

Asia-Pacific Conference on FRP in Structures (APFIS 2007): 12-14 December 2007, Hong Kong, China

Accepted Abstract Submissions

Paper ID	Paper Title	Authors (# = Corresponding Author)	Affiliation of Corresponding Author	Country	Working Group
APFIS-001	Concrete Softening Ductility of FRP Confined RC Columns	Togay Ozbakkaloglu [#] Deric Oehlers Bhavin Mehta	The University of Adelaide	Australia	
APFIS-002	The Components of RC Member Ductility and the Effect of FRP Plating	Deric Oehlers [#] Mohammed Ali Mike Griffith	The University of Adelaide	Australia	
APFIS-003	Yield Penetration Ductility of FRP Plated RC Structures	Matthew Hasket Deric Oehlers [#]	The University of Adelaide	Australia	
APFIS-004	Experimental Study on the Effects of Cyclic Loading during Repairing Period on the Effectiveness of Bonded FRP	Marc Quiertant [#] Laurent Siegert Claude Boulay Patricia Fakhri Christian Tourneur Jean-Luc Clément	Laboratoire Central des Ponts et Chaussées	France	
APFIS-005	An Experimental Investigation on Performance of RC Frame Infilled with Unreinforced Masonry Wall Retrofitted by CFRP	M.Z. Kabir [#] R. Shahmoradi O. Rezaifar	AmirKabir University of Technology	Iran	
APFIS-006	Reliability-based Flexural Design of Concrete Beams Reinforced with Fiber Reinforced Polymer Rods	Zheng He [#] Guang Li	Northeastern University	China	
APFIS-007	Isochrone Bond Law for NSM FRP Strips	Kurt Borchert [#] Konrad Zilch	Technical University Munich	Germany	Bond
APFIS-008	An Experimental Study on Long Term Behaviour of Prestressed FRP Sheet	Hesham Diab [#] Zhishen Wu	Ibaraki University	Japan	
APFIS-009	Evaluation of Debonding Capacity of FRP-Strengthened Beams under Fatigue Loading	Hesham Diab [#] Zhishen Wu	Ibaraki University	Japan	Bond
APFIS-010	Pullout and Bond of Glass Fiber-Reinforced Polymer Ribbed Rebars in Concrete	Qingduo Hao [#] Yanlei Wang Jinping Ou	Dalian University	China	
APFIS-011	Static Behavior of Hybrid FRP-Concrete Bridge Superstructure	Yanlei Wang [#] Qingduo Hao Jinping Ou	Dalian University	China	
APFIS-012	Durability of Adhesive Properties of Carbon Fiber Sheet Reinforcement for Concrete	Itaru Nishizaki [#] Yuya Kato Tomonori Tomiyama	Public Works Research Institute	Japan	
APFIS-013	Study on Bond Behaviors between CFRP and Concrete in Beams Bonded with External Fibers	X.Y. Lin [#] S.Y. Cao	Nanjing University	China	
APFIS-014	Environmental Fatigue Test of Bonded Composite Patch repaired Metallic Structure	Yousuke Okamoto [#] Hironori Namiki Hongneng Cai	Kyobashi Mentec Ltd.	Japan	
APFIS-018	Finishing Methods of the End of a Fiber Sheet Inserted under a CFRP Strip for Steel Plates	Toshiyuki Ishikawa [#] Keita Komura Ichiro Okura Suehiko Yokota Makoto Saito	Osaka University	Japan	

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APFIS-019	Debonding Shear Stress in Steel Plates with a Fibre Sheet Inserted under a CFRP Strip	Ichiro Okura [#] Toshiyuki Ishikawa	Osaka University	Japan	
APFIS-020	Behaviour of C-FRP Sheets Bonded to Historical Masonry	Roberto Capozucca [#]	University Politecnica delle Marche	Italy	
APFIS-021	Fiber Optic Sensing for the Delamination Behaviour of FRP Reinforced Steel Girders	Seishi Yamada [#] Yasukazu Yoshida Sho Saito Satoshi Yamada Iwao Komiya	Toyohashi University of Technology	Japan	
APFIS-022	Buckling and Reduced Stiffness Criteria of FRP Cylindrical Shells under Compression	Kentaro Matsumoto [#] Seishi Yamada Nobuhisa Yamamoto James G.A. Croll	Toyohashi University of Technology	Japan	
APFIS-023	Analytical Study on Efficiency Evaluation of FRP Confinement on Square RC Columns	Ali Zarafshan [#] Sina Zarafshan	University of Tehran	Iran	
APFIS-024	A Quantitative Study on Bond Behaviour Between Fiber-Reinforced Polymer (FRP) and Concrete Interface using Infra-red Thermography (IRT)	C.S. Poon [#] S.C. Kou J.G. Teng W.L. Lai W.F. Tsang C.C. Lai	The Hong Kong Polytechnic University	Hong Kong	
APFIS-025	Experimental Study on Repair of Cracked Steel Members with GFRP and Stop-Hole	Hiroyuki Suzuki [#]	Meisei University	Japan	
APFIS-026	Fibers in Prefabrication of Outerwall Unit	G.J. Einarsson E.R. Thorhallsson [#]	Reykjavik University	Iceland	
APFIS-027	Braided Reinforced FRP Rods	Cristiana Gonilho Pereira [#] Raul Figueiro Said Jalali Mário de Araújo Paula Pina Marques	University of Minho	Portugal	
APFIS-028	Concrete and Masonry Elements Reinforced with Newly Developed FRP Reinforcement	David Horak [#] Pavel Krupa Martin Zlamal Petr Stepanek	Brno University of Technology	Czech Republic	
APFIS-029	Thermoplastic Composite Structural Insulated Panels (CSIPs) for Building Construction	Nasim Uddin [#] Amol Vaidya Uday Vaidya	University of Alabama at Birmingham	USA	Bond
APFIS-030	Deflection of Concrete Beams Reinforced with Micro-Fibers	Sameer Hamoush [#] Taher Abu-Lebdeh	North Carolina A&T State University	USA	
APFIS-031	FRP Application to Remedy As-Built Construction Defects	Dilip Choudhuri [#]	Walter P Moore	USA	
APFIS-032	Replacement of RC Bridge Deck with GFRP Deck – Effect on Superstructure Stresses	Kent A. Harries [#] Jonathan Moses	University of Pittsburgh	USA	Bridge
APFIS-033	FRP-Stabilized Steel Compression Members	Kent A. Harries [#] Elizabeth Abraham	University of Pittsburgh	USA	Metal

