

**BBFS 2005: KEYNOTE LECTURES**

<b>No.</b>	<b>TITLE</b>	<b>KEYNOTE SPEAKER</b>	<b>AFFILIATION</b>
BBFSK0001	Durability of FRP-to-Concrete Durability Bond	O. Buyukozturk	Massachusetts Institute of Technology, USA
BBFSK0002	Advances in Adhesive Joining of Dissimilar Materials with Special Reference to Steels and FRP Composites	L.C. Hollaway	Surrey University, UK
BBFSK0003	Implication of Bond Performance and its Prediction for Design	A. Nanni	University of Missouri-Rolla, USA
BBFSK0005	Debonding Failures in Plated Beams	D.J. Oehlers	Adelaide University, Australia
BBFSK0006	Interfaces of Fiber Reinforced Polymers Laminates Externally Bonded to Concrete Substrate: Overview on Test Methods and Bond Modeling	T. Ueda	Hokkaido University, Japan
BBFSK0007	Design against Debonding in the Chinese Code for Strengthening RC Structure with Externally Bonded FRP Sheets	L.P. Ye	Tsinghua University, China
BBFSK0008	Modelling of Debonding Phenomena in FRP-Strengthened Beams and Slabs	K. W. Neale	Université de Sherbrooke

**BBFS 2005: ACCEPTED ABSTRACT SUBMISSIONS**

<b>No.</b>	<b>TITLE</b>	<b>AUTHORS</b>
BBFS0001	An Evaluation Model for the True Bond Strength between Concrete Element and Patched Plate	Chung-Yue Wang Shue-Ming Chern Wei-Chie Hwang
BBFS0002	Experimental Study on Bond Stress-Slip Behaviour Between GFRP Sheets and Concrete	Guo Zhanggen Cao Shuangyin
BBFS0003	Bonding Performance of Mineral Based CFRP Strengthened Concrete Structures	Thomas Johansson Bjorn Taljsten
BBFS0004	An Improved Solution of Interfacial Stresses of FRP Bonded Beams	W.F. Wu J. Yang
BBFS0005	Cyclic Bond Tests on Concrete and Masonry Blocks Externally Bonded with CFRP	F. Ceroni M. Pecce
BBFS0006	Modelling of Debonding Phenomena in FRP-Strengthened Concrete Beams and Slabs	K.W. Neale U.A. Ebead H.M. Abdel Baky W. Abdel Raouf A. Godat
BBFS0007	Simplified Analytical Model to Predict the Intermediate Crack-induced Debonding Failure in FRP-strengthened RC Beams	Hedong Niu Zhishen Wu
BBFS0008	Analytical Modeling of Bond between Near-surface Mounted Carbon Fiber-reinforced Polymer Strips and Concrete	Yan Yang Zhou Jian Yao
BBFS0009	Interfacial Behaviour of FRP Plates Bonded to Steel Structures	S.H. Xia J.G. Teng
BBFS0010	Bond of International or External FRP Reinforcement under Evaluated Temperature	Eva Lubloy Gyorgy L Balazs Adorjan Borosnyoi
BBFS0011	FRP Debonding under the Presence of Multiple Cracks along the Concrete Beam	Jinlong Pan Christopher K.Y. Leung
BBFS0012	Tensile Tests on Bonded Double-Strap Joints Between Pultruded GFRP Profiles	Francesco Fassio Silvia Santini
BBFS0013	The Bond Behaviour of Metallic Beams Reinforced with a Composite Plate	Marcus M.K. Lee Jun Deng
BBFS0014	Bond Efficiency of Three Flexural FRP Composite Material Technologies Applied to RC Structures under Static and Fatigue Loads: Experimental Investigation	Anthony N. Ede Kent A. Harries Giovanni Pascale Shahram Sarkani
BBFS0015	Hybrid FRP Rod for Reinforcement and Smart-monitoring in Concrete Structures	Jongsung Sim Doyoung Moon Cheolwoo Park Sungjae Park
BBFS0016	Flexural Strengthening of RC Members Using FRP Sheets	Jianguo Dai Tamon Ueda Yasuhiko Sato
BBFS0017	Comparing of Prediction Method for Bond Strength between FRP Sheet and Concrete	Alam M.S Kanakubo T.
BBFS0018	Improved Theoretical Solutions of FRP-To-Concrete Interfaces	H. Yuan
BBFS0019	Minimum Bond Length and Instabilities Phenomena in FRP- Substrate Bonded Joints	Giuseppe Giambanco Alessia Cottone
BBFS0020	Bond of FRP Bars Embedded in Sprayed Polymer Mortar	O.C. Choi J.K. Seo Y.S. Park S.Y. Yang D.U. Choi
BBFS0021	Fiber Reinforced Cement Based Composite Sheets for Structural Retrofit	Hwai-Chung Wu Peijiang Sun

