



ICCMC full committee meeting, 9 November, 2008,
Ho Chi Minh City, Vietnam

Minutes of International Committee on Concrete Model Code for Asia Annual General Meeting

November 9, 2008, Rex Hotel, Ho Chi Minh City, Vietnam

Participated members:

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| 1. Prof Tamon Ueda, chairman | Hokkaido University, Japan |
| 2. Prof Somnuk Tangtermsirikul, vice-chairman | SIIT, Thammasat University, Thailand |
| 3. Assoc. Prof Jeffrey CL Chiang, WG1 coordinator | University Tunku Abdul Rahman, Malaysia |
| 4. Dr Takafumi Noguchi, WG2 coordinator | University of Tokyo, Japan |
| 5. Dr Hiroshi Yokota, EC member | Port and Airport Research Institute, Japan |
| 6. Dr Luong Duc Long | Vietnam Institute for Building Materials, Vietnam |
| 7. Dr Nguyen Tien Dich | Vietnam Concrete Association, Vietnam |
| 8. Dr Le Quang Huang | Vietnam Concrete Association, Vietnam |
| 9. Dr Umesh Kumar Sharma | Indian Institute of Technology Roorkee, India |
| 10. Dr Takuya Hasegawa | Hokkaido University, Japan |
| 11. Dr Keishiro Iriya | Obayashi Corporation, Japan |
| 12. Dr. Hitoshi Kumagai | Shimizu Corporation, Japan |
| 13. Dr Kohei Nagai | University of Tokyo, Japan |
| 14. Dr Shoichi Ogawa | Taiheiyo Cement Corporation, Japan |
| 15. Prof Hiroshi Shima | Kochi University of Technology, Japan |
| 16. Dr Seong Tae Chae | Korea Institute of Construction Materials, Korea |
| 17. Dr Bong Chun Lee | Korea Institute of Construction Materials, Korea |
| 18. Dr Jae Heum Moon | Korea Institute of Construction Materials, Korea |
| 19. Prof Sang Keun Oh | Seoul National University of Technology, Korea |
| 20. Dr Lap-Loi Chung (on behalf of Prof Hwang) | National Center for Research on Earthquake Engineering (NCREE), Taiwan |
| 21. Prof Ekasit Limsuwan | Chulalongkorn University, Thailand |
| 22. Dr Withit Pansuk | Chulalongkorn University, Thailand |
| 23. Dr Suvimol Sujjavanich | Kasetsart University, Thailand |
| Observers: | |
| 24. Dr Tong Van Nga | Vietnam Concrete Association, Vietnam |
| 25. Prof Jay Jang-Ho Kim | Yonsei University, Korea |
| 26. Dr Nobuyuki Matsumoto | Railway Technical Research Institute, Japan |
| 27. Prof Kenji Sakata | Japan Concrete Institute, and Okayama University, Japan |
| 28. Dr Chalermchai Wattanalamlerd | Thammasat University, Thailand |
| 29. Dr Raktipong Sahamitmongkol | Thammasat University, Thailand |
| 30. Dr Pakawat Sancharoen | Thammasat University, Thailand |
| Administrative manager: | |
| 31. Ms. Naoko Masaki | Hokkaido University, Japan |



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November 9, 2008 (Room 7)

1. Welcome and self introduction by members

ICCMC Chairman, Prof Ueda, called the meeting to order at 13:30. Participants introduced themselves.

2. Approval of the minutes of last meeting and the draft agenda (see attached files: “1. Minutes of Taipei Meeting”, “2. Draft agenda”)

The circulated minutes of the last meeting was approved. The draft agenda was adopted.

3. Appointment of drafting committee

Dr. Raktipong Sahamitmongkol and Ms Naoko Masaki were appointed as a drafting committee of the minutes.

4. Review on committee activities (see attached files: “3. Committee Activities since Taipei Meeting”)

Prof Ueda gave a review on committee activities since the last meeting in Taipei. He introduced that the ICCMC Newsletter Vol.9 has recently been published. A copy of the newsletter was distributed to each participant. Recent promotional activities, relation with other international organizations such as ISO/TC71, ACF and *fib*, and the result of EC election were informed.

