ICC Code
Development Process

People Helping People Build a Safer World™

ICC Vision

Protect the health, safety and welfare of people by creating safe buildings and communities

ICC Mission

To provide the highest quality codes, standards, products and services for all concerned with the safety and performance of the built environment
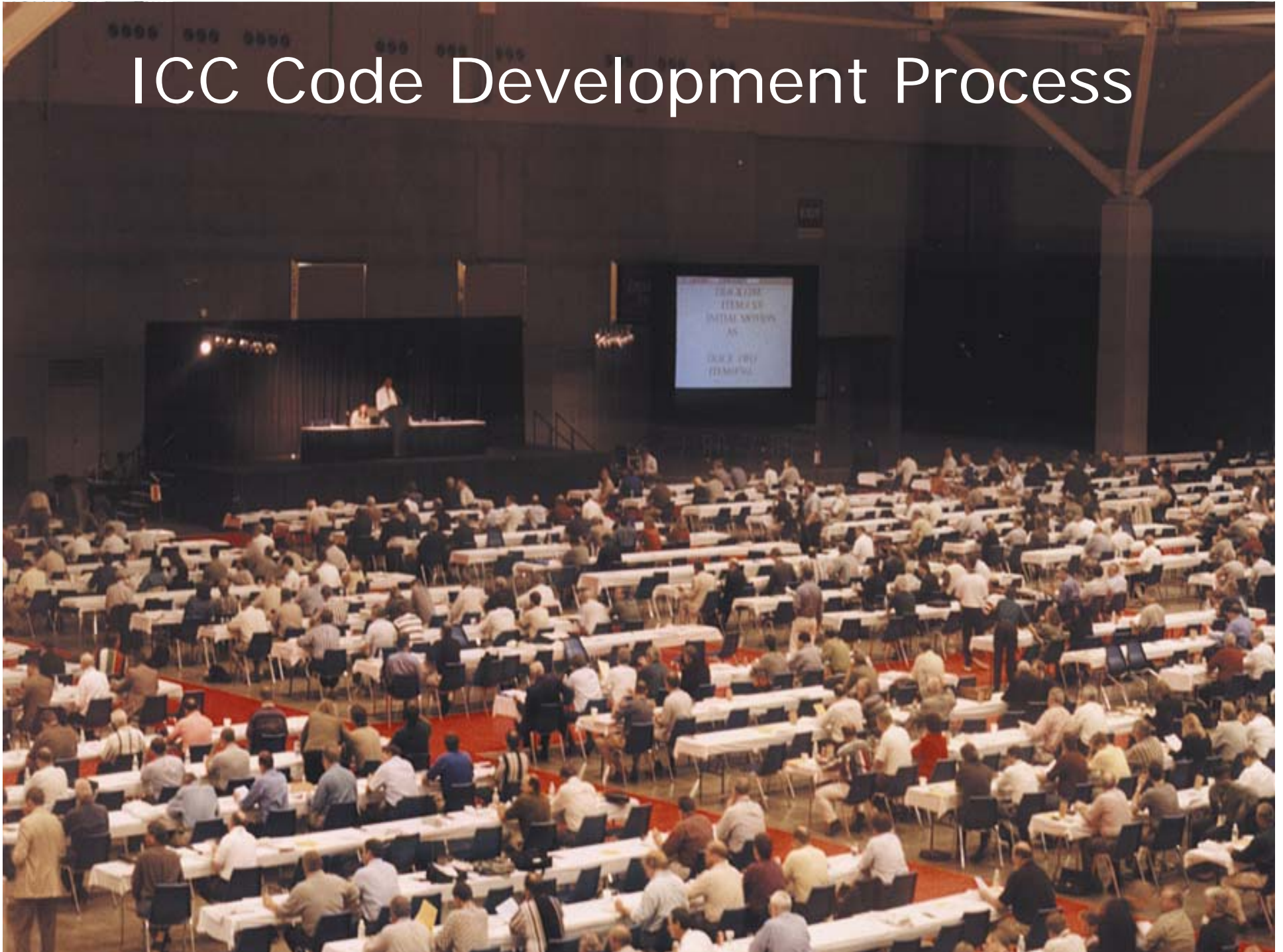
The I-Codes

