PREFABRICATION / PRECAST - BENDIGO HOSPITAL Mr Peter HEALY	3: CHARACTERIZATION OF MGO CEMENT PRODUCED UNDER DIFFERENT CALCINATION CONDITIONS Dr Cise UNLUER	516: FLOATING CONCRETE STRUCTURES Mr Tor Ole OLSEN	311: ANATOMY OF GROUTED POST-TENSION TENDON FAILURES Dr Randall POSTON
14:15	519: CONSTRUCTION OF LARGE UHPFC STRUCTURES - EXPERIENCE FROM A SLIPFORMING MOCK-UP TEST Dr Tor Arne MARTIUS-HAMMER	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 KOSHISHI	596: DEVELOPMENT OF A HIGH MOD-E, VERY HIGH STRENGTH, HIGH PERFORMANCE, SUPER-WORKABLE LOW CARBON CONCRETE Mr Stephen FOSTER	61: CRITERIA FOR THE MAXIMAL ADMISSIBLE THERMAL DIFFERENTIAL WITHIN A MASS CONCRETE ELEMENT Mr Lionel LINGER, Mr Laurent BOUILLON	38: GALVANIZED STEEL REINFORCEMENT Prof Stephen YEOMANS
14:30	239: BENDING BEHAVIOUR OF FILGREE STRUCTURAL ELEMENTS MADE OF TEXTILE REINFORCED UHPFC 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 FLAT FLOORS A/Prof Wit DERKOWSKI	397: BOND PROPERTIES BETWEEN PRINTABLE CONCRETE AND ROCK Mr Xiaoyun WANG	115: DESIGN AND CONSTRUCTION OF THE YOBIANAN VIADUCT Mr Ryo OTAGI	2: SIGNIFICANCE OF CRACKS IN DURABILITY DESIGN AND ASSESSMENT OF HYDRAULIC CONCRETE STRUCTURES DUE TO REINFORCEMENT CORROSION Dr Amir RAHIMI
14:45	69: IMPROVEMENT OF REINFORCED CONCRETE VOID SLAB BRIDGES BY USING ULTRA HIGH PERFORMANCE FIBRE REINFORCED CEMENT-BASED COMPOSITES (UHPPFC): AN ANALYTICAL INVESTIGATION Dr Tohru MAKITA	499: ADVANTAGES OF CHEMICALLY POST-TENSIONED STEEL FIBRE REINFORCED CONCRETE SLABS ON GRADE AND SUSPENDED SLABS: FROM DESIGN STAGE TO APPLICATION Mr Xavier DESTREE	465: THE EVOLUTION OF PREFABRICATED CONCRETE IN AUSTRALIA SINCE 1900 Mr John WOODSIDE	444: SEEBECK EFFECT IN CARBON NANOTUBE REINFORCED CEMENT PASTES Dr Atastair MACLEOD	306: 3D-PRINTED CONCRETE OFFICE BUILDING IN DUBAI Dr Musa ALAWNEH	122: MECHANICAL BEHAVIOUR OF POST-TENSIONED PC GIRDERs HAVING REPTURED TENDONS Prof Hiroshi MUTSUYOSHI
15:00	63: CONTROL OF THE ULTRA-HIGH PERFORMANCE FIBRE REINFORCED CONCRETE (UHPPFC) CONCERNING TO POST-CRACKING PERFORMANCE Dr Isaac GALOABARDES	105: CREEP AND SHRINKAGE IN CONCRETE: A MULTISCALE MULTIPHYSICS APPROACH Prof Ananth RAMASWAMY	581: A NOVEL NON-COMBUSTIBLE LIGHTWEIGHT CORE FOR PREFABRICATED SANDWICH PANELS Dr Ailar HAJIMOHAMMADI	274: POLYUREA AS A MATERIAL TO REINFORCE THE SURFACE AND INCREASE THE WATERPROOFING OF CONCRETE Dr Marek MAJ	33: ONE GIRDER OF ONE AND HALF KM LONG BRIDGE ON RIVER BRAHMAPUTRA Mr V N HEGGADE	157: EFFECT OF CORRODED REBAR SHAPE, RUST AROUND REBAR AND CRACK DUE TO CORROSION ON BOND BEHAVIOUR Ms Yizhou YANG
15:15	308: EXPERIMENTAL AND NUMERICAL SIMULATION INVESTIGATION OF UHPFC CONCRETE BEAM-COLUMN JOINT IN UNDERGROUND STRUCTURES Dr Xuesong CAI	27: EXPERIMENTS ON DRYING, SELF-DESICCATION AND SHRINKAGE OF CONCRETE WITH DIFFERENT WATER CEMENT RATIO Dr Marek VINKLER	285: COMPARISON OF DESIGN STANDARDS FOR PRESTRESSED CONCRETE SLEEPERS Mr Mehdi MAGHFOURI	352: DEVELOPMENT OF MULTIFUNCTIONAL SANDWICH PANELS FOR INTEGRATED REHABILITATION OF RC-BUILDINGS: CHARACTERIZATION OF THE COMPONENTS Prof Joaquim A. O. BARRIOS	172: CONFINEMENT IN BENDING OF LIGHTWEIGHT AGGREGATE CONCRETE BEAMS Mrs Jelena ZIVKOVIC, Mr Jan Arve ØVERLI	503: QUANTIFICATION AND PROPAGATION OF UNCERTAINTIES OF MODELS FOR CORRODED REINFORCEMENT IN STRUCTURAL ANALYSIS Miss Quanxin JIANG
15:30	431: HIGH RESISTANCE STAY CABLES AND UHPFRC DECK TO SPAN 1100 METERS Mr Marco NOVARIN	293: 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	565: LONG-SPAN POST-TENSIONED CONCRETE SLABS IN THE MODERN BUILDINGS Dr Rafal SZYDLOWSKI	243: EXPERIMENTAL AND ANALYTICAL STUDY ON LONG TERM PERFORMANCE OF RC BEAMS SUBJECTED TO SUSTAINED LOADS AND CHLORIDE ENVIRONMENT Dr Ding NIE