5. Updated information related to technical matters (see attached file : “4. Report for Hochiminh meeting 2008”)

ICCMC Vice-chairman, Prof Somnuk, updated information related to ACMC. He summarized the record of past publications of ACMC Level 1, 2 and 3 documents. He also reiterated that there are two types of L3 document, viz. 1) National/Regional Code and 2) Technical Reference. The ACMC was published twice, in 2001 and 2006, and five L3 documents were published including one National/Regional code (NRC) and four Technical References (TR). He also introduced a future plan of publication of L3 documents, such as “Design for Seismic Action (by Dr Sharma) and “Thai National Code on Materials and Construction (by Prof Somnuk)”. There was a discussion about the structure of ACMC. Currently ACMC has three levels, L1, L2 and L3, but some members suggested that the current structure may cause confusion. Some members insisted that, in the next ACMC, L1 and L2 should be merged as an “umbrella code” and ACMC should consist of two levels. Further discussions are needed on this matter.

6. Updated information related to policy (see attached file “Report of Vice chairman (policy) ”)

Due to the absence of Vice-chairman on policy (Prof Song), Prof Ueda briefly introduced the updated information related to the activities on ISO and ACF. Two working groups (WG3 and WG4) were established in ISO/TC71/SC7; 1) WG3 on repair of leakage due to cracks (convener; Prof. Sang Keun Oh) and 2) WG4 on repair of damage due to earthquake (convener; changed from Dr Dradjat Hoedajanto to Prof Masaomi Teshigawara). Besides ICCMC’s strategy related to SC7, activities on SC4, SC3 and SC8 were informed.

As for the activities related to ACF, ICCMC is currently a representative member under category C. Prof Oh prepared an interim report on “Maintenance for Leakage due to Cracking “, and Prof Hwang and Dr Kumagai prepared an interim report on “Assessment and Intervention for Seismic Damage” for ACF funded TGs. Each TG is scheduled to report the progress of their work at ACF 4th EC meeting held on Nov. 10, 2008. Prof Ueda also announced that the merger of ACF and ICCMC will be discussed during the ACF/EC meeting this time. Many members agreed on the concept of the merger, but at the same time many members suggested that long term strategy regarding the political and financial matters of ICCMC and ACF should be examined carefully. Some members also pointed out that, in order to get funds from other organizations, more promotional activities should be conducted.



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7. Updated information on WG1 activity (see attached file “WG1 – ICCMC Meeting HCM2008”)

WG1 Coordinator, Dr Chiang, gave a report on WG1 activities. Regarding “L3 regional standard document on normal actions based on Eurocode EC2” and “L3 regional standard document on wind actions based on MS 1553 2002” drafted by Dr Chiang, the work to re-format and upgrade them to L3 documents is ongoing. The revising process of “L3 technical reference document on design for RC columns for ductility” submitted by Dr Sharma is also ongoing. “Seismic design of reinforced concrete structures in Japan”, “Seismic performance evaluation based on new Japanese performance-based design code for buildings”, “Dynamic analysis and design for high-rise RC structures”, and “Seismic performance evaluation based on the Japanese standard specification for concrete structures” are led by Japanese members and the drafting work is ongoing. “Seismic evaluation and retrofit of existing and damaged reinforced concrete buildings in Japan” is a TG project funded by ACF and the report will be presented during the ACF conference this time. Some other new projects are planned as future activities. Dr Chiang also proposed that ICCMC may have opportunity to conduct promotional activities during International Conference on Earthquake in Taipei in Sept/Oct 2009, IABSE Symposium, Bangkok in Sept 2009 and International Conference on Construction Materials (Performance Innovation & Structural Implications), Nagoya in Aug 2009.