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APFIS-034	Moment Capacity of Steel-Concrete Composite Beams Strengthened with a Prestressed CFRP Plate	Jun Deng [#] Pei-yan Huang	South China University of Technology	China	
APFIS-035	Study on Prestress Lose of RC Beams Strengthened with Prestressed Carbon Fiber Laminate	Xinyan Guo [#] Peiyan Huang	South China University of Technology	China	
APFIS-036	Fatigue Damage Model for RC Beams Strengthened with Carbon Fiber Laminate under Bending Loads	Xuping Zhou Peiyan Huang [#] Pengzhi Niu	South China University of Technology	China	
APFIS-037	Experimental Study on Flexural Fatigue Behavior of Damaged RC Beams Strengthened with Carbon Fibre Laminate	Qiang Hang Peiyan Huang [#]	South China University of Technology	China	
APFIS-038	Shear Deformable Characterisation and Shear Strength of New Hybrid Composite Girders	Hitoshi Nakamura [#] Ken-ichi Maeda Hiroshi Mutsuyoshi Kenji Suzukawa	Tokyo Metropolitan University	Japan	
APFIS-039	Development of Pedestrian Slab Bridge using GFRP Pultrusion Profiles	Xian Cui Ken-ichi Maeda Hitoshi Nakamura [#] Nobuhiko Kitayama Tetsuya Watanabe	Tokyo Metropolitan University	Japan	
APFIS-040	Repair of Fatigue Cracks at Welded Web Gusset Joint using CFRP Strips	Wei Jiang Hitoshi Nakamura [#] Hiroyuki Suzuki Ken-ichi Maeda Takao Irube	Tokyo Metropolitan University	Japan	Metal
APFIS-041	Fatigue Behavior of RC Beams Strengthened with Prestressed CFRP Plates	S.P. Shang M. Wang [#] H. Peng [#] Y.J. Jin	Hunan University	China	
APFIS-042	Radio Frequency Transparent Barriers for Airport Structures: The SAS Project	Domenico Asprone [#] Andrea Prota Renatto Parretti Antonio Nanni Francesco Dio Maio	University of Naples Federico II	Italy	
APFIS-043	Prediction of Load Carrying Capacity due to Intermediate Crack-Induced Debonding in FRP-Strengthened Flexural Members	Zhishen Wu Hemdan Said [#]	Ibaraki University	Japan	Bond
APFIS-044	Experimental Investigation of the Seismic Retrofit of RC Connections with FRP Reinforcements	S. Mehdizad Taleie [#] A. Golkari	Building and Housing Research Centre of Iran	Iran	
APFIS-045	Axially Stress-Strain Relation of Short Square Concrete Columns Wrapped with Fiber Reinforced Polymer Composites	S. Mehdizad Taleie [#] A. Golkari	Building and Housing Research Centre of Iran	Iran	
APFIS-046	State-of-the-Art on Application of Fiber Reinforced Polymers (FRP) to Strengthening Steel Components	Yang Yang [#] Zheng He	Northeastern University	China	
APFIS-047	Numerical Simulation on 3-D Fracture Behaviors of the FRP-Strengthened Concrete Structures	Zhe Zhang [#] Chun'an Tang Shanyong Wang Tao Xu Tianhui Ma	Northeastern University	China	

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APFIS-048	Optimum Design of FRP Tubular Poles using Partial Concrete Filling	Jeff Mitchell Yazan Qasrawi Amir Fam [#]	Queen's University	Canada	
APFIS-049	Strengthening of Flexural and Axial Steel Members using CFRP	Amr Shaat Amir Fam [#]	Queen's University	Canada	Metal
APFIS-050	Applications of FRP in Cladding Panels of Buildings	Tarek Sharaf Amir Fam [#]	Queen's University	Canada	
APFIS-051	Stress-Strain Model for FRP-Confined Concrete Rectangular Columns	Ouyang Yu Nengke Liu [#]	Shanghai University	China	
APFIS-052	Behaviour of FRP Wrapped Reinforced HSC Columns under Different Eccentricities	Muhammad NS Hadi [#]	Wollongong University	Australia	
APFIS-053	Predicting Shear Capacity of High Strength RC Beams Bonded with FRP and Parameter Study based on ANN	Hong-Nan Li Ying-Wu Zhou [#] Su-Yan Wang	Dalian University of Technology	China	
APFIS-054	Design Guideline and Procedure for Rehabilitation of Slab-column Connections using Externally Installed CFRP Stirrups	Widianto [#] Ying Tian Jaime Argudo Oguzhan Bayrak James O. Jirsa	Bechtel Corporation	USA	
APFIS-055	New Technique for Improving Punching Shear Strength of RC Flat Plates using Vertical CFRP Dowels	Hakan Erdogan [#] Güney Özcebe Baris Binici	Koçali University	Turkey	
APFIS-056	Nonlinear Fatigue Damage Analysis of RC Beams Strengthened with Carbon Fiber Laminate under Cyclic Load	Chen Zhao [#] Peiyan Huang	South China University of Technology	China	
APFIS-057	Analysis of Local Bond Stress versus Slip Response in the Bond-Type Anchorages	Tian-Yong Jiang [#] Zhi Fang	Hunan University	China	
APFIS-058	Innovative Technique of Strengthening RC Structures by Unbonded Carbon Fiber Sheets	Chao-yang Zhou [#] Xia Li Peng Fan	Central South University	China	
APFIS-059	Experimental Research into Real-Size RC Beams Strengthened with Externally Bonded CFRP Laminates	Chao-yang Zhou [#] Yi-hui Li Xue-jun He	Central South University	China	
APFIS-060	Experimental Study on Concrete Beams Strengthened by Bonded/Unbonded Prestressed CFRP Laminate	Xing-guo Wang Chao-yang Zhou [#]	Central South University	China	
APFIS-061	Analytical Model for the Corner Radius Effect on CFRP-Confined Concrete Columns	Leiming Wang Yu-Fei Wu [#]	City University	Hong Kong	
APFIS-062	To Design and Experimental Verification of Actual Behaviour of Selected All-FRP Structural Components for Civil Engineering	Jindrich J. Melcher [#] Marcela Karmazinová	Brno University of Technology	Czech Republic	
APFIS-063	CFRP Strengthening of Splice Deficiency	Hakim Bouadi Eric Green [#]	Walter P Moire Engineers and Consultants	USA	Bond
APFIS-064	Strength of FRP Reinforced Rail and Bridge Deck Connections and Implications in Structural Design	Fabio Matta [#] Antonio Nanni	University of Missouri-Rolla	USA	
APFIS-065	New ELACO Technology for Creating Low-Cost, High Impact Resistant Fibre Metal Laminates	Dean Djordjevic [#]	Elaco	Australia	Metal

