Supporting Tall Mass Timber Buildings in the *International Building Code*

Understanding how to participate in the International Code Council's code development process

Agenda

- Overview: Mass Timber and the ICC Ad Hoc Committee Code Proposals

- IBC Development Process Overview

- ICC Process Participation

- Designating Voters: A Step-by-Step Overview

What are Tall Mass Timber Buildings?

Mass Timber

- Engineered Wood Products (EWP)
  - Cross-laminated timber (CLT)
  - Nail-laminated timber (NLT)
  - Glued-laminated timber (glulam)
  - Structural composite lumber (SCL)

What are Tall Mass Timber Buildings?

- Strength and resilience comparable to traditional tall building materials

- New opportunities to construct safe and efficient tall wood buildings

- Not a new idea
  - Europe – 20 years of tall mass timber buildings
  - Just beginning in U.S.

- Excellent fire safety
  - 3-hour fire rated wall assembly

- Construction
  - Safer
  - More cost-effective
  - Less noisy
  - Requires fewer laborers

TWB Project & Committee

PROJECT SCOPE

December 2015: ICC Board established ICC Ad Hoc Committee on Tall Wood Buildings (AHC-TWB)

- Explore science of tall wood buildings

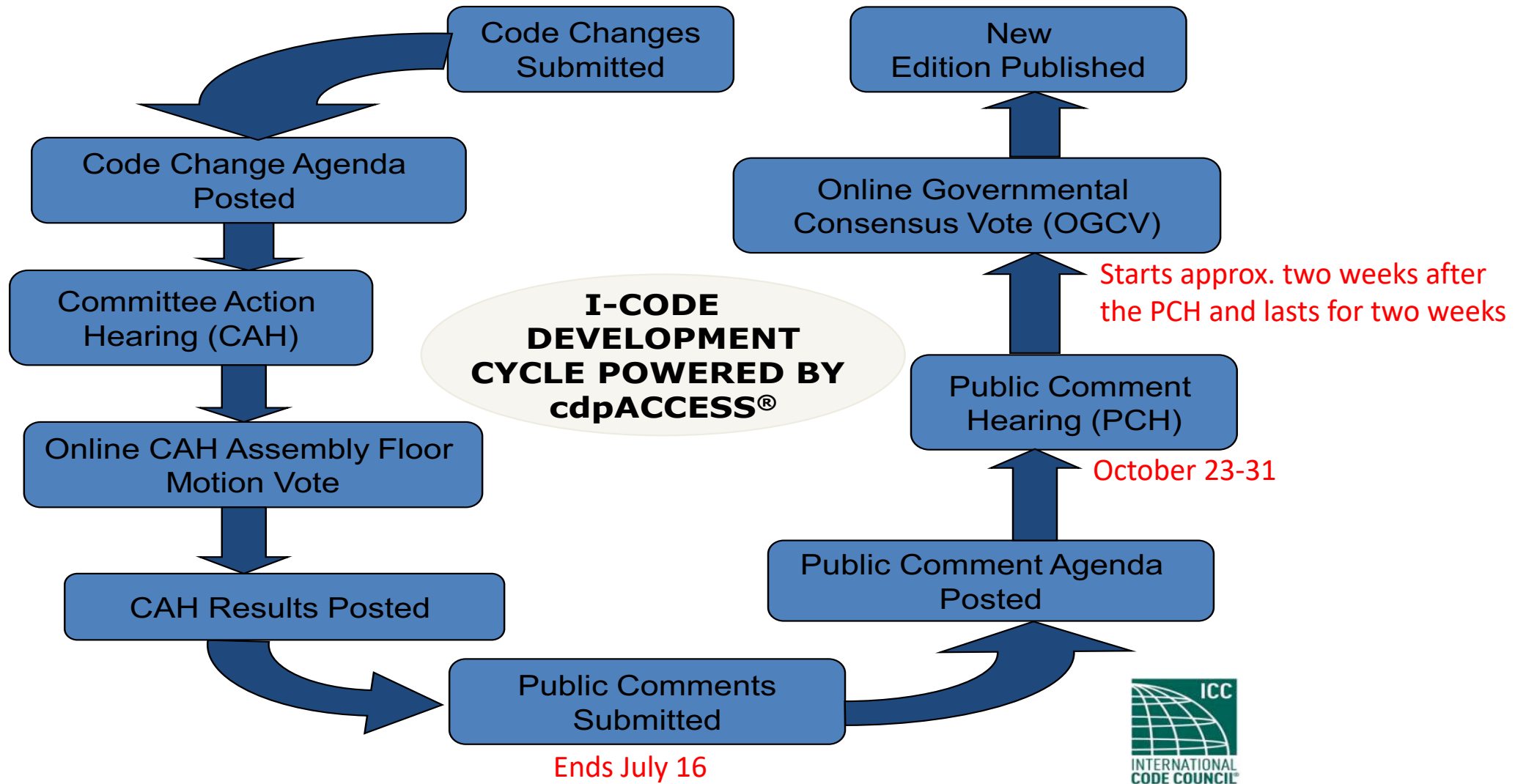- Investigate feasibility and develop tall wood building code changes

