

Expectation and Operation of ICCMC



Taketo Uomoto
Public Works Research Institute, Japan
Chairman, ICCMC

I have been on this committee since its inception in 1994, first as a member, then a Vice-Chairman in 1996 and a Chairman in 1998 until 2002. After then I retired the chairman and worked as a member to support the committee works, but now I happen to become a chairman again this year in 2010 after Professor T. Ueda. I am not as young as I used to be, and I became the Chief Executive of the Public Works Research Institute in Japan, but I hope I can support this committee till the end of my term.

I have seen this committee grow from slightly over 10 members to the existing 81 members including representative members from respectable institutions such as Chinese Concrete Institute, Indonesian Society of Civil and Structural Engineers, Japan Concrete Institute, and Vietnam Institute for Building Science and Technology, etc.

Throughout these 16 years, the committee received support from various sectors including private organizations as corporative members and public organizations, which are not only from Japanese governmental organizations but also from various institutions and universities in Asian countries. Nowadays, Asian Concrete Federation (ACF) is also supporting us financially through research works. The committee also received support at each of the workshop from respective organizations in the host country.

In December 2010, we will have the chance to exhibit our works to ACF and the researchers and engineers in the Asian region who gathers together in the general meeting of ACF, in Taipei. I am sure that many ICCMC members will attend both the ICCMC meeting and general meeting of ACF.

The committee members have been working hard not only to write out the Concrete Model Code but also members are actively working through works of ISO TC71 and ACF. The model codes made by ICCMC are the product of hard work, sacrifice and devotion of our committee members and organizations in various countries that took time to review the draft and gave us constructive comments. Part 3 of ACME is the basis of the drafted ISO Standard on maintenance and repair of

concrete structures. It is my hope that ACME and its future editions will bring about harmonization among the construction industries in various countries and as a result, a united and stronger Asia.

I also would like to express sincere thanks to two vice-chairmen, Prof. Tan Kiang Hwee and Prof. Somnuk Tangtermsirikul and Administrative Manager, Ms Naoko Masaki to support our activities..

Relevance of ICCMC in Today's Context



Tan Kiang Hwee
National University of Singapore
Vice-chairman, ICCMC

The International Committee on Concrete Model Code for Asia (ICCMC) has been in existence for more than 16 years. Its main objectives are to promote co-operation among countries in the Asia-Pacific region through: (a) developing and maintaining a concrete model code; (b) initiation and support of collaborative research activities; (c) dissemination of research results and experience of development activities; and (d) interaction with the members. The Committee currently has 77 individual members, 4 institution representative members and 6 corporate members.

How has the ICCMC fared so far?

The ICCMC has done particularly well in producing the Concrete Model Code for Asia. This has proven to be useful as a guide for the development of national/local guides such as the Vietnamese Standard for Maintenance of Concrete Structures. Equally commendable is its involvement in the standardization works of the International Standards Organization, specifically in Technical Committee TC 71 on Plain, Reinforced and Prestressed Concrete. Its members have played a major role in establishing two sub-committees, SC7 on Maintenance and Repair of Concrete Structures, and SC8 on Environmental Management for Concrete and Concrete Structures. This has resulted in more participation in ISO activities by Asian countries.

The ICCMC has also funded a number of research projects. Though the funding sum per project is nominal, it has been a boost to some countries in which such funds are hard to come by. The funded research projects have resulted in some technical reports that would be useful as references for code development in countries with similar social and economic background.

Members of ICCMC have also contributed to a certain degree to the establishment of the Asian Concrete Federation (ACF), which has concrete institutions or societies in Asia-Pacific countries as its main members. Currently, discussions are on-going regarding the merger of ICCMC and ACF.

The Way Ahead

So far, ICCMC has not been able to engage its members fully and effectively. The absorption of ICCMC as a technical arm of ACF is a natural consequence. ICCMC would then be able to concentrate on technical matters, leaving other objectives to ACF to deal with. There would be no duplication in activities since both bodies serve the same community in the Asia-Pacific region.

With ACF as the parent body, the work of ICCMC could be better supported and enhanced. It would be worth examining the work of other major code committees such as those of Eurocodes, with an aim to align and further develop a practical Asian Concrete Code. The writer recognizes that while it is necessary to produce documents that provide specific guidance to various aspects of design, materials and construction, as well as maintenance of concrete, the work could be enormous.

Also, with the support of ACF's institutional members, the work of ICCMC could be better disseminated to and accepted by the standardization organizations in various countries. It may take another one decade or two before an Asian Concrete Code could be realized, but it is probably better late than never.