15:45	Afternoon Tea Break					
16:15	LARGE CHALLENGING PROJECTS	FIRE	REINFORCEMENT & PRESTRESS	FIBRE REINFORCED CONCRETE	DESIGN & CONSTRUCTION	CONCRETE DETERIORATION METHODS
16:15	426: POST-TENSIONED CONCRETE WIND TOWERS AND "EOLIF" SYSTEM Mrs Vanessa BUCHNIN-ROULIE	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	204: EXPERIMENTAL INVESTIGATION OF SIZE EFFECT ON FATIGUE BEHAVIOR OF HIGH STRENGTH CONCRETE Mr Vivian FREI
16:30	338: VIADUCTS OF THE TOLUCA-MEXICO INTERCITY TRAIN Mr Jordi REVOLTOS	501: ARE SYNTHETIC FIBRES EFFECTIVE ON FIRE RESISTANCE IN ALL STRENGTH CLASSES? Dr Eva LUBLÓY	305: EXPERIMENTAL AND THEORETICAL ANALYSIS OF SLENDER G-FRP REINFORCED SLAB Prof Vladimir BENKO	428: ENHANCED ENERGY DISSIPATION IN STEEL FIBRE REINFORCED CONCRETE BARRIERS Dr Mi CHORZEPA	326: REDUCTION OF SHEAR RESISTANCE IN BUBBLEDECKS WITH OPENINGS Prof Nazar OUKALI	158: BOND BEHAVIOR IN REINFORCED CONCRETE UNDER HIGH CYCLE FATIGUE PUSH-IN LOADING Dr Rostislav CHUDOBA
16:45	347: RETHINKING COASTAL DEFENCE AND GREEN-ENERGY SERVICE INFRASTRUCTURES THROUGH ENHANCED DURABILITY HIGH-PERFORMANCE CEMENT BASED MATERIALS: AN OVERVIEW ON H2020 PROJECT RESHALEANCE Prof Liberato FERRARA	343: FIRE PERFORMANCE LIGHTWEIGHT AERATED CONCRETE AND STEEL COMPOSITE WALL PANELS Mr Ali AL-DUJALI, Mr Ehsan NEGBAN	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 ČAJKA	200: STRUCTURAL PERFORMANCE OF SCREW ANCHORS OF DIFFERENT TYPES UNDER THE TENSILE LOADING Dr Alireza MOHYEDDIN	490: INFLUENCE OF CHLORIDE ION CONCENTRATION GRADIENT IN HARDENED CONCRETE ON CHLORIDE ION PENETRATION UNDER FREEZING-THAWING ENVIRONMENT Dr Yuki SAKOI
17:00	408: YAVUZ SULTAN SELIM BRIDGE CABLE TECHNOLOGY - AN IMPORTANT MILESTONE ON LONG SPAN CABLE STAYED STRUCTURE DEVELOPMENT Mr Julien-Erdem ERDOGAN	556: FIRE PERFORMANCE OF AERATED ALKALI ACTIVATED SLAG FOR UNITSIED FACADE SYSTEMS Dr Kate Tq NGUYEN	276: ASSESSMENT OF TEST CONDITIONS AND SPURIOUS FACTORS AFFECTING THE RESULTS OF THE PULL-OUT TEST Mr Ismael VIEITO	482: EVALUATION OF ANCHORAGE CAPACITY OF HEADED BARS IN STEEL FIBER REINFORCED CONCRETE EXTERIOR BEAM-COLUMN JOINT Mr Seungwha LEE	28: DURABILITY DESIGN FOR LARGE SEWER AND DRAINAGE TUNNELS Dr Carola EDVARDSEN	261: EXPLANATION OF VERY LOW CARBONATION DEPTH FOUND AT TWO, MORE THAN A 100 YEARS OLD CONCRETE BRIDGES. A/Prof Peter PAULIK
17:15	271: SLAB REPLACEMENT OF A STEEL BRIDGE WITH FULL UTILIZATION OF THE ROAD SPACE Dr Osamu SANADA	535: INTEGRITY OF INDUSTRIAL PORTAL FRAMES SUBJECTED TO TYING FORCES COMING FROM FIRE OR ACCIDENTAL ACTIONS Mr Tom MULKENS	375: ELECTRICALLY ISOLATED TENDONS FOR A DURABLE BRIDGE STRUCTURE Dr Christian GLAESER	359: FAILURE MODE OF STEEL FIBER REINFORCED EXTERIOR BEAM-COLUMN JOINTS ACCORDING TO DEFORMATION CAPACITY Mr Dong-Hee SON	44: INFLUENCE OF THE DESIGN REVIEW PROCESS ON THE DESIGN REVIEW ENGINEER DUE TO HUMAN FACTORS Prof Robert HERTLE	570: LIFE CYCLE COST ANALYSIS OF SHORT AND MEDIUM SPAN CONCRETE BRIDGE IN THE NORTH OF CHINA Ms Qi XU
19:00	CONGRESS DINNER					



The International Federation for Structural Concrete 5th International fib Congress 2018
MONDAY 08 October 2018 - THURSDAY 11 October 2018
Melbourne Convention and Exhibition Centre

As at 25 June 2018

Wednesday, 10 October 2018

	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219	
07:30	REGISTRATION						
