The Third Asia-Pacific Conference on FRP in Structures

APFIS 2012

Final Program

Hokkaido University, Sapporo, Japan
2-4 February 2012

The Official Regional Conference of the International Institute for FRP in Construction (IIFC) for the Asia-Pacific Region

Organized by

Japan Concrete Institute

In collaboration of

Hokkaido University
Japan Society of Civil Engineers
Japan Society for Composite Materials
Welcome to APFIS2012 in Sapporo

APFIS2012 is the third IIFC Asia-Pacific regional conference on the research and application of fiber reinforced polymers (FRP) in civil and architectural engineering structures to be held in Sapporo, Japan from 2 to 4 February 2012. APFIS2012 aims to continue the success of the preceding conferences held in Hong Kong, China in 2007, and Seoul, Korea in 2009 with expecting participation from the Asia-Pacific region and various parts of the world.

APFIS2012 includes 6 keynote and 66 general papers as well as 11 posters. The first authors of 42 papers are from Asia, while 12 papers each are from Oceania and North America and 6 papers from Europe with the biggest contribution, 22 papers from the host country, Japan. Presentations are made either in the technical session or in the poster session. Some of the poster presentations do not have full papers in the proceedings. Topics of the papers cover issues covering strengths (material, anchorage and member), bond, confinement and durability. Structural types dealt with in the papers are not only concrete but also steel and FRP. Hybrid structures and materials using FRP are also the major interests in the papers.

APFIS2012 will be held at Conference Hall, Hokkaido University. Hokkaido University started out in 1876 as Sapporo Agricultural College, the first modern academic institute in Japan. Since the Japanese government’s purpose of setting up SAC was to develop Hokkaido, an untamed land, using the advanced knowledge of foreign faculty and subsequently SAC graduates, civil engineering education in Japan started in earnest at SAC.

Sapporo is the fifth largest city of Japan with a population of more than 1.8 million. It developed as the main urban center of Hokkaido, the northern island of Japan and became well known internationally when in 1972 it became the first Asian city to host the Winter Olympics. Sapporo is also famous for its annual Snow Festival, in which massive ice sculptures adorn Odori Park in the city center. We scheduled this conference to coincide with this event so that participants can experience spectacular snow structures.

Looking forward to seeing you at Sapporo!

APFIS2012, Organizing Committee,
Chairman

Tamon Ueda
Professor, Hokkaido University
Transportation to Sapporo

New Chitose Airport

Conveniently situated close to the city of Sapporo, New Chitose Airport has regular direct international flights to various cities overseas, with domestic flights to Japan's main international airports at Narita, Haneda, Nagoya and Kansai as well as other regional airports.

New Chitose Airport to Sapporo

There're three ways to get to Sapporo from the New Chitose Airport. The fastest and most convenient way is to take the JR Railway. The railway station is located on the B1 level of the Airport Terminal Building, and it will directly take you to the JR Sapporo Station, which is located in the central part of Sapporo City.

<table>
<thead>
<tr>
<th>Means of transportation</th>
<th>Price</th>
<th>Time</th>
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<tbody>
<tr>
<td>JR Railway</td>
<td>1,040 yen</td>
<td>Approximately 36 minutes</td>
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<tr>
<td>Buses</td>
<td>1,000 yen</td>
<td>About 70 min. (depending on the traffic and weather conditions)</td>
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<tr>
<td>Taxi</td>
<td>Approx. 12,000 yen</td>
<td>About 1 hr (depending on the traffic and weather conditions)</td>
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Conference Venue

The Conference will be held at the Hokkaido University Conference Hall  
(Address: N8 W5, Kita-ku, Sapporo, 060-0808 Japan)  
It takes about 10 minutes by walk from JR Sapporo Station to the University Conference Hall.

