ISO/TC 71
20th PLENARY MEETING
Concrete, Reinforced Concrete, and Prestressed Concrete
January 28-31, 2014
The University of New South Wales (UNSW)
Sydney, Australia
Major Sponsors for the 20th Plenary meetings of ISO/TC 71

ISO / TC 71 / SECRETARIAT
ANSI – USA

20th PLENARY MEETING of ISO/TC 71
Hosted by Standards Australia

Delegates of the 20th Plenary Meetings of ISO/TC 71
The University of New South Wales (UNSW)
January 28-31, 2014
Sydney, Australia

Cover photo courtesy: Ethan Rohloff; Destination NSW
Welcome

It is my pleasure to extend a warm welcome to you as delegates representing your country at the 20th Plenary Meeting of ISO/TC 71, January 28-31, 2014, Sydney, Australia. This Plenary meeting is being hosted by Standards Australia. Over 85 delegates from over 20 countries are expected to attend the 20th plenary meeting of ISO/TC 71.

Since assuming the Secretariat of ISO/TC 71—Concrete, Reinforced Concrete, and Prestressed Concrete—in 1993, ACI, in collaboration with ANSI, has worked with other national standards bodies to develop consensus documents of the International Organization of Standards (ISO). I am pleased to report that there are currently 92 member countries involved in the work of ISO/TC 71, with 36 participating countries and 56 observing countries.

Previously, ACI organized the 6th plenary meeting in San Francisco (August 1995); the 7th plenary meeting in Bogotá, Colombia (September 1998); the 8th plenary meeting in Tokyo, Japan (September 2000); the 9th plenary meeting in Norway (August 2001); the 10th plenary meeting in Dundee (September 2002); the 11th plenary meeting in Sydney (July 2003); the 12th plenary meeting in Istanbul, Turkey (September 2004); the 13th plenary meeting in Seoul, Korea (November 5, 2005); the 14th plenary meeting in Salvador, Brazil (May 29-June 01, 2007); and the 15th plenary meeting in Los Angeles, California, USA (March 26-29, 2008); the 16th plenary meeting in Cario, Egypt (February 9-12, 2009); the 17th plenary meeting in Cartagena, Colombia (September 20-23, 2010); the 18th plenary meeting in Hong Kong, China (June 20-23, 2011); and the 19th plenary meeting in San Jose, Costa Rica (June 19-22, 2012).

These plenary meetings have been instrumental in stimulating progress of the work of ISO/TC 71 and improved communications between its subcommittees. The seven active subcommittees of ISO/TC 71 are:

- ISO/TC 71/SC 1—Test Methods for Concrete; Secretariat: Israel, Standards Institute of Israel (SII);
- ISO/TC 71/SC 3—Concrete Production and Execution of Concrete Structures, Secretariat: Norway, Standards Norway (SN);
- ISO/TC 71/SC 4—Performance Requirements for Structural Concrete; Secretariat: United States, ACI/ANSI;
- ISO/TC 71/SC 5—Simplified Design Standard for Concrete Structures; Secretariat: Colombia, Instituto Colombiano de Normas Técnicas y Certificación (ICONTEC);
- ISO/TC 71/SC 6—Nontraditional Reinforcing Materials for Concrete Structures; Secretariat: Japan, Japanese Industrial Standards Committee (JISC);
- ISO/TC 71/SC 7—Maintenance and Repair of Concrete Structures; Chair from Japan, Secretariat: Korea, Korean Agency for Technology and Standards (KATS); and
- ISO/TC 71/SC 8—Environmental Management of Concrete Structures, Secretariat: Japan, Japanese Industrial Standards Committee (JISC).

On behalf of the organizers, I extend a warm welcome to Sydney, Australia, and wish you a very successful meeting.

Mr. James R. Cagley
Chair, ISO/TC 71
Invited Dignitaries and Speakers

Dr. Bronwyn Evans
CEO Standards Australia

In October 2013, Dr. Bronwyn Evans took on the role as CEO Standards Australia. She recently held the position of Senior Vice President, Quality, Clinical and Regulation, with Cochlear Limited, reporting to the CEO. She has over 30 years of experience as an engineering executive in the areas of power generation, engineering education, standards creation, and medical devices.