15 Codes

The I-Codes

- **Each code is comprehensive**
- **All codes are coordinated and compatible with each other**
- **All codes are developed according to the same process in the same forum**
- **All codes reference consensus standards developed by Standard Developing Organizations (SDO's)**

ICC
INTERNATIONAL
CODE COUNCIL®

ICC Code Development Process

Goal

Utilize a process open to all parties with safeguards to avoid domination by proprietary interests. ICC Governmental Consensus Process achieves this with the final vote resting with those administering, formulating or enforcing regulations relating to public health, safety and welfare.

ICC
INTERNATIONAL CODE COUNCIL®

Code Committees

- **Representation of interests**
- **General: Consumers, Regulators**
- **Producer: Builders, Contractors, Manufacturers, Material Associations, SDO's, Testing Labs**
- **User: Academia, Designers, Research Labs, Owners, Product Certifiers**
- **Not less than 33% of each committee are Regulators**

ICC
INTERNATIONAL
CODE COUNCIL®

The Players

- **Code officials**
- **Design professionals**
- **Code consultants**
- **Trade associations**
- **Builders/contractors**
- **Manufacturers/suppliers**
- **Government agencies**
- **Anyone with an interest**

ICC
INTERNATIONAL
CODE COUNCIL®

The Process

- **Open**
- **Transparent**
- **Balance of Interest**
- **Due Process**
- **Consensus**
- **Appeals Process**

The Procedures

- **Code edition every 3 years**
- **2009/2010 Cycle: Transition cycle from previous two – 18 month cycles to one - 12 month cycle between editions for each code**
- **2012/2013 Cycle: Codes in two groups, Group A and Group B, resulting in 2 one year periods of code development**

Code Changes
Submitted

Code Changes
Posted & CD Distributed

New
Edition Published

Code Development
Hearing

I-CODE DEVELOPMENT
CYCLE

Final Action
Hearing

Public Hearing Results
Posted & CD Distributed

Public Comments
Posted & CD Distributed

Public Comments
Sought on Public
Hearing Results

ICC
INTERNATIONAL
CODE COUNCIL

Typical Cycle Snapshot

- **Group A codes**
  - **Code Change deadline: Jan 3, 2012**
  - **Code Dev. Hearing: Apr-May/2012**
  - **Final Action Hearing: Oct-Nov/2012**
- **Group B codes**
  - **Code Change deadline: Jan 3, 2013**
  - **Code Dev. Hearing: Apr-May/2013**
  - **Final Action Hearing: Oct-Nov/2013**

ICC
INTERNATIONAL
CODE COUNCIL®

Code Change Submittal

- **Code change deadline posted**

- **Anyone can submit a code change**

- **Download code change form the website**

Reference Standards

- **Currently Referenced Standards**
  - **ICC contacts SDO's to determine which standards will be updated and completed by the Group B Administrative Provisions Final Action Hearing**
  - **ICC publishes list of standards as an Administrative Provisions (Group B) code change**

Code Development Hearing

- **Public hearing**

- **Applicable Group A or Group B code committee presides over hearing**

- **Anyone can attend and participate/testify**

- **No cost to attend/participate/testify**

- **All committee actions and reasons for action published**

ICC
INTERNATIONAL
CODE COUNCIL®

Report of Hearing (ROH)

- **Committee action or modifications**
- **Website posting: approx. 30 days after Code Development Hearing**
- **CD: CD mailed approx. 45 days after Code Development Hearing**
- **Public Comments –anyone may submit a comment in response to the results of the Code Development Hearing**

Final Action Hearing

- **Public hearing**
- **Anyone can attend and testify. No cost to attend and participate/testify at the hearings**

