

# The International Federation for Structural Concrete 5th International fib Congress 2018

Monday 08 October 2018 - Thursday 11 October 2018  
Melbourne Convention and Exhibition Centre

Monday 8 October 2018

07:00	REGISTRATION Main foyer 2 & 3	07:00
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Plenary 3

08:30	Chairperson: Prof Stephen Foster OPENING CEREMONY	08:30
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'THE ART AND SCIENCE OF DESIGNING AND BUILDING THE TALLEST BUILDINGS IN THE WORLD'

Dr Andy DAVIDS

10:30	MORNING TEA Main foyer 2 & 3	10:30
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Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
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BRIDGES	SHEAR & TORSION	REINFORCEMENT & PRESTRESS	CONCRETE MATERIALS	MODEL CODES & STANDARDS	SUSTAINABILITY
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Chairperson: Jim Forbes	Chairperson: Aurelio Muttoni	Chairperson: John Fenwick	Chairperson: Prof Frank Dehn	Chairperson: Prof Ian Gilbert	Chairperson: Petr Hajek
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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 Prof Aurelio MUTTONI	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	KOJI SAKAI 'ESSENCE OF SUSTAINABILITY AND ITS INCORPORATION INTO FIB MODEL CODE 2020'
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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	434: FIB MODEL CODE 2020 AND EXISTING CONCRETE STRUCTURES Dr Stuart MATTHEWS	11:15
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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 EMPPELMANN	403: AN ATTEMPT TO USE OF WASTE HORTICULTURAL MINERAL WOOL AS AN ADDITIVE IN CEMENT COMPOSITES Prof Jerzy HOLA
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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	283: EXPANDED SLATE LIGHTWEIGHT AGGREGATE FOR HIGH PERFORMANCE STRUCTURAL CONCRETE Dr Reid CASTRODALE	506: PUNCHING SHEAR OF LIGHTWEIGHT AGGREGATE CONCRETE FLAT SLABS Dr Michal GODYIN	447: USE OF WASTE GLASS IN CONSTRUCTION MATERIALS Dr Ali BASHIRI
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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-Erdem 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	480: THE USE OF LOW-CARBON-FOOTPRINT MULTI-SIZED FILLERS IN HIGH-PERFORMANCE CONCRETE Mr Saad BINHOWIMAL
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12:15	432: DESIGN OF HANSAIYE VIADUCT OF NORTHERN MARMARA MOTORWAY, TURKEY Mr Marco NOVARIN	591: SHEAR DEFORMATION AND FAILURE OF FRP REINFORCED CONCRETE BEAMS WITHOUT STIRRUPS Prof Renata KOTYNYA	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	463: HISTORY OF CONCRETE CODES/STANDARDS IN AUSTRALIA Mr John WOODSIDE	327: FRESH AND MECHANICAL PROPERTIES OF SUSTAINABLE CONCRETE USING RECYCLED AGGREGATE Dr Samer AL MARTINI
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12:30	449: ASSESSMENT AND BEHAVIOUR OF PRESTRESSED CONCRETE BRIDGE BEAMS IN SHEAR WITH LESS THAN MINIMUM SHEAR REINFORCEMENT Mr Matthew HOURIGAN	77: COMPARISON OF RC BEAMS STRENGTHENED WITH FRC-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	396: THE EFFECT OF WASTE GLASS POWDER ON MICROSTRUCTURAL BEHAVIOUR WHEN USED AS A PARTIAL CEMENT REPLACEMENT Miss Nafisa TAMANNA	67: ON THE RELATION BETWEEN THE MEAN COMPRESSIVE STRENGTH AND THE CHARACTERISTIC ONE. Mr Jean Michel TORRENTI	594: SUSTAINABLE CONSTRUCTION BY UTILIZING BUILDING RESOURCE STOCKS TO BE CONSIDERED RESILIENCE SITUATION Dr Masaki TAMURA
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12:45	320: STRENGTH AND SERVICEABILITY OF PARTIALLY PRESTRESSED CONCRETE BEAMS EXPOSED TO LIMITED REPEATED LOADING Prof Nazar OUKALI	597: STRENGTH AND DUCTILITY OF HIGH-STRENGTH CONCRETE COLUMNS REINFORCED WITH HIGH-STRENGTH STEEL Mr Stephen FOSTER	178: STANDARDIZATION OF FLY ASH CONCRETE IN THE HOKURIKU REGION AND ITS APPLICATION TO PRESTRESSED CONCRETE BRIDGES Mr Tuan Minh HA	304: SLENDER CONCRETE COLUMNS AT THE LOSS OF STABILITY Prof Vladimir BENKO	563: SUSTAINABLE APPLICATIONS OF MUNICIPAL WASTES IN CONCRETE Dr Ali KASHANI	12:45
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13:00	LUNCH Main foyer 2 & 3	13:00
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Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
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ULTRA HIGH PERFORMANCE	FIRE	PREFABRICATED & PRECAST	AAC & GEOPOLYMERS	MODEL CODES & STANDARDS	SUSTAINABILITY
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Chairperson: Prof Priyan Mendis	Chairperson: Steve Foster	Chairperson: A/Prof Wit Derkowski	Chairperson: Mr Jay Sanjayan	Chairperson: Prof Gyorgy Balazs	Chairperson: Koji Sakai
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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	522: A STRUCTURAL RELIABILITY BASED EVALUATION OF SAFETY FORMATS FOR NONLINEAR FINITE ELEMENT ANALYSIS OF REINFORCED CONCRETE STRUCTURES - ILLUSTRATION EXAMPLES Dr Diego Lorenzo ALLAIX	SPECIAL PAPER ON SUSTAINABILITY Mr Petr HAJEK
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14:15	593: PRELIMINARY RESULTS OF FIRST PURE SHEAR TEST ON UHPFRC 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 Dr Shan KUMAR	589: FRESH AND HARDENED PROPERTIES FOR A WIDE RANGE OF GEOPOLYMER BINDERS Dr Katalin KOPECSKÓ	564: COMPARATIVE STUDY ON RELIABILITY OF DUCTILITY AND STRENGTH LIMIT STATES IN DESIGN OF REINFORCED CONCRETE BEAMS IN FIB MODEL CODE Prof Hamid Reza RONAGH	14:15
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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 INGENIOUS CONNECTION METHOD FOR PRECAST STRUCTURES IN HIGHLY SEISMIC ZONES Mr Jennik GAWLISTA	36: OPTIMIZING THE MIXING PROCEDURE FOR ALKALI-ACTIVATED BINDERS BASED ON THEIR RESPONSE TO AGGRESSIVE CHEMICALS Mr Swaraj PATIL	582: INTRODUCTION OF NEW JSCE GUIDELINE FOR INTERVENTION OF EXISTING CONCRETE STRUCTURES Prof Takumi SHIMOMURA	462: FUNDAMENTAL PROPERTY OF MORTAR USING CEMENT CLINKER AS FINE AGGREGATE Dr Shintaro MIYAMOTO
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14:45	222: LOAD-BEARING CAPACITY OF PROFILED DRY JOINTS BETWEEN ADJACENT UHPFRC PRECAST ELEMENTS Dr Vincent OETTEL	125: EXPLOSIVE SPALLING BEHAVIOR AND LOAD CAPACITY OF PRESTRESSED CONCRETE MEMBERS EXPOSED TO FIRE Mr Kentaro FUJIMOTO	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	383: TOWARD FIB MODEL CODE 2020: PARTIAL SAFETY FACTOR FOR RESISTING MODEL UNCERTAINTIES IN PLANE STRESS NLFEM ANALYSIS OF RC SYSTEMS Dr Paolo CASTALDO	515: CASE STUDY - THE CARES SUSTAINABLE CONSTRUCTIONAL STEEL CERTIFICATION SCHEME FOR REINFORCEMENT IN CONCRETE Mr Lee BRANKLEY
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15:00	566: SUBSTITUTION OF STEEL BY UHPFC Prof Nguyen Viet TUE	135: DESIGN OF THE CUT AND COVER TUNNELS ON WESTCONNEX 18 FOR HYDROCARBON FIRES Mr Jarrod HITCHCOX	562: PROBABILISTIC ANALYSIS OF LOCAL FAILURE IN PRECAST BUILDINGS DUE TO ACCIDENTAL LOADINGS Mr Qazi Amjad AL PATHAN	295: BEHAVIOUR AND DESIGN OF RECTANGULAR GEOPOLYMER CONCRETE COLUMNS REINFORCED WITH GFRP BARS Dr Mohamed ELCHALAKANI	331: OVERVIEW OF AASHTO LRFD DESIGN SPECIFICATIONS FOR CONCRETE BRIDGE REINFORCED WITH GLASS FRP BARS Mr Steven NOLAN	538: REUSED RECYCLED AGGREGATE CONCRETE (RRAc) Mr Mohamed ABED
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15:15	402: PREFABRICATED UHPFC COMPOSITE ELEMENT FOR PUNCHING SHEAR ENHANCEMENT Prof Norbert RANDL	497: MECHANICAL FRACTURE PARAMETERS OF CONCRETE EXPOSED TO HIGH TEMPERATURES RELATED TO APPROXIMATION OF TEMPERATURE FIELD IN EXPERIMENTAL PANELS Ms Iva ROZSYPALOVA	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 Witik Dwi PRATWI	466: FIB MC2010 SHEAR ENHANCEMENT METHOD FOR POINT LOADED NON-SLENDER MEMBERS A/Prof Almia UZEL	427: SUSTAINABILITY ANALYSIS OF TRANSPORTATION CORRIDORS UNDER CONSTRUCTION IN AN URBAN ENVIRONMENT Mr Shishir BANSAL
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15:30	58: EFFICIENT USE OF FIBERS IN UHPFC - A STRUCTURAL SCOPING REVIEW Ms Ingrid Lande LARSEN	21: MULTI-LEVEL ASSESSMENT OF A FULL-SCALE TESTED BRIDGE DECK SLAB Dr Jiangpeng SHU	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 TRIWULAN	614: CIA 27/02 EXPOSURE CLASSIFICATION Mr Rodney PAULL	15:30
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Monday 08 October 2018 - Thursday 11 October 2018  
Melbourne Convention and Exhibition Centre