Climate and Clothes

Sapporo is located in a sub-frigid zone. In winter, it is cold and snowy and the city is white over. The temperature in February is -3.1 degree Celsius in average, -6.6 at lowest and 0.1 at highest. Special soles fitted to shoes (available locally) are necessary to help prevent slipping on the ice and snow. When temperatures drop well below zero, hats, gloves, and thick overcoats become a necessity. Although Sapporo experiences heavy snowfall during this period, the snow that falls is dry and can be brushed off clothing, eliminating the need for umbrellas in winter. The difference in temperature between the freezing outdoors and (over) heated shops and public transport can cause problems in winter, so layers of clothes that can easily be taken off may be useful.
Session Rooms in University Conference Hall
<table>
<thead>
<tr>
<th>Date</th>
<th>Room</th>
<th>8:00</th>
<th>9:00</th>
<th>10:00</th>
<th>11:00</th>
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<th>18:00</th>
<th>19:00</th>
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<tbody>
<tr>
<td>1 Feb.</td>
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Room S: First Conference Room  
Room A: Large Lecture Room  
Room B: Small Lecture Room  
*Lunch venue: “Chuo Shokudo” and “Clark Memorial Center”*
# DETAIL OF DAILY SESSIONS

## Wednesday 1\textsuperscript{st} February, 2012

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>15:00-18:00</td>
<td>Registration</td>
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<td></td>
<td>Venue: Aspen Hotel</td>
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## Thursday 2\textsuperscript{nd} February, 2012

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>9:00-10:00</td>
<td>Registration</td>
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<tr>
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<td>Room: Hall</td>
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<tr>
<td>9:30-10:15</td>
<td>Opening Ceremony</td>
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<td>Room: Room A (Large Lecture Room)</td>
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<tr>
<td>10:15-12:50</td>
<td>Keynote Lectures</td>
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<tr>
<td></td>
<td>Chair: Prof. N Grace (Lawrence Technological University, USA)</td>
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<td></td>
<td>Room: Room A (Large Lecture Room)</td>
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<tr>
<td></td>
<td>KEY01 Performance Evaluation of Precast Concrete Block Reinforced with GFRP Rebars for Erosion Control</td>
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<td></td>
<td>Prof. Jongsung Sim</td>
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<tr>
<td></td>
<td>KEY02 Debonding Failures in CFRP-Strengthened Steel Structures</td>
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<td>Prof. Jin-Guang Teng</td>
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<td>KEY03 Damage of Bridges by the Tsunami and Current Activity of JSCE Committee on Bridge Design against Tsunami</td>
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<td>Prof. Kyuichi Maruyama</td>
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</table>

Lunch (12:50-14:00)

## Poster Session (14:00-15:40)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:00-15:40</td>
<td>Poster Session</td>
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<tr>
<td></td>
<td>Chair: Dr. S. Smith (University of Hong Kong, China) and Dr. K. Yamaguchi (Kyushu University, Japan)</td>
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<td>Room: Room S (First Conference Room)</td>
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<tr>
<td>P01</td>
<td>Geometrically Nonlinear Stress Analysis for Imperfect CFRP Reinforced Steel Cylinders under Compression</td>
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<td></td>
<td>Krishna Kumar Bhetwal, Seishi Yamada, Yukihiro Matsumoto, Sreing Sonit</td>
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<tr>
<td>P02</td>
<td>Static and Fatigue Experimental Study on Flexural Behavior of Hybrid GFRP-Concrete Bridge Decks</td>
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<tr>
<td></td>
<td>Yuqing Liu, Haifeng Fan, Jun He, Dingjun Wu</td>
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<tr>
<td>P03</td>
<td>Flexural Strength Analysis of CFRP Box Beams with Different Laminate Structures</td>
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<tr>
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<td>Hiroki Sakuraba, Takashi Matsumoto, Toshiro Hayashikawa</td>
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<tr>
<td>P04</td>
<td>A New Analytical Model for Concrete Cover Separation of R/C Beams Strengthened with FRP Laminates</td>
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<td>Dawei Zhang, Tamon Ueda, Hitoshi Furuuchi</td>
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<tr>
<td>P05</td>
<td>Fatigue Test on Out-of-Plane Gusset Welded Joints Strengthened with Carbon Fiber Reinforced Polymer Materials</td>
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<td>Tao Chen, Qian-Qian Yu, Xiang-Lin Gu, Xiao-Ling Zhao</td>
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<td>P06</td>
<td>Design Equations for Shear Capacity of Concrete Girders Strengthened in Shear with Externally Bonded FRP Sheets</td>
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<td>Abdeldjelil Belarbi, Daniel Kuchma, Ayman Okeli, Sang-Wook Bae</td>
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<tr>
<td>P07</td>
<td>Performance Evaluation of Different Anchorage Systems for Externally Bonded FRP Sheets for Shear Strengthening of Concrete Structures</td>
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<td>Abdeldjelil Belarbi, Carlos Ortega, Sang-Wook Bae</td>
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<tr>
<td>P08</td>
<td>Analysis of The Shear Strength of RC Beams Fully Wrapped with Large Rupture Strain FRP Composites</td>
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<td>Jun-Jian Xu, Jian-Guo Dai, Tamon Ueda</td>
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<tr>
<td>P09</td>
<td>Bond Strength between CFRP Plate and Concrete under Fatigue Load</td>
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</table>
Coffee Break (15:40-16:00)