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APFIS-066	Retrofitting Reinforced Concrete Beams Using Mechanically Anchored FRP Sheets	Govinda Raj Pandey [#] Hiroshi Mutsuyoshi	James Cook University	Australia	
APFIS-067	Flexural Response of Fiber Reinforced Plastic Decks using Higher-Order Shear Deformable Plate Theory	Young Bin Kim Jae Hong Lee [#]	Sejong University	Korea	Bridge Decks
APFIS-068	Durability Study of FRP and Concrete Structures Externally Bonded with FRP Composite Sheets	Lingling Zhang Ling Zhang Jianxun Ma [#]	Jiaotong University	China	
APFIS-069	On the Effect of Initial Strain on Resistance Moment of RC Beams Flexural Strengthened with FRP	Jianxun Ma [#] Ken Neale Peng Wang	Jiaotong University	China	
APFIS-070	Compression Yielding of SIFCON Block for FRP-Reinforced Concrete Beam	Kang Liu Yu-Fei Wu [#]	City University	Hong Kong	
APFIS-071	Experimental Study on Pre-Compacted Concrete Restrained by CFRP	Lixia Liu [#] Zhiqiang Cao Yu Hua		China	Bond
APFIS-072	Seismic Upgrading of Existing RC Ordinary Moment Resisting Frames using FRPs	Seyed S. Mahini [#] Hamid R. Ronagh	Yazd University	Iran	
APFIS-073	An Improved Pull-out Test for Bond of CFRP Plate Strips Near-Surface Mounted in Concrete	Chao-Yang Zhou [#] Xue-Jun He	Central South University	China	
APFIS-074	Experimental Tests on Precast PC Beams Reinforced with GFRP Rods	Marco Arduini [#] Giuseppe Vago Antonio Corba Marco Reggiani	Co-Force	Italy	Bond
APFIS-075	Experimental Evaluation of FRP Deck Panels at Cold Temperatures	Curtis Nordin Hyo Seon Ji Z. John Ma [#]	University of Tennessee	USA	Bridge
APFIS-076	Stress Analysis of Composite Material Embedded with Optical Fiber Sensor Subjected to In-Plane and Anti-Plane Shear	Shiuh-Chuan Her [#] Bo-Ren Yao	Yuan-Ze University	Taiwan	
APFIS-077	Theoretical Model for FRP-Confined Hollow Circular Concrete Columns under Axial Compression	G.P. Lignola [#] A. Prota G. Manfredi	University of Naples Federico II	Italy	
APFIS-078	Local CFRP Reinforcement Anchorage System for External CFRP Strengthening	F. Colomb E. Ferrier [#] A. Si-Larbi P. Hamelin	Université Lyon	France	
APFIS-079	Time-Temperature of Concrete to CFRP Lap Joint	E. Ferrier [#] P. Hamelin	Université Lyon	France	
APFIS-080	Steel Square Hollow Section Stub Columns Strengthened using CFRP	M.R. Bambach [#] M. Elchalakani	Monash University	Australia	Metal
APFIS-081	CFRP Strengthening of Steel Tubular Beams Subjected to Blast Loads	H. Jama [#] M.R. Bambach X.L. Zhao R. Grzebieta	Monash University	Australia	Metal