Monday 8 October 2018						
15:45	AFTERNOON TEA Main foyer 2 & 3					15:45
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
	RESILIENCE & ROBUSTNESS	UNDERGROUND & FOUNDATIONS	FIBRE REINFORCED CONCRETE	AAC and GEOPOLYMER	ARCHITECTURAL CONCRETE	CONCRETE DETERIORATION METHODS
	Chairperson: Ted Nief	Chairperson: David Miller	Chairperson: A/Prof Avraham Danzygler	Chairperson: Mr Craig Heidrich	Chairperson: Jim Forbee	Chairperson: Mr Frank Papworth
16:15	412: STAY CABLE HARDENING & PROTECTION - NEW DEVELOPMENTS ON BLAST, FIRE AND ICE PROTECTIONS Mr Nicolas FABRY	286: 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 David OY	62: EFFECTS OF STORAGE PERIOD ON THE MECHANICAL PROPERTIES OF CONCRETE WITH ALKALI-ACTIVATED BINDERS Mr Ajinkya NARINGE	379: FORMS FOLLOW'S ENVIRONMENT Mr Dominik SCHLÜTER	405: SIMULATION OF NON-UNIFORM FROST DAMAGE ACCUMULATION IN RC BEAMS UNDER VARIOUS HEAT & MOISTURE EXPOSURE CONDITIONS Dr Fuyuan GONG
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 Shihir BANSAL	57: TENSILE LOAD BEARING AND BOND BEHAVIOR OF CARBON REINFORCED CONCRETE UNDER CYCLIC LOADING Ms Juliane WAGNER	134: ULTRA-LOW SHRINKAGE AND HIGH STRENGTH CONCRETE WITHOUT PORTLAND CEMENT Dr Taku MATSUDA	109: BIM AS A TOOL FOR SUSTAINABLE DESIGN Mr Christian K SANDVIK, Mr Fredrik FOUGNER	443: EFFECT OF ALKALI SILICA REACTION ON BOND STRENGTH AND LOAD CAPACITY OF REINFORCED CONCRETE STRUCTURES Dr Nadarajah GOWRIPALAN
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	362: MECHANICAL PROPERTIES AND DURABILITY OF FRC WITH GLASS-POLYMER COMPOSITE FIBER Prof Vyacheslav FALIKMAN	332: EFFECTS OF TYPE OF ACTIVATOR ON FIBRE-MATRIX INTERFACE PROPERTIES AND TENSILE PERFORMANCE OF STRAIN-HARDENING GEOPOLYMER COMPOSITES Dr Behzad NEMATOLLAHI	301: CONCRETE FRAME SYSTEM FOR SUSTAINABLE AND RESILIENT BUILDINGS Mr Petr HAJEK	509: FREEZE-THAW RESISTANCE OF NORMAL AND HIGH STRENGTH RECYCLED AGGREGATE CONCRETE Dr Enzo MARTINELLI
17:00	177: SEAWALLS, SEASON, RESILIENCE AND SUSTAINABILITY Mr Steven NOLAN	6: CRITICAL P19 & P23 FOUNDATIONS FOR SIGNATURE BRIDGE AT DELHI Mr Venkatramana Narayan HEGGADE	144: STATIC, CYCLIC AND IMPACT MECHANICAL CHARACTERISTICS OF STEEL FIBRE REINFORCED CONCRETE BASED ON WASTE CERAMIC AGGREGATE A/Prof Jacek KATZER	296: DURABILITY OF GEOPOLYMER CONCRETE MADE OF FLY ASH AND SLAG Dr Mohamed ELCHALAKANI	494: HERITAGE COMPLEX ARCH BRIDGES: MERGING STRUCTURE WITH ARCHITECTURE Mr Alok PANDAY	261: EXPLANATION OF VERY LOW CARBONATION DEPTH FOUND AT TWO, MORE THAN A 100 YEARS OLD CONCRETE BRIDGES. A/Prof Peter PAULIK
17:15	179: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS ON EFFECTS OF SLAB CORNERS ON THE TORSIONAL BEHAVIOUR OF PERIMETER BEAMS Prof Tan KANG HAI		611: EXPERIMENTAL REPAIR OF RC COLUMNS WITH FRCC Prof Andrea PROTA	440: CARBONATION AND CHLORIDE INDUCED STEEL CORROSION RELATED ASPECTS IN FLY ASH/SLAG BASED GEOPOLYMERS - A CRITICAL REVIEW Ms Tran Huyen VU	615: OVERVIEW OF SONG SCHOOL Mr John WOODSIDE	490: INFLUENCE OF CHLORIDE ION CONCENTRATION GRADIENT IN HARDENED CONCRETE ON CHLORIDE ION PENETRATION UNDER FREEZING-THAWING ENVIRONMENT Dr Yuki SAKOI
17:30	WELCOME RECEPTION Main foyer 2 & 3					17:30