Session T1A (16:00-18:00) Room A

Title: Strengthening of concrete, metallic, timber and masonry structures
Chair: Prof. J. Sim (Hanyang University, Korea) and Prof. S. Yamada (Toyohashi University of Technology, Japan)
Room: Room A (Large Lecture Room)

T1A01 Comparison of Different Configurations for FRP Strengthening of Masonry Walls
A. Sayari, T. Donchev

T1A02 Experimental Study on Strengthening Effect of CFRP Strand Sheet on RC Beams Applied with Several Kinds of Adhesives

T1A03 Efficiency and Critical Points of Strengthening Masonry Structures with FRP
Jiri Witzany, Tomas Cejka, Radek Zigler

T1A04 Shear Strengthening of RC Beams using FRP Mesh and PVA Short Fiber Mixed Shotcrete
Takuro Nakamura, Fumio Taguchi, Yusuke Kurilhashi, Norimitsu Kishi, Hiroshi Mikami

T1A05 Fibre Composites for High Pressure Pipeline Repairs, in-air and subsea – An Overview
Md Shamsuddoha, Md Mainul Islam, Thiru Aravinthan, Allan Manalo, Kin-tak Lau, David Elder

T1A06 Shear Deformation of RC Beams Jacketed with Large Fracture Strain FRP in the Post-Yielding Region
Tidarut Jirawattanasomkul, Naruse Ryota, Dawei Zhang, Tamon Ueda

Session T1B (16:00-18:00) Room B

Title: Bond behavior and debonding failures
Chair: Prof. X.L. Zhao (Monash University, Australia) and Prof. S. Yamada (Toyohashi University of Technology, Japan)
Room: Room B (Small Lecture Room)

T1B01 Mechanical Behavior of Plate Bonded FRP Sheets under Uniaxial Compression Load
Yusuke Okuyama, Takeshi Miyashita, Tatsu Ogata, Kazuo Fujino, Kazuo Ohgaki, Yuya Hidekuma, Wataru Horimoto, Masatsugu Nagai

T1B02 Stress Analysis for Steel Plate Multilayered CFRP under Uniaxial Loading
Takeshi Miyashita, Masatsugu Nagai

T1B03 Experimental Study of The Bond Strength between Steel Substrate and CFRP under Impact Tensile Loads
H. Al-Zubaidy, X.L. Zhao, R. Al-Mahaidi

T1B04 Experimental Study on Debonding Behavior of CFRP for Axial Tensile Reinforced Steel Plate by CFRP Strand Sheets
Yuya Hidekuma, Akira Kobayashi, Yusuke Okuyama, Takeshi Miyashita, Masatsugu Nagai

