About Port and Airport Research Institute, Japan

The Port and Airport Research Institute (PARI) was re-established on April 1, 2001, as a specified independent administrative institution to conduct investigation, research, and development of technologies relating to the construction of ports, coasts, and airports. It was earliest known as "The Harbour Laboratory within the 7th Division of the Railway Technical Research Institute" in 1946 and has experienced a 61-year history. The objective of PARI is to improve technologies relating to ports, coasts, and airports and contribute to their efficient and effective construction. As an independent administrative institution directed by the Minister of Land, Infrastructure, and Transport, Japan PARI is required to operate on the principles of public service, transparency, and autonomy. PARI consists of 19 research laboratories belonging to four research departments (Research Planning and Administration Department**,** Marine Environment and Engineering Department, Geotechnical and Structural Department, and Construction and Control Systems Department) and three research centers, which focus on the fields of Airport, Tsunami Disaster Prevention, and Life Cycle Management for Coastal Infrastructures, respectively. More information can be found at:

http://www.pari.go.jp/english/index.htm

Hazaki Oceanographical Research Station

About Hangzhou City

Located on the east coast of China, Hangzhou, the capital of Zhejiang Province, is a city with historical and cultural heritage, a city for sightseeing and tourism, a metropolis in Yangtze delta. The climate in this area is warm and humid, with four distinct and well-proportioned seasons in a year. It covers approximately an area of 16500 square kilometers with a population of 6 millions. As a county founded in Qin Dynasty, Hangzhou has a history more than 2000 years. Being the national capital in Wu Dai and South Song dynasties for 273 years, Hangzhou is one of the seven ancient capitals in China and known as "heaven on earth." It possesses excellent sceneries such as "West Lake" and "Qiantang River Bore." An Italian traveler Marco Polo remarked that the city is the most beautiful and splendid in the world.

West Lake, Hangzhou

Workshop Secreriat

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The 2nd International Workshop on

Life Cycle Management of Coastal Concrete Structures

(First Announcement and Call for Papers)

27-28 November 2008
Hangzhou, China

Organized by

Zhejiang University, China
Port and Airport Research Institute, Japan
Nagaoka University of Technology, Japan

Background and Objectives

Corrosion of steel reinforcement due to chloride attack is a severe problem considered for reinforced concrete (RC) structures under coastal environment. It leads to reduction of steel cross-section, cracking in concrete, loss of bond strength between steel reinforcement and concrete, and eventually loss of structural safety. Unfortunately, in practice the time to corrosion initiation in coastal RC structures has proven to be very short compared to their designed service life. Therefore, it is of great importance to develop performance-based durability design and strategic maintenance methodologies in order to obtain a minimized Life Cycle Cost (LCC). To achieve this goal, various topics including selection of high-performance materials, condition monitoring and assessment, development of models for service life prediction, risk assessment, life cycle cost evaluation, and maintenance optimization etc. need to be carefully studied. This workshop is organizing a number of selected experts for exchanging their ideas and experiences, for summarizing the state-of-the-art, and for outlining needs for further research with respects to the above-mentioned issues. It is expected that this workshop would further our knowledge on making sustainable coastal concrete structures against chloride-induced deterioration from a life cycle viewpoint.

The 1st international workshop on "Life Cycle Management of Coastal Concrete Structures" was successfully held in Nagaoka, Japan in November 2006. This 2nd international workshop to be held in Hangzhou, China, is sequent to the first one, in the meantime, is also for commemorating the Agreement of Research Cooperation, which was signed in April 2007, between LCM Research Center, Port and Airport Research Institute, Japan and Institute of Structural Engineering, Zhejiang University, China.

For Your Information

This workshop will be in conjunction with "International Conference on Durability on Concrete Structures (ICDCS 2008)," on 26-27 November 2008, Hangzhou, China. The international conference is being co-organised by Zhejiang University, China, Hokkaido University, Japan, and Queen's University, UK. More information related to this international conference can be found at:

hppt://www.ccea.zju.edu.cn/icdcs2008

Topics to be Taken in

Papers focusing on but not limited by the following topics with regards to chloride-induced deterioration of reinforced concrete and prestressed concrete structures are invited for presentations in this workshop:

- Durable materials under saline environment
- Mechanism of material deterioration
- Progress of structural deterioration
- Condition monitoring and assessment
- Probabilistic modelling of deterioration processes in concrete structures
- Prevention and repair of deteriorated structures
- Probability-based design approaches for material and structural durability
- Life cycle cost (LCC) assessment
- Optimized life cycle management (LCM) strategy

Local Organising Committee

Chair

Weiliang JIN, Zhejiang University, China

Members

Hiroshi YOKOTA, Port and Airport Research Institute, Japan
Takumi SHIMOMURA, Nagaoka University of Technology, Japan
Jianguo DAI, Port and Airport Research Institute, Japan
Yuxi ZHAO, Zhejiang University, China

Important Dates

2008/04/30 Deadline for abstract submission
2008/05/30 Notification of abstract acceptance
2008/08/15 Deadline for final paper submission
2008/10/15 Final announcement with technical program

Registration Fees

The registration fees are temporarily 6,000 JPY for each participant, including the proceedings and the entire workshop program.

Language

The official language during this international workshop will be English. No simultaneous translation will be provided.

Workshop Venue

Zhejiang University, Hangzhou, China

About Zhejiang University China

Zhejiang University

Zhejiang University was founded a century ago as one of the earliest institutions for advanced education in China. Under the direct administration of China's Ministry of Education, Zhejiang University is a key comprehensive university whose fields of study cover eleven branches of learning, namely philosophy, literature, history, education, science, economics, law, management, engineering, agriculture and medicine. At present, the total number of full time students in Zhejiang University has reached over 40,000, including more than 23,600 undergraduates, over 9,300 postgraduates working for master's degrees and over 6,200 Ph.D candidates. There are also nearly 37,000 students taking courses in degree and non-degree programs in adult education. Among its 8,400 staff members and workers, there are 14 members of the Chinese Academy of Sciences, 9 members of the Chinese Academy of Engineering, over 1,200 full professors and over 2,400 associate professors. Please visit the following web address for more information:

http://www.zju.edu.cn/english/about/index.htm