AD HOC COMMITTEE

ICC Board recognized need for consensus committee comprised of:

- Stakeholders
- Reps from building construction material industries
- Building and Fire Officials
- Architects and engineers
- Fire protection experts
- Other construction-related stakeholders

ICC Code Development Process

Code Changes Submitted

New Edition Published

Code Change Agenda Posted

Online Governmental Consensus Vote (OGCV)

Committee Action Hearing (CAH)

I-CODE DEVELOPMENT CYCLE POWERED BY cdpACCESS®

Starts approx. two weeks after the PCH and lasts for two weeks

Online CAH Assembly Floor Motion Vote

Public Comment Hearing (PCH)

CAH Results Posted

October 23-31

Public Comments Submitted

Public Comment Agenda Posted

Ends July 16

Committee Action Hearing Recap

- Took place in Columbus, OH, from April 15-23, 2018

- Committee heard nearly 2-hours of testimony
  - Vast majority in favor of AHC-TWB proposals

- All relevant code proposals passed by wide margins
  - Thirteen proposals approved 13-2
  - One approved 14-1
  - None subjected to assembly floor action motion

Mass Timber Code Proposals for *2021 IBC*

1. **G108-18**: New Type IV-A, Type IV-B, and Type IV-C construction designations
2. **FS5-18**: Tests to establish fire-resistance-rating of mass timber components
3. **FS81-18:** Noncombustible protection contribution to mass timber fire resistance
4. **FS6-18**: Requires sealant at abutting edges and intersections of mass timber components
5. **FS73-18**: Recognize mass timber as suitable fireblocking material
6. **G28-18**: Type IV-A and IV-B buildings >120 ft. to have at least 2 fire pumps connected to mains
7. **F88-18**: Expands owner requirements to inspect all required fire-resistance-rated construction
8. **F266-18**: Details fire safety requirements for mass timber buildings under construction
9. **G75-18**: Allowable building height for Type IV-A, IV-B, and IV-C structures
10. **G80-18**: Allowable number of stories for Type IV-A, IV-B, and IV-C structures
11. **G84-18**: Allowable area for Type IV-A, IV-B, and IV-C structures
12. **G146-18**: Creates Type IV-HT (heavy timber) structure category – distinct from mass timber
13. **G152-18**: Ensures consistency regarding Type IV-HT – distinct from mass timber
14. **G89-18**: Requirements for mass timber fire barriers or horizontal assemblies

https://www.iccsafe.org/codes-tech-support/codes/code-development-process/2018-2019-group-a/

ICC Code Development Process Participation

Who Is Eligible to Vote in the IBC Process?