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BBFS0022	Bond Properties of a Newly Developed Composite Rebar	André Weber
BBFS0023	The Role of the Bond on the Structural Behaviour of Flexural FRP Reinforced Concrete Members	Luciano Ombres
BBFS0025	Composite Reinforcements with Inorganic Matrices for Masonry Structures	Eng. Alberto Viskovic Arch. Fabio Fumagali
BBFS0026	Use of Damage Mechanics to Determine the Bond Behaviour of Concrete Members Strengthened with FRP	Maria M. Lopez Carlos Coronado
BBFS0027	Bonding and Anchoring Characterization between FRP Sheets, Concrete, and Viscoelastic Layers under Static and Dynamic Loading	Xi Huang Genda Chen
BBFS0028	Effect of Concrete Composition on FRP/ Concrete Bond Capacity	Jinlong Pan Christopher K.Y. Leung
BBFS0030	FRP Retrofit of Buckled Masonry Walls under Gravity Loads and Soil Pressure	Yi Liu John Dawe
BBFS0031	Bond Behavior of CFRP Strengthened Steel Bridges and Structures	D. Schnerch K. Stanford S. Rizkalla E. Sumner
BBFS0032	Fatigue Behavior of Bonded FRP Used For Flexural Retrofit	Kent A. Harries
BBFS0033	Deterioration of FRP-to-Concrete Bond under Fatigue Loading	Kent A. Harries
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BBFS0035	Partial Interaction Modelling of the Vertical Shear Capacity of Transversely Plated Reinforced Concrete Members with Internal Steel Stirrups	Deric Oehlers Wade Lucas Rudolf Seracino Mohamed Ali
BBFS0036	Experience with Strengthening Structures Using the prestress FRP Materials	L. Podolak
BBFS0037	Durability Evaluation of CFRP Strengthened Concrete Beams	Nabil F. Grace
BBFS0038	The Effect of Fatigue Loading on the Bonding Strength between CFRP and Steel Plates	Hongbo Liu Xiao-Ling Zhao Riadh Al-Mahaidi
BBFS0039	Effect of Insulation on the Bond Behaviour of CFRP-Plated Concrete Elements	H.P. Gamage R. Al-Mahaidi M.B. Wong
BBFS0040	New applications of CFRP in Germany: Prestressing at Bridges and Wrapping Coolingtowers	Horst W.H. Peters Peter J. Gusia
BBFS0041	Fire Performance of Concrete Beams Reinforced with FRP Bars	Ali Nadjai Didier Talamona Faris Ali
BBFS0042	Performance of CFRP Strengthened Concrete Members under Elevated Temperatures	H.P. Gamage M.B. Wong R. Al-Mahaidi
BBFS0043	Progress on Understanding Bond Behaviour in RC Elements Strengthened with FRP	C. Pellegrino D. Tinazzi C. Modena
BBFS0044	Towards a Generic Model for Predicting the Intermediate Crack Debonding Resistance of Plates Adhesively Bonded to Concrete	R. Seracino D.J. Oehlers R.S.M. Rashid
BBFS0045	Investigation on the Stress Transfer in Concrete Beams Bonded with FRP Plates	Jianqiao Ye Jian Yang
BBFS0046	Simulation of Bond Failure in RC Beams Strengthened with FRP Sheets Subjected to Dynamic/ Impact Loadings	Soheil Mohammadi Amir Ardalan Mousavi Khandan