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Paper ID	Paper Title	Authors (# = Corresponding Author)	Affiliation of Corresponding Author	Country	Working Group
APFIS-082	Experimental Analysis of Ultimate Limit State of Flexural Strengthening of Concrete Beam Without Internal Steel Reinforcement	Antonio Pantuso [#]	University IUAV of Venice	Italy	Bond
APFIS-083	Influence of Local Imperfections on Interface Performance of RC Beams Strengthened with Hybrid Fiber Sheets	Li-Juan Li [#] Yong-Chang Guo Feng Liu	Guangdong University of Technology	China	
APFIS-084	Experimental Research on RC Beams Shear Strengthened With NSM FRP Strips	J. Yao [#] J.G. Teng Q.F. Jia F. Fan	Zhejiang University	China	
APFIS-085	Influence of the Concrete Mechanical Properties on the Efficiency of the Shear Strengthening Intervention on RC Beams by NSM Technique	V. Bianco J.A.O. Barros G. Monti [#]	University of Roma "La Sapienza"	Italy	Bond
APFIS-086	Design Equations for FRP-strengthened RC Rectangular Columns with Lateral Confinement under Combined Biaxial Bending and Axial Load	S. Alessandri [#] K. Megalooikonomou G. Monti N. Nisticò	University of Roma "La Sapienza"	Italy	
APFIS-087	Experimental Research on Bond Behaviour of Mortar Grouted GFRP Rock Bolt	Xin Jia [#] Yong Yuan C.F. Lee	Tongji University	China	Bond
APFIS-088	Displacement Induced and IC Debonding in One-way Beam Tests	C.R. Willis [#] R. Seracino C. Wu M.C. Griffith	The University of Adelaide	Australia	
APFIS-089	Bond Behaviour and Modelling of Fiber Reinforced Polymer Bars to Concrete under Direct Pullout	Hai-xia Zhang [#] Lijie	Shenyang Jianzhu University	China	
APFIS-090	Long-term Behaviour of a FRP-strengthened Structure – the Case of the Sainte-Émélie de l'Énergie Bridge	P. Labossière [#] K.W. Neale P. Rochette M. Demers M. Savard C. Desgagné	Université de Sherbrooke	Canada	
APFIS-091	Numerical Simulation of Debonding Failure of Reinforced Concrete Beams Strengthened with Externally Bonded FRP	Khalid Farah [#]	Hokkaido University	Japan	
APFIS-092	Principles of a Design Method for RC Columns Reinforced by CFRP	Kristian Verok Marc Quiertant Jean-Luc Clément [#]	French Public Works Research Laboratory (LCPC)	France	
APFIS-093	Experimental Study and Calculation of Fire Endurance of FRP-Strengthened Concrete Beams	Wanyang Guo [#] Kexu Hu	Tongji University	China	
APFIS-094	Upgrading of Steel Beams using Composite Materials	Dag Linghoff [#] Mohammad Al-Emrani Robert Kliger	Chalmers University of Technology	Sweden	Metal

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APFIS-095	Using Prestressed CFRP Laminates for Strengthening Steel Structures	Reza Haghani [#] Mohammad Al-Emrani Robert Kliger	Chalmers University of Technology	Sweden	Metal
APFIS-096	Strengthening Glulam Beams with Steel and Composite Plates	Mohammad Al-Emrani [#] Marie Johansson Robert Kliger Roberto Crocetti	Chalmers University of Technology	Sweden	
APFIS-097	Strain and Capacity of RC Beams Strengthened in Shear with NSM FRP Reinforcement	Renata Kotynia [#]	Technical University of Lodz	Poland	Bond
APFIS-098	Non Linear Behaviour of Masonry Arches reinforced by FRP. A Numerical Approach	M. Paradiso [#] G. Tempesta S. Galassi	University of Florence	Italy	
APFIS-099	FE Analysis of CFRP Bonded Steel Plates under High Amplitude Cyclic Loading	T. Bai R. Al-Mahaidi [#] X.L. Zhao	Monash University	Australia	Metal
APFIS-100	Experimental Investigation of Web Crippling in CFRP Strengthened Steel Sections Subjected to Bearing Forces	X.L. Zhao [#] R. Al-Mahaidi J.G. Teng	Monash University	Australia	Metal
APFIS-101	Fracture Mechanics Analysis of Cracked Steel Plate Repaired by Composite Materials	Hongbo Liu Zhigang Xiao X.L. Zhao [#] R. Al-Mahaidi	Monash University	Australia	Metal
APFIS-102	Effect of Loading Configurations on the Structural Behavior of FRP Strengthened Concrete Beams	Jinlong Pan [#] Trevor Chung Christopher K.Y. Leung	Southeast University	China	
APFIS-103	A Study of Epoxy/Nanomaterials as Adhesives for Retrofitting Structures with CFRP	Luming Shen [#] X.L. Zhao	Monash University	Australia	Metal
APFIS-104	Effectiveness of Carbon Fiber-Reinforced Polymer Sheets in Improving Load Carrying Capacity of Concrete	Imran A. Bukhari [#] Saeed Ahmad	University of Engineering and Technology	Pakistan	
APFIS-106	Sand Particle Erosion Behaviour of GF Reinforced PEEK Composites	Alok Satapathy [#]	National Institute of Technology	India	
APFIS-107	A GFRP Bridge Deck Intermediate Between Modular Type and Sandwich Type	Goangseup Zi [#] Byeong Min Kim Yoon Koog Hwang Young Ho Lee	Korea University	Korea	Bridge
APFIS-108	Bond and Splice Behavior of a CFRP Strengthening System for Steel Structures	Mina Dawood [#] Murthy Guddati Sami Rizkalla	North Carolina State University	USA	Metal
APFIS-109	Design Criteria and Numerical Analysis for FRP Strengthened Tuff Masonry Panels	Giancarlo Marcari Giovanni Fabbrocino [#] Adrea Prota Gaetano Manfredi	University of Molise-Teroli	Italy	
APFIS-110	Non-linear Modeling of In-plane Behavior of Tuff Masonry Strengthened with Cementitious Matrix-grid Composites	G.P. Lignola [#] A. Prota G. Manfredi	University of Naples Federico II	Italy	