She is the Chair of the Advisory Board for Robogals and Chair of the National Board of the Centre for Engineering Leadership and Management. In 2011, Evans joined The Warren Centre for Advanced Engineering as a Director.

Evans has previously held positions as an Independent Nonexecutive Director of John Holland Limited, Chair of the Medical Technology Association of the Australia Board and member of the University of Wollongong SECTE Advisory Board.

Evans is a Fellow of The Institution of Engineers Australia, a Fellow of the Australian Academy of Technological Sciences and Engineering, and an Honorary Fellow of the University of Wollongong. In 2013, Evans was named the EA Sydney Division Professional Engineer of the Year. She is also a graduate of the Australian Institute of Company Directors.

Evans received her BE (Elec) and PhD in electrical engineering from the University of Wollongong in the field of industrial automation.

Fiona Docherty
Pro-Vice Chancellor (International)
University of New South Wales (UNSW)

Fiona Docherty joined UNSW in August 2012 as Pro-Vice-Chancellor (International), having spent 3 years at the University of Glasgow, a world top-100 university, as International Director & Head of Student Recruitment. Docherty played a leadership role in the development of the university’s Internationalisation Strategy by recruiting international students; forging influential research- and knowledge-exchange networks; fostering a strong international staff and community on campus; harnessing the support of alumni; working with government, business, and the community on international issues; and promoting the reputation of the university overseas.

A Glasgow alumna, Docherty spent over 10 years with one of the UK’s most successful family businesses, Bettys & Taylors of Harrogate, and, at the age of 29, became the youngest director of this award-winning catering, retail, and manufacturing business. For 5 years following, she worked in the tourism sector as Head of Visitor Services & Business Development at Historic Scotland, where she was responsible for all aspects of the visitor experience at Scotland’s best-loved heritage attractions, including Edinburgh Castle.

Throughout her career, Docherty has served on a range of committees, including the Tea Sourcing Partnership, formed to set the industry standard for sourcing tea ethically; Business in the Community’s taskforce on cause-related marketing; the Historic Properties Group, established to promote increased collaboration across the sector; and Universitas 21, the leading global network of research-intensive universities.
List of Delegates

Philip Blundy  
AUSTRALIA

Sofia Maria Diniz  
BRAZIL

Gil Brock  
AUSTRALIA

Luiz Carlos Pinto Silva Filho  
BRAZIL

Jim Forbes  
AUSTRALIA

Moe S. Cheung  
CANADA

Stephen Foster  
AUSTRALIA

Yin Chi  
CHINA

Ian Gilbert  
AUSTRALIA

Shimiao Ding  
CHINA

Stephen Manwarring  
AUSTRALIA

Xiang Yan Guo  
CHINA

Priyan Mendis  
AUSTRALIA

Tingyu Hao  
CHINA

Suely Bueno  
BRAZIL

Yang Xiao Hong  
CHINA

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### List of Delegates

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Huang Zhi Jiu</td>
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<td>Xie Yong Jiang</td>
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<td>Du Lei</td>
<td>China</td>
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<td>Wang Ling</td>
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<td>Zhao Ping</td>
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<td>Yougjiang Xie</td>
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<td>Shi Yun Xing</td>
<td>China</td>
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<td>Lihua Xu</td>
<td>China</td>
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<td>Huang Zhijiu</td>
<td>China</td>
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<td>Erika Milena Gomez</td>
<td>Colombia</td>
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20th Plenary Meeting of ISO/TC 71
January 28-31, 2014 • The University of New South Wales • Sydney, Australia

List of Delegates

Sanjay Pant
INDIA

Jian-Guo Dai
JAPAN

Srinivasan Parthasarathy
INDIA

Toshiyuki Kanakubo
JAPAN

Pradeep Kumar Ramancharla
INDIA

Kenji Kawai
JAPAN

Murari Ratnam
INDIA

Yoshinori Kitsutaka
JAPAN

Mony Ben-Bassat
ISRAEL

Takafumi Noguchi
JAPAN

Sigal Rosenfeld
ISRAEL

Koji Sakai
JAPAN

Joseph Yossi Sikuler
ISRAEL

Tamon Ueda
JAPAN

Paolo Negro
ITALY (JRC-EC)

