



**INTERNATIONAL
CODE COUNCIL®**

People Helping People Build a Safer World™

U.S. BUILDING REGULATORY SYSTEM and the ICC



**Tim Ward
WOBO Board of Governor
City of Oak Ridge, Tennessee USA
Code Enforcement Administrator**



THE U.S. BUILDING CODE SYSTEM

§ Role of the 50 States:

§ Under the U.S. federal system of government, authority for code adoption rests with each of the 50 states.

§ States usually adopt a code statewide or allow local governments to adopt codes locally.

§ With few exceptions, code enforcement is almost always local.



THE U.S. BUILDING CODE SYSTEM (cont'd)

§ Role of the Federal Government:

- § Mainly supportive

- § Adopts code for federal projects

- § Sponsors or conducts research

§ Role of Academia-Universities: Primarily involved in research



THE U.S. BUILDING CODE SYSTEM (cont'd)

§ Role of Industry & Manufacturers:

§ Research

§ Participates in the development of standards that codes reference.

§ Participates in the code development process.



THE U.S. BUILDING CODE SYSTEM (cont'd)

§ Role of Design Professionals:

§Active in standard and code development process.

§ Role of Standard Writing Organizations:

§Develop standards that can be referenced by the code.



THE U.S. BUILDING CODE SYSTEM (cont'd)

§ Role of the Model Code Agency (ICC):

§ The model code agency is a membership organization that develops a model code and provides services to its membership in support of the model code for adoption.



THE U.S. BUILDING CODE SYSTEM (cont'd)

§ What is a model code?

§A model code is a document that sets forth generally accepted minimum building design requirements that become law when a governmental jurisdiction adopts it.



THE U.S. BUILDING CODE SYSTEM (cont'd)

§ Why a model code?

§The model code helps provide for code uniformity nationwide to the extent possible.

§Saves governing authorities time and effort in the code development process. A better code results by the cooperative effort of jurisdictions participating and pooling their efforts in the one model code process.

- The governmental jurisdiction may amend the model code when it adopts it.



DUTIES OF THE CODE OFFICIAL

§ Role of local Code Official:

- § Code Administration and Enforcement

- § Plan review for code compliance

- § Issues Building Permits upon demonstration of code compliance

- § Conducts Periodic Inspections during construction

- § Issues Certificate of Occupancy upon final inspection



**OUR FUNDAMENTAL PURPOSE
IS TO SUPPORT....**

**...A COMPLETE SYSTEM
FOR BUILDINGS TO BE “BUILT TO CODE”....**

WITH THE ULTIMATE GOAL TOWARDS...



... PUBLIC SAFETY IN THE BUILT ENVIRONMENT!!





INTERNATIONAL
CODE COUNCIL®

People Helping People Build a Safer World™

ICC Vision & Mission

Vision: *Protecting the health, safety and welfare of people by creating better buildings and safer communities.*

Mission: *Providing the highest quality codes, standards, products, and services for all concerned with the safety and performance of the built environment.*

The International Code Council



**A 42,000-member association
dedicated to building safety**

**Develops the codes used to construct
residential and commercial buildings**



ICC Membership Services

The ICC provides a wide range of services

Design, construction, operation, maintenance of buildings and the enforcement of Building Codes affecting all buildings comprise the ICC membership and are its greatest asset.



ICC Membership & Chapter Support

- § Architects
- § Association Executives
- § Building Owners & Managers
- § Certified Professionals
- § City Planners
- § Code Consultants
- § Code Officials
- § Design Consultants
- § Engineers
- § Firefighters
- § Governmental Representatives
- § Homeowners
- § Inspectors
- § Instructors
- § Interior Designers
- § Plans Examiners
- § Specifications Writers
- § Students
- § Over 42,000 Members
- § A total of 331 ICC Chapters

