



Workshop on

Life Cycle Assessment of Sustainable FRP Materials

Date: December 14, 2009

Venue: Theater Room at Saitama University

Co-organized by **Prof. Hiroshi Mutsuyoshi** (Saitama University) and **Assoc. Prof. Thiru Aravinthan** (University of Southern Queensland)

• **Sponsored by** JIST Foundation (Japan Interaction in Science & Technology Forum)



Saitama University International Collaborative Graduate Program

Institute for Environmental Science and Technology, Saitama University



Australian Government



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Program:

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| 13:00-13:10 | Opening address Prof. Hiroshi Mutsuyoshi, Saitama University |
| 13:10-13:30 | Presentation Assoc. Prof. Thiru Aravinthan, University of Southern Queensland "Sustainable fibre composite girders for replacement of hardwood timber bridge girders " |
| 13:30-13:50 | Presentation Mr. Nguyen Hai Duc, Saitama University "Structural Performance of Hybrid FRP Composite Girder " |
| 13:50-14:10 | Presentation Mr. Takahiro Matsui, Toray Industries, Inc. "Optimizing LCC for Pier Bridges using FRP Members " |
| 14:10-14:30 | Presentation Mr. Itaru Nishizaki, Public Works Research Institute "Life-Cycle Cost Assessment for FRP Structures " |
| 14:30-14:50 | Presentation Assoc. Prof. Takumi Shimomura, Nagaoka University of Technology "Case study on assessment of LCC and environmental impact of FRP structure by JSCE committee" |
| 14:50-15:20 | - Coffee Break - |
| 15:20-15:40 | Presentation Mr. Kensuke Shiroki, Saitama University "Flexural behavior of HFRP-UFC composite girder" |
| 15:40-16:00 | Presentation Assistant Prof. Hitoshi Nakamura, Tokyo Metropolitan University "Repair and Strengthening of Steel Structures using FRP " |
| 16:00-16:20 | Presentation Dr Mainul Islam, University of Southern Queensland "Behaviour of innovative fibre composite sandwich panels " |
| 16:20-16:40 | Presentation Mr. Hirofumi Watanabe, Association for Advanced Composite Technology on Construction Field "Recent Application of FRP in Japan (tentative) " |
| 16:40-17:00 | Presentation Mr. Allan Manalo, University of Southern Queensland "Behaviour of glue-laminated fibre composite sandwich beams " |
| 17:00 | Closing address Assoc. Prof. Thiru Aravinthan, University of Southern Queensland |

● **Contact / Inquiry**

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● **Access**

- ◆ JR Keihin-Tohoku Line Kitaurawa stn. – Saitama Univ. (15 min. by bus)
- ◆ JR Saikyo Line Minamiyono stn. – Saitama Univ. (10min. by bus)