- **Agenda**
  - **Consent agenda:**
  - **Individual Consideration Agenda:**

ICC

INTERNATIONAL
CODE COUNCIL®

Final Action Hearing

Final vote on whether or not to change the code rests with the ICC Governmental Member Representatives – those who administer, formulate or enforce the regulations and are charged with the public's health, safety and welfare

ICC
INTERNATIONAL
CODE COUNCIL®

Hearing Webcasts

- **Debut at 2002 Code Development Hearing**
- **All subsequent hearings (Code Development and Final Action) webcast**
- **Streaming video and audio**
- **Internet access on your computer**

ICC
INTERNATIONAL
CODE COUNCIL®

Results

- **First edition of full family of I-Codes in 2000**
- **Editions follow every 3 years**
- **2012 Edition to be published in 2011**
- **2015 Edition to be published in 2014**

ICC Website

- **As part of ICC's Green Initiative, all code development documents are posted. Hard copies no longer published**

- **All information including schedules, procedures, code change forms, public comment forms and a historical record of past cycles is posted**

- http://www.iccsafe.org/cs/codes/Pages/default.aspx

ICC

INTERNATIONAL
CODE COUNCIL®

ICC Governmental Consensus Process

The ICC remains dedicated to a single family of comprehensive and coordinated model codes. The ICC code development process allows all interests to actively participate in the update of each and every I-Code.

ICC
INTERNATIONAL
CODE COUNCIL®

Issues Specific to Electric Vehicles

- **Participation in ICC Code Development – 2015 Cycle**
  - *International Residential Code* (IRC)
  - *International Building Code* (IFC)
  - *International Fire Code* (IFC)
  - *International Property Maintenance Code* (IMPC)
  - *International Green Construction Code* (IgCC)

Safety Issues

Charging Stations and Battery Systems

- System Safety – Operation and Maintenance (fail safe)
- General hazards – voltage/amperage required
- Hazard identification and labeling
- Useful life and maintenance
- How to best address new technologies

Safety Issues

**Charging Stations and
Battery Systems**

➢Ventilation requirements
  ✓Chemical reactions – off gassing

➢Fire Ignition Prevention
  ✓Over-heating concerns

➢Leak prevention/Containment
  ✓ battery fluids/gases

Safety Issues

Code reference to appropriate standards that are to be developed

IgCC and ICC-700

- **EV Charging Stations**
- Should they be Required ?
- Jurisdictional Option ?
- Commercial Buildings
- Residential
- New Construction
- Renovations

Education and Training

- **Building and Fire Code Officials will require training on this new technology**

- **Firefighters will need training – not just on the EV themselves, but also the support systems in buildings and parking garages**
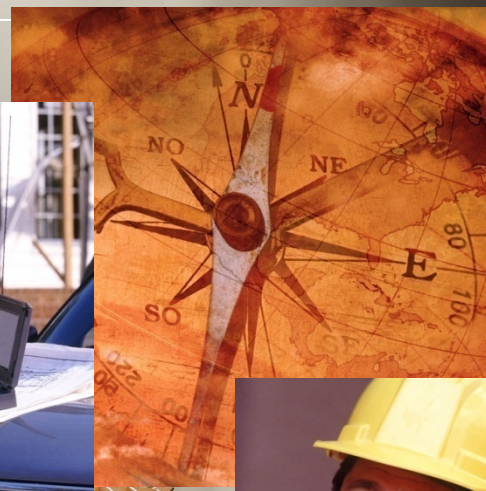
Conclusions

- EV Issues need to be addressed in the Building and Fire Safety Codes and standards referenced therein

- EV Issues need to be included in Sustainability Codes and Standards

International Code Council®
People Helping People Build a Safer World™

Questions?

International Code Council®
People Helping People Build a Safer World™

Bruce E. Johnson

Director of Fire Service Activities

International Code Council – Long Island Field Office

P.O. Box 655, Jamesport, New York 11947-0655

Phone: 888-433-7233 ext 7276 - Fax: 631-722-5656

E-mail: BEJohnson@iccsafe.org

Web Site: www.iccsafe.org