Structural Engineers Association of Hawaii and Cement and Concrete Products Industry of Hawaii Present:

Design of Low Rise Reinforced Concrete Buildings

Date:  Friday Sept. 29, 2017 from 8:00 am to 4:00 pm (includes lunch)
7:30 am Check-in

Place:  TBD

Who:  Mike Mota, Ph.D., P.E., SECB, F.ASCE, F.ACI, F.SEI is the Vice President of Engineering for the Concrete Reinforcing Steel Institute (CRSI). Mike is responsible for the Technical Department and oversees the development of all technical publications and standards. He is a voting member of several ACI (318, 318B and 318R) and ASCE (7-16) committees and serves on the editorial board of STRUCTURE magazine.

The purpose of this seminar is to discuss design tools to assist in the analysis, design, and detailing of low-rise, reinforced concrete buildings in accordance with the 2014 edition of Building Code Requirements for Structural Concrete (ACI 318-14) and Commentary (ACI 318R-14) [ACI 2014]. One of the main goals is to provide step-by-step design procedures and design aids that makes designing and detailing reinforced concrete members simpler and faster. Although the focus is on low-rise buildings, which dominate the overall building market, many of the design aids and procedures can be used in the design and detailing of reinforced concrete members in any building regardless of size.

The 2015 edition of the International Building Code (IBC) [IBC 2015] references ACI 318-14, and Section 1901.2 of the IBC requires that structural concrete be designed and constructed in accordance with the provisions of Chapter 19 of the IBC and the 2014 edition of ACI 318 as amended in IBC Section 1905. Thus, ACI 318 is part of the IBC and its applicable provisions must be satisfied when the IBC is adopted in a jurisdiction.

It is important to note that ACI 318 provides minimum requirements for the materials, design, construction, and strength evaluation of structural concrete members and systems in any structure designed and constructed under the requirements of the general building code, such as the IBC. The purpose and applicability of the requirements in ACI 318-14 can be found in Sections 1.3 and 1.4 of that document, respectively.

In the analysis and design of certain structural members, the requirements of the 2016 edition of ASCE/SEI 7 Minimum Design Loads and Associated Criteria for Buildings and Other Structures (ASCE 2016) are used throughout this publication, wherever applicable.

The general principles of design and construction are essentially the same for any size building. Code requirements for analysis, design, and detailing are usually given in general terms, without regard to the overall size of a building. In the case of low-rise buildings, certain assumptions can often safely be made to simplify the overall design procedure. Such assumptions and other simplifying methods are contained in Chapters 2 through 5 of this publication.

Who should attend?  The seminar is designed for architects, engineers, and representatives from Public Agencies committed to providing plans and standards conforming to the best practices of today.
What is included?
Participant will receive a copy of the CRSI Low Rise Design Guide ($125 list price). Lunch and light refreshments.

Design of Low Rise Reinforced Concrete Buildings

Cost: $150/Attendee

Register online at our website @ www.ccpihawaii.org under the Event and Seminars Tab. Go to the Sept. 29, 2017 date for seminar information, flyer and registration page. Choose invoice for payment type and print invoice for payment. Payment may be made by check or credit card as noted below.

RSVP by Sept. 18, 2017

Email: kirk@ccpihawaii.org with questions.

Please mail check payable to CCPI Hawaii to:

2153 North King Street
Honolulu, HI 96819

Credit cards may also be accepted by calling Kirk at 848-7100.

Mahalo!