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APFIS-111	Experimental Research of Concrete Beams and Masonry Walls Reinforced with GFRP Wires	Z. Soric [#] T. Kisicek J. Galic	University of Zagreb	Croatia	
APFIS-112	Strengthening of Wooden Beams with FRP Materials	Cristina Bernardini [#] Lino Credali Giuseppe Pistone	Turin Politecnico	Italy	
APFIS-113	Flexural Behavior of Hybrid FRP Composite Girder with Concrete Deck	Allan Capilar Manalo [#] Hiroschi Mutsuyoshi Thiru Aranvithan Shingo Asamoto Kenji Suzukawa	Saitama University	Japan	
APFIS-114	On the Bending of GFRP Reinforced Glass Element	E. Speranzini [#] P. Neri	University of Perugia	Italy	
APFIS-115	Methods and Design Equations for Pretension of Externally Bonded FRP Sheets for Flexural Reinforcement of RC Beams	Gorgio Monti [#] Marc' Antonio Liotta	University of Rome "La Sapienza"	Italy	
APFIS-116	Strengthening of Structures by Bi-directional Carbon Fibres Fabric Composite (TFC)	Tommy Wong [#]	Freyssinet	Hong Kong	
APFIS-117	On the use of the EC3 and AISI Specifications to Estimate the Ultimate Capacity of FRP-Strengthened Cold-Formed Steel Columns	Nuno Silvestre Dinar Camotim [#] Ben Young	Technical University of Lisbon	Portugal	Metal
APFIS-118	Design of Concrete Bridge Deck Slabs using Different Types and Diameters of GFRP Bars	Sherif El-Gamal [#] Brahim Benmokrane	Université de Sherbrooke	Canada	
APFIS-119	On the Application of Cohesive Zone Modelling in FRP Strengthened Timber Structures	K.U. Schober [#] K. Rautenstrauch	Bauhaus-University of Weimar	Germany	Bond
APFIS-120	Behaviour of Sandwich Columns Under Edgewise Compression Loading	T. Omar [#] T. Aravinthan G. Van Erp	University of Southern Queensland	Australia	
APFIS-121	Innovative All Composite Multi-Pultrusion Truss Systems	T. Omar [#] G. Van Erp T. Aravinthan P. Key	University of Southern Queensland	Australia	
APFIS-122	Strengthening of a RC Bridge (2nd decade of XX century) for Weight Loads with FRP (Unidirectional Carbon Fibres).	Giuseppe Pistone [#]	Turin Politecnico	Italy	
APFIS-123	Moisture Concentration Effect on the Reliability of a Graphite/Epoxy Plates under Variable Climatic Conditions	B. Boucham [#] A. Chateauneuf E.A. Adda Bedia	University Djillali Liabes of Sidi Bel Abbès	Algéria	
APFIS-124	Debonding Failure Mechanism in RC Beam Strengthening with CFRP	Hamid Varastephour [#] Patrice Hamelin	WPHTI	Iran	
APFIS-125	Investigation of Peel Stresses in Adhesively Bonded GFRP Joints	H.K. Lee [#] S.H. Pyo B.R. Kim	Korea Advanced Institute of Science and Technology	Korea	Bond

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APFIS-126	Structural Strengthening and Extending Concrete Structure Service Life using FRP and Corrosion Inhibiting Technologies – A Case Study	K.Y. Lo T.H. Yeung Jinsong Wang [#] Gary Lee S.H. Giam	FYFE (Hong Kong) Limited	Hong Kong	
APFIS-127	Pseudo-Ductility of CFRP Strengthened Concrete Beam: A Pilot Beam Test	H.Y. Leung [#]	Unitec	New Zealand	
APFIS-128	Analytical Study of FRP-Concrete Bond Behaviour in Moist Environment	Zhenyu Ouyang Baolin Wan [#]	Marquette University	USA	Bond
APFIS-129	Effect of Epoxy Repairing on RC Beam Shear Strengthened with Side Bonded CFRP Sheet Strips	Feras Alzoubi [#] ZhangLiang Li	Chongqing University	China	
APFIS-130	Tension-Stiffening Model for FRP Strengthened RC Members	Jianguo Dai [#] Tamon Ueda Yasuhiko Sato Hiroschi Yokota	Port and Airport Research Institute	Japan	Bond
APFIS-131	New Hybrid Bonding System for the Optimized Performance of FRP Strengthened Concrete Beams	Jianguo Dai [#] Mitsuyasu Iwanami Hiroschi Yokota Akihiro Tateishi	Port and Airport Research Institute	Japan	Bond
APFIS-132	Improved Bond Stress versus Slip Model for Externally Bonded FRP for Standardized Bond Strength Tests	S.J. Foster M.K.Y. Loo [#] S.T. Smith	The University of New South Wales	Australia	Bond
APFIS-133	Cyclic Compression Tests on FRP Composite Jacketed Reinforced Concrete Columns	Alper Ilki [#] Enre Karamuk Onder Peker Nahit Kumbasar	Istanbul Technical University	Turkey	
APFIS-134	Numerical Modelling of Delamination in Woven Composites	M.R. Khoshhravan [#] F. Azimpoor	University of Tabriz	Iran	
APFIS-135	Quantifying Defects and Progression of Damage in FRP Rehabilitation of Concrete through IR Thermography	Ali Shirazi Vistasp M. Karbhari [#]	University of California San Diego	USA	
APFIS-136	Durability of FRP Strengthening Systems	Patrick Wilcox Quan Yang Guijin Xian Vistasp M. Karbhari [#]	University of California San Diego	USA	
APFIS-137	Effect of CFRP Reinforcement on CHS Beams in Pure Bending	J. Haedir [#] M.R. Bambach X.L. Zhao R.H. Grzebieta	Monash University	Australia	Metal
APFIS-138	Monitoring During Strengthening of an Industrial Cylindrical Shell Damaged by a Collision	Wine Figeys [#] David Dooms Luc Schueremans Dionys Van Gemert	Katholieke Universiteit	Belgium	

