

# 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 30<sup>th</sup> 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 31<sup>st</sup> 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

|   |                |
|---|----------------|
| Submission dead line of Abstract  | Apr. 30th 2016 |
| Notification of acceptance of Abstract                                  | May 31st 2016  |
| Submission dead line of full paper                                      | Sep. 30th 2016 |
| Notification of acceptance of full paper and/or request of modification | Nov. 30th 2016 |
| Submission dead line of modified full paper                             | Jan. 31st 2017 |

## 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 24-th to 26-th, 2017  
Tokyo, JAPAN

 Japan Concrete Institute



## Contact

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Website: <http://www.jci-net.or.jp/~concrack5/index.html>

# Organization

## Organizing Committee

|    | Role        | Name                 | Affiliation  | Nation |
|----|-------------|----------------------|--|--------|
| 1  | Chairperson | Ryoichi SATO         | Hiroshima University   | Japan  |
| 2  | Co-chair    | François TOUTLEMONDE | French Institute of Science and Technology for Transport, Development and Networks | France |
| 3  | Secretary   | Tsutomu KANAZU       | CERES Inc.   | Japan  |
| 4  | Member      | Bruno GODART         | French Institute of Science and Technology for Transport, Development and Networks | France |
| 5  | Member      | Shunsuke HANEHARA    | Iwate University   | Japan  |
| 6  | Member      | Toshiharu KISHI      | The University of Tokyo  | Japan  |
| 7  | Member      | Shingo MIYAZAWA      | Ashikaga Institute of Technology   | Japan  |
| 8  | Member      | Toshiaki MIZOBUCHI   | Hosei University   | Japan  |
| 9  | Member      | Takafumi NOGUCHI     | The University of Tokyo  | Japan  |
| 10 | Member      | Jean-Michel TORRENTI | French Institute of Science and Technology for Transport, Development and Networks | France |
| 11 | Member      | Hiroshi WATANABE     | Public Works Research Institute  | Japan  |

## Advisory Committee

|   | Role   | Name                                 | Affiliation   | Nation  |
|---|--------|--------------------------------------|---|---------|
| 1 | Member | Georgy L. BALASZ                     | Budapest University of Technology and Economics   | Hungary |
| 2 | Member | John GAIDA                           | Chair of AC207, CTL Group   | USA     |
| 3 | Member | Ole Myhrbeck JENSEN                  | Department of Civil Engineering, Technical University of Denmark                        | Denmark |
| 4 | Member | Eduardus Aloysius Bernardus KOENDERS | Technical University Darmstadt  | Germany |
| 5 | Member | Konstantin KOVLER                    | Faculty of Civil and Environmental Engineering Technion, Israel Institute of Technology | Israel  |
| 6 | Member | David A. LANGE                       | Department of Civil and Environmental Engineering, the University of Illinois           | USA     |
| 7 | Member | Giuseppe MANCINI                     | Politecnico di Torino   | Italy   |
| 8 | Member | Geert De SCHUTTER                    | Department of Structural Engineering, Universiteit Gent                                 | Belgium |
| 9 | Member | Jeffrey WEST                         | Chair of ACI224, University of Waterloo   | USA     |

## Scientific Committee

|    | Role        | Name                 | Affiliation  | Nation   |
|----|-------------|----------------------|--|----------|
| 1  | Chairperson | Toshiaki MIZOBUCHI   | Hosei University   | Japan    |
| 2  | Co-chair    | Bruno GODART         | French Institute of Science and Technology for Transport, Development and Networks | France   |
| 3  | Secretary   | Ipppei MARUYAMA      | Nagoya University  | Japan    |
| 4  | Secretary   | Makoto TANIMURA      | Taiheyo Cement Corporation   | Japan    |
| 5  | Secretary   | Hiroshi UEDA         | Railway Technical Research Institute   | Japan    |
| 6  | Member      | Shingo ASAMOTO       | Saitama University   | Japan    |
| 7  | Member      | Miguel AZENHA        | Civil Engineering Department, the University of Minho                              | Portugal |
| 8  | Member      | Fatid BENBOUJDIEMA   | ENS Cachan   | France   |
| 9  | Member      | Eduardo FAIRBAIRN    | RILEM, Federal University Rio de Janeiro   | Brazil   |
| 10 | Member      | Shunsuke HANEHARA    | Iwate University   | Japan    |
| 11 | Member      | Akira Hosoda         | Yokohama National University   | Japan    |
| 12 | Member      | Keiichi IMAMOTO      | Tokyo Science University   | Japan    |
| 13 | Member      | Tsutomu KANAZU       | Ceres Inc.   | Japan    |
| 14 | Member      | Toshiharu KISHI      | The University of Tokyo  | Japan    |
| 15 | Member      | Konstantin KOVLER    | Israel Institute of Technology   | Israel   |
| 16 | Member      | Jacky MAZARS         | Emeritus Professor, Grenoble University  | France   |
| 17 | Member      | Shingo MIYAZAWA      | Ashikaga Institute of Technology   | Japan    |
| 18 | Member      | Maho NISHIOKA        | Shimizu Corporation  | Japan    |
| 19 | Member      | Takafumi NOGUCHI     | The University of Tokyo  | Japan    |
| 20 | Member      | Yasuichi OTABE       | Sumitomo Osaka Cement Co., Ltd.  | Japan    |
| 21 | Member      | Labbe PIERRE         | Electricité de France  | France   |
| 22 | Member      | Ryoichi SATO         | Hiroshima University   | Japan    |
| 23 | Member      | Stéphanie STAQUET    | Université libre de Bruxelles  | Belgium  |
| 24 | Member      | Jean-Michel TORRENTI | French Institute of Science and Technology for Transport, Development and Networks | France   |
| 25 | Member      | François TOUTLEMONDE | French Institute of Science and Technology for Transport, Development and Networks | France   |
| 26 | Member      | Daisuke TSUKISHIMA   | East Japan Railway Company   | Japan    |
| 27 | Member      | Yang YANG            | Zhejiang University of Technology  | China    |
| 28 | Member      | Kousuke YOKOZEKI     | Kajima Corporation, Japan  | Japan    |
| 29 | Member      | Hiroshi WATANABE     | Public Works Research Institute  | Japan    |

# 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