Cambridge University Press Publishes its First Book on Concrete Structures



Sanaul Chowdhury
Griffith University, Gold Coast Campus
WG 4 Coordinator, ICCMC

Reinforced and prestressed concrete engineering is bread-and-butter work of professional civil and structural engineers. Being the most popular construction material in Australia and most overseas countries, concrete is as

sophisticated, mouldable as it is economical, but its structural behaviour is not always readily predictable. As a result the performance of reinforced and prestressed concrete continuously provides hot research topics for many structural engineering researchers especially now that higher and higher concrete strength is specified in the design of modern buildings and bridges. Thus it is timely that Cambridge University Press decides to publish its first concrete structures book sourced from Australia for international release – the second ever in Cambridge's long and illustrious publishing history. The book has been available in the Australian book market from August 2010.

Written by Professor Yew-Chaye Loo and Dr Sanaul Chowdhury, two of Griffith University's civil engineering academics, this unique book is titled "Reinforced and Prestressed Concrete". It embodies the outcomes of the authors' research and learning and teaching (L&T) efforts in concrete engineering over more than 30 years; it also contains their in-depth analysis of and recommendations on, the practical application of the numerous new and upgraded albeit complex design processes stipulated in the latest Australian Standard AS3600-2009 on concrete structures. To add to the attraction of the book, AS3600-2009 which is subscribed by all practising engineers in Australia and many overseas countries, was issued only in late December 2009. As such the book contains ample and quality L&T materials for professional engineering courses both at senior and postgraduate levels; it also serves as an all encompassing reference for civil, structural and architectural engineering practitioners. Researchers on such advanced topics as cracking of reinforced and partially prestressed concrete structures, crack-width prediction, deflection under repeated loading, punching shear failure of slabs etc will also find relevant sections of the book instructive and revealing.

Together Professor Loo, Griffith's Foundation Chair of Civil Engineering and Dr Chowdhury, Lecturer in Concrete and Structural Engineering have in total over 50 years of experience in research, teaching and professional practice in the field of concrete structures. The publication of this 450-page book follows Cambridge's rigorous and respected peer-review process. Its international release should also aid Standards Australia International (SAI Global), the publisher of AS3600-2009, in its endeavours to promote Australia's technological standards world-wide.

It is worth mentioning here that Professor Loo and Dr. Chowdhury have been associated with the ICCMC since its inception and served the Committee in different capacities over the years. Currently they are both members of the Executive.



News about ICCMC

ICCMC Special Session and ICCMC General Meeting are going to be held in conjunction with the 4th ACF International Conference in Taipei

Special Session on ICCMC is going to be held during the 4th ACF International Conference on 30 November, 2010 in Taipei, Taiwan. With Prof Tan Kiang Hwee and Prof Tamon Ueda as co-chairmen, following 6 presentations are going to be given during the session to promote activities of ICCMC and ACF;

1. ICCMC and ACMC - Prospects and Activities
by Prof Taketo Uomoto, Public Works Research Institute, Japan
2. Harmonisation of Concrete Model Code to Some Aspects of Local Regulation
by Prof Ekasit Limswan, Chulalongkorn University, Thailand
3. Asian Concrete Model Code : Past, Present and Future
by Prof Somnuk Tangtermsirikul, SIIT Thammasat University, Thailand
4. ICCMC and ISO/TC71
by Prof Tamon Ueda, Hokkaido University, Japan
5. Recycling of Demolished Concrete
by Dr Uddin Tarek, The University of Asia Pacific, Bangladesh
6. Sustainable Development of Concrete Construction Works – Bangladesh Perspective
by Dr M. A. Awal, The University of Asia Pacific, Bangladesh

ICCMC General Meeting is going to be held on 1 December, 2010 at NCREE (National Center for Research on Earthquake Engineering) . Those who are interested in the committee are welcome to join.

New Publication of Level 3 document



ICCMC has recently published two Level 3 documents, which are both outcomes of ACF-funded projects;

1. Maintenance for leakage due to cracking in concrete structures – Guidelines for the Repair of Water-Leakage Cracks in Concrete Structures drafted by Dr Sankeun Oh, Seoul National University of Science and Technology, Korea, Dr Ekasit Limswan, Chulalongkorn University, Thailand, Dr Jongsung Sim, Hanyang University, Korea,

and Dr Takafumi Noguchi, The University of Tokyo, Japan
2. Seismic Assessment and Retrofit – Guidelines for the Seismic Assessment and Retrofit of Concrete Structures drafted by Dr Hitoshi Kumagai, Shimizu Corporation, Japan, Dr Shigehiko Sato, Yamanashi University, Japan, Dr Lap-Loi Chung, National Center for Research on Earthquake Engineering, Taiwan, and Shyh-Jiann Hwang, National Taiwan University, Taiwan.