T1B05 FRP-to-Metal Bonds: Effect of Test Specimen Configuration on Interfacial Stresses
J.Q. Yang, Scott T. Smith, Feng Peng

T1B06 Tensile and Compressive Test on Thickness-Reduced Steel Plate Repaired by CFRP Strand Sheet and Underwater Epoxy with Bond Defects
Yasuo Kitane, Xiao Chen, Yoshito Itoh, Toshiyuki Ishikawa
Welcome Reception (19:00-)  
Room : Room S (First Conference Room)

Friday 3rd February, 2012

Registration (8:30-9:30)  
Room : Hall

Session F1A (9:00-10:40)  
Room A

Title : Strengthening of concrete, metallic, timber and masonry structures  
Chair : Prof. R. Al-Mahaidi (Swinburne University of Technology, Australia) and Dr. F. Taguchi (Civil Engineering Research Institute for Cold Region, Japan)  
Room : Room A (Large Lecture Room)

F1A01 Capacity Development of Externally Bonded CFRP Subject to Oscillating Loads During Resin Cure  
Kent A. Harries, Wen-wei Wang, Jian-Guo Dai

F1A02 FRP Anchorage Systems for Infill Masonry Structures  
Dillon S. Lunn, Sami H. Rizkalla, Shohei Maeda, Tamon Ueda

F1A03 Partially Cured Epoxy Adhesive for Anchoring Prestressed CFRP Strips on Concrete  
Julien Michels, Christoph Czaderski, Raafat El-Hacha, Masoud Motavalli

F1A04 The Study of FRP Sheet Effectiveness on Structural Behavioral of AAC Blocks  
Asghar V. Oskouei, Shahed Rasouli

F1A05 Feasibility Study on Increasing Bending Stiffness of FRP Girders by Bonding CFRP Strips and Bonding Girder Sections  
Onedk Denis Obedi, Shuhei Sugai, Hitoshi Nakamura, Ken-ichi Maeda, Ken-ichi Yaginuma

Session F1B (9:00-10:40)  
Room B

Title : Confinement and seismic retrofit / Concrete structures reinforced or prestressed with FRP / Fire, impact and blast loading  
Chair : Prof. H. Mutsuyoshi (Saitama University, Japan) and Prof. W.C. Xue (Tongi University, China)  
Room : Room B (Small Lecture Room)

F1B01 Seismic Performance of Beam-Column Joints Reinforced with GFRP Headed Bars  
Mohamed H. Hasaballa, Ehab F. EL-Salakawy

F1B02 Investigation on GFRP Bar Performance in High Strength Concrete Footing  
Mohammad Pirgholi Kivi, Hassan Araghi, Asghar Vatani Oskouei

F1B03 Use of CFCC Tendons and Reinforcements in Concrete Structures for Durability  
Tsuyoshi Enomoto, Ken’ichi Ushijima

F1B04 Evaluation of A Shear Wall Reinforced with Glass FRP Bars Subjected to Lateral Cyclic Loading  
Nayera Mohamed, Ahmed Sabry Farghaly, Brahim Benmokrane, Kenneth W. Neale

F1B05 Stiffness of FRP Pultruded Tubes under Repeated Axial Impacts  
Ernesto J. Guades, Thiru Aravinthan, Md. Mainul Islam, Allan C. Manalo

Coffee Break (10:40-11:00)

Session F2A (11:00-12:40)  
Room A

Title : Hybrid structures and all FRP structures / Strengthening of concrete, metallic, timber and masonry structures  
Chair : Prof. J.G. Teng (Hong Kong Polytechnic University, China) and Prof. T. Shimomura (Nagaoka University of Technology, Japan)  
Room : Room A (Large Lecture Room)