8. Updated information on WG2 activity (see attached file “WG2 Report for Ho Chi Minh meeting ”)

WG2 Coordinator, Dr Noguchi, gave a report on WG2 activities. WG2 drafted the L2 document on “Precast Concrete” and sent it to EC members for comment, but has got a very few response. This will be proceeded to the next step soon. Besides the L2 document on “Precast Concrete”, WG2 is working on several L3 documents; 1) Self-compacting Concrete (Category TR, by Japanese local committee), 2) High-strength Concrete (Category TR, by Korean group), 3) Probabilistic Performance-based Mixture Design for High-performance Concrete (Category TR, by Korean group), 4) Recycled Concrete (Category TR, by Taiwan group), 5) Statistical Survey on Materials and Concrete (Category TR, by Dr Noguchi as a new ACF Task Group), 6) Thailand National Code on Materials and Construction (Category NRC, by Prof Somnuk), and 7) Philippine National Code (Category NRC, by Dr Austriaco). Besides these, the Japanese local committee is discussing on the preparation of “Mass concrete” as the Level 3 document from WG2, which is categorized in the Technical Reference (TR). Further discussion is needed within the Japanese group. Dr Jay Jang-Ho Kim gave a report on Probabilistic Performance-based Mixture Design for High-performance Concrete, and Prof Somnuk Tangtermsirikul gave a report on Thailand National Code.

9. Updated information on WG3 activities (see attached files; “MM-WG3 (HCMC)”)

On behalf of WG3 Coordinator (Prof Takewaka), Dr Yokota gave a report on WG3 activities. WG3 is working on several L3 documents; 1) "Maintenance and rehabilitation of concrete structures against carbonation-induced deterioration" (category TR, by Japanese group), 2) English translation of Korean National code on maintenance (category CE, by Korean group), and 3) Maintenance Standard for Concrete Structures in Thailand (category CE, by Thai group) As for the L3 on "Maintenance and rehabilitation of concrete structures against carbonation-induced deterioration", final version has been submitted to EC and Editorial members for comment, and comment has been collected already. It will be printed and published by the end of March 2009. There's no progress report on L3 document from Korean group, and a discussion on a shortened and simplified version of the Thailand Standard was done in the meeting. The WG3 plans to collect the information on current available inspection/investigation techniques for existing structures during maintenance work in each member country. This survey may be executed concurrently with the new ACF funded TG activity led by Dr Noguchi if it is approved (see Minutes No. 14).

10. Report on ACF funded TG “Maintenance for Leakage due to Cracking” (see attached file: “2008_ACF_TG2_Report”)

ACF/TG2 Coordinator, Prof Oh, gave a report on ACF funded TG “Maintenance for Leakage due to Cracking” based on his report “2008_ACF_TG2_Report”. This report is to make a guideline for a successful and effective repairing



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plan of water-leakage cracks in concrete structure. It is developed for countries that do not have existing guideline on this subject and to be offered to any local regulatory authorities. It could be more developed by the authorities in each member country. Further information can be seen in the report prepared by Prof Oh. This report will be presented during the ACF meeting on the following day.

11. Report on ACF funded TG “Assessment and Intervention for Seismic Damage” (see attached files: “Seismic Assessment Retrofit”)

On behalf of the joint team from Taiwan and Japan, Dr Kumagai gave a report on ACF/TG3 “Assessment and Intervention for Seismic Damage”. This work has been done jointly by TCI task group led by Prof Hwang and JCI task group led by Prof Shima.

Further information can be seen in the report prepared by Dr Kumagai. This report will be presented during the ACF meeting on the following day. Extension of the period of project was discussed. It was concluded that the group members need to discuss more about the possibility of extension.

12. Report on ICCMC funded project “Index-based requirement for durability design of concrete bridges” (see attached files; “mid-term report project ICCMC”)

On behalf of the project coordinator (Dr Li Kefei), Prof Ueda briefly introduced the report prepared by Dr Li Kefei. Dr Li’s project is about the index-based requirement for durability design of concrete bridges, and the project is now at the end of the first year of 2 years project. Dr Chiang suggested that this project should cover buildings as well as bridges, so that it can be more comprehensive.