Election of ICCMC Executive Committee Members

As the term of previous ICCMC office expired on June 30, 2010, the election of new ICCMC office for the next two years (July 1, 2010 - June 30, 2012) was conducted. As the result, Prof Taketo Uomoto, chief executive of Public Works Research Institute, Japan, was elected as the new Chairman. Prof Uomoto served as the chairman of ICCMC from 1998 until 2002, and he is now back in the position after Prof Ueda. The Executive Committee for the term '10-'12 will be run by the following members;

EC Members:

Chairman

Prof Taketo Uomoto, Public Works Research Institute, Japan

Vice-chairman (policy)

Prof Tan Kiang Hwee, National University of Singapore, Singapore

Vice-chairman (technical)

Prof Somnuk Tangtermsirikul, Thammasat University, Thailand

WG1 coordinator

Dr Jeffrey CL Chiang, University Tunku Abdul Rahman, Malaysia

WG2 coordinator

Dr Takafumi Noguchi, University of Tokyo, Japan

WG3 coordinator

Prof Hiroshi Yokota, Hokkaido University, Japan

WG4 coordinator

Dr Sanaul Chowdhury, Griffith University, Australia

Prof Taketo Uomoto, Shibaura Institute of Technology, Japan
Prof Ekasit Limswan, Chulalongkorn University, Thailand
Prof Zhao Tie-Jun, Qingdao Technological University, China
Prof Koji Takewaka, Kagoshima University, Japan

ICCMC publications



2001	ACMC 2001
	An example of design for seismic actions – performance examination of RC building designed according to the Architectural Institute of Japan (AIJ) Guidelines
	ACMC 2001, Vietnamese version
2004	Vietnam Construction Standard TCXDVN 318: 2004 - Concrete and Reinforced Concrete Structures - Guide to Maintenance
	Guidelines for Maintenance and Rehabilitation of Concrete Structures against Chloride Induced Deterioration
2005	The Standard Specification for Materials and Construction of Concrete Structures in Japan
2006	ACMC 2006
2007	Design for Fire Actions – Guidelines for the Design of Reinforced Concrete Buildings against Fire Actions
2009	Design for Seismic Actions – Guidelines for Designing Transverse Confinement Reinforcement of Reinforced Concrete Columns against Seismic Actions
2010	Maintenance for leakage due to cracking in concrete structures – Guidelines for the Repair of Water-Leakage Cracks in Concrete Structures
	Seismic Assessment and Retrofit – Guidelines for the Seismic Assessment and Retrofit of Concrete Structures

Taiwan	4
Thailand	7
Vietnam	1

Representative Member:

China	1
Indonesia	1
Japan	1
Vietnam	1

Corporate Member:

Japan	6
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Articles and news items submitted and published herein contain the opinions of the respective contributors. The ICCMC is not responsible for their accuracy or correctness.

Joining ICCMC

ICCMC membership is open to anyone interested in concretes. Visit our website (<http://www.iccmc.org/>) to apply on-line or write to Mrs Naoko Masaki (admin@iccmc.org) for more information.

As of November, 2010, ICCMC has 77 individual members from 15 countries/economies, 4 representative members from 4 countries, and 6 corporate members from 1 country;

Individual Member:

Australia	2
Bangladesh	1
China	9
India	6
Indonesia	3
Japan	28
Korea	9
Malaysia	3
Netherland	1
Pakistan	1
Philippines	1
Singapore	1

Application for Individual Membership

To apply for ICCMC membership, please send the following form to ICCMC secretariat via email or fax. Online application is also available from the ICCMC official website.

Online application: <http://www.iccmc.org/>

Email: admin@iccmc.org

Fax: +81-11-706-6218

Personal Information	
Honorific:	
Name	
Office address:	
City, zip code:	Country:
Phone:	Fax:
Email address:	
Academic Record:	
University or Institute:	
Year graduated:	Degree received:
Major subject:	
Employment Information:	
Present employer:	
Nature of work:	
Immediate past employer:	
Nature of work:	
Interested Working Group (please check) :	
<input type="checkbox"/> WG1 – Design	
<input type="checkbox"/> WG2 – Materials and Construction	
<input type="checkbox"/> WG3 – Maintenance	
<input type="checkbox"/> WG4 – Editorial	