09:00	IN QUEST OF THE HOLY GRAILS OF CONSTRUCTION Prof Campbell MIDDLETON						
09:45	602: ALCALI-SILICA REACTION: EIGHTY YEARS ON Dr Michael THOMAS						
10:30	Morning Tea Break						
11:00	BRIDGES	SEISMIC	REINFORCEMENT & PRESTRESS	MODELLING & DESIGN	MODELS FOR DURABILITY		
11:00	312: STUDY ON THE AERODYNAMIC PERFORMANCE AND CABLE DESIGN METHOD OF AN EXTRADOSED AND SUSPENSION HYBRID BRIDGE WITH 800M SPAN OF BUTTERFLY WEB GIRDER Mr Hiroyuki UCHIBORI	SPECIAL SESSION - SEISMIC	360: THIN CONCRETE PANELS PRESTRESSED WITH CARBON TEXTILE REINFORCEMENT: FLEXURAL TESTING Mrs Katarzyna ZDANOWICZ	358: A PUNCHING SHEAR MECHANICAL MODEL FOR REINFORCED CONCRETE SLABS WITH AND WITHOUT PUNCHING REINFORCEMENT Prof Antonio MARI	272: LONG-TERM DURABILITY OF TEXTILE REINFORCED CONCRETE Mr Arne SPELTER		
11:15	365: NORTHLINK WA: COLLIER RD SPUI BRIDGE – INNOVATION IN DESIGN Mr Andreas KERKOVUS		259: CARBON FIBRE TENDONS FOR A DURABLE BRIDGE STRUCTURE Dr Christian GLAESER	196: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS OF LARGE SCALE FATIGUE TESTS Dr Christoph VON DER HAAR	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		
11:30	110: STUDY FOR CAUSAL INFERENCE ABOUT CRACKS FOUND IN THE WEBS OF A PRESTRESSED CONCRETE BRIDGE Mr Taisan KAWATANI		414: THE BASE ISOLATION OF THE NEW TRIESTE HARBOR LOGISTIC PLATFORM Mr Mauro SARTORI	277: SYSTEMATIC APPROACH TO THE INFLUENCE OF CONCRETE COVER AND TRANSVERSE REINFORCEMENT IN REBAR LAP SPLICES Mr Ismael VIETTO	83: RESIDUAL DUCTILITY OF BEAMS THAT DID NOT FAIL DURING A FIRE EVENT A/Prof Avraham DANCYGER	460: KINGSFORD SMITH DRIVE PROJECT BRISBANE - DURABILITY ASSESSMENT AND PLANNING EXPERIENCES Mr Warren GREEN	
11:45	118: INNOVATIVE SHIP IMPACT PROTECTION FOR THE MERSEY GATEWAY BRIDGE Dr Kenneth C. KLEISSL		583: COMPARISON OF THE SEISMIC PERFORMANCE OF SLENDER AND SQUAT T-SHAPED RC WALLS Dr Jiaxing MA, Prof Yinhui WANG, Dr Zhongwen ZHANG	41: LARGE SCALE TESTING ON STRUCTURAL REINFORCED ELEMENTS AND STAY CABLE SYSTEMS Dr Alex-W. GUTSCH	fib AWARDS WINNERS		
12:00	491: ENHANCING PERFORMANCE AND AESTHETICS OF CURVED BRIDGES Mr Aloak PANDAY	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 AGAINST CORROSION Mr Rei KASAHARA	121: EFFECTS OF CONFINEMENT ON THE BOND BEHAVIOUR BETWEEN REBAR AND HIGH STRENGTH CONCRETE Prof Ana Lucia H C EL DEBS	526: DETERMINING MINIMUM REINFORCEMENT BASED ON THE DEFORMATION COMPATIBILITY Prof Nguyen Viet TUE		
12:15	464: MONITORING OF EXISTING LONG SPAN BRIDGES – RESULTS, NUMERICAL SIMULATION, MATHEMATICAL MODELS FOR LONG TERM PREDICTION Prof Lukas VRABLIK	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	84: EVALUATION WAYS OF DEFLECTIONS OF BEAMS AND ONE-WAY SLABS A/Prof Avraham DANCYGER	563: SUSTAINABLE APPLICATIONS OF MUNICIPAL WASTES IN CONCRETE Dr Ali KASHANI		
12:30	25: ELASTOMERIC BEARINGS ARRANGEMENT FOR PRECAST "U" SECTION CONCRETE BEAM BRIDGES IN OBLIQUE RAILWAY UNDERPASSES Mr Agustin BLANCO	225: IMPLEMENTATION OF STEEL CONSTITUTIVE MODEL INCLUDING BUCKLING IN 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	121: EFFECTS OF CONFINEMENT ON THE BOND BEHAVIOUR BETWEEN REBAR AND HIGH STRENGTH CONCRETE Prof Ana Lucia H C EL DEBS	391: EXPERIMENTAL STUDY ON FATIGUE DURABILITY OF ULTRA HIGH DURABLE SLAB Mr Masato FUKUDA		
12:45	32: CONSTRUCTION OF AN ICONIC SIGNATURE BRIDGE AT DELHI Mr N Y HEGGADE	97: THREE-DIMENSIONAL SEISMIC ANALYSIS OF UNDERGROUND REINFORCED CONCRETE BOX CULVERT WITH L-JUNCTION Mr Tuguhiro SHIMABATA	280: THREE-DIMENSIONAL FORCE TRANSFER BETWEEN REINFORCEMENT AND CONCRETE Dr Jan LACC, Mr Chris HENDY	313: CLOSED FORM ADAPTIVE EFFECTIVENESS FACTOR FOR NUMERICAL MODELS Dr Morten HERFELT	4: DURABILITY CRITERIA OF THE MARITIME INFRASTRUCTURE OF THE MONACO SEA EXTENSION Dr Christian CREMONA		
