Program

[First day]
1. Keynote Lecture  Lionel LINGER, Vinci Construction
2. Invited Lectures
   - Jean-Michel TORRENTI, IFSTTAR
   - François TOUTLEMONDE, IFSTTAR
   - Bruno GODART, IFSTTAR
   - Farid BENBOUDJEMA, ENS de Cachan
   - Stéphanie STAQUET, Université Libre de Bruxelles
   - Miguel AZENHA, University of Minho
   - JCI mass concrete committee members
3. Technical Exhibition
   Technical exhibition will be held in parallel with lectures and oral presentations at the place close to the Convention Hall.

[Second day]
1. Keynote Lecture  Tada-aki TANABE, Prof. Emeritus of Nagoya University
2. General Presentation (Call for papers)
   Sixteen oral presentations are planned.
3. Technical Exhibition
   Technical exhibition will be held in parallel with lectures and oral presentations at the place close to the Convention Hall.

[Third day]
1. Excursion (Details have not been decided)

Call for Abstracts
Prospective authors are invited to submit abstracts via email by April 30th 2016. (CONCRACK5.Paper@gmail.com)
Abstracts should have a length within 400 words and must relate to the intent of the conference as outlined. Please use Times New Roman 12 Font size and need to be written in clear English. Notifications of acceptance will be sent via email to the submitting author before May 31st 2016. Please use the template (see HP of the workshop) for your abstracts. Authors of accepted abstracts will receive instructions on the preparation of full-length papers. All submitted abstracts will be fully peer-reviewed by the Scientific Committee. Accepted papers will be published in the conference proceedings and authors will be required to give an oral presentation at the workshop.

Important dates

<table>
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<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Submission dead line of Abstract</td>
<td>Apr. 30th 2016</td>
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<tr>
<td>Notification of acceptance of Abstract</td>
<td>May 31st 2016</td>
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<tr>
<td>Submission dead line of full paper</td>
<td>Sep. 30th 2016</td>
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<tr>
<td>Notification of acceptance of full paper and/or request of modification</td>
<td>Nov. 30th 2016</td>
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<tr>
<td>Submission dead line of modified full paper</td>
<td>Jan. 31st 2017</td>
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Workshop themes
1. Creep under stress variation at early age
2. Temperature effect on autogenous shrinkage at early age
3. Temperature prediction due to hydration heat of cement
4. Mechanical properties of concrete in structural members at early age
5. Methods of mitigation of thermal cracking risk in research and in practice
6. Prediction methods of thermal stress and thermal cracking
7. Temperature effects on structural behavior
8. Guidelines of thermal cracking control
9. Prevention methods of delayed ettringite formation

Entry Fee
For members of JCI and/or RILEM: 40,000yen
For the others: 50,000yen

ConCrack5
JCI-RILEM International Workshop on "Control of Cracking of Mass Concrete and Related Issues Concerning Early Age Cracking of Concrete Structures"

April 24th to 26th, 2017
Tokyo, JAPAN

Contact
E-mail: kanazu@ceresco.jp
Website: http://www.jci-net.or.jp/~concrack5/index.html
### Details and Objective

Japan Concrete Institute (JCI) published "Guidelines for Control of Cracking of Mass Concrete" in 1986, which systematized the control technologies of thermal cracking of mass concrete in design and construction practice, considering a large influence of thermal cracking on durability of mass concrete structures. It was revised in 2008 as "Guidelines for Control of Cracking of Mass Concrete 2008" which included the advanced technologies on control of thermal cracking in material, design and construction fields in two decades since 1986. Further activity for revising the guidelines has been continued.

The French joint Consortium CEOS.fr, of which IFSTTAR has been an active member, has been conducting a series of international workshops: ConCrack, where latest information exchange and discussion on control of cracking at early age of concrete were performed. The RILEM-JCI international workshop ConCrack3 was held in Paris in March 2012 on the basis of mutual understanding between RILEM and JCI that IFSTTAR intended to enhance estimation technologies of early age behavior of concrete and JCI intended to spread the control technologies of thermal cracking of mass concrete widely with the JCI guidelines, and memorized as a unique workshop by the participants. The proceedings (RILEM PRO 85) were published by RILEM with the support of IFSTTAR as local organizer. JCI's "Guidelines for Control of Cracking of Mass Concrete 2008" was issued and introduced for the first time in Europe.

JCI-RILEM international workshop "ConCrack5", which will be held in April 2017 in Tokyo, is planned as a succeeding workshop to ConCrack3 and is composed of two keynote lectures from Japan and Europe, the introductions of "Guidelines for Control of Cracking of Mass Concrete 2016", the results of research projects performed by IFSTTAR, the activities of CEOS.fr, COST TU 1404 project and mass concrete committee of RILEM, and the presentations of the papers including the latest research results on early age behaviors of concrete. Prevention and protection procedures of DEF, which has not become obvious in Japan, as well as simple equation for estimating maximum temperature of concrete will be incorporated in "Guidelines for Control of Cracking of Mass Concrete 2016" as well as design values of physical properties of early age concrete and simple equations for thermal cracking index will be enhanced. ConCrack5 will be a helpful international workshop for the researchers and the engineers in mass concrete construction field through concentrated discussions, information exchanges and mutual understandings among the participants.

### Venue

Tokyo, Convention Hall of Institute of Industrial Science, The University of Tokyo