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Tuesday 9 October 2018

07:30	REGISTRATION Main foyer 2 & 3	07:30
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Plenary 3

09:00	Chairperson: Hugo Corres 613: NEW INSIGHTS INTO THE DURABILITY PROPERTIES OF GEOPOLYMER CONCRETES Prof Frank DEHN	09:00
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09:45	600: HYDRO-MECHANICS BASED DESIGN AND PERFORMANCE ASSESSMENT OF STRUCTURAL CONCRETE Prof Koichi MAEKAWA	09:45
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MORNING TEA  
Main foyer 2 & 3

10:30	MORNING TEA Main foyer 2 & 3	10:30
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	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	
11:00	Chairperson: Dr Akio Kasuga	Chairperson: Mik Braestrup	Chairperson: Mr Frank Papworth	Chairperson: Tor Arn Marius-Hammer	Chairperson: Mr Jean Michel Torrenti	Chairperson: Stuart Matthews	11:00
	510: BUILDING BRIDGES USING THIN-WALLED CONCRETE ELEMENTS AND POST-TENSIONING Mr Stephan FASCHING	500: COMBINED YIELD CRITERIA FOR SHEAR-BENDING IN NUMERICAL LIMIT ANALYSIS OF SLABS Mr Thomas Westergaard JENSEN	573: DURABILITY DESIGN EARLY AGE CRACK CONTROL - DIFFERENTIAL TEMPERATURE IMPACT ON CONCRETE 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 CONCEPTION Mr Nicolas FABRY	245: ANALYZATION OF THE SHEAR LOAD BEARING BEHAVIOUR OF THIN WALLED CFRP REINFORCED UHPFRC STRUCTURES Dr Benjamin KROMOSER	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	400: THREE-DIMENSIONAL PARAMETERS TO CHARACTERIZE AND DESCRIBE THE SIZE AND SHAPE OF AGGREGATES BASED ON COMPUTED TOMOGRAPHY Mrs Bianca DORNISCH-BUND	504: CRACKING ANALYSIS OF A CONCRETE TIE 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	11:15
11:30	404: I-CROSS LINKS - AN INNOVATIVE HIGH-PERFORMANCE CABLE DAMPING SOLUTION Mr Julien-Erden ERDOGAN, Mr Ivica ZIVANOVIC	188: DEVELOPMENT OF CSIM BASED SEISMIC FRAGILITY CURVES OF RC HOLLOW RECTANGULAR BRIDGE PIERS Mr Vijay Kumar POLIMERU	489: A GENETIC ALGORITHM TO IDENTIFY THE OPTIMAL CONCRETE MIX FOR THE ELEMENTS SUBJECT TO RISK OF EARLY AGE THERMAL CRACKING Ms Maryam GHAREHCHAEI	78: BEST MIXING PROCEDURES OF CRUMBS 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	11:30
11:45	262: FROM ALCANTARA 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 STRUTS Dr Nguyen Duc TUNG	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 YOUSSEF	368: EVALUATION OF THERMAL STRESS DEVELOPMENT IN EARLY AGE CONCRETE Mr Aocheng ZHONG	127: LOWER WATER-TO-CEMENT-RATIO MAY INDUCE HIGHER DETRIORATION WHEN CONCRETE IS CRACKED - EXPERIMENTAL INVESTIGATION AND MECHANISM - Dr Satoshi FUJIMOTO	11:45
12:00	40: TESTING OF STAY CABLE SYSTEMS Dr Alex-W. GUTSCH	159: PUNCHING RESISTANCE OF FLAT SLABS WITH OPENINGS Prof Jaroslav HALVONIK	316: DURABILITY PLANS FOR MAJOR PROJECTS Dr David McDONALD	215: PERFORMANCE OF ANCHORS IN EARLY-AGE CONCRETE WITH SUPPLEMENTARY CEMENTITIOUS MATERIAL Dr Jessy 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	12:00
12:15	351: CABLE STAYED VIADUCT ON THE RAILWAY LINE 13 - GUARULHOS INTERNATIONAL AIRPORT Mr Fernando STUCCHI	514: CALIBRATION OF THE SHEAR STOP CRITERIA BASED ON CRACK KINEMATICS OF REINFORCED CONCRETE BEAMS WITHOUT SHEAR REINFORCEMENT Prof Dick A. HORDJIK	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 A METHOD Mr Yusuke TOYOTA	12:15
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	104: INFLUENCE OF ENVIRONMENTAL POLLUTION ON CORROSION MAPS IN SLOVAKIA A/Prof Peter KOTÉŠ	612: IMPACT BEHAVIORS OF RECYCLED AGGREGATE CONCRETE WITH NANOPARTICLES Mr Wengui LI	282: A SIMPLE EXPRESSION TO EVALUATE BENDING CAPACITY AND COMPRESSION ZONE HEIGHT OF RECTANGULAR RC WALL SECTIONS A/Prof Avraham DANCYGER	381: INSPECTION AND MONITORING OF STAY CABLES Mr Werner BRAND	12:30
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	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	553: ALKALI LIMIT IN CEMENT WITH SUPPLEMENTARY CEMENTING MATERIALS - A REVIEW Miss Cibele SANCHEZ ROBOREDO	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	12:45
13:00	LUNCH Main foyer 2 & 3						13:00
	ULTRA HIGH PERFORMANCE	SHRINKAGE & CREEP	PREFABRICATED & PRECAST	NEW MATERIALS	DESIGN & CONSTRUCTION	REINFORCEMENT CORROSION	
14:00	Chairperson: Evan Bentz	Chairperson: Prof Harald Muller	Chairperson: Hugo Corres	Chairperson: Dick Hordijk	Chairperson: Dr Shan Kumar	Chairperson: Mr Rodney Paull	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	596: DEVELOPMENT OF A HIGH MOD-E, VERY HIGH STRENGTH, HIGH PERFORMANCE, SUPER-WORKABLE LOW CARBON CONCRETE Mr Stephen FOSTER	516: FLOATING CONCRETE STRUCTURES Mr Tor Ole OLSEN	311: ANATOMY OF GROUTED POST-TENSIONING 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 NPFS Mr Jean Michel TORRENTI	448: DEVELOPMENT OF A NOVEL PRESTRESSED JOINT SYSTEM FOR PRECAST SLAB Mr Masami KOSHISHI	397: BOND PROPERTIES BETWEEN PRINTABLE CONCRETE AND ROCK Mr Xiaoyun WANG	81: CRITERIA FOR THE MAXIMAL ADMISSIBLE THERMAL DIFFERENTIAL WITHIN A MASS CONCRETE ELEMENT Mr Lionel LINGER, Mr Laurent BOUTILLON	38: GALVANIZED STEEL REINFORCEMENT Prof Stephen YEOMANS	14:15
14:30	239: BENDING BEHAVIOUR OF FILIGREE 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 REYBOUCK	293: TWO-BEAM MODEL - NEW METHOD FOR DETERMINING SHEAR CAPACITY OF HOLLOW CORE SLABS IN SLIM FLOORS A/Prof Wit DERSKOWSKI	444: SEEBECK EFFECT IN CARBON NANOTUBE-REINFORCED CEMENT PASTES Dr Alastair MACLEOD	115: DESIGN AND CONSTRUCTION OF THE YOBASAN VIADUCT Mr Ryo OYAGI	2: SIGNIFICANCE OF CRACKS IN DURABILITY DESIGN AND ASSESSMENT OF HYDRAULIC CONCRETE STRUCTURES DUE TO REINFORCEMENT CORROSION Dr Amir RAHIMI	14:30
14:45	69: IMPROVEMENT OF REINFORCED CONCRETE VOID SLAB BRIDGES BY USING ULTRA HIGH PERFORMANCE FIBRE REINFORCED CEMENT-BASED COMPOSITES (UHPFRC): 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 1990 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	14:45
15:00	63: CONTROL OF THE ULTRA-HIGH PERFORMANCE FIBRE REINFORCED CONCRETE (UHPFRC) CONCERNING TO POST-CRACKING PERFORMANCE Dr Isaac GALOBARDES	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 HALJIMHAMMADI	352: DEVELOPMENT OF MULTIFUNCTIONAL SANDWICH PANELS FOR INTEGRATED REHABILITATION OF RC-BUILDINGS: CHARACTERIZATION OF THE COMPONENTS Prof Joaquim A. O. BARROS	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	15:00
15:15	308: EXPERIMENTAL AND NUMERICAL SIMULATION INVESTIGATION OF UHPFC CONCRETE BEAM-COLUMN JOINT IN UNDERGROUND STRUCTURES Dr Xuesong GAI	27: EXPERIMENTS ON DRYING, SELF-DESICCATION AND SHRINKAGE OF CONCRETE WITH DIFFERENT WATER CEMENT RATIO Dr Marek VINKLER	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 CORRODED REINFORCEMENT IN STRUCTURAL ANALYSIS Mr Arpad ROZSAS	15:15
15:30	431: HIGH RESISTANCE STAY CABLES AND UHPFRC DECK TO SPAN 1100 METERS Mr Marco NOVARIN	283: COMPARISON OF CREEP AND SHRINKAGE STRAINS OF LARGE CONCRETE SPECIMENS WITH THEORETICAL MODELS Mr Dominik SUZA	79: ENTIRE DISPLACEMENT DISTRIBUTION OF REINFORCED CONCRETE BOX CULVERT IN THE DAMAGING PROCESS SUBJECTED TO HORIZONTAL LOAD Dr Yoshinori MIYAGAWA	33: ONE ORDER 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	15:30	