13:00	Lunch Break						
14:00	EXISTING STRUCTURES	SEISMIC	FIBRE REINFORCED CONCRETE	REPAIR & REHABILITATION	DESIGN & CONSTRUCTION	COMPOSITE AND HYBRID	
14:00	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 ALIBEYOY AND KAGITANE VIADUCTS Mr Mauro SARTORI	387: TIME-DEPENDENT BEHAVIOUR OF FIBRE REINFORCED CONCRETE Prof Ian GILBERT	73: PUNCHING SHEAR STRENGTH OF RC INTERIOR SLABS WITH UHPC OVERLAY Prof Sung-Gul HONG	395: THE USE OF EFC GEOPOLYMER CONCRETE AND CFT FOR AN INNOVATIVE WHARF DECK STRUCTURE Mr Thomas GLASBY	453: INFLUENCE OF CONCRETE MODULUS ON THE AXIAL BEHAVIOUR OF PULTRUDED FIBRE REINFORCED POLYMER TUBE COLUMNS Prof Thiru ARAVINTHAN	
14:15	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	300: REPAIR OF MAJOR CRACK IN 4 SPAN CONTINUOUS MODULE OF BRIDGE AT VARSOVA ON NH-48, NEAR MUMBAI, INDIA Mr Dhananjay BHIDE	17: FIELD DRIVING TESTS OF PRECAST CONCRETE PILES REINFORCED WITH GLASS FRP BARS AND TIES Prof Ibrahim BENMOKRANE	273: TECHNOLOGY FOR THE PRODUCTION OF NOVEL RESOURCE-SAVING AND COST-EFFICIENT TEXTILE REINFORCEMENTS FOR DIRECT FURTHER PROCESSING INTO PREFABRICATED PARTS Mr Martin VON ZUBEN	
14:30	539: THE STRUCTURAL PERFORMANCE OF A 57-YEAR-OLD RC ROAD-OVER-RAIL BRIDGE IN SOUTH AFRICA Mr Daniel GOVENDER	417: ISOLATED LONG OVERHEAD VIADUCTS: A SOLUTION FOR IMPROVE CITIZENS' MOBILITY IN HIGH SEISMIC COUNTRIES OF EUROPE? Mr Mauro SARTORI	349: ASSESSING THE EFFECT OF SYNTHETIC FIBRES ON THE MECHANICAL PROPERTIES OF HIGH STRENGTH CONCRETE Dr Estela GARCEZ	394: RESEARCH ON THE INTEGRAL LATERAL RELOCATION TECHNIQUE OF CURVED CONTINUOUS BRIDGE Mr Hui GAO	56: FIXING SYSTEMS FOR THIN, TEXTILE REINFORCED CONCRETE FAÇADES LEAD TO A RENEWAL OF ESTABLISHED DESIGN RULES Dr Matthias ROIK	168: SMALL-SCALE TESTING ON BOND BEHAVIOR OF PROFILED STEEL REINFORCED CRC COMPOSITE SLABS Miss Ou Yi	
14:45	452: FATIGUE LIFE ASSESSMENT OF INITIALLY AND TIME-DEPENDENTLY DETERIORATED RC DECKS BY DATA ASSIMILATION Dr Yuya TAKAHASHI	321: EUROPEAN SEISMIC PERFORMANCE CATEGORIES C1 AND C2 FOR CONCRETE ANCHORS: A POSSIBLE PATH ALSO OUTSIDE OF EUROPE? Dr Philipp MAHRENHOLTZ	65: SHEAR CAPACITY OF HIGH STRENGTH REINFORCED CONCRETE BEAMS WITH STEEL FIBER Mr Narawit HEMTAPAT	536: FLEXURAL TEST OF CONCRETE ELEMENTS BONDED WITH POLYMER FLEXIBLE JOINT: EXPERIMENTAL AND NUMERICAL ANALYSIS Mr Lukasz ZDANOWICZ	59: PERFORMANCE-BASED REQUIREMENT IN DESIGN-BUILD CONTRACTING IN HIGHWAY CONSTRUCTION AND MAINTENANCE Prof Johan SILVERBRAND	99: EXPERIMENTAL STUDY ON UNBONDED PRESTRESSED CONCRETE BEAM-COLUMN SUBASSEMBLAGES Mr Daiiki HINATA	
15:00	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	470: FLEXURAL FATIGUE BEHAVIOR OF FIBRE-MATRIX INTERFACE PROPERTIES AND TENSILE PERFORMANCE OF STRAIN-HARDENING GEOPOLYMER COMPOSITES Dr Behzad NEMATOLLAHI	16: DURABILITY OF PLAIN AND FIBRE REINFORCED SHOTCRETE PILE REPAIRS IN A TROPICAL MARINE ENVIRONMENT Dr Marita ALLAN BERNDT	103: APPLICATION OF THE NEW MEASURING METHOD OF FIBRE-OPTIC STRAIN MEASUREMENT ON REINFORCED CONCRETE COLUMNS WITH BUTT JOINT Mr Daniel WOLFF	253: EXPERIMENTAL STUDY ON FLEXURAL BEHAVIOR OF ECC-RC COMPOSITE BEAM Dr Zhi QIAO	