All voters must be designated by registered government agencies

Eligible government agencies include…

Government Units

Departments or agencies engaged in administration, formulation, implementation or enforcement of laws, ordinances, rules or regulations relating to public health, safety and welfare

ICC Governmental Member Voting Representatives

- "*Each Governmental Member shall exercise its right to vote through its designated Governmental Member Voting Representatives, and shall be entitled to the number of Governmental Member Voting Representatives as specified in Table 2.1.1.1.*"

Table 2.1.1.1	
Population	Voting Representatives
0 to 50,000	4
50,001 to 150,000	8
Over 150,000	12

- State and Federal agencies = max 12 votes per unit or department

- Voting limitation: 1 person = 1 vote

Bylaws for the International Code Council

2018 Key Dates for ICC Participation

September 23 - Deadline to Designate GMVRs

October 23-31 - Public Comment Hearings

Approx. November 15 - Online voting opens

Approx. December 1 - Online voting closes

Validating Eligible Voters

- ICC online tool for **eligible entities** to designate voters
  - Primary Representative go to www.iccsafe.org/EVDS
  - Short online questionnaire
  - Designation as Governmental Member Voting Representative (GMVR)
  - 2018 code development balloting

- ICC reviews information and either
  - Validates individual to serve as GMVR at ABM/PCH
  - Contact Primary Representative for additional information

Governmental Member

Quantity	Format
0	Governmental Member (population <50,000) Item #:2947M — Duration ▼
0	Governmental Member (population 50,001-150.000) Item #:2948M — Duration ▼
1	Governmental Member (population >150,000) Item #:2949M1 — 1 Year ▼

Who needs to use Electronic Voter Validation System?

Every Governmental Member that intends to have GMVRs validated for this year's code development cycle and Annual Business Meeting must use this online tool to designate Member's voting reps – even those GMVRs who have voted in the past

www.iccsafe.org/EVDS

Upcoming GMVR 2018 Voting for *2021 IBC*

GMVR Voting opportunities

- ~~the online voting for the Assembly Floor Motion following the Committee Action Hearing (via cdpACCESS™);~~

- In-person voting at PCH

- Online Governmental Consensus Vote following PCH
  - via cdpACCESS

Voting Rules and 2016 Online Votes

- 2/3 majority advanced any issue

- 50% + 1 – simple majority – advanced some issues

- 2016 Online Governmental Consensus Vote
  - 577 total code change proposals considered
  - Maximum votes cast on a single proposal = 780
  - Minimum number of votes = 158

Critical Dates

Applications – new or updated – for GMVR status must be received by ICC **30 days prior to first day of PCH** in order for any designated representative to be eligible to vote

- GMVRs must be designated by **September 23, 2018**

- Online Government Voting Period – **November 15 to December 1, 2018**

Sec. 9 ICC Council Policy 28 -05 Code Development

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Membership

Membership   +

Chapters   +

Councils & Committees   +

SIGN IN TO YOUR ACCOUNT   **REGISTER FOR AN ACCOUNT**

Members & Non-Members: **Members Only:**

Education & Certification

- View and Edit your profile   • View Exclusive discounts in the ICC Store
- View your past and scheduled Education courses   • Receive Member pricing on Education Courses
- Change your password
- View past ICC Store purch
- View your Certifications

Education   +

Assessment Center   +

Committees   +

Primary Representative registers and signs in to designate Governmental Member Voting Representatives

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CEUs   CERTIFICATIONS   PURCHASES   MEMBERSHIP   COURSES   EXAMS

My ICC

My Information

Member Directory

Member Recognition

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Chapter Meeting Request

Local Chapters

My eCodes

My PRONTO Exams

Local Representatives

Voter Validation

View Proposed Committee Interpretations

MY CEUs

From the MY ICC page, select "Voter Validation"

24.6
AVAILABLE CEUs

SUBMIT CEUS

You have 2 certificates expiring soon.

USED CEUs

PROVIDER	TYPE	DATE	QUANTITY	CEUs	ACTION
ICC	PPN	10/26/2017	14.00	1.40	⚙ ✖
ICC Training and Education	PPN	09/12/2017	3.00	0.30	⚙ ✖
ICC Training and Education	PPN	09/12/2017	1.50	0.15	⚙ ✖

Code Council Voter Validation

ICC
INTERNATIONAL
CODE COUNCIL

Welcome to the Code Council's improved electronic voter validation system. Here you may designate your jurisdiction's Governmental Member Voting Representatives.

Instructions:

To begin this new system, all Governmental Member Voting Representatives must be validated, including the Primary Representative. For your convenience, all Governmental Member Voting Representatives currently listed on your Governmental Member account are listed below. If you would like to designate any of the listed individuals to vote on your jurisdiction's behalf at this year's ABM, click the "Validate" link and complete the two-question survey on behalf of each individual.