F2A01 Seismic Control of Plastic Mechanism of Steel Reinforced Concrete Columns by the Use of GFRP Bars
F2A02 Investigation of Flexural Performance of RC Beams Strengthened with CFRP Textiles and Cement Based Adhesives
Siavash Hashemi, Riadh Al-Mahaidi
F2A03 Strengthening of Flat Plates with An Opening Using FRP Systems
Kiang Hwee Tan
F2A04 Effectiveness of A New CFRP Anchor in Preventing Delamination
Ahmed A.B. Mostafa, A. Ghani Razaqpur
F2A05 Behavior of Laterally Restrained GFRP Reinforced Concrete Slab
Yu Zheng, Chunhong Li, Guoyou Yu

Session F2B (11:00-12:40) Room B
Title: Durability and long-term performance / Strengthening of concrete, metallic, timber and masonry structures
Chair: Prof. R. El-Hacha (University of Calgary, Canada) and Dr. J.G. Dai (Hong Kong Polytechnic University, China)
Room: Room B (Small Lecture Room)

F2B01 Fatigue of Center Cracked Steel Plates with UHM CFRP Plate Strengthening
Chao Wu, Xiaoling Zhao, Wenhui Duan, Mohammad R. Emdad, Riadh Al-Mahaidi
F2B02 Enhancement of Mechanical Performance of Steel/CFRP Adhesively-Bonded Joints at Elevated Temperatures through Carbon Nanotube Modification and Curing
Yu Bai, Tien C. Nguyen, Chao Ding, Xiao-Ling Zhao
F2B03 Improving Fatigue Performance of CFRP Strengthened Steel Beams by Applying Vacuum Pressure in the Wet Layup of CFRP Woven Sheets
Hui Jiao, Xiao-Ling Zhao, Fidelis Mashiri
F2B04 Development of Reduction Technique of Thermal Stress Induced in CFRP Bonded Steel Plates
Toshiyuki Ishikawa, Atsushi Hattori, Hirotaka Kawano, Takashi Nagao, Akira Kobayashi
F2B05 Mechanical Characteristics of CFRP Reinforcement for Corroded Steel under Axial Tension
Yukihiro Matsumoto, Nguyen Duc Long, Seishi Yamada, Takahiro Matsui

Lunch (12:40-14:00)

Session F3A (14:00-15:40) Room A
Title: Hybrid structures and all FRP structures
Chair: Prof. K.H. Tan (National University of Singapore, Singapore) and Dr. P. Feng (Tsinghua University, China)
Room: Room A (Large Lecture Room)

F3A01 Prediction of The Flexural Behavior of Fibre Composite Sandwich Beams
Allan C. Manalo, Thiru Aravinthan, Karu Karunasena
F3A02 Performance of Newly Developed CFRP Precast Prestressed Decked Bulb T Beams
Nabil Grace, Tsuyoshi Enomoto, Prince Baah, Mena Bebawy
F3A03 Effects of the Material Constants of Bond on Stress Distributions for FRP/ALC Sandwich Slabs
Seishi Yamada, Takeshi Seino, Yukihiro Matsumoto, Hideo Oka
F3A04 The Use of FRCC and FRP for the Joining Method of Permanent Formwork
Qingxu Jin, Christopher K. Y. Leung
F3A05 Structural Behavior of Composite Girders Consisting of Hybrid FRP I-Beam and Precast Ultra High Performance Fiber Reinforced Concrete Slab
Hiroshi Mutsuyoshi, Nguyen Duc Hai, Zhishen Wu

Session F3B (14:00-15:40) Room B
Title: Durability and long-term performance / Hybrid structures and all FRP structures
Chair: Prof. C.K.Y. Leung (HKUST, China) and Dr. I. Nishizaki (Public Works Research Institute, Japan)
Room: Room B (Small Lecture Room)

F3B01 Influence of Environmental Temperature for Bond Strength between CFRP Sheet and Concrete
Coffee Break (15:40-16:00)