15:15	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 Kazuhiko SAKAOKA	169: STEEL FIBRE-REINFORCED RUBBERISED CONCRETE BARRIERS AS FORGIVING INFRASTRUCTURE Dr Thomada POLYDOROU	31: PERFORMANCE EVALUATION BY WHEEL LOAD RUNNING TEST AFTER REINFORCEMENT COMPARING DETERIORATION DEGREE OF ROAD BRIDGE RC SLABS Mr Toshiko NAGATANI	126: REMOVAL AND RECONSTRUCTION OF EXISTING PIERS UNDER LONG-TERM TEMPORARY SUPPORT UNDER TRAFFIC SERVICE Mr Dan SAITO	114: CONSTRUCTION OF A STEEL-CONCRETE HYBRID RIGID-FRAME BRIDGE Mr Kenichi KATA	
15:30	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	265: STRATEGIES FOR USING STRUCTURAL LIGHTWEIGHT CONCRETE FOR BRIDGE REHABILITATION Dr Reid CASTRODALE	584: DESIGNING SERVICE LIFE INTO THE TENDER DOCUMENTS FOR HIGH PERFORMANCE CONCRETE CONSTRUCTION & WHY SO MANY EXISTING STRUCTURES HAVE NOT FAILED Mr Stuart CURTIS	43: A MODIFIED DESIGN APPROACH TO THE FATIGUE LIMIT STATE FOR STUD SHEAR CONNECTORS IN STEEL-CONCRETE-COMPOSITE MEMBERS Prof Robert HERTLE	
15:45	Afternoon Tea Break						
16:15	EXISTING STRUCTURES	SEISMIC	AAC and GEOPOLYMER	REPAIR & REHABILITATION	DESIGN & CONSTRUCTION	CONCRETE DETERIORATION METHODS	
16:15	521: SEISMIC PERFORMANCE OF RC BEAMS WITH CURTAILED SECOND LAYER LONGITUDINAL REINFORCEMENT Dr Susumu KONO	181: CYCLIC LOADING TEST OF RC COLUMNS WITH BOND-SLIP CONNECTORS ON LONGITUDINAL BARS Mr Keita UEMURA	332: EFFECTS OF TYPE OF ACTIVATOR OF STEEL CORROSION RELATED ASPECTS IN TENSILE PERFORMANCE OF STRAIN-HARDENING GEOPOLYMER COMPOSITES Dr Behzad NEMATOLLAHI	587: REHABILITATION AND CFRP STRENGTHENING OF ASR AFFECTED CONCRETE BRIDGE PIERS Dr Reza SALAWY	574: MITIGATING ALCALI SILICA REACTIONS IN THE ABSENCE OF USING SCMS: A REVIEW OF EMPIRICAL STUDIES Miss Elsie NSIAH-BAAFI	254: PREMATURE FAILURE OF HIGH-STRENGTH GROUT IN FATIGUE TESTS DUE TO THE WARMING OF SPECIMEN DURING CYCLIC LOADING Mr Corinne OTTO	
16:30	22: COST-BENEFIT ANALYSIS OF ALTERNATIVE RETROFIT OPTIONS FOR PILOTIS-TYPE REINFORCED CONCRETE (RC) FRAME BUILDINGS Prof Donatello CARDONE	79: ENTIRE DISPLACEMENT DISTRIBUTION OF REINFORCED CONCRETE BOX CULVERT IN THE DAMAGING PROCESS SUBJECTED TO HORIZONTAL LOAD Dr Yoshinori MIYAGAWA	296: DURABILITY OF GEOPOLYMER CONCRETE MADE OF FLY ASH AND SLAG Mr Minhao DONG	250: REPLACEMENT METHODS OF PARTIALLY OR FULLY COLLAPSED EXTERNAL BONDED TENDONS Dr Christian GLAESER, Mr Kay LOEFFLER	557: MITIGATION OF EARLY AGE THERMAL & SHRINKING CRACKS IN PRESTRESSED CONCRETE WALLS OF CONTAINMENT ZONE OF INTERNATIONAL CENTER FOR FOOT AND MOUTH DISEASES AT BHUBANESWAR, INDIA Mr Umesh RAJESHIRKE	307: RESONANT FATIGUE TEST FACILITY FOR LARGE SCALE BENDING TESTS Mr Ralf HERRMANN	
16:45	21: MULTI-LEVEL ASSESSMENT OF A FULL-SCALE TESTED BRIDGE DECK SLAB Dr Jiangpeng SHU	18: EXPERIMENTAL STUDY ON STRUCTURAL MEMBERS USING ULTRA-HIGH-STRENGTH ECC CONCRETE Mr Hiroto TAKATSU	297: EXPERIMENTAL INVESTIGATION OF BOND BETWEEN GEOPOLYMER CONCRETE AND GFRP BARS Dr Mohamed ELCHALAKANI	45: REPLACEMENT OF FLOOR SLAB OF THE STEEL BRIDGE WITH NIGHT ROAD CLOSED AND TRAFFIC CONTROL Mr Hidekazu HAYASHI	363: BEHAVIOR OF JOINTS IN BETWEEN FILIGREE PLANK PROFILES SUBJECTED TO BENDING: AN EXPERIMENTAL STUDY Mr Tom MALKENS	76: INVESTIGATION OF THE INFLUENCE OF LOADING FREQUENCY ON THE FATIGUE RESISTANCE OF HIGH STRENGTH CONCRETE Mr Sebastian SCHNEIDER	
17:00	476: A STUDY ON INTENSITY DISTRIBUTION OF CONCRETE IN STRUCTURE WITH DIFFERENT BUILDING AGES Mr Ryota UMEBAYASHI	34: SEMI-ACTIVE CONTROL OF SMART BASE ISOLATION BUILDINGS WITH RESETTABLE VARIABLES STIFFNESS Mr Liangqun WANG	440: CARBONATION AND CHLORIDE INDUCED STEEL CORROSION RELATED ASPECTS IN FLY ASH/SLAG BASED GEOPOLYMERS - A CRITICAL REVIEW Ms Tran Huyen YU	471: STUDY ON BASIC CHARACTERISTICS OF REGROUT MATERIALS FOR PC TENDONS Mr Kazuki TOBITA	341: TEST METHOD FOR CURVATURE-DEPENDENT TENSILE STRENGTH REDUCTION OF TEXTILE REINFORCED CONCRETE (TRC) Mr Dennis MESSNER	70: AGE OF STRUCTURES/DAMS THROUGH THE DETERIORATION OF CEMENT CONCRETE IN FLOWING WATER DUE TO SEEPAGE & CEMENT LOSS Mr Kulwant Singh SINGH	