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APFIS-139	Development of Design Rules for the Iron Columns Reinforced by FRP	L. Ly [#] J. Rondal J.P. Jaspard	University of Liege	Belgium	
APFIS-140	Improving the Capacity of NSM Plates through Embedment	Matthew Haskett Deric Oehlers [#]	The University of Adelaide	Australia	Bond
APFIS-141	FRP Confined R/C/ Members: Analytical Modelling vs Experimental Results	C. Faella A. Napoli R. Realfonzo [#]	University of Salerno	Italy	
APFIS-142	Strengthening of a RC Railway Bridge with NSMR Loaded to Failure	Bjorn Täljsten [#] Markus Bergström	Technical University of Denmark	Denmark	Bond
APFIS-143	Influence of Matrix Ductility on Bonding and Strengthening Behavior of Mineral Based Composites (MBC)	Gregor Fischer [#] Bjorn Täljsten	Technical University of Denmark	Denmark	Bond
APFIS-144	Application Properties of Hybrid CFRP Reinforcing Rods for Self Diagnosing of Concrete Fracture	Seok-Kyun Park [#]	University of Daejeon	Korea	
APFIS-145	Test and FEA Analysis of Debonding Failure of RC Beam Strengthened with CFRP	Cuishiqi Wangjinshan [#]	Structure Institute of Shandong Province Academy of Buildings	China	
APFIS-146	Fiber Reinforced Polymer Repair of Beam-Columns Connections: Parametric Finite Element Analysis	Athanasios I. Karabinis Theodoros C. Rousakis [#] Georgia E. Manolitsi	DUTH	Greece	
APFIS-147	Strengthening of RC Beams in Shear Using GFRP Inclined Strips – An Experimental Study	M.C. Sundararaja [#] S. Rajamohan	Thiagarajar College of Engineering	India	
APFIS-148	Strengthening of RC Beams in Shear Using GFRP Vertical Strips – An Experimental Study	M.C. Sundararaja [#] S. Rajamohan	Thiagarajar College of Engineering	India	
APFIS-149	Mechanistic Studies on Flame Retardant Fibre Reinforced Polyester Formulation for Roofing Application	R. Vasanthakumari [#]	B S A Crescent Engineering College	India	
APFIS-150	Study on the Fabricating and Reshaping Process of a New Kind of F RTP Rebar	Chuan Wang [#] Jinping Ou	Harbin Institute of Technology	China	
APFIS-151	Behaviour of Bonding CFRP and SRP to Ultra-High Performance Concrete	Ayman Elmahdy Raafat El-Hacha [#] Nigel Shrive	University of Calgary	Canada	Bond
APFIS-152	Strengthening of Steel Structures using FRPs: State-of-the-Art	Nora Ragab Mohamad Aly Raafat El-Hacha [#]	University of Calgary	Canada	Metal
APFIS-153	Strengthening Masonry Structures using FRPs: State-of-the-Art	Meena Derias Jason Moroz Raafat El-Hacha [#]	University of Calgary	Canada	
APFIS-154	Natural Fiber Reinforced Polymer Composites: Macro to Nanoscale	Sabu Thomas [#]	Mahatma Gandhi University	India	
APFIS-155	Mechanical and Bonding Performances Study of Steel Cable-GFRP	Zhang zhichun [#] Ou jinpings	Harbin Institute of Technology	China	
APFIS-156	Behavioural Model of FRP Strengthened Concrete Beams under Torsion	Constantin E. Chalioris [#]	Democritus University of Thrace	Greece	
APFIS-157	Design and Experimental Investigation of Energy Dissipating FRP Box Infill System	Wooyoung Jung [#] Amjad J. Aref	Kangnung National University	Korea	

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Paper ID	Paper Title	Authors (# = Corresponding Author)	Affiliation of Corresponding Author	Country	Working Group
APFIS-158	Nonlinear Characteristic of Mechanics Analysis of CFRP Cables	Zhang Jiandong [#] Fang Zhi	Western Second Rings Expressway Co. Ltd. of Guangzhou	China	
APFIS-159	Quantifying Strain Variation in FRP Confined Concrete using Digital Photogrammetry	Luke Bisby [#] Andy Take Alexander Caspary	Queen's University	Canada	
APFIS-160	Prefabricated FRP Reinforcement for Concrete Bridge Deck and Rail: Design, Laboratory Validation, and Field Implementation	Fabio Matta [#] Antonio Nanni Lawrence C. Bank	University of Missouri-Rolla	USA	
APFIS-161	Opening the Gate: Construction of 300 m Composite-Deck Bridge in Korea	Sung Woo Lee [#]	Kookmin University	Korea	Bridge
APFIS-162	Probabilistic Risk Assessment of FRP-Concrete Composite Deck Based on Experimental Results	Taejun Cho [#] Sung-Yong Park	Korea Rail Network Authority	Korea	Bridge
APFIS-163	Experimental Investigation on Axially Loaded Concrete Cylinders Strengthened with FRP Strips under Freeze-Thaw Cycles	Gao Dan-ying Li Chen-chen [#] Zhao Guang-tian	Zhengzhou University	China	
APFIS-164	A Numerical Study on the Behavior of RC Knee Joints Strengthened using CFRP Laminates	M. Safari Gorji [#] K. Bargi	The University of Tehran	Iran	
APFIS-165	Effects of Column's Loading on the Behavior of Concrete Joints Reinforced with CFRP Laminates	M. Safari Gorji [#] K. Bargi	The University of Tehran	Iran	
APFIS-166	Geometric Non-Linear Analysis of Thin-Walled Composite Box Beams	Thuc Phuong Vo Jaehong Lee [#]	Sejong University	Korea	
APFIS-167	Seismic Retrofitting of Reinforced Concrete Columns using Carbon Fiber Reinforced Polymer (CFRP)	Okan Ozcan Baris Binici [#] Guney Ozcebe	Akdeniz University	Turkey	
APFIS-168	Experimental Study on Fatigue Behavior of Steel Girders Strengthened with CFRP Plates	Zheng Yun [#] LiepingYe QingruiYue	Tsinghua University	China	Metal
APFIS-169	Development and Testing of the New Light-Weight Bridge Deck FBD300 made of Glass-Fibre-Reinforced Polymers	Heiko Trumpf [#]	Werner Sobek Ingenieure International GmbH & Co	Germany	Bridge
APFIS-170	Finite Element Validation of a Lower-Bound Design Method for Optimising Buckling Capacities of FRP Shells	Hongtao Wang [#] James G A Croll [#]	University College London	UK	
APFIS-171	An Assessment of the Suitability of Wrought Iron for Strengthening using FRP Composites	Stuart Moy [#] Howard Clarke	University of Southampton	UK	
APFIS-172	Adhesive Cure under Cyclic Load	Stuart Moy [#]	University of Southampton	UK	
APFIS-173	Strengthening and Retrofitting Unreinforced Masonry Walls with Various FRPs Systems	Guilherme A. Parsekian Raafat El-Hacha [#] Nigel G. Shrive	University of Calgary	Canada	
APFIS-174	Flexural Behavior of Ultra High Performance Concrete Beams Prestressed with CFRP Tendons	Jian Yang [#] Zhi Fang [#]	Hunan University	China	
APFIS-175	Pilot Study on the Horizontal Shear Stiffness of Rectangular FRP Rubber Bearings	Tian-bo Peng [#] Jian-zhong Li Li-chu Fan	Tongji University	China	