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BBFS0047	Investigation of Bond and Transfer in FRP Strengthened Concrete	Hedong Niu Vistasp M. Karbhari
BBFS0048	Effect of Shear Key and U Strip on Flexural Behavior of Reinforced Concrete Beams Strengthened by CFS (Carbon Fiber Sheet)	Hong-Shik Choi Chin-Yong Lee Seong-Tae Yi Si-Woo Lee Gweon Heo Ki-Nam Hong
BBFS0049	Equilibrium Debonding	Christoph Czaderski Mohammad Aram Masoud Motavalli
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BBFS0051	Prediction of Concrete Cover Separation Failure in CFRP Strengthened RC Beams	J.W. Pan S.Y. Cao
BBFS0052	Prediction of Intermediate Crack-induced Debonding Failure in CFRP Strengthened RC Beams	J.W. Pan S.Y. Cao
BBFS0053	Modelling of CFRP-Concrete Bond Using Smeared and Discrete Cracks	H.B. Pham R. AL-Mahaidi
BBFS0054	Analysis of the Durability of the Bond between Masonry and FRP Sheets	Maria Antonietta Aiello Stefania Margherita Sciolti
BBFS0055	Durability and Mechanical Properties of Polymer-Layered Silicate Nanocomposites	I Hackman L.C. Hollaway
BBFS0056	Flexural Behavior of RC Beams Reinforced with NSM AFRP Rods	N. Kishi H. Mikami Y. Kurihashi S. Sawada
BBFS0057	A Numerical Prediction Method for Flexural Behavior of RC Beams Reinforced with FRP Sheet	G.F. Zhang N. Kishi H. Mikami M. Komuro
BBFS0059	Effects of Lateral Anchorage Strips on FRP-Strengthened RC Beams	Lei Zhao Jose J. Perez Chris A. O'Riordan-Adjah
BBFS0060	Fracture Mechanics Approach to Nonlinear Debonding Problems in Reinforced Concrete Beams Strengthened with Composite Materials	Oded Rabinovitch Yeoshua Frostig
BBFS0061	Defect Criticality in Composite Strengthened Concrete Structures	V.M. Karbhari R. Navada
BBFS0062	Effect of Concrete and Bond Layer Properties on the Bond Strength of Surface Mounted FRP Reinforcement	Kim Sung Jung So Mi-Geum Tom Harmon
BBFS0063	A New Approach of Anchorage Bond For Prestressing Tendons and Cables	Hans-Peter ANDRAE Markus MAIER
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BBFS0067	Experimental Investigations on Flexural Strengthening of Timber Structures with CFRP	Schober, K.U. Rautenstrauch, K.
BBFS0068	Durability of Steel Members Strengthened by CFRP Strips under Mechanical and Environmental Loadings	P. Colombi G. Fava C. Poggi
BBFS0069	Durability Evaluation of EBR CFRP Strengthened Masonry Structures	P. Desiderio L. Feo

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BBFS0070	A Flexural Strengthening Method with FRP Bars Embedded in Sprayed Polymer Mortar	O.C. Choi J.K. Seo Y.S. Park K.H. Hong D.U. Choi
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BBFS0075	Bond Behaviour of CFRP Strips to Spruce Timber	Valluzzi M.R. Garbin E. Modena C.
BBFS0076	Bond Behaviour of CFRP and GFRP Strips to Masonry Clay Bricks	Garbin E. Valluzzi M.R. Modena C.
BBFS0077	Determination of Bond Stress Versus Slip for Externally Bonded FRP for Standardized Bond Strength Tests	Stephen J. Foster Nantawat Khomwan Scott T. Smith
BBFS0078	FE Modeling of Bond in FRP-Strengthened RC Shear Walls Subjected to Reverse Cycling Loading	Nantawat Khomwan Stephen J. Foster
BBFS0079	Intermediate and End-Anchorage Debonding in FRP Strengthened RC Beams: A Theoretical Model	C. Faella E. Martinelli E. Nigro
BBFS0080	Durability of Steel Members Strengthened by CFRP Strips under Mechanical and Environmental Loadings	P. Colombi G. Fava C. Poggi
BBFS0081	Bond of FRP Laminates to Curved Masonry Substrates in Presence of Anchor Spikes	Maria Antonietta Aiello Laura De Lorenzis Luisella Castelluzzo
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BBFS0083	Debonding Failure Mechanism in RC Beam Strengthening with CFRP	Hamid Varastehpour Patrice Hamelin
BBFS0084	Interfacial Stress Analysis of Steel Beams Bonded with an FRP Plate	L. Zhang J.G. Teng
BBFS0085	Effect of Adhesive Bonding on the Behavior of FRP-Confined Concrete	T. Jiang J.G. Teng
BBFS0086	Effect of Steel Shear Reinforcement on the Plate End Debonding Failure Load	J.G. Teng G.M. Chen Z.W. Qin
BBFS0087	FRP-to-Concrete Interfaces in Pull Tests: Behaviour, Modelling and Standardization	J.F. Chen J.G. Teng
BBFS0088	Debonding Failures in FRP-Strengthened RC Beams: Classification, Behaviour, Prediction and Prevention	J.G. Teng J.F. Chen
BBFS0089	The Bond Performance of Deformed GFRP Rebar Containing Milled Fibers Under Harsh Environmental Loads	Jongsung Sim Doyoung Moon Hongseob Oh