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Monday 08 October 2018 - Thursday 11 October 2018  
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Tuesday 9 October 2018						
15:45	AFTERNOON TEA Main foyer 2 & 3					15:45
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
	LARGE CHALLENGING PROJECTS	FIRE	REINFORCEMENT & PRESTRESS	FIBRE REINFORCED CONCRETE	DESIGN & CONSTRUCTION	CONCRETE DETERIORATION METHODS
	Chairperson: Brett Pielstick	Chairperson: Prof Priyan Mendis	Chairperson: Randall Poston	Chairperson: Vyacheslav Falkman	Chairperson: Tor Ole Olsen	Chairperson: Amir Rahimi
16:15	426: POST-TENSIONED CONCRETE WIND TOWERS AND "EOLIFT" SYSTEM Mrs Vanessa BUCHIN-ROULIE	374: RESIDUAL CAPACITY OF CONCRETE PREPARED WITH POROUS AGGREGATE EXPOSED TO ELEVATED TEMPERATURE Prof Sherif VEHA	161: DIFFERENCES IN BENDING BEHAVIOUR OF STEEL AND GFRP REINFORCED BEAMS AProf 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
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 SLABS 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 OUKAILI	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 RESHEALENCE Prof Liberato FERRARA	343: FIRE PERFORMANCE LIGHTWEIGHT AERATED CONCRETE AND STEEL COMPOSITE WALL PANELS Mr Ali AL-DUJAILI, 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 (SFR) 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
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 UNITISED FACADE SYSTEMS Dr Kate Tq NGUYEN	561: FIBRE COMPOSITE REBAR: AN EMERGING CONSTRUCTION TECHNOLOGY FOR CONCRETE STRUCTURES IN AUSTRALIA Dr Allan MANALO	482: EVALUATION OF ANCHORAGE CAPACITY OF HEADED BARS IN STEEL FIBRE 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
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	572: EXPERIMENTAL STUDY ON MECHANICAL BEHAVIORS OF SELF-BALANCED PRESTRESSED BAR Mr Pengfei XIE	359: FAILURE MODE OF STEEL FIBER REINFORCED EXTERIOR BEAM-COLUMN JOINTS ACCORDING TO DEFORMATION CAPACITY Mr Dong-Hee SON	471: STUDY ON BASIC CHARACTERISTICS OF REGROUT MATERIALS FOR PC TENDONS Mr Kazuki TOBITA	406: BOND BEHAVIOUR OF REINFORCED CONCRETE UNDER HIGH CYCLE FATIGUE PULL-OUT LOADING Mr Marc KOSCHEMANN
19:00	CONGRESS DINNER Melbourne Olympic Park					19:00

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Melbourne Convention and Exhibition Centre

Wednesday 10 October 2018

07:30	REGISTRATION Main foyer 2 & 3	07:30
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Plenary 3

09:00	Chairperson: Tor Ole Olsen 609: IN QUEST OF THE HOLY GRAILS OF CONSTRUCTION Prof Campbell R. MIDDLETON	09:00
09:45	602: ALKALI-SILICA REACTION: EIGHTY YEARS ON Dr Michael THOMAS	09:45