17:15	211: EXPERIMENTAL STUDY ON REMAINED FATIGUE LIFE OF DAMAGED REINFORCED CONCRETE BRIDGE SLAB Mr Takashi KURODA	584: DESIGNING SERVICE LIFE INTO THE TENDER DOCUMENTS FOR HIGH PERFORMANCE CONCRETE CONSTRUCTION & WHY SO MANY EXISTING STRUCTURES HAVE NOT FAILED Mr Stuart CURTIS	130: EVALUATION OF THE BEHAVIOR OF REINFORCED CONCRETE WITH ALCALI ACTIVATED BINDERS EXPOSED TO SEVERELY HIGH TEMPERATURES Miss Kruthi Kiran RAMAGIRI	208: DESIGN OF UHPFRC DECK SLAB FOR REPLACEMENT OF DETERIORATED CONCRETE SLAB Mr Kimio SAITO	101: INVESTIGATION OF ANCHORING COMPOSITE DOWELS UNDER DYNAMIC LOADS FOR USE IN WIND TURBINE TOWERS Mr Manuel KOOB	543: DAMAGE REASONS ANALYSIS OF PT CABLES BLISTER IN A ROAD BRIDGE Dr Piotr GWOSDZIEWICZ	



The International Federation for Structural Concrete 5th International fib Congress 2018
 MONDAY 08 October 2018 - THURSDAY 11 October 2018
 Melbourne Convention and Exhibition Centre

As at 25 June 2018

Thursday, 11 October 2018							
Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219		
REGISTRATION							
07:30							
08:30	BRIDGES		POSTERS	CONCRETE MATERIALS	MODELLING & DESIGN	REPAIR & REHABILITATION	
08:30	112: DESIGN AND CONSTRUCTION OF A PRESTRESSED CONCRETE COMPOSITE BRIDGE OVER A ROAD, A RAILWAY AND A RIVER Mr Ryoichi KAWANAKA	AAC & Geopolymer SPECIAL SESSION - GEOPOLYMER	369: EFFECT OF TEMPERATURE AND HUMIDITY ON ELECTRICAL RESISTIVITY MEASUREMENT IN EARLY AGE CEMENT-BASED MATERIALS Dr Hongjae YIM	183: MECHANICAL AND THERMAL PROPERTIES OF CONCRETE PAVEMENT USING EAF SLAG FINE AGGREGATE Mr Sushanta ROY	424: THERMAL CRACKING ANALYSIS OF MASSIVE CONCRETE INFRASTRUCTURE Dr Mi CHORZEPA	236: A CASE STUDY ON RESTORATION OF LARGE SPAN BALANCE CANTILEVER TYPE BRIDGE STRUCTURE ACROSS RIVER NARMADA ON CHANDRO POICHA ROAD, GUJARAT, INDIA Mr Sureshchandra PATEL, Mr Jitendrakumar PATEL	
08:40			553: ALKALI LIMIT IN CEMENT WITH SUPPLEMENTARY CEMENTING MATERIALS - A REVIEW Miss Cibele SANCHEZ ROBOREDO				
08:45			223: EXPERIMENTAL VERIFICATION OF CONCRETE RESISTANCE AGAINST LOW-PH ENVIRONMENT Mr Stanislav REHACEK	248: LIGHTWEIGHT AGGREGATES FOR INTERNAL CURING Prof Sherif YEHIA	102: FEASIBILITY EVALUATION OF BRIDGE PIER CAP DESIGN BY COMPARING CURRENT DESIGN CODES Mr Junlong AN	330: CONCRETE TO CONCRETE BOND - A CRITICAL REVIEW ON METHODS FOR BOND STRENGTH DETERMINATION Prof Norbert RANDL	
08:50	186: AN AUSTRALIAN FIRST SOLUTION 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 FOUNDATION BEAM Prof Shinji KISHIDA	46: THERMAL STRESS MITIGATION IN MASS CONCRETE FOR P23 WELL CAP IN SIGNATURE BRIDGE DELHI Mr V N HEGGADE	95: FUNDAMENTAL STUDY ON BOND PROPERTIES USING FIBER-OPTIC STRAIN SENSOR Mr Atsushi SHIBAYAMA	354: EXPERIMENTAL AND NUMERICAL STUDY OF BOND BEHAVIOUR BETWEEN NSM CFRP LAMINATE AND CONCRETE EXPOSED TO HIGH TEMPERATURE Mr Awad JADOOE, Dr Kamran ABDOKKA
09:00	486: CABLES FOR EXTRADOSED BRIDGES IN INDIA Mr Werner BRAND			12: INFLUENCE OF TEMPERATURE AND MOISTURE ON MECHANICAL AND DURABILITY PROPERTIES OF CEMENT MORTAR Mr Alireza JOSHAGHANI			