Taketo Uomoto
JAPAN

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List of Delegates

Hiroshi Yokota  
JAPAN

Ki Yong Ann  
KOREA, REPUBLIC OF

Chang-U Chae  
KOREA, REPUBLIC OF

Donguk Choi  
KOREA, REPUBLIC OF

Hyun Kyu Choi  
KOREA, REPUBLIC OF

Oan-Chul Choi  
KOREA, REPUBLIC OF

Sung Min Choi  
KOREA, REPUBLIC OF

Young Kue Choi  
KOREA, REPUBLIC OF

Manyop Han  
KOREA, REPUBLIC OF

Shocky Han  
KOREA, REPUBLIC OF

Sung Keun Jung  
KOREA, REPUBLIC OF

Young-Jin Kwon  
KOREA, REPUBLIC OF

Jae-Hoon Lee  
KOREA, REPUBLIC OF

Ki Yong Lee  
KOREA, REPUBLIC OF

Sang Keun Oh  
KOREA, REPUBLIC OF

Cheolwoo Park  
KOREA, REPUBLIC OF
### List of Delegates

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<thead>
<tr>
<th>Delegate</th>
<th>Country</th>
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<tr>
<td>Jong Ho Park</td>
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<td>Min Yong Park</td>
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<td>Byung Jun Shin</td>
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<td>Hyun Gyoo Shin</td>
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<td>Soobong Shin</td>
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<td>Jongsung Sim</td>
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<td>Tae hyeob Song</td>
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<td>Meng Chor Hee</td>
<td>Malaysia</td>
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<td>Mirko Balabusic</td>
<td>Montenegro</td>
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<td>Gabriel O. O. Adejola</td>
<td>Nigeria</td>
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<td>Benjamin D. Akintayo</td>
<td>Nigeria</td>
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<td>Ninaji G. Ekene</td>
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<td>Opeyemi M. Ibiyoye</td>
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<td>Abdulai A. Ikukoyi</td>
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<td>Adisa Kareem</td>
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<td>Agaemeole N. Uchenna</td>
<td>Nigeria</td>
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List of Delegates

Jan Karlsen  
NORWAY

Steinar Leivestad  
NORWAY

Vivian Meløysund  
NORWAY

Sami Al-Ghamdi  
SAUDI ARABIA

Thierry Berset  
SWITZERLAND

Johanes M. Maganga  
TANZANIA, UNITED REPUBLIC OF

Ekasit Limsuwan  
THAILAND

James R. Cagley  
USA

Tracy D. Marcotte  
USA

Scott Smith  
USA

James K. Wight  
USA

Greg Zeisler  
USA
Special Thanks to our 2014 Hosts

**Standards Australia (SA) - 20th Plenary Meeting Host**

**Karine Naud**  
*Project Manager – Standards Australia*

**Alison Scotland**  
*National Sector Manager – Standards Australia*

**Adam Stingemore**  
*Head of Stakeholder Engagement – Standards Australia*

**Philip Wood**  
*Program Manager – Standards Australia*

**Eliza Young**  
*Event Coordinator – Standards Australia*

**The University of New South Wales (UNSW) - 20th Plenary Meeting Venue Host**

**Irene Calaizis**  
*CIES Centre Manager – The University of New South Wales - UNSW Australia*

**Patricia Karwan**  
*CIES Administrative Officer – The University of New South Wales - UNSW Australia*
20th PLENARY MEETING of ISO/TC71

WORKSHOP INVITATION

“Robustness of Concrete Structures”

You are invited to attend the workshop of international speakers which has been arranged by meeting sponsor: CIES