Keynote Lectures (16:00-18:15)  
Chair: Prof. Z.S. Wu (Ibaraki University, Japan)
Room: Room A (Large Lecture Room)

Key04  Proposals of CF, GF and NF Composites to Civil and Architectural Structures  
Prof. Goichi Ben

Key05  All FRP and FRP-Concrete Hybrid Components for Bridges: Experiments, Theories and Case Study  
Dr. Peng Feng

Key06  Research and Development of Fibre Composites in Civil Infrastructure – The Australian Experience  
Dr. Thiru Aravinthan

Banquet (19:00-)  
The Sapporo Beer Garden  
Venue: The Sapporo Beer Garden

Saturday 4th February, 2012

Registration (8:30-9:30)  
Room: Hall

Session S1A (9:00-10:40)  
Chair: Dr. Y.F. Wu (City University of Hong Kong, China) and Dr. K. Yonemaru (Shimizu Corporation, Japan)
Room: Room A (Large Lecture Room)

S1A01  Size Effect of Square Concrete Columns Confined with CFRP Wraps  
Zhenyu Wang, Daiyu Wang, Scott Thomas Smith

S1A02  Shear Strengthening of Full-Scale RC T-Beams with CFRP Sheets  
Abdeldjeill Belarbi, Michael Murphy, Sang-Wook Bae

S1A03  Shear Strengthening of RC Beams Using Hybridized FRP Composite  
Sang-Su Ha, Dong-Uk Choi, Thomas H.-K. Kang, Chin Yong Lee

S1A04  Short Term Creep Tests of Low Strength Rectangular Concrete Members Jacketed with Carbon FRP Sheets  
Cem Demir, Aygul Aydogmus, Alper Ilki

Session S1B (9:00-10:40)  
Chair: Prof. S.H. Rizkalla (North Carolina State University, USA) and Dr. T. Kanakubo (University of Tsukuba, Japan)
Room: Room B (Small Lecture Room)
The Third Asia-Pacific Conference on FRP in Structures, 2-4 February, 2012, Sapporo, Japan

S1B01  Bond and Force Transfer of FRP Materials Bonded to Concrete Using Sitecure System
       Rebecca J. Gravina, S. Ali Hadigheh, Sujeeva Setunge

S1B02  Bonding of Varying-Thickness FRP Laminates to RC Beams
       P. Fakhrimoghadam, A. Vafai

S1B03  Bond Properties between Continuous Fiber Rope and Concrete
       Kenzo Sekijima, Kyouhei Kawakami, Junichi Izumo

S1B04  Bond Strength of Carbon and Aramid Fiber Reinforced Polymer Rebars in Normal Strength Concrete
       So Jeong Han, Dae-Jin Kim, Young Hak Lee, Heecheul Kim

S1B05  Investigation of the Bond Behavior for the Embedded Through-Section FRP Rod Shear-Strengthening Method
       Ahmed Godat, Amar L'hady, Omar Chaallal, Kenneth W. Neale

Coffee Break (10:40-11:00)

Session S2A (11:00-12:20)  Room A
Title:  Hybrid structures and all FRP structures / Strengthening of concrete, metallic, timber and masonry structures / Durability and long-term performance
Chair:  Dr. T. Matsumoto (Hokkaido University, Japan) and Prof. A. Belarbi (University of Houston, USA)
Room:  Room A (Large Lecture Room)

S2A01  Analysis and Design of Perforated SIFCON Blocks for Compression Yielding Structural Systems
       Yufei Wu, Jiafei Jiang, Kang Liu

S2A02  Improvement of Debonding Bending Moment of Pre-Tensioned CFRP Plates Bonded onto Steel Members
       Masaru Shimizu, Toshiyuki Ishikawa, Atsushi Hattori, Hirotaka Kawano

S2A03  Mechanical Behaviour of A New Type of Fibre Composite Railway Sleeper
       Allan C. Manalo, Thiru Aravinthan