MORNING TEA  
Main foyer 2 & 3

	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219	
	BRIDGES	SEISMIC	REINFORCEMENT & PRESTRESS		MODELLING & DESIGN	COMPOSITE AND HYBRID	
	Chairperson: Prof Johann Kollegger	Chairperson: Alessandro Palermo	Chairperson: Prof Ian Gilbert		Chairperson: Jan Vitek	Chairperson: Prof Riadh Al-Mahadi	
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	453: INFLUENCE OF CONCRETE MODULUS ON THE AXIAL BEHAVIOUR OF PULTRUDED FIBRE REINFORCED POLYMER TUBE COLUMNS Prof Thiru ARAVINTHAN	11:00
11:15	365: NORTHLINK WA COLLIER RD SPLUI 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 Prof Steffen MARX	168: SMALL-SCALE TESTING ON BOND BEHAVIOR OF PROFILED STEEL REINFORCED CRC COMPOSITE SLABS Miss Qu Yi	11:15
11:30	116: STUDY FOR CAUSAL INFERENCE ABOUT CRACKS FOUND IN THE WEBS OF A PRESTRESSED CONCRETE BRIDGE Mr Tazian 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 VIEITO		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	11:30
11:45	118: INNOVATIVE SHIP IMPACT PROTECTION FOR THE MERSEY GATEWAY BRIDGE Dr Kenneth C. KLEISSL	365: GROUP BEHAVIOUR OF DOUBLE HEADED ANCHORED BLIND BOLTS UNDER CYCLIC LOADING Dr Tlak POKHAREL	41: LARGE SCALE TESTING ON STRUCTURAL REINFORCED ELEMENTS AND STAY CABLE SYSTEMS Dr Alex-W. GUTSCH	fib AWARDS WINNERS Chairperson: Jim Forbes	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	11:45
12:00	491: ENHANCING PERFORMANCE AND AESTHETICS OF CURVED BRIDGES Mr Aloek PANDAY	165: SEISMIC RETROFIT OF CONCRETE SLAB-COLUMN CONNECTIONS USING FLEXIBLE SHEAR REINFORCEMENTS Prof Maria Anna POLAK	461: EVALUATION TESTS FOR NEW APPLYING OF ULTRA-HIGH STRENGTH PC STRAND Mr Rei KASAHARA	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	12:00
12:15	464: MONITORING OF EXISTING LONG SPAN BRIDGES - RESULTS, NUMERICAL SIMULATION, MATHEMATICAL MODELS FOR LONG TERM PREDICTION Prof Lukas VRABLIK	225: IMPLEMENTATION OF STEEL CONSTITUTIVE MODEL INCLUDING BUCKLING IN FARC. CL 2.1 CRACK MODEL Prof Beatrice BELLETTI	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		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	12:15
12:30	25: ELASTOMERIC BEARINGS ARRANGEMENT 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 Tsuguhiko SHIMABATA	214: EXPERIMENTAL STUDY ON REINFORCED CONCRETE MEMBERS USING BAMBOO AND PP-BAND AS REINFORCEMENT Dr Masakazu TERAI		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	12:30
12:45	32: CONSTRUCTION OF AN ICONIC SIGNATURE BRIDGE AT DELHI Mr Venkatramana Narayan HEGGADE	181: CYCLIC LOADING TEST OF RC COLUMNS WITH BOND-SLIP CONNECTORS ON LONGITUDINAL BARS Mr Keita UEMURA	276: ASSESSMENT OF TEST CONDITIONS AND SPURIOUS FACTORS AFFECTING THE RESULTS OF THE PULL-OUT TEST Mr Ismael VIEITO		280: THREE-DIMENSIONAL FORCE TRANSFER BETWEEN REINFORCEMENT AND CONCRETE Dr Jan LACO, Mr Chris HENDY		12:45

LUNCH  
Main foyer 2 & 3

	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219	
	EXISTING STRUCTURES	SEISMIC	FIBRE REINFORCED CONCRETE	fib NATIONAL REPORTS	DESIGN & CONSTRUCTION	MODELS FOR DURABILITY	
	Chairperson: Jim Forbes	Chairperson: Prof Koichi Maekawa	Chairperson: Marco Di Prisco	Chairperson: Hugo Corres	Chairperson: Christian Glaesser	Chairperson: Stuart Matthews	
14:00	362: EMPIRICAL SHEAR STRENGTH MODEL AND NONLINEAR MODELING OF UNREINFORCED BEAM-COLUMN RC JOINTS WITH PLAIN BARS Dr Maria Teresa DE RISI	419: A MULTIFUNCTIONAL SOLUTION FOR ALIBEYKOV AND KAGITANE VIADUCTS Mr Mauro SARTORI	387: TIME-DEPENDENT BEHAVIOUR OF FIBRE REINFORCED CONCRETE Prof Ian GILBERT	FIB NMG - BRAZIL	395: THE USE OF GPPOLYMER CONCRETE AND GFRP MATERIALS FOR AN INNOVATIVE WHARF STRUCTURE Mr Thomas GLASSBY	272: LONG-TERM DURABILITY OF TEXTILE REINFORCED CONCRETE Mr Anne SPELTER	14:00
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 Hiroyuki NAKAJIMA	94: NONLINEAR FE ANALYSIS OF STEEL FIBRE REINFORCED CONCRETE CONTINUOUS BEAMS Mr S M Faisal MAHMOOD	FIB NMG - CZECH REPUBLIC	17: FIELD DRIVING TESTS OF PRECAST CONCRETE PILES REINFORCED WITH GLASS FRP BARS AND TIES Prof Ibrahim BENMOKRANE	460: KINGSFORD SMITH DRIVE PROJECT BRISBANE - DURABILITY ASSESSMENT AND PLANNING EXPERIENCES Mr Warren GREEN	14:15
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	349: ASSESSING THE EFFECT OF SYNTHETIC FIBRES ON THE MECHANICAL PROPERTIES OF HIGH STRENGTH CONCRETE	FIB NMG - HUNGARY	56: FIXING SYSTEMS FOR THIN, TEXTILE REINFORCED CONCRETE FaçADES LEAD TO A RENEWAL OF ESTABLISHED DESIGN RULES	526: DETERMINING MINIMUM REINFORCEMENT BASED ON THE DEFORMATION COMPATIBILITY Prof Nguyen Viet TUE	14:30
14:45	452: FATIGUE LIFE ASSESSMENT OF INITIALLY AND TIME-DEPENDENTLY DETERIORATED RC DECKS BY DATA ASSIMILATION Dr Yuuya 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 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	14:45
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 LIGHTWEIGHT FERROCEMENT: EXPERIMENTAL INVESTIGATION & NUMERICAL MODELING Dr Asad HANIF	FIB NMG - JAPAN	103: APPLICATION OF THE NEW MEASURING METHOD OF FIBRE-OPTIC STRAIN MEASUREMENT ON REINFORCED CONCRETE COLUMNS WITH BUTT JOINT	4: DURABILITY CRITERIA OF THE MONACO SEA EXTENSION Dr Christian CREMONA	15:00
15:15	230: INTERACTION BETWEEN LONGITUDINAL BENDING MOMENT AND TRANSVERSAL SHEAR STRENGTH IN RC DECK SLABS OF HOLLOW BOX BRIDGE Prof Beatrice BELLETTI	207: 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 Thomais POLYDOROU	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	15:15
15:30	90: ULTIMATE SHEAR STRENGTH OF STEEL REINFORCED CONCRETE MEMBERS WITH LOW-STRENGTH CONCRETE Ms Kiu Kiu 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-Hae SON	FIB NMG - SWITZERLAND	610: PERFORMANCE OF POST-EARTHQUAKE CFRP-REPAIRED LIMITED DUCTILITY RC BUILDING USING HYBRID SIMULATION Mr Javad HASHEMI	221: FATIGUE LIFE OF CURVED TENDONS IN POST-TENSIONED CONCRETE STRUCTURES Mr Jörn REMITZ	15:30
				FIB NMG - UAE			