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BBFS0090	Research on Improved Performance of Glue used for CFRP Strengthening under Normal Temperature	Ji Wenyu Wang Kun He Kui
BBFS0091	Research on Improved Performance of Glue used for CFRP Strengthening under Low Temperature	An Mingzhe Wang Kun He Kui
BBFS0092	Dynamic Behaviour of Externally Bonded CFRP: Application to Reinforced Concrete Column Externally Reinforced under Impact Loading	E. Ferrier P. Hamelin
BBFS0093	Fatigue Behaviour of Externally Bonded CFRP: Application to Seismic Behaviour of RC Beams Reinforced	F. Collomb E. Ferrier P. Hamelin
BBFS0094	FE Modeling for Debonding of FRP Laminates in Strengthened RC Connections	Davood Mostofinejad S. B. TalaeiTaba M. R. Eftekhar F. Farahbod
BBFS0095	Bond Defects: Design for Defects and Checking whether They Exist	T. J. Stratford A. Giannopoulos
BBFS0096	Effect of Tapering on Thermal Stresses in FRP Strengthened Metallic Beams	T. J. Stratford J.F. Chen C. Gouglas M. Clarke
BBFS0097	A Probabilistic Method to Predict the Strength of Adhesively Bonded Joints of GFRP	T. Vallée J. Correia T. Keller
BBFS0098	Durability of Bond between CFRP and Concrete Substrate under Severe Environmental Conditions	Sunyoung Chang Yunping Xi
BBFS0099	Debonding Failures of RC Beams Strengthened with Externally Bonded Strips	Renata Kotynia
BBFS0100	Serviceability and Limit States of Concrete Beams Strengthened with Near-surface CFRP Strips	Renata Kotynia
BBFS0101	Bond Performance of Steel Reinforced Polymer and Steel Reinforced Grout	M. Matana A. Nanni L. Dharani P. Silva G. Tunis
BBFS0102	Concrete Substrate Preparation and Characterization Prior to Adhesion of Externally Bonded Reinforcement	M. Matana A. Nanni G. Galecki N. Maerz
BBFS0103	Development Length Evaluation of Reinforced Concrete Beam with CFRP Bars	Rendy Thamrin Tetsuzo Kaku
BBFS0104	Influence of Anchor Cylinder Deformability on Load Capacity of Adhesive Cylindrical Anchorage	Sylwester Kobiela Z. Malczewski
BBFS0105	Long-term Behaviour of CFRP Laminates Bonded to Non-rehological Material Members: An Experimental Analysis	Francesco Ascione Luciano Feo Geminiano Mancusi
BBFS0106	Experimental Behaviour of FRP Bonded to RC Structures Subject to Flexure	Luigi Ascione Luciano Feo
BBFS0107	Interface Analysis between FRP EBR Reinforcement and Concrete	Maria Antonietta Aiello Marianovella Leone
BBFS0108	Long Term Properties of Bond Between Concrete and FRP	Claudio Mazzotti Marco Savoia
BBFS0109	A Bond-Slip Model for Tension Stiffening Effect of FRP-Strengthened Structures	Barbara Ferracuti Marco Savoia
BBFS0110	Experimental Research on Bond Behavior of CFRP to Steel	Yang Yong-xin Yue Qing-ru Peng Fu-ming

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BBFS0112	Bonding Strength and Fracture Mechanisms in Composite Steel-CFR Elements	Robert Kliger

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