Recent Progress and Events of Korea Concrete Institute

March 24, 2019

Jae-Yeol CHO Ph.D.

Chair
Planning & Administration Committee
Korea Concrete Institute

Professor
Dept. of Civil and Environmental Engr.
Seoul National University
Brief Insight about KCI

- Founded in 1989
- 11,106 members
- 9 staffs
- Hosts Spring and Fall Conventions
- Publish IJCSM (SCIE, bi-monthly)
- Responsible for revision of Structural Concrete Design Code and Construction Specification
New Presidentship

• Jae-Hoon LEE, PhD, PE

16th President (2019~2020)
Professor, Yeungnam University

- Vice President (2013~2014)
- Chair of Structural Design Code Committee
- Chair of Flexure-Compression Committee
Revision of KCI Design Code

• 4th revision
  
  1st edition published in 1999
  
  1st revision in 2003
  
  2nd revision in 2007
  
  3rd revision in 2012
  
  4th revision in 2018
### Korea Concrete Standard Specifications
- for civil structures except buildings
- by Korea Society of Civil Engineers
- Part 1. Design, 2. Construction
  - 1962 1st edition Issued (ASD)
  - 1968 1st revision - 2nd ed. (ASD, appendix USD)
  - 1983 3rd revision - 4th ed. (USD, appendix ASD)
  - 1996 5th revision - 6th ed.
  - 1999 Unified to KCI Design Code

### Korea Concrete Building Code
- by Architectural Institute of Korea
  - 1972 1st edition Issued (ASD)
  - 1977 1st revision - 2nd ed.
  - 1988 2nd revision (USD) - 3rd ed.
  - 1999 Unified to KCI Design Code

### Korea Structural Concrete Design Code (KCI Code)
- by Korea Concrete Institute
  - 1999 Unified edition (USD)
  - 2003 1st revision – 2nd ed.
Revision of KCI Design Code

- 4th revision
  1st edition published in 1999
  1st revision in 2003
  2nd revision in 2007
  3rd revision in 2012
  4th revision in 2018
Major Revisions in 2018

• Determination of **yielding point of rebars** considering the high-strength rebars
• **Exposure grades** in durability design considering Korea environments
• **Ultimate strain and stress distribution of concrete** considering high-strength concrete
• **Minimum amount of flexural reinforcement** considering the performance based design
Publication of English version of KCI Code

- ISO 19338 approved in 2010
  
  KCI Code (2007) was approved in ISO/TC71/SC4

- KCI Code (2012) has been translated in English
KCI 2018 Fall Convention

• November 7th ~ 9th, 2018
• PyeongChang
  2018 Winter Olympic Games held
• 911 attendees & 387 papers
KCI 2018 Fall Convention

• ACI at KCI Convention?

ACI President David Lange deliver a Keynote
KCI Foundation 30th Anniversary

• 2019 KCI Spring Convention
  May 8<sup>th</sup> ~ 10<sup>th</sup>, 2019
  Jeju Island

• Publish 30-year history of KCI

• Enactment of Concrete Day
  June 24<sup>th</sup> (KCI founded on June 24, 1989)
KCI @ ACI 2019 Spring Convention

• 00 attendee from Korea

• ACI-KCI-TCI Joint Sessions

  - Session Title: Advances in Construction, Evaluation, and Repair of Concrete Structures and Materials: International Perspectives with KCI and TCI

  - Moderator: Yail Jimmy Kim, Myoungsu Shin

  - Date & Time: Part 1 of 4 - March 25, 08:30 AM - 10:30 AM
  Part 2 of 4 - March 25, 11:30 AM - 01:30 PM
  Part 3 of 4 - March 26, 01:30 PM - 03:30 PM
  Part 4 of 4 - March 26, 04:00 PM - 06:00 PM
감사합니다.
Thank you
ありがとうございます
谢谢您
Merci
Se lo agradezco
Благодарю вас
شكرًا
La ringrazio
Xin đa tạ