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Wednesday 10 October 2018

AFTERNOON TEA Main foyer 2 & 3						
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219
	EXISTING STRUCTURES	NO SESSION	AAC and GEOPOLYMER	REPAIR & REHABILITATION	DESIGN & CONSTRUCTION	CONCRETE DETERIORATION METHODS
	Chairperson: Chris Hendy		Chairperson: Frank Dehn	Chairperson: Lionel Linger	Chairperson: A/Prof Tuan Ngo	Chairperson: Dr Nadarajah Gowripalan
16:15	521: SEISMIC PERFORMANCE OF RC BEAMS WITH CURTAILED SECOND LAYER LONGITUDINAL REINFORCEMENT <b>Dr Susumu KONO</b>		297: EXPERIMENTAL INVESTIGATION OF BOND BETWEEN GEOPOLYMER CONCRETE AND GFRP BARS <b>Dr Mohamed ELCHALAKANI</b>	16: DURABILITY OF FLAIN AND FIBRE REINFORCED SHOTCRETE PILE REPAIRS IN A TROPICAL MARINE ENVIRONMENT <b>Dr Marita ALLAN BERNDT</b>	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 <b>Mr Umesh RAJESHIRKE</b>	307: RESONANT FATIGUE TEST FACILITY FOR LARGE SCALE BENDING TESTS <b>Mr Ralf HERRMANN</b>
16:30	22: COST-BENEFIT ANALYSIS OF ALTERNATIVE RETROFIT OPTIONS FOR PILOTIS-TYPE REINFORCED CONCRETE (RC) FRAME BUILDINGS <b>Prof Donatello CARDONE</b>		130: EVALUATION OF THE BEHAVIOR OF REINFORCED CONCRETE WITH ALKALI ACTIVATED BINDERS EXPOSED TO SEVERELY HIGH TEMPERATURES <b>Miss Kruthi Kiran RAMAGIRI</b>	597: REHABILITATION AND CFRP STRENGTHENING OF ASR AFFECTED CONCRETE BRIDGE PIERS <b>Dr Reza SALAMY</b>	363: BEHAVIOR OF JOINTS IN BETWEEN FILIGREE PLANK PROFILES SUBJECTED TO BENDING: AN EXPERIMENTAL STUDY <b>Mr Tom MOLKENS</b>	70: AGE OF STRUCTURES/DAMS THROUGH THE DETERIORATION OF CEMENT CONCRETE IN FLOWING WATER DUE TO SEEPAGE & CEMENT LOSS <b>Mr Kulwant Singh SINGH</b>
16:45	211: EXPERIMENTAL STUDY ON REMAINED FATIGUE LIFE OF DAMAGED REINFORCED CONCRETE BRIDGE SLAB <b>Mr Takashi KURODA</b>		574: MITIGATING ALKALI SILICA REACTIONS IN THE ABSENCE OF USING SCMS: A REVIEW OF EMPIRICAL STUDIES. <b>Miss Elsie NSIAH-BAAFI</b>	250: REPLACEMENT METHODS OF PARTIALLY OR FULLY COLLAPSED EXTERNAL BONDED TENDONS <b>Dr Christian GLAESER, Mr Kay LOEFFLER</b>	341: TEST METHOD FOR CURVATURE-DEPENDENT TENSILE STRENGTH REDUCTION OF TEXTILE REINFORCED CONCRETE (TRC) <b>Mr Dennis MESSERER</b>	543: DAMAGE REASONS ANALYSIS OF PT CABLES BLISTER IN A ROAD BRIDGE <b>Dr Piotr GWOZDZIEWICZ</b>
17:00	224: REPAIR OF STRUCTURAL CONCRETE AGAINST THERMO-MECHANICAL LOADS <b>Prof Ananth RAMASWAMY</b>		618: DEVELOPMENT & APPLICATION OF HIGH DENSITY GEOPOLYMER CONCRETE FOR BREAKWATER ARMY UNITS <b>Mr Stephen FOSTER</b>	45: REPLACEMENT OF FLOOR SLAB OF THE STEEL BRIDGE WITH NIGHT ROAD CLOSED AND TRAFFIC CONTROL <b>Mr Hidekazu HAYASHI</b>	18: EXPERIMENTAL STUDY ON STRUCTURAL MEMBERS USING ULTRA-HIGH-STRENGTH ECM CONCRETE <b>Mr Hiroto TAKATSU</b>	570: LIFE CYCLE COST ANALYSIS OF SHORT AND MEDIUM SPAN CONCRETE BRIDGE IN THE NORTH OF CHINA <b>Ms Qi XU</b>
17:15				208: DESIGN OF UHPFRC DECK SLAB FOR REPLACEMENT OF DETERIORATED CONCRETE SLAB <b>Mr Kimio SAITO</b>		254: PREMATURE FAILURE OF HIGH-STRENGTH GROUT IN FATIGUE TESTS DUE TO THE WARMING OF SPECIMEN DURING CYCLIC LOADING <b>Mrs Corinne OTTO</b>

# The International Federation for Structural Concrete 5th International fib Congress 2018

Monday 08 October 2018 - Thursday 11 October 2018  
Melbourne Convention and Exhibition Centre