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APFIS-176	Debonding Failure in FRP-Strengthened RC beams: a Model-Based Approach	Ciro Faella Enzo Martinelli Emidio Nigro [#]	University of Naples "Federico II"	Italy	Bond
APFIS-177	Direct Versus Indirect Identification of FRP-to-Concrete Interface Relationships	Ciro Faella Enzo Martinelli [#] Emidio Nigro	University of Salerno	Italy	Bond
APFIS-178	Shear Strength of FRP- and FRCM- Strengthened Masonry walls: the Role of Adhesion	Ciro Faella Enzo Martinelli [#] Emidio Nigro Sergio Paciello	University of Salerno	Italy	Bond
APFIS-179	Investigation of Failure Modes in Cut-off Zones of Beam Strengthened by Near Surface Mounted FRP	Van Hien Nguyen [#] Kypros Pilakoutas [#] Maurizio Guadagnini Van Nam Le	University of Sheffield	UK	Bond
APFIS-180	Novelty FRP Strengthening Systems Applied to Masonry Walls	José T. San José [#] David García Rosa San-Mateos Ignacio Marcos	LABEIN – Tecnia	Spain	
APFIS-181	Interlaminar Peeling in Concrete Beams Strengthened with CFRP Plates. Experimental Study	Piotr Rusinowski [#] Björn Täljsten	Technical University of Denmark	Denmark	Bond
APFIS-182	Square and Rectangular Concrete Columns Confined by C-FRP: Experimental and Numerical Investigation	G. Monti N. Nisticò [#] V. Lovo	Università La Sapienza	Italy	
APFIS-183	Assessment and Monitoring of Cable Stayed Bridges Example of Rion-Antirion Bridge and other Sophisticated Structures	E. Laurent A. Chaperon [#]	ADVITAM	France	
APFIS-184	Structural Assessment of Suspension Bridges Example of the Forth Road Bridge in the UK	E. Laurent G. Hovhanessian A. Chaperon [#]	ADVITAM	France	
APFIS-187	Shear Strength of Scaled FRP Reinforced Concrete Beams without Shear Reinforcement	Fabio Matta [#] Antonio Nanni Travis M. Hernandez	University of Missouri-Rolla	USA	
APFIS-188	Limit Analysis for Orthotropic Composite Laminates	A.A. Pisano [#] P. Fuschi	University Mediterranea of Reggio Calabria	Italy	
APFIS-189	Finite Element Analysis on the Large Scale Model of Mustafa Pasha Mosque in Skopje Strengthened with FRP	R. Landolfo [#] O. Mammana F. Portioli F.M. Mazzolani	University of Naples "Federico II"	Italy	
APFIS-190	Compressive Strength Models of FRP-Confined Concrete	Yousef A. Al-Salloum [#]	King Saud University	Saudi Arabia	
APFIS-191	Behaviour of FRP Strengthened Masonry Walls under Out-of-Plane Seismic loading	Yousef A. Al-Salloum [#]	King Saud University	Saudi Arabia	
APFIS-192	A New Ductility Index for Concrete Section Strengthened with Externally Bonded FRP	Zhong-guo Guan [#] Jian-zhong Li	Tongji University	China	