13. A. M’s report on ICCMC office matters (see attached file: “WG member list” and “AM Financial report”)

Administrative Manager, Ms Masaki updated the information on ICCMC office matters. The WG member list was updated, and the financial report was presented. Further information can be seen in “WG member list” and “AM Financial report” files. As it was concluded that the ICCMC’s financial condition is going to be even more severe next year, there was a discussion on how to improve the situation. Dr Noguchi explained the situation of the grant by Japanese government for the ISO related activities. Prof Kim suggested that ICCMC should create some kinds of programs to solicit corporate donation, so that companies will understand the meaning of their donation. Prof Ueda emphasized that promotional activity is one of the most important activities to raise fund. He also pointed out that ICCMC members can invite delegates from private companies to attend the meeting and/or promotional events so that they can understand the activities of ICCMC and consider the possibility of donation.

14. Proposal of new ACF-funded TG (1) (see attached file: “ACF TG Activity Proposal on Survey”)

Dr Noguchi gave a proposal on the new TG funded by ACF of which theme is “Survey on statistical data of constituent materials and production of concrete in Asian countries”. The purpose of this proposed TG is to provide useful information for environmental consideration of concrete and concrete structures, so that the data can be used for consideration to minimize environmental impact such as CO₂ emission and waste disposal in concrete industries. Some members pointed out that the situation of collectable data can be different depending on each country. Dr Matsumoto suggested that Dr Noguchi’s proposal could be merged with another proposal entitled “Survey for the situation of concrete and qualification systems for concrete engineers in Asia”, which is submitted by Dr Ouchi, Kochi Institute of Technology. Dr Noguchi will ask Dr Ouchi whether or not he can join ICCMC, and combine the two proposals into an ICCMC activity.

15. Proposal of new ACF-funded TG (2) (see attached file: “ACF TG Activity Proposal on Complete ACMC”)

Prof Ueda gave a proposal on the new TG funded by ACF entitled “Drafting Complete Set of Level 3 Documents for ACMC”. This proposal is to draft the level 3 documents of Part 1 (Design), Part 2 (Construction) and Part 3 (Maintenance) of ACMC. The drafting of complete set of level 3 documents has been, in fact, the main agenda of



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ICCMC since the development of ACMC in 2001. The intention of this proposal is to introduce how the real performance-based L3 document in accordance with ACMC is like, not introducing a specific case. Some members suggested that the current Level 1 and Level 2 documents could be merged into 1 level, so that ACMC could have two levels, distinguishing as “umbrella code” and “common code”.

*Including the above two proposals from ICCMC, ACF had received four proposals, and chose the two proposed by ICCMC at its EC meeting on the following day. The proposal by Dr Noguchi was approved with the condition of combining it with the proposal by Dr Ouchi.

16. Next meeting

The next ICCMC full-meeting will be held in September, 2009 in Bangkok, Thailand on the conjunction with IABSE Symposium. Detailed schedule will be decided by Thai group in accordance with their convenience.

17. Other matter

Administrative Manager, Ms Masaki, raised an issue about the Newsletter. Since Dr Werawan resigned from WG4, no chief editor has been working for the Newsletter, which makes the publication very difficult. If no one else is going to become a new chief editor, ICCMC may have to stop publishing the Newsletter. After some discussion, it was concluded that each Coordinator from WG1 to WG3 would be responsible for at least one contribution from his own WG members (one from each WG means three contributions from three WGs), Chairman and two Vice-chairmen will be responsible for a contribution among three of them (one contribution from Chairman or one of the Vice-chairmen), and members from the countries which have more than 5 members (currently it means Japan, Korea, China, Thailand and India) will be responsible for a contribution from anyone in the above countries (one contribution from either country). Administrative Manager will be responsible for the administrative articles, and she will collect the contributions to finalize the editorial work.

Prof Ueda expressed the gratitude to the Vietnam group, especially Prof Dich for the kind meeting arrangement on behalf of the full committee meeting of ICCMC and adjourned the meeting at 20:30.

Prepared by Ms Naoko Masaki, administrative manager of ICCMC, and Dr Raktipong Sahamitmongkol, Construction and Maintenance Technology Research Center (CONTEC), Thammasat University, Thailand