Thursday 11 October 2018

07:30	REGISTRATION Main foyer 2 & 3					07:30	
	Plenary 3	Room 215	Room 216	Room 217	Room 218	Room 219	
	<b>BRIDGES</b>	<b>AAC &amp; GEOPOLYMER</b>	<b>POSTERS</b>	<b>REPAIR &amp; REHABILITATION</b>	<b>MODELLING &amp; DESIGN</b>	<b>STRUCTURAL STRENGTHENING</b>	
	Chairperson: Michel Moussard	Chairperson: Steve Foster	Chairperson: Hugo Corres	Chairperson: Fernando Slucchi	Chairperson: Prof Tamon Ueda	Chairperson: Prof Riadh Al-Mahaidi	
08:30	112: DESIGN AND CONSTRUCTION OF A PRESTRESSED CONCRETE COMPOSITE BRIDGE OVER A ROAD, A RAILWAY AND A RIVER <b>Mr Ryoichi KAWANAKA</b>	SPECIAL SESSION - GEOPOLYMER	389: EFFECT OF TEMPERATURE AND HUMIDITY ON ELECTRICAL RESISTIVITY MEASUREMENT IN EARLY AGE CEMENT-BASED MATERIALS <b>Dr Hongjue YIM</b> 223: EXPERIMENTAL VERIFICATION OF CONCRETE RESISTANCE AGAINST LOW-PH ENVIRONMENT <b>Mr Stanislav REHACEK</b> 323: EXPERIMENTAL STUDY ON THE REINFORCED CONCRETE PILE-CAP WITH A PILE, EXTERIOR COLUMN AND FOUNDATION BEAM <b>Prof Shinji KISHIDA</b>	238: A CASE STUDY ON RESTORATION OF LARGE SPAN BALANCE CANTILEVER TYPE BRIDGE STRUCTURE ACROSS RIVER NARMADA ON CHANDOD POICHA ROAD, GUJARAT, INDIA <b>Mr Sureshchandra PATEL, Mr Jitendrakumar PATEL</b>	424: THERMAL CRACKING ANALYSIS OF MASSIVE CONCRETE INFRASTRUCTURE <b>Dr Mi CHORZEPA</b>	119: SHEAR RESISTANCE OF DECK SLABS SUBJECTED TO CONCENTRATED LOAD <b>Prof Jaroslav HALVONIK</b>	
08:45	186: AN AUSTRALIAN FIRST SOLUTION TO DELIVER KEY INFRASTRUCTURE IN CHALLENGING RAIL ENVIRONMENTS <b>Mr George MAKRAKIS</b>		12: INFLUENCE OF TEMPERATURE AND MOISTURE ON MECHANICAL AND DURABILITY PROPERTIES OF CEMENT MORTAR <b>Mr Alireza JOSHAGHANI</b> 382: THE USE OF THE ACOUSTIC EMISSION METHOD FOR THE EXPERIMENTAL DETERMINATION OF THE DAMAGE PROGRESS IN THE FINE-GRAINED CEMENTITIOUS COMPOSITES SUBJECTED TO LOADING <b>Miss Michaela HODUJAKOVA</b> 314: RESISTANCE OF CONCRETE WITH STYRENE-ACRYLATE ADDITIVE IN LOW-PH ENVIRONMENT <b>Dr Daniel DOBIAS</b>	330: CONCRETE TO CONCRETE BOND - A CRITICAL REVIEW ON METHODS FOR BOND STRENGTH DETERMINATION <b>Prof Norbert RANDL</b>	102: FEASIBILITY EVALUATION OF BRIDGE PIER CAP DESIGN BY COMPARING CURRENT DESIGN CODES <b>Mr Junlong AN</b>	329: FAILURES AND REHABILITATION OF SLOVAK FIRST GENERATION PRECAST BRIDGE ERECTED BY BALANCED CANTILEVER METHOD <b>Prof Martin MORAVCIK</b>	
09:00	486: CABLES FOR EXTRADOSED BRIDGES IN INDIA <b>Mr Werner BRAND</b>		133: PROPERTIES OF CONCRETE OBTAINED FROM RC BUILDING CONSTRUCTED AT 1971 <b>Prof Hideo ARAKI</b> 86: EXPERIMENTAL EXAMINATION OF LOAD-CARRYING CAPACITY FOR A FATIGUED CONCRETE BEAM REINFORCED WITH ROUND REBAR <b>Mr Hiroshi HAYASHIDA</b>	354: EXPERIMENTAL AND NUMERICAL STUDY OF BOND BEHAVIOUR BETWEEN NSM CFRP LAMINATE AND CONCRETE EXPOSED TO HIGH TEMPERATURE <b>Dr Kamiran ABDOUKA</b>	95: FUNDAMENTAL STUDY ON BOND PROPERTIES USING FIBER-OPTIC STRAIN SENSOR <b>Mr Atsushi SHIBAYAMA</b>	48: SOME COMMON MISTAKES DURING THE DESIGN AND THE EXECUTION OF THE STRUCTURAL RETROFITTING OF EXISTING RC BUILDINGS <b>Prof Marina TRAYKOVA</b>	
09:15	481: GORI NADI BRIDGE: A UNIQUE UNSYMMETRICAL BRIDGE IN INDIA <b>Mr Alok PANDAY</b>		206: PERFORMANCE IMPROVEMENT OF LIGHT TRANSPARENT CONCRETE <b>Prof Byoungil KIM</b>	162: COMPARISON OF FRP-TO-CONCRETE ANCHORED JOINTS DESIGNED FOR FRP SHEAR-STRENGTHENED RC T-BEAMS <b>Dr Ahmed GODAT</b>	116: NUMERICAL SIMULATION OF CRACK PROPAGATION USING RANDOMLY DISTRIBUTED MATERIAL PARAMETERS <b>Mr Marcel MEINHARDT</b>	385: INFLUENCE OF COATING THE STEEL TUBE ON THE BOND STRESS BETWEEN THE STEEL TUBE AND CONCRETE <b>Mr Peter GANDY</b>	
09:30	156: CABLE STAYS - NEW FUNCTIONALITIES, AESTHETICS AND PROTECTION <b>Mr Rachid ANNAN</b>		275: MODEL FOR DESCRIBING SILO WALL DISPLACEMENTS INDUCED BY SELF-EXCITED VIBRATIONS <b>Prof Andrzej UBYSZ</b>	123: WHEEL RUNNING FATIGUE TEST OF UHPFRC DECK SLAB FOR HIGHWAY BRIDGES <b>Mr Yuki YOKOTA</b>	558: NUMERICAL SIMULATION OF PRECAST CONCRETE PANEL FOR AIRFIELD PAVEMENT <b>Dr Josef NOVAK</b>	284: SHORT-TERM BRIDGE STRENGTHENING METHOD <b>Mr Dominik SUZA</b>	
09:45	218: IN-SITU SHEAR TESTS ON A 64 YEAR OLD ROADBRIDGE <b>Mr Sebastian GEHRLIN, Mr Josef LANDLER, Mr Thomas OBERNDORFER</b>		357: OPTIMISING THE MIXTURE PROPORTIONING OF HIGH VOLUME FLY ASH SELF-COMPACTING CONCRETE <b>Miss Zhiyuan ZHOU, Dr Massoud SOFI, Prof Priyan MENDES</b>	586: BONDING BEHAVIOUR OF MINERAL COMPOSITE IN METAKAOLIN VARIED CFRP RETROFIT <b>Mr Raghavendra VASUDEVA UPADHYAYA</b>	493: NUMERICAL INVESTIGATIONS ON THE BEHAVIOUR OF CIRCULAR ANCHOR GROUPS <b>Ms Nilde MISHAKHU</b>	319: SHEAR CAPACITY EVALUATION OF UNBONDED PRECAST PRESTRESSED CONCRETE BEAM-COLUMN JOINTS CAUSED VOLUME LOSS BY SHEATH TUBES <b>Mr Yuji TAJIMA</b>	
