National Institute of BUILDING SCIENCES

An Authoritative Source of Innovative Solutions for the Built Environment

Building Seismic Safety Council

BSSC Updates

PUC Meeting

San Francisco, CA

April 4-5, 2018

nehrp

FEMA

- # BSSC sessions at Conferences

✓ **Structural Congress, April 21 (Saturday) , 8-9:30 am**

Greg Soules	Non-Building Structure Design
Peter Somers/John Hooper	Alternative Seismic Design Provisions for SDC B Buildings
Greg Soules	Design for Non-Structural Components

✓ **11NCEE Conference, Special Session, June 26 (Tuesday), 3:30-5 pm**

David Bonneville/Jiqiu Yuan	Progress on the 2020 NEHRP Recommended Seismic Provisions
Nico Luco	Pending Updates to USGS National Seismic Hazard Maps
Robert Pekelnicky	Seismic Performance Objectives
S.K. Ghosh	Updates on Modifications to Shear Wall Provisions
Kelly Cobeen	Updates on Modifications to Diaphragm Provisions

Online on-demand Training Courses

January 27, 2017

Design of Reinforced Concrete Structures Using the 2015 NEHRP Recommended Seismic Provisions was presented by Peter Somers. It provided a summary of the design standards, the basic ductile design principals for concrete and the specific seismic design criteria and provisions based on Seismic Design Category. Find out more. Download the Presentation. Take this course.

March 17, 2017

Seismic Design of Precast Concrete Structures was presented by SK Ghosh. This seminar introduced attendees to the alternative seismic design force level and the precast concrete design methodology. Introduction. Download the Presentation. Take this course.

April 21, 2017

Design of Seismic Force-Resisting Systems in Steel-Framed Buildings was presented by Rafael Sabelli. This webinar provided an introduction to design of seismic force-resisting systems in wood steel-framed buildings, intended to complement the design problems in Chapter 9 of the *FEMA P-1051 NEHRP Recommended Design Provisions: Design Examples.* Find out more. Download presentation. Take this course.

June 2, 2017

Seismic Design of Composite Steel and Concrete Structures was presented by Bob Pekelnicky. This presentation addressed one particular type of composite steel and concrete lateral force resisting system, the Composite Partially Restrained Moment Frame (C-PRMF). Find out more. Download: Introduction, Presentation. Take the course.

July 7, 2017

Design of Seismic Force-Resisting Systems in Wood Light-Frame Buildings was presented by Kelly Cobeen. This webinar provided an introduction to design of seismic force-resisting systems in wood light-frame buildings, intended to complement the wood design problems in Chapter 14 of the *FEMA P-1051 NEHRP Recommended Design Provisions: Design Examples.* Find out more. Download presentation. Take the course.

July 28, 2017

New Site-Specific Ground Motion Requirements of ASCE 7-16 was presented by Dr. Charles A. Kircher. This presentation covered how the new site-specific design requirements were developed to address an identified shortcoming in the method for buildings on softer sites. Find out more. Download presentation. Take the course.

August 25, 2017

Seismic Design of Masonry with the 2015 NEHRP Provisions was presented by David Sommer. This presentation addressed seismic design of masonry using the *2015 NEHRP Recommended Seismic Provisions for New Buildings and Other Structures* and the referenced 2013 edition of TMS 402/602. Find out more. Download the presentation. Take the course.

DESIGN OF SEISMIC FORCE-RESISTING SYSTEMS IN STEEL-FRAMED BUILDINGS

This webinar provides an introduction to design of seismic force-resisting systems in steel-framed buildings, intended to complement the design problems in Chapter 9 of the FEMA P-1051 NEHRP Recommended Design Provisions: Design Examples. Topics include the design of ordinary concentrically braced frames, special concentrically braced frames, and special moment frames.

INSTRUCTOR

Rafael Sabelli, Director of Seismic Design at Walter P Moore Read Bio

Rafael Sabelli is a Principal and Director of Seismic Design at Walter P Moore. Rafael has earned a Special Achievement Award from AISC, as well as the T.R. Higgins Lectureship award. He is active in the development of seismic design standards for steel systems and is a member of the AISC Seismic Provisions Committee, the ASCE 7 Seismic Task Committee, and the NIST Building Seismic Safety Council's Provisions Update Committee. Rafael is the chair of the AISC Seismic Design Manual committee and was the Project manager for the 5-volume SEAOC Seismic Design Manual. Rafael is co-author of Ductile Design of Steel Structures, and has written extensively on the
design and behavior of steel seismic systems.