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APFIS-193	Sensitivity of Strength to Preexisting Strain for Concrete Section Strengthened with Externally Bonded FRP	Jian-zhong Li Zhong-guo Guan [#]	Tongji University	China	
APFIS-194	Experimental Study on FRP-High Strength Concrete Bond Slip Behaviour under Cyclic Loading	Jung Yoon Lee ChongKu Yi [#] YeonGeol Cheong MoonSeok Jang	Sungkyunkwan University	Korea	Bond
APFIS-195	The Stress Relaxation of Glass Fibre Composites with Low Velocity Impact	Tong Yuanjian [#] Xu Lianghua Li Changqing	Beijing University of Chemical Technology	China	
APFIS-196	Mechanical Performance of Curved FRP Rebars: Part I - Experimental Study	Thanongsak Imjai [#] Maurizio Guadagnini Kypros Pilakoutas	The University of Sheffield	UK	Bond
APFIS-197	Mechanical Performance of Curved FRP Rebars: Part II - Analytical Study	Thanongsak Imjai [#] Maurizio Guadagnini Kypros Pilakoutas	The University of Sheffield	UK	
APFIS-198	An Experimental Investigation on the Strengthening of RC Beam-Column Connections with FRP Composites	R. Shrestha S.T. Smith [#]	The University of Hong Kong	Hong Kong	
APFIS-199	Mechanical Pull-out Properties of FRP Anchors	S.J. Kim S.T. Smith [#] H.P. Vo	The University of Hong Kong	Hong Kong	Bond
APFIS-200	FRP Strengthened Metal Shells with Axisymmetric Imperfections	M. Batikha J.F. Chen [#] J.M. Rotter	University of Edinburgh	UK	Metal
APFIS-201	Experimental Bond Behaviour of FRP bars in Concrete	R.J. Gravina [#] S.T. Smith	RMIT University	Australia	Bond
APFIS-202	Three-Parameter Elastic Foundation Model of FRP-Concrete Adhesive Joint	Jialai Wang [#]	The University of Alabama	USA	
APFIS-203	Cohesive Zone Model of Flexural-Shear Crack Induced FRP-Concrete Interface Debonding	Jialai Wang [#]	The University of Alabama	USA	
APFIS-204	Strengthening of Structures with the CarboStress [®] System	F. Fischli R. Clémin A. De Silva [#] P. Chaemmangkang	VSL Structural Preservation Division	Singapore	
APFIS-205	Seismic Rehabilitation of Historical Masonry Vaults using FRPs – A Case Study	SS. Mahini [#] R. Ronagh A. Eslami	Yazd University	Iran	
APFIS-206	Bond Behaviour of FRP Reinforcing Bars Embedded in Normal Strength Concrete	Ehab A. Ahmed [#] Ehab El-Salakawy Brahim Benmokrane	University of Sherbrooke	Canada	Bond
APFIS-207	Pullout Strength of GFRP Post-Installed Adhesive Anchors	Ehab A. Ahmed [#] Ehab El-Salakawy Brahim Benmokrane	University of Sherbrooke	Canada	

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APFIS-208	The Impact Loading on Hemisphere Hybrid Composite Laminates and Optimization	Martin M Jin [#] Mel Richardson	University of Portsmouth	UK	
APFIS-209	Stress Modelling of Pipelines Strengthened with Advanced Composite Materials	H. Toutanji [#] J. Gilbert M. Han	University of Alabama	USA	
APFIS-210	Egyptian Code Verification for Concrete Beams Reinforced with FRP Bars	Ibrahim M. Metwally [#]	Building Research Centre	Egypt	
APFIS-211	Comparative Study on Seismic Performance of Rectangular Concrete Columns Strengthened with BFRP and CFRP Composites	Wu Gang [#] Wei Yang Wu Zhishen Jiang Jianbiao Hu xianqi	Southeast University	China	
APFIS-212	Comparative Study on Seismic Performance of Circular Concrete Columns Strengthened With BFRP and CFRP Composites	Wu Gang [#] Gu Dongsheng Wu Zhishen Jiang Jianbiao Hu xianqi	Southeast University	China	
APFIS-213	A Three-Parameter Bond Strength Model for FRP-Concrete Interface	S. M. Shahidul Islam [#] Zhishen Wu	Ibaraki University	Japan	Bond
APFIS-214	Numerical Analysis of Interface Stresses of RC Beams Strengthened with Hybrid CFS-GFS	Guo Yong-chang [#] Huang Pei-yan Li Li-juan Deng Jun	Guangdong University of Technology	China	
APFIS-215	Applying of Composite Materials in Bridge Construction in Moscow Magapolis	A. Ushakov V. Ekimov A. Kuvshinov A. Pankoz (T. Bulanova [#] - not an author)	ApATeCh	Russia	
APFIS-216	Application and Practice of GFRP Bars in the TBM Launch Shaft of Metro in China	Li Ming [#] Cao Yang Tang Huigong	Oceanpower Industrial Co. Ltd.	China	
APFIS-217	Intermediate Debonding of FRP Strengthened Beams	Claudio Mazzotti [#] Marco Savoia	University of Bologna	Italy	
APFIS-218	FRP-Concrete Bond Behaviour under Cyclic Delamination Force	Claudio Mazzotti Marco Savoia [#]	University of Bologna	Italy	
APFIS-219	Flexural Bonding Characteristics of Newly-Developed GFRP Rebar	Hongseob OH Jongsung SIM Minkwan JU Taesung KANG	Hanyang University	Korea	

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APFIS-220	Analytical and Finite Element Study of Cracking and Interfacial Stress Distribution at the Cracked Zone in a retrofitted RC Beam	M.Z. Kabir [#] Ata Hojat	University of Technology, Tehran	Iran	
APFIS-221	The Application of Sprayed Fiber Reinforced Polymers to Timber	Sudip Talukdar [#]	University of British Columbia	Canada	Bond
APFIS-222	Reinstatement of the Flexural Fatigue Strength of Precast Concrete Link Slabs using CFRP	David Beneke [#]	Cardno Consulting Engineers	Australia	
APFIS-223	Development of an Innovative FRP-concrete Composite Deck	Byung-Suk Kim [#] Jeong-Rae Cho Sung Yong Park Keunhee Cho	Korea Institute of Construction Technology	Korea	
APFIS-224	Function-integrated GFRP Sandwich Roof Structure	Thomas Keller [#] Christoph Haas Till Vallée	Swiss Federal Institute of Technology	Switzerland	
APFIS-225	Dynamic Behaviour of an All-FRP Composite Pedestrian Bridge	Yu Bai Thomas Keller [#] Till Vallée	Swiss Federal Institute of Technology	Switzerland	
APFIS-226	Modeling of Thermo-physical Properties and Thermal Responses for FRP Composites in Fire	Yu Bai Thomas Keller [#] Till Vallée	Swiss Federal Institute of Technology	Switzerland	