09:10				382: THE USAGE OF THE ACOUSTIC EMISSION METHOD FOR THE EXPERIMENTAL DETERMINATION OF THE DAMAGE PROGRESS IN THE FINE-GRAINED CEMENTITIOUS COMPOSITES SUBJECTED TO LOADING Miss Michaela HODULÁKOVÁ	10: APPLICATION OF CONCRETE INCORPORATING 25% FLY ASH BY WEIGHT OF CEMENT (THE "25% FLY ASH CEMENT") TO THE CONSTRUCTION OF A PRE-TENSIONED PRESTRESSED CONCRETE GIRDER Mr Yosuke AZUMA	116: NUMERICAL SIMULATION OF CRACK PROPAGATION USING RANDOMLY DISTRIBUTED MATERIAL PARAMETERS Mr Marcel MEINHARDT	162: COMPARISON OF FRP-TO-CONCRETE ANCHORED JOINTS DESIGNED FOR FRP SHEAR-STRENGTHENED RC T-BEAMS Dr Ahmed GODAT
09:15	481: GORI NADI BRIDGE: A UNIQUE UNSYMMETRICAL BRIDGE IN INDIA Mr Alok PANDAY			314: RESISTANCE OF CONCRETE WITH STYRENE-ACRYLATE ADDITIVE IN LOW-PH ENVIRONMENT Dr Daniel DOBIAS	226: THE MECHANICAL PROPERTIES AND DURABILITY OF HIGH STRENGTH CONCRETE WITH SILICA FUME INCORPORATING UAE LOCAL MATERIALS Dr Reem SABOUNI	291: POTENTIAL OF THE RIGID FINITE ELEMENT METHOD IN REINFORCED CONCRETE BEAMS CALCULATIONS Dr Michal MUSIAL	123: WHEEL RUNNING FATIGUE TEST OF UHPFRC DECK SLAB FOR AIRFIELD BRIDGES Mr Yuki YOKOTA
09:30	156: CABLE STAYS - NEW FUNCTIONALITIES, AESTHETICS AND PROTECTION Mr Rachid ANNAN, Mr Andreas SCHWARZ, Mr Philipp EGGER			133: PROPERTIES OF CONCRETE OBTAINED FROM RC BUILDING CONSTRUCTED AT 1971 Prof Hideo ARAKI	178: STANDARDIZATION OF FLY ASH CONCRETE IN THE HOKURIKU REGION AND ITS APPLICATION TO PRESTRESSED CONCRETE BRIDGES Mr Tuan Minh HA	558: NUMERICAL SIMULATION OF PRECAST CONCRETE PANEL FOR AIRFIELD PAVEMENT Dr Josef NOVAK	586: BONDING BEHAVIOUR OF MINERAL COMPOSITE IN METAKAOLIN VARIED CFRP RETROFIT Mr Raghavendra VASUDEVA UPADHYAYA
09:40	218: IN-SITU SHEAR TESTS ON A 64 YEAR OLD ROADBRIDGE Mr Sebastian GEHRLIN, Mr Josef LANDLER, Mr Thomas OBERNDORFER			86: EXPERIMENTAL EXAMINATION OF LOAD-CARRYING CAPACITY FOR A FATIGUED CONCRETE BEAM REINFORCED WITH ROUND REBAR Mr Hiroshi HAYASHIDA	492: PRIORITIZATION OF WATERWAY INFRASTRUCTURE MAINTENANCE ACTIVITIES USING A RISK-BASED DECISION-MAKING MODEL Mr François Marie NYOBEU FANGUE	289: AN EMBEDDED STRONG DISCONTINUITY APPROACH BASED ON LOCAL DEGREES OF FREEDOM FOR MODELLING FRACTURE IN CONCRETE STRUCTURES Mr Marcelo CARVALHO	415: WEAR DETERMINATION OF SURFACE PROTECTION SYSTEMS WITH PARKING ABRASION TEST Mrs Eva-Maria LADNER
09:45				206: PERFORMANCE IMPROVEMENT OF LIGHT TRANSPARENT CONCRETE Prof Byoungil KIM	550: CATENARY ACTION IN BEAM COLUMN CONNECTIONS: A REVIEW Mr Qazi Amjad Ali PATHAN	483: NUMERICAL INVESTIGATIONS ON THE BEHAVIOUR OF CIRCULAR ANCHOR GROUPS Ms Nilde MISHAXHU	143: EXPERIMENTAL STUDY AND TRIAL APPLICATION FOR REPAIR OF SALT-DAMAGED RC SLABS LOCATED IN SNOW COLD DISTRICTS Mr Hiroaki KAMEDA
09:50	512: NEW METHOD FOR THE PRODUCTION OF DECK SLABS OF STEEL-CONCRETE-COMPOSITE BRIDGES Prof Johann KOLLEGER		275: MODEL FOR DESCRIBING SILO WALL DISPLACEMENTS INDUCED BY SELF-EXCITED VIBRATIONS Prof Andrej UBYSZ				
10:00	508: UNEXPECTED CRACKING IN A RC PIER CAP - A CASE STUDY Prof Meher Prasad ANUMOLU		357: OPTIMISING THE MIXTURE PROPORTIONING OF HIGH VOLUME FLY ASH SELF-COMPACTING CONCRETE Miss Zhiyuan ZHOU, Dr Massoud SOFI, Prof Priyan MENDIS				
10:10							
10:15							
10:20							
10:30	Morning Tea Break						
11:00	STRUCTURAL STRENGTHENING		POSTERS	MODELLING & DESIGN	DESIGN & CONSTRUCTION	STRUCTURAL STRENGTHENING	
11:00	119: SHEAR RESISTANCE OF DECK SLABS SUBJECTED TO CONCENTRATED LOAD Prof Jaroslav HALVONIK	fib NATIONAL REPORTS NATIONAL REPORTS	128: EFFECTIVENESS OF STEEL FIBER TYPES ON THE FLEXURAL BEHAVIOUR OF SPLICED UHPFRC BEAMS Dr Baek II BAE	124: IN-PLANE SHEAR PERFORMANCE OF RECTANGULAR STEEL-PLATE CONCRETE WALL PIERS Dr Nam NGUYEN	451: CONSTRUCTION SPEED AND POUR STRIPS Dr David MCDONALD	345: STRENGTHENING OF CANTILEVER DECKING OF BRIDGES - AN INDIAN EXPERIENCE Mr Padmakar MANJURE	