LEARNING OBJECTIVES

Upon completing this course, you will be able to:

- Learn NEHRP Recommended Seismic Provisions;
- Learn the lasted seismic provisions for steel buildings;
- Learn the steel behavior under seismic forcers; and
- Learn different seismic force-resisting systems for steel buildings.

Course ID: NIBS-BSSC03
Duration: 1 Hour
Prerequisites: None

AIA Learning Units:
1.0 LU | HSW

ICC CEU:
.10 CEU

Professional Development Hours:
1.0 PDH

Fee: $20

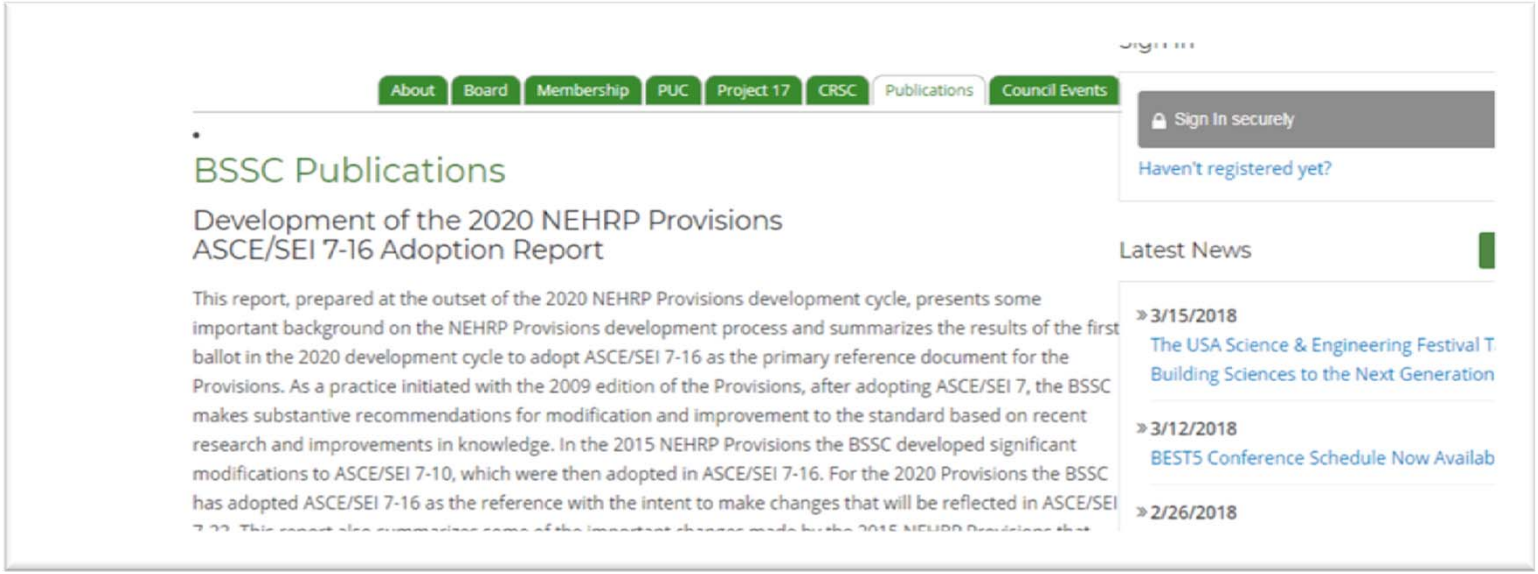
Take this Course:
Log in to your account to enroll in this course or register for an account if you don't already have one.

Topics: Seismic Structural

BACK TO NIBS COURSES

ASCE 7-16 Adoption Report

- **Introduction to development of NEHRP Provisions and balloting procedure**
- **Ballot #1 results**
- **Major differences between 2015 NEHRP Provisions and ASCE 7-16**