Centre for Infrastructure Engineering & Safety

Tuesday 28th January 2014

UNSW Scientia Building (G19) in the Ritchie Theatre

@ UNSW, Kensington Campus

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<th>Topic / Presenter</th>
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<td>09:30am - 09:40am</td>
<td>Welcome / Introduction</td>
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</table>
| 09:40am - 10:20am  | “Use of High-Performance Fiber-Reinforced Concrete in Design of Shear Wall Coupling Beams for Earthquake Resistance”  
                       | Professor James Wight  
                       | F.E. Richart, Jr. Collegiate Professor of Civil and Environmental Engineering, University of Michigan |
| 10:20am - 11:00am   | "General Approach for Design of Concrete Structures Strengthened by FRP Composites"  
                       | Professor Tamon Ueda  
                       | Faculty of Engineering, Hokkaido University, Japan |
| 11:00am - 11:30am   | Morning Tea                                                                     |
| 11:30am - 12:10pm   | "Concrete Durability of Industrial Buildings in Typical Erosive Environment"  
                       | Professor Ting-Yu Hao  
                       | Central Research Institute of Building and Construction, China |
| 12:10pm - 12:50pm   | “Capacity Reserves in RC Framed Structures due to Membrane Action”  
                       | Professor Stephen Foster  
                       | Head of School, Civil and Environmental Engineering, UNSW Australia. |
| 12:50pm - 01:00pm   | Close                                                                           |

Participation is FREE

Please register your interest in attending this workshop via email to Irene Calaizis: i.calaizis@unsw.edu.au
# PROGRAM

**20th PLENARY MEETING of ISO/TC71**

January 28-31, 2014

The University of New South Wales (UNSW)

High St, Kensington NSW 2052, Australia

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<tr>
<td>Tuesday</td>
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<tr>
<td><strong>ALL SUBCOMMITTEE MEETINGS WILL BE HELD IN THE UNSW – CIVIL &amp; ENVIRONMENTAL ENGINEERING BUILDING (H20) RECEPTION DESK LOCATED IN BUILDING (H20) – MAIN ENTRANCE – GROUND LEVEL</strong></td>
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<td><strong>09:00 – 13:00 hrs</strong></td>
<td>WORKSHOP «Robustness of Concrete Structures»</td>
<td>ISO/TC 71/SC3</td>
<td>ISO/TC 71/SC8</td>
<td>ISO/TC 71 Plenary Meeting</td>
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<td>UNSW Scientia Bldg (G19)</td>
<td>H20 Civil Engr Bldg-Rm 701</td>
<td>H20 Civil Engr Bldg-Rm 501</td>
<td>Plenary Meeting</td>
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<td>Ritchie Theatre</td>
<td>(Concrete Production and Execution for Concrete Structures)</td>
<td>(Environmental management of Concrete and Concrete Structures)</td>
<td>Morning Session</td>
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<td>*Registration 9:00 am</td>
<td>ISO/TC 71/SC4</td>
<td>ISO/TC 71/SC5</td>
<td>UNSW John Niland Scientia Bldg Leighton Hall</td>
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<td></td>
<td>Presenters: Dr. James Wight</td>
<td>H20 Civil Engr Bldg-Rm 403</td>
<td>ISO/TC 71/SC6</td>
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<tr>
<td></td>
<td>Prof. Tamon Ueda</td>
<td>(Harmonization of Performance Requirements for Concrete Structures)</td>
<td>H20 Civil Engr Bldg-Rm 501</td>
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<td>Prof. Ting-Yu Hao</td>
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<td>ISO/TC 71/SC7</td>
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<td>Prof. Stephen Foster</td>
<td>(Non Traditional Reinforcing Materials for Concrete Structures)</td>
<td>H20 Civil Engr Bldg-Rm 701</td>
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<td>*See Workshop Program for Presenter’s Topics</td>
<td>ISO/TC 71/SC3</td>
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<td>13:00 – 14:00 hrs</td>
<td>Wednesday – Thursday: lunch will be catered directly to your subcommittee meeting rooms</td>
<td>H20 Civil Engr Bldg-Rm 701</td>
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<td>14:00-18:00 hrs</td>
<td>ISO/TC 71/SC1</td>
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<td>(Concrete Production and Execution for Concrete Structures)</td>
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<td>(Test Methods for Concrete)</td>
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