You may remove individuals you do not intend to designate by clicking the "Remove" button below.

You may add individuals not listed by clicking the "Add Representative" button below, and then completing the short electronic questionnaire on behalf of each individual.

Completed electronic questionnaires must be received by the Code Council 30 days prior to the commencement of the ABM, as applicable, for individuals to be eligible to serve as your voting representative this year.

Governmental Member:

Maximum Voting Representatives:

Scroll down to click on "Validate" link (off screen) and complete the two question survey

Representatives can be added by completing a short questionnaire

IBC 2015
IRC 2015
IPC 2015
IFC 2015
IMC 2015

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the Most Up-to-date

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You may remove individuals you do not intend to designate by clicking the "Remove" button below.

You may add individuals not listed by clicking the "Add Representative" button below, and then completing the short electronic questionnaire on behalf of each individual.

Completed electronic questionnaires must be received by the Code Council 30 days prior to the commencement of the ABM, as applicable, for individuals to be eligible to serve as your voting representative this year.

Governmental Member:

Maximum Voting Representatives: 4

Use the **"Add Representative"** button below (off-screen) and complete the short questionnaire

Previously Validated Voting Representatives:

1) John	[Re-Validate] [Remove]	2) Jane	[Re-Validate] [Remove]

[+] Add Representative

Your 2018 Voting Representatives: *

1) James	[Edit] [Remove]

* You will receive an email from the Code Council confirming eligibility of your voting representatives upon completion of the validation review process.

Add - Organization Voter Candidates ✖

Organization Information

Organization Name:
Organization Member Number:
Address Line 1:
Address Line 2:
City, State, Post Code:
Phone Number:

Enter organization & voter information

Voting Candidate

First Name: [First Name]
Last Name: [Last Name]
Title: [Title]
E-mail: [E-mail]

Complete Question 1 & Question 2 from drop down choices

Question 1: The ICC Bylaws require that all voters "shall be employees or officials of the Governmental Member or departments of the Governmental Member, provided that each of the designated voting representatives shall be an employee or a public official actively engaged either full or part time, in the administration, formulation, implementation or enforcement of laws, ordinances, rules or regulations relating to the public health, safety and welfare." Please choose the description that best describes this voter's duties.

[Please select ▼]

Question 2: This Voter is a(n) (choose one)...

[Please select ▼]

I hereby affirm that the information I have provided is true and accurate in all respects. I understand that ICC membership and voting status is subject at any time to review by ICC. I also understand that choosing the "Save" button is equivalent to my signature and confers on me the responsibility as to the accuracy of all statements herein.

Question 1 drop-down answer options

Add – Organization Voter Candidates

Organization Information

Organization Name:
Organization Member Number:
Address Line 1:
Address Line 2:
City, State, Post Code:
Phone Number:

Voting Candidate

First Name: First Name
Last Name: Last Name
Title: Title
E-mail: E-mail

Question 1: The ICC Bylaws require that all voters "shall be employees or officials of the Governmental Member or departments of the Governmental Member, provided that each of the designated voting representatives shall be an employee or a public official actively engaged either full or part time, in the administration, formulation, implementation or enforcement of laws, ordinances, rules or regulations relating to the public health, safety and welfare." Please choose the description that best describes this voter's duties.

Please select
Administers the laws, ordinances, rules or regulations of this Governmental Member.
Formulates the laws, ordinances, rules or regulations of this Governmental Member.
Implements the laws, ordinances, rules or regulations of this Governmental Member.
Enforces the laws, ordinances, rules or regulations of this Governmental Member.

Question 2:

Organization Name:

Organization Member Number:

Address Line 1:

Address Line 2:

City, State, Post Code:

Phone Number:

Voting Candidate

First Name: First Name

Last Name: Last Name

Title: Title

E-mail: E-mail

Question 1: The ICC Bylaws require that all voters "shall be employees or officials of the Governmental Member or departments of the Governmental Member, provided that each of the designated voting representatives shall be an employee or a public official actively engaged either full or part time, in the administration, formulation, implementation or enforcement of laws, ordinances, rules or regulations relating to the public health, safety and welfare." Please choose the description that best describes this voter's duties.