10:00	508: UNEXPECTED CRACKING IN A RC PIER CAP - A CASE STUDY <b>Prof Meher Prasad ANUMOLU</b>		415: WEAR DETERMINATION OF SURFACE PROTECTION SYSTEMS WITH PARKING ABRASION TEST <b>Mrs Eva-Maria LADNER</b>	289: AN EMBEDDED STRONG DISCONTINUITY APPROACH BASED ON LOCAL DEGREES OF FREEDOM FOR MODELLING FRACTURE IN CONCRETE STRUCTURES <b>Mr Marcelo CARVALHO</b>	345: STRENGTHENING OF CANTILEVER DECKING OF BRIDGES - AN INDIAN EXPERIENCE <b>Mr Padmakar MANJURE</b>	216: STRENGTHENING OF STEEL CONCRETE COMPOSITE GIRDER BRIDGE USING THE EXTERNAL PRESTRESSING (TENDON (YUMIFURIGAWA BRIDGE)) <b>Mr Kotaro Ikegami</b>	
10:15	512: NEW METHOD FOR THE PRODUCTION OF DECK SLABS OF STEEL CONCRETE-COMPOSITE BRIDGES <b>Prof Johann KOLLEGER</b>		MORNING TEA Main foyer 2 & 3				
10:30	Plenary 3		Room 215	Room 216	Room 217	Room 218	Room 219
	<b>CONCRETE MATERIALS</b>		<b>REPAIR &amp; REHABILITATION</b>	<b>POSTERS</b>	<b>DESIGN &amp; CONSTRUCTION</b>	<b>MODELLING &amp; DESIGN</b>	<b>STRUCTURAL STRENGTHENING</b>
	Chairperson: Nico Hermann	Chairperson: Norbet Randi	Chairperson: David Millar	Chairperson: Prof Takafumi Noguchi	Chairperson: Prof Gyorgy Balazs	Chairperson: Mr Hamid Valipour	
11:00	183: MECHANICAL AND THERMAL PROPERTIES OF CONCRETE PAVEMENT USING EAF SLAG FINE AGGREGATE <b>Mr Sushanta ROY</b>	73: PUNCHING SHEAR STRENGTH OF RC INTERIOR SLABS WITH UHPFRC OVERLAY <b>Prof Sung-Gul HONG</b>	361: EXPERIMENTAL INVESTIGATION OF THE MATERIAL CHARACTERISTICS OF YOUNG FINE-GRAINED CEMENT-BASED COMPOSITES <b>Mrs Barbara KUCHARCZYKOWA</b> 131: MAGNETIC PROBE TO TEST SPATIAL DISTRIBUTION OF STEEL FIBRES IN UHPFRC BEAMS <b>Miss Lufan LI</b>	451: CONSTRUCTION SPEED AND POUR STRIPS <b>Dr David McDONALD</b>	142: APPLICATION OF DIFFERENT PROBABILISTIC METHODS FOR STRUCTURAL RELIABILITY OF REINFORCED CONCRETE HYDRAULIC STRUCTURES <b>Mr Arslan TAHIR</b>	252: SHEAR STRENGTHENING USING EXTERNAL FE-30A STRIPS <b>Dr Antoni CLADERA</b>	
11:15	248: LIGHTWEIGHT AGGREGATES FOR INTERNAL CURING <b>Prof Sherif YEHIA</b>	300: REPAIR OF MAJOR CRACK IN 4 SPAN CONTINUOUS MODULE OF BRIDGE AT VARSOVA ON NH-48, NEAR MUMBAI, INDIA <b>Mr Dhananjay BHIDE</b>	336: INVESTIGATION OF TEMPERATURE EFFECTS OF LARGE DIAMETER CONCRETE SILOS EXPOSED TO SOLAR RADIATION <b>Mr Le XIE</b>	249: ADVANCED TENDON FEATURES FOR POST-TENSIONING OF WIND TOWERS <b>Dr Christian GLAESER</b>	163: FINITE ELEMENT INVESTIGATION ON THE EFFECT OF COLUMN RECTANGULARITY ON PUNCHING SHEAR STRENGTH OF CONCRETE SLABS <b>Prof Maria Anna POLAK</b>	376: NUMERICAL INVESTIGATION ON PROGRESSIVE COLLAPSE RESISTANCE OF MULTI-STORY PLANAR RC FRAMES STRENGTHENED BY STEEL BRACES <b>Prof Jun YU</b>	
11:30	46: THERMAL STRESS MITIGATION IN MASS CONCRETE FOR T23 WELL CAP IN SIGNATURE BRIDGE DELHI <b>Mr Venkatramana Narayan HEGGADE</b>	394: RESEARCH ON THE INTEGRAL LATERAL RELOCATION TECHNIQUE OF CURVED CONTINUOUS BRIDGE <b>Mr Hui GAO</b>	106: EXPERIMENTAL MEASUREMENT OF REINFORCEMENT CORROSION <b>Dr Miroslav BRODNAN</b>	212: TENSILE CAPACITY OF SCREW ANCHORS FAILING DUE TO THE PULL-OUT FAILURE MODE <b>Dr Alireza MOHYEDDIN</b>	191: DESIGN OF THE PARRAMATTA ROAD VENTILATION FACILITY ON WESTCONNEX 1B <b>Mr John MERRICK</b>	583: COMPARISON OF THE SEISMIC PERFORMANCE OF SLENDER AND SQUAT T-SHAPED RC WALLS <b>Dr Jiaxing MA, Prof Yinhui WANG, Dr Zhongwen ZHANG</b>	
11:45	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 <b>Mr Yosuke AZUMA</b>	536: FLEXURAL TEST OF CONCRETE ELEMENTS BONDED WITH POLYMER FLEXIBLE JOINT: EXPERIMENTAL AND NUMERICAL ANALYSIS <b>Mr Lukasz ZDANOWICZ</b>	292: INNOVATIVE ELEMENTS AND STRUCTURES MADE FROM ULTRA HIGH - PERFORMANCE FIBRE REINFORCED CONCRETE <b>Mr David CITEK</b>	195: HIGH STRENGTH REINFORCEMENT - NEW CONCEPTS FOR HIGH RISE STRUCTURES <b>Mr Torsten VOSS</b>	328: BOND SPLITTING BEHAVIOUR OF POST-INSTALLED AND CAST IN REINFORCING BARS <b>Prof Norbert RANDL</b>	608: INFLUENCE OF STEEL FIBRE, ELECTRICAL WASTE COPPER FIBRE AND E-GLASS FIBRE ON MECHANICAL PROPERTIES OF CONCRETE <b>Dr Sofi A</b>	
12:00	226: THE MECHANICAL PROPERTIES AND DURABILITY OF HIGH STRENGTH CONCRETE WITH SILICA FUME INCORPORATING UAE LOCAL MATERIALS <b>Dr Reem SABOUNI</b>	31: PERFORMANCE EVALUATION BY WHEEL LOAD RUNNING TEST AFTER REINFORCEMENT COMPARING DETERIORATION DEGREE OF ROAD BRIDGE RC SLABS <b>Mr Toshihiko NAGATANI</b>	528: MECHANICAL FRACTURE PARAMETERS OF SELECTED MORTARS BASED ON ALKALI-ACTIVATED BINDER AND NATURAL FIBERS <b>Dr Hana SIMONOVA</b>	182: CONSTRUCTION OF INTERMEDIATE SUPPORT OF A LARGE EXTRADOSED BRIDGE BY INCREMENTAL LAUNCHING METHOD <b>Dr Manabu HOSOTANI</b>	291: POTENTIAL OF THE RIGID FINITE ELEMENT METHOD IN REINFORCED CONCRETE BEAMS CALCULATIONS <b>Dr Michal MUSIAL</b>	340: RISK ANALYSIS FOR THE IMPACT ON TRAFFIC SIGN BRIDGES <b>Dr Thomas BRAML</b>	
12:15	550: CATENARY ACTION IN BEAM COLUMN CONNECTIONS: A REVIEW <b>Mr Qazi Amjad Ali PATHAN</b>	265: STRATEGIES FOR USING STRUCTURAL LIGHTWEIGHT CONCRETE FOR BRIDGE REHABILITATION <b>Dr Reid CASTRODALE</b>	Chairperson: Prof Steve Foster CLOSING CEREMONY				
12:30	LUNCH Main foyer 2 & 3					12:30	
13:00	LUNCH Main foyer 2 & 3					13:00	