S2A04  Gravimetric Experimental Study on Moisture Diffusion Characteristic of Pultruded FRP Composite and Adhesive Materials
       Xu Jiang, Henk Kolstein, Frans S.K. Bijlaard

Session S2B (11:00-12:20)  Room B
Title:  Bond behavior and debonding failures
Chair:  Dr. A. Kamiharako (Hirosaki University, Japan) and Dr. D. Zhang (Hokkaido University, Japan)
Room:  Room B (Small Lecture Room)

S2B01  Practical-Orientated Full-Scale Tests in Comparison with Bond Checks of Different Guidelines
       Wolfgang Finckh, Konrad Zich

S2B02  Double Shear Tests for Characterisation of Bond between FRP EBR and Concrete
       Andreea Serbescu, Maurizio Guadagnini, Kypros Pilakoutas

S2B03  Interface Bond Strength of Helical Wrapped GFRP Ground Anchors
       Weichen Xue, Yuan Tan

S2B04  A Study on Flexural Bonding Strength for Embedded Length of FRP Rods
       J. Sim, T. Kang, J. Park, H. Kim, H. Lee

Closing Ceremony (12:20-12:40)  Room A

Lunch (12:40-14:00)
Exhibition

Technical exhibition is open during the conference at Room S (First Conference Room) in the University Conference Hall.

Campus Tour

Campus tour of Hokkaido University including laboratory tour is planned after the closing ceremony. Detail will be announced during the conference.

Hokkaido University’s School of Engineering
Social Program

Welcome Reception

Date: 19:00pm-, Thursday, 2 February, 2012  
Venue: Room S, Hokkaido University Conference Hall  
(conference venue)

* Hosted by Association for Advanced Composite Technology in Construction Field (ACC)

Banquet

Date: 19:00pm, Friday, 3 February, 2012  
Venue: Sapporo Beer Garden  
(Address: N7 E9-2-10, Higashi-ku, Sapporo, 065-0007 Japan) * Chartered Bus takes you to the venue.
Fee: 5,000 JPY/person

Food and Drinks: Lamb & mutton BBQ and beer
* Please contact conference secretariat if you have any food restriction.
Accommodations

Arrangement of accommodation will be handled by MEITETSU WORLD TRAVEL INC. For further information, please contact tomonari.ikeda@mwt.co.jp

Please note that the APFIS2012 secretariat will NOT be responsible for the arrangement of accommodation.

Travel planning and implementation
Meitetsu World Travel Inc. Sapporo Branch
APFIS 2012 Section
Kita 3-jo Bldg. 1F, Kita 3-jo Nishi 3-chome, Chuo-ku, Sapporo 060-0003
Tel. 011-241-4986 Fax. 011-241-0154
Email: tomonari.ikeda@mwt.co.jp
Hours of business: Mon.-Fri. 9:00–18:00
Closed Sat. Sun and public holidays
Japan Tourism Agency registered company No.55
Full member of the Japan Association of Travel Agents

Excursions

The Sightseeing bus tours will be operated by the Hokkaido Chuo Bus Co., Ltd. For further information or reservation, please contact hokkaido.chuobus@gmail.com or Tel. +81-11-241-1022

Please note that the APFIS2012 secretariat will NOT be responsible for the operation or reservation of the tours.

Sapporo Snow Festival

The event began in 1950 when six students built snow statues in Odori Park. The idea caught on and today teams of talented professional sculptors come from around Japan and the world to create hundreds of statues and sculptures from ice. These amazing creations range from small, intricate pieces to huge structures the size of multi-story buildings. There’s a support program of concerts and cultural events, and at night the sculptures are beautifully illuminated with colored lighting.

The 63rd Sapporo Snow Festival will be held from February 6 (Mon.) through 12 (Sun.) in 2012. For further information: http://www.snowfes.com/english/index.html
Committee Members

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T. Aravinthan, Australia
M. Griffith, Australia
X.L. Zhao, Australia
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A.A. Mufti, Canada
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Sponsorship

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