

2016 Annual report of the Chinese National RILEM Group

1. Administrative issues

There is no change for the organization of the Chinese National RILEM Group. At present, the national presidium of CHN-RILEM is listed as following:

President: Prof. MIAO Changwen, Southeast University

Member of Presidium:

First vice president:

Prof. LI Zong-jing, Hongkong, Hong Kong University of Science and Technology

Vice-President:

Prof. HU Shu Guang, Wuhan University of Technology

Prof. YAO Yuan, China Building Materials Academy

Prof. GU Xiang Lin, Tongji University of Technology

Prof. XU Shi Lang, Zhejiang University of Technology

General Secretary: Prof. LIU Jia Ping, Jiangsu Research Institute of Building Science

Secretary: Dr. MU Song, Jiangsu Sobute New Materials Co., Ltd.

2. An overview of membership (individual and corporate)

Until 25th July, 2016, there are 129 members of CHN-RILEM in total according to the search directory of RILEM membership, including individual and corporate members.

3. An overview of technical activities during last year

In 2016, CHN-RILEM organized some technical activities, including 1 national academic event, 1 international conference, 1 workshop and 1 international doctoral course. In addition, CHN-RILEM also organized some members to attend international activities.

3.1 National academic event

The 10th National Symposium on High Strength and High Performance Concrete

From 25 to 27 November of 2016 years, the 10th National symposium on High Strength and High Performance Concrete was held in Nan Jing organized by the Secretariat of Chinese National RILEM Group and Southeast University. The symposium was hosted by High-strength and high-performance concrete committee of the China Civil Engineering Society. The symposium aims to promote the research and application of high strength and high performance concrete in China, and provide a platform for communication and cooperation between academia and engineering. Nearly 200 experts from universities, research institutes and concrete enterprises attended the symposium to discuss the future development of China's concrete industry direction.

The symposium has 12 keynote reports and 24 invited reports, which covered the fields of high-strength and high-performance concrete materials and structures, concrete structure durability, concrete admixtures and many other aspects of research and engineering experience. The reported content is rich and insightful, and the delegates of the symposium responded enthusiastically. Therefore, the symposium successfully reached the expected effect.



The 10th National Symposium on High Strength and High Performance Concrete

3.2 International conference

The 3rd International RILEM Conference on Microstructure Related Durability of Cementitious Composites

From 24 to 26 October of 2016 years, 3rd International RILEM Conference on Microstructure Related Durability of Cementitious Composites was held in Nan Jing organized by the Secretariat of Chinese National RILEM Group, Southeast University Delft University of Technology and Jiangsu Advanced Civil Engineering Materials Collaborative Innovation Center. About 240 attendants, coming from China, the Netherlands, the United States, Germany, France, Switzerland and more than 20 countries and regions, presented the conference.

The durability of cement-based materials is an important problem faced by concrete structures and also be a major factor affecting the service life of infrastructure in the future. On behalf of Chinese National RILEM Group, the president of Professor Miao Chang-wen and the general secretary Prof. Liu Jia-ping both gave lectures in the conference. In addition, more delegates from RILEM China group actively took part in the conferences and shared their new findings and research progress.



The 3rd International RILEM Conference on Microstructure Related Durability of Cementitious Composites

American Concrete Institute (ACI) 2016 Spring Convention

In order to strengthen the communication with ACI, the Chinese National RILEM Group organized a part of members to attend the convention. Besides, the president of Professor Miao Chang-wen and the general secretary Prof. Liu Jia-ping both gave lectures on the application of innovative concrete technology in China's major project and concrete and early deformation control technology of concrete respectively. And other members of the Chinese National RILEM Group also communicated with the international colleagues. Participating in the convention made the international academic community to understand the latest progress of China's concrete research and the problems faced by China colleagues. Meanwhile, the communication obtained the attention of some international scholars to strengthen the common areas of research concern.



American Concrete Institute (ACI) 2016 Spring Convention

GRC workshop-Advanced Materials for Sustainable Infrastructure Development

From 31 July to 5 August of 2016 years, the GRC workshop on Advanced Materials for Sustainable Infrastructure Development was held in Hong Kong. The

workshop was organized by Hong Kong University of Science and Technology. The workshop brought together scientists from China, the United States, Canada, France, Spain, Greece, Australia, India, Japan, Brazil, Singapore and other countries.

On behalf of Chinese National RILEM Group, the president of Professor Miao Chang-wen and the general secretary Prof. Liu Jia-ping both participated in the workshop. The workshop focused on "nano-scale material properties and simulation", "concrete microstructure characteristics and multi-scale modeling", "cement-based material testing", "high-performance concrete materials", "concrete green design method", "functional concrete", and "Concrete durability design in severe environment".



GRC workshop-Advanced Materials for Sustainable Infrastructure Development

3.3 National Workshop on Concrete technology

High Performance Civil Engineering Materials Summit Forum - Modern Concrete Fluidity Control Technology

From 6 to 8 June of 2016 years, the Secretariat of Chinese National RILEM Group organized a workshop on High Performance Civil Engineering Materials Summit Forum - Modern Concrete Fluidity Control Technology. About 130 participants from industry and academy of China attended the workshop.

The workshop invited the experts, from Iowa State University of United States, Tsinghua University, Southeast University, Beijing University of Architecture, China Railway Science Research Institute and other universities, research institutes and related affiliates, to make a special report on the raw material sensitivity, fluidity control and other issues related with practical application of modern concrete.



High Performance Civil Engineering Materials Summit Forum - Modern Concrete Fluidity Control Technology

3.4 International doctoral course

RILEM International doctoral course on Multi-Scale Modelling

From 17 to 21 October of 2016 years, the Secretariat of Chinese National RILEM Group, TU Delft, TU Darmstadt, Tecnalia, Jiangsu Advanced Civil Engineering Materials Collaborative Innovation Center, and RILEM organized the doctoral course. A total of more than 70 doctoral students, from Belgium, Russia, the Netherlands, India and more than 10 universities in China, attended the course.

This course taught a variety of modeling methods for concrete from a multi-scale perspective, and focused on modeling differences between different scales. In addition, students can also personally participate in modeling operations in order to combine theoretical courses and practical operations.

3.5 Others

TC Presentation on RILEM Technical Day

Dr. Li Juan gave a TC presentation on behalf of RILEM TC 246-TDC members on RILEM Technical Day, August, 24, 2016.



RILEM TC 246-TDC presentation



Tenth Meeting of TC 246-TDC, Lyngby, Aug. 23, 2016