BSSC Ballot System

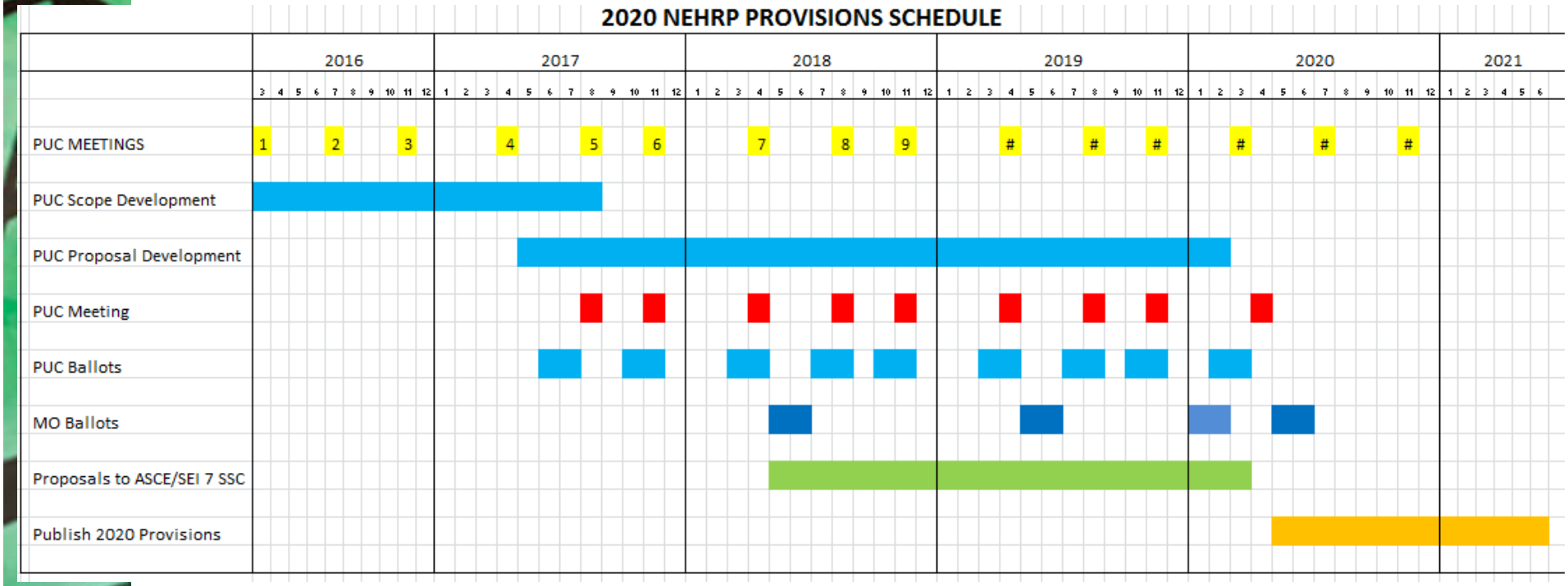
- During the voting period, you can always go back to the system to edit your vote and comments, and **the system will automatically submit your draft ballot when the ballot closes**.

- File Download

https://portal.nibs.org/bssc/

	Proposal to BSSC, no later than	Post in BSSC Ballot system	PUC Ballot	Proponent Response	PUC discussion
Ballot #3	2/18/2018	Within 3 days	3 weeks	3 weeks	April 4-5, 2018
Ballot #4	6/27/2018	Within 3 days	3 weeks	3 weeks	August 15-16, 2018
Ballot #5	9/30/2018				Mid November, 2018

• Schedule


2020 NEHRP PROVISIONS SCHEDULE
2016
2017
2018
2019
2020
2021
PUC MEETINGS
PUC Scope Development
PUC Proposal Development
PUC Meeting
PUC Ballots
MO Ballots
Proposals to ASCE/SEI 7 SSC
Publish 2020 Provisions

- # Proposal template

- New Template, contact JQ Yuan if having any questions
- For each proposal, commentary is required
- Figures, tables, and equations, should be <u>delivered in a form that can be edited</u>
- New figures, will need a brief description for 508 compliance in the final approved version

Proposal Ballot Procedures

Proposal submitted to PUC for electronic ballot

BSSC sets up the ballot and invites PUC members to review and vote

PUC members have three weeks to vote

- Yes
- Yes with Reservations (explanation req'd)
- No (explanation and suggestion req'd)
- Not voting

BSSC sends the ballot results to proponents

Proponents have three weeks to respond

- Persuasive
- Nonpersuative
- Nonresponsive
- Editorial/Persuasive

The revised proposal with proponent's response are reviewed and voted at a PUC meeting.

(If an electronic ballot fails, it shall not be considered at a PUC meeting without significant revision and a second electronic ballot, unless the PUC votes to proceed with resolution of comments.)

• Proposal Ballot Procedures

For PUC approved proposals, BSSC Board will review and vote

Within four weeks

For PUC and BSSC Board approved proposals, they will be balloted by BSSC Member Organizations (MO) , following the same PUC ballot procedure

Time Frame about nine weeks

PUC, BSSC MO, and BSSC Board approved proposals will go forward to the Provisions