Please select

Question 2: This Voter is a(n) (choose one)...

Please select
Paid Employee of the Governmental Member.
Third-Party Contractor of the Governmental Member.
Elected official of this Governmental Member.
Other - (Please specify.)

I hereby affirm that the information I have provided is true and accurate in all respects. I understand that ICC membership and voting status is subject at any time to review by ICC. I also understand that choosing the "Save" button is equivalent to my signature and confers on me the responsibility as to the accuracy of all statements herein.

Question 2 Drop-down choices

Edit - Re-Validate Existing Voters ✕

Governmental Member Information

Organization Name: State of California

Organization Member Number:

Address Line 1:

Address Line 2:

City, State, Post Code:

Phone Number:

Voting Representative

First Name: Arnold

Last Name: Schwarzenegger

Title: Assistant Building Official

E-mail: bldginspector@ ⁿ

Question 1: The ICC Bylaws require that all voters "shall be employees or officials of the Governmental Member or departments of the Governmental Member, provided that each of the designated voting representatives shall be an employee or a public official actively engaged either full or part time, in the administration, formulation, implementation or enforcement of laws, ordinances, rules or regulations relating to the public health, safety and welfare." Please choose the description that best describes this voter's duties.

Enforces the laws, ordinances, rules or regulations of this Governmental Member. ▼

Question 2: This Voter is a(n) (choose one)...

Paid Employee of the Governmental Member. ▼

I hereby affirm that the information I have provided is true and accurate in all respects. I understand that ICC membership and voting status is subject at any time to review by ICC. I also understand that choosing the "Save" button is equivalent to my signature and confers on me the responsibility as to the accuracy of all statements herein.

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Completed electronic questionnaires must be received by the Code Council 30 days prior to the commencement of the ABM, as applicable, for individuals to be eligible to serve as your voting representative this year.

Governmental Member: **US Government Agency**

Maximum Voting Representatives: 12

Previously Validated Voting Representatives:

1)	[Re-Validate] [Remove]	2)	[Re-Validate] [Remove]
3)	[Re-Validate] [Remove]		

[+] Add Representative

Emailed confirmation of voting representative eligibility

Your 2018 Voting Representatives: *

* You will receive an email from the Code Council confirming eligibility of your voting representatives upon completion of the validation review process.

Sign in to check voting representative status

My ICC Page

Member name — Arnold Schwarzenegger

Go to Member Directory

Search for ICC Members

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Local Representatives

View Proposed Committee Interpretations

Search Gov't / Corporate Members

INDIVIDUAL MEMBERS	GOV'T / CORPORATE MEMBERS

Note: To find an individual Code Council member, use the "Individual Members" button above.

Use the fields below to enter your search criteria.

Acronym:	acronym
Organization Name:	Federal Emergency Mgmt Agency (FEMA)
Organization Type:	Governmental Member (>150,000)
City:	Washington
Country *:	UNITED STATES
State/Territory:	District of Columbia

SEARCH	CLEAR FORM

Search for Governmental Members

Search criteria - Use your agency information to check on GMVR status

Search for ICC Members

ICC > myICC > Search for ICC Members

Checking voter status

Gov't / Corporate Members Search Result

My ICC

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Member Directory

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Chapter Meeting Request

Local Chapters

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Local Representatives

Key: Names in blue have been validated for the current Code Development Cycle as Governmental Voting Representatives. Names in red are not current and must be updated to vote in the current Code Development Cycle. To validate voter, the Primary Contact may click here.

« back to search

Federal Emergency Mgmt Agency (FEMA)
Washington, DC
  Primary Contact:

Governmental Member Voting Representatives:
  Current: Jack Lemmon
  Current: Art Carney
  Current: Warner Baxter
  Current: Daniel Kaluuya
  Current: Mary Pickford
  Current: Charles Laughton
  Current: Norma Shearer
  Current: Marie Dressler
  Current: Lionel Barrymore

Validate voters

Key: Names in **blue have been validated** for the current Code Development Cycle as Governmental Voting Representatives. Names in **red are not current** and must be updated to vote in the current Code Development Cycle. To validate voter, the Primary Contact may click here.

Questions?