11:10			361: EXPERIMENTAL INVESTIGATION OF THE MATERIAL CHARACTERISTICS OF YOUNG FINE-GRAINED CEMENT-BASED COMPOSITES Mrs Barbara KUCHARCZYKOVÁ	142: APPLICATION OF DIFFERENT PROBABILISTIC METHODS FOR STRUCTURAL RELIABILITY OF REINFORCED CONCRETE HYDRAULIC STRUCTURES Mr Arslan TAHIR	249: ADVANCED TENDON FEATURES FOR POST-TENSIONING OF WIND TOWERS Dr Christian GLAESER	252: SHEAR STRENGTHENING USING EXTERNAL FE-SMA STRIPS Dr Antoni CLADERA	
11:15	329: FAILURES AND REHABILITATION OF SLOVAK FIRST GENERATION PRECAST BRIDGE ERECTED BY BALANCED CANTILEVER METHOD Prof Martin MORAVCIK			131: MAGNETIC PROBE TO TEST SPATIAL DISTRIBUTION IN UHPFRC BEAMS Miss Ludan LI	163: FINITE ELEMENT INVESTIGATION ON THE EFFECT OF COLUMN RECTANGULARITY ON PUNCHING SHEAR STRENGTH OF CONCRETE SLABS Prof Maria Anna POLAK	212: TENSILE CAPACITY OF SCREW ANCHORS FAILING DUE TO THE PULL-OUT FAILURE MODE Dr Alireza MOHYEDDIN	445: SHEAR PERFORMANCE SIMULATION OF BOLT SIDE-PLATED RC BEAMS Miss Zhen-Li WU
11:30	48: SOME COMMON MISTAKES DURING THE DESIGN AND THE EXECUTION OF THE STRUCTURAL RETROFITTING OF EXISTING RC BUILDINGS Prof Marina TRAYKOVA			336: INVESTIGATION OF TEMPERATURE EFFECTS OF LARGE DIAMETER CONCRETE SILOS EXPOSED TO SOLAR RADIATION Mr Le XIE			
11:40				106: EXPERIMENTAL MEASUREMENT OF REINFORCEMENT CORROSION Dr Miroslav BRODNAN	191: DESIGN OF THE PARRAMATTA ROAD VENTILATION FACILITY ON WESTCONNEX 1B WALL PIERS Mr Daniel THOMY, Mr John MERRICK	195: HIGH STRENGTH REINFORCEMENT - NEW CONCEPTS FOR HIGH RISE STRUCTURES Mr Torsten VOSS	378: NUMERICAL INVESTIGATION ON PROGRESSIVE COLLAPSE RESISTANCE OF MULTI-STORY PLANAR RC FRAMES STRENGTHENED BY STEEL BRACES Prof Jun YU
11:45	385: INFLUENCE OF COATING THE STEEL TUBE ON THE BOND STRESS BETWEEN THE STEEL TUBE AND CONCRETE Mr Peter GANDY			292: INNOVATIVE ELEMENTS AND STRUCTURES MADE FROM ULTRA HIGH - PERFORMANCE FIBRE REINFORCED CONCRETE Mr David CITEK	288: EFFECT OF THERMAL LOADS ON RESPONSE OF ONE-STORY FRAME BUILDINGS IN UAE WITH CONSIDERING THE TIME - DEPENDENT PROPERTIES OF CONCRETE Dr Reem SABOUNI	182: CONSTRUCTION OF INTERMEDIATE SUPPORT OF A LARGE EXTRADOSED BRIDGE BY INCREMENTAL LAUNCHING METHOD Dr Mansab HOSOTANI	216: STRENGTHENING OF STEEL CONCRETE COMPOSITE GIRDER BRIDGE USING THE EXTERNAL PRESTRESSING TENDON (YUMIFURIGAWA BRIDGE) Mr Kotaro Ikegami
11:50	284: SHORT-TERM BRIDGE STRENGTHENING METHOD Mr Dominik SUZA			148: DESIGN OF SFRC ACCORDING TO FIB MODEL CODE 2010 USING SIMPLIFIED DIVERSE EMBEDMENT MODEL (SDEM) AS A DESIGN INPUT Mr Zeyad KHALIL			
12:00				75: SIMULATION ANALYSIS OF PCAPC THREE STORY SHAKING-TABLE TEST Prof Makoto MARUTA			
12:10							
12:15							
12:20	319: SHEAR CAPACITY EVALUATION OF CONCRETE BEAM-COLUMN JOINTS CAUSED VOLUME LOSS BY SHEATH TUBES Mr Yuji TAJIMA		528: MECHANICAL FRACTURE PARAMETERS OF SELECTED MORTARS BASED ON ALKALI-ACTIVATED BINDER AND NATURAL FIBERS Dr Hana SIMONOVA	328: BOND SPLITTING BEHAVIOUR OF POST-INSTALLED AND CAST IN REINFORCING BARS Prof Norbert RANDL	164: CONCRETE TEMPERATURE MANAGEMENT BY ALTERNATIVELY USING POST-COOLING OR PRE-COOLING (LIQUID NITROGEN) DURING CONSTRUCTION OF THE "PUENTE DEL ATLANTICO" IN PANAMA Mr Lionel LINGER	498: BEHAVIOUR OF INNER GFRP REINFORCEMENT UNDER THE FATIGUE LOADING - EXPERIMENTAL STUDY Mr Ondrej JANUS, Miss Iva ROZSYPALOVA	
12:30	Lunch Break						
13:30	CLOSING CEREMONY						