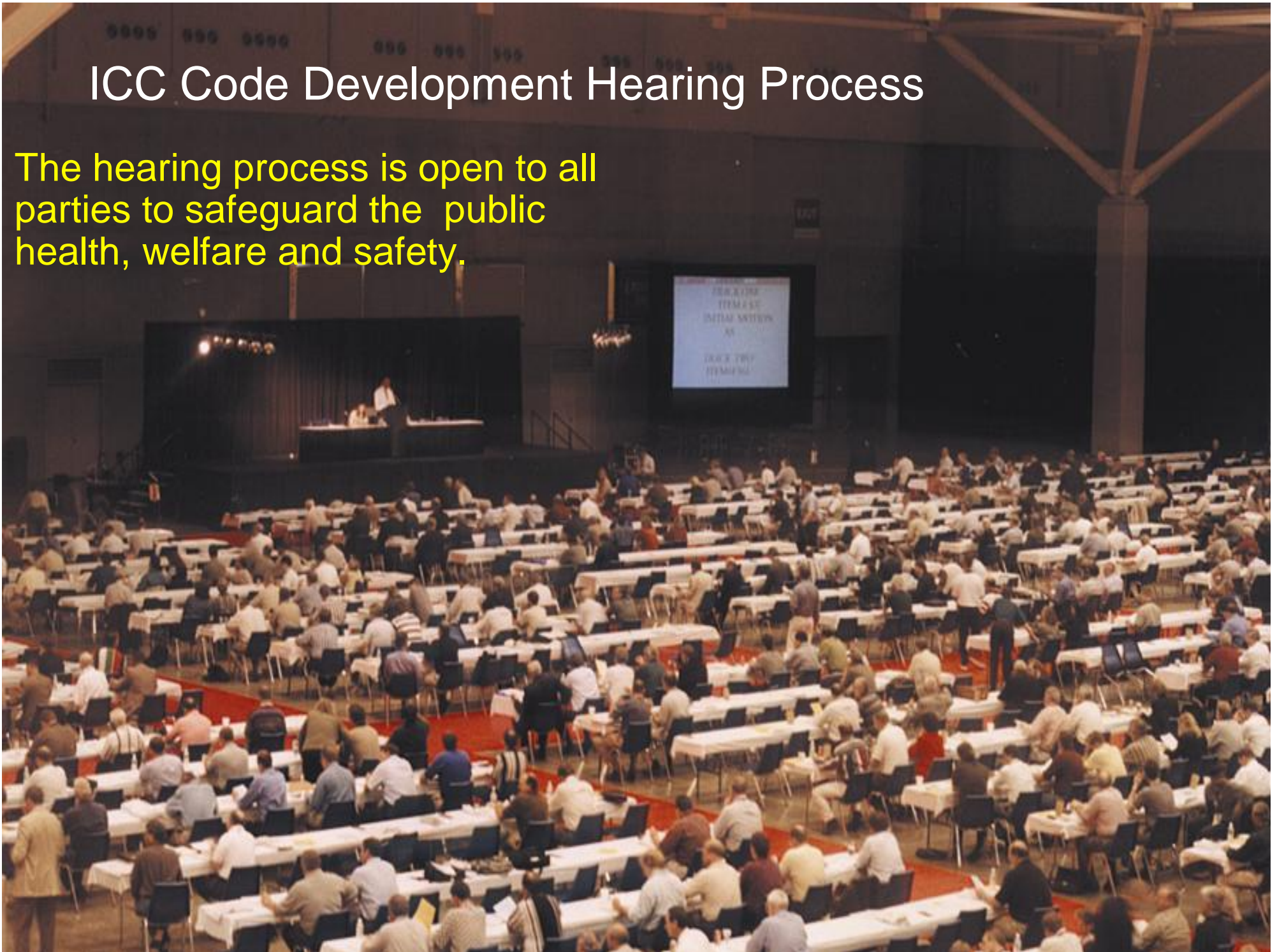
ICC Code Development Process

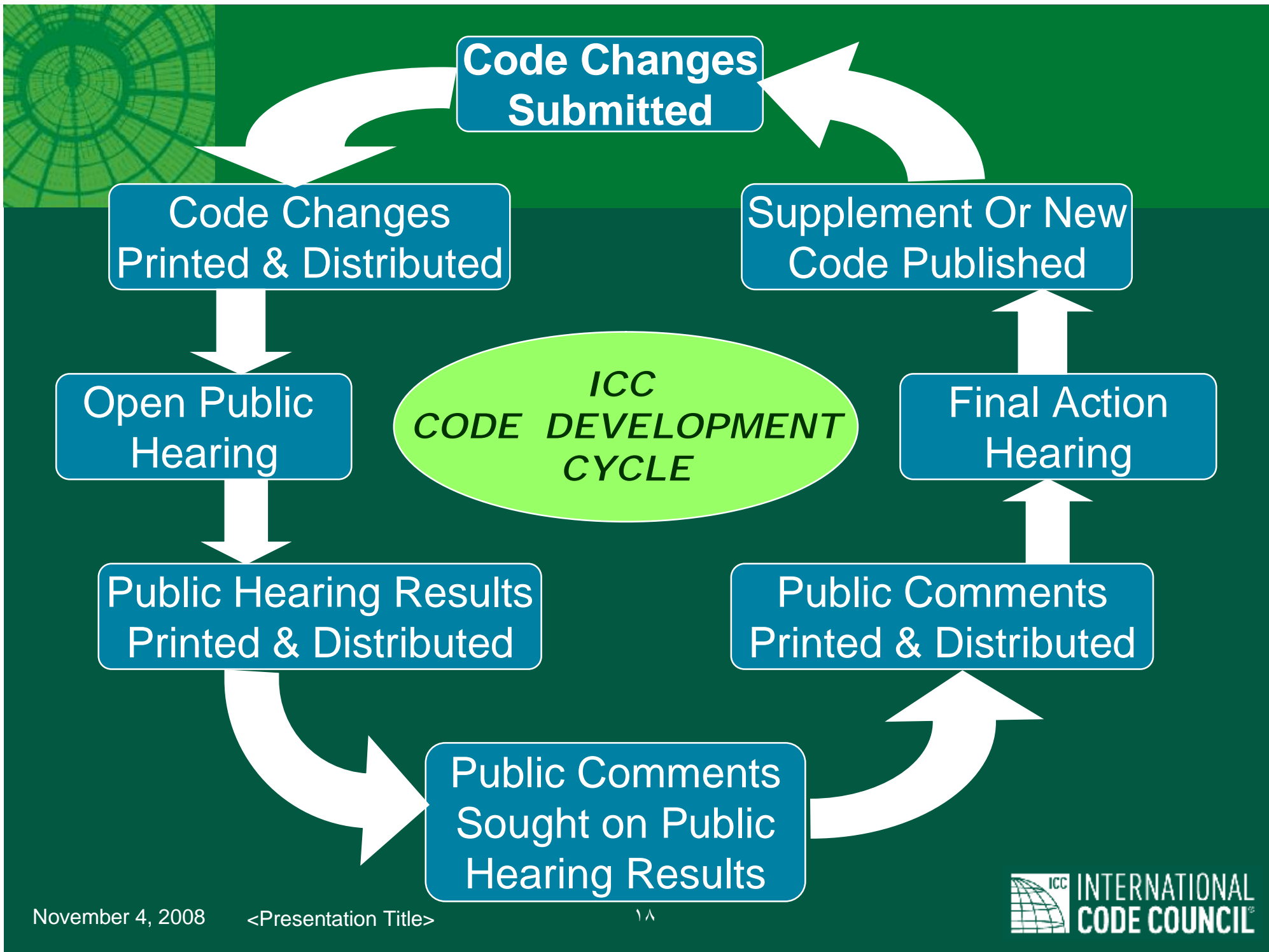
- **Continuous process creates a “living code”.**
- **Open public hearings creates commitment by industry.**
- **Resolves misinterpretations and misapplications of code provisions.**
- **Improves greater understanding and the proper application of Codes**
- **Process allows proposed code changes with merit to be modified for resubmission.**



ICC Code Development Hearing Process

The hearing process is open to all parties to safeguard the public health, welfare and safety.





Code Change Process



The family of ICC Building Safety Codes



A family of 14
coordinated and correlated codes

International Building Code®

International Fire Code®

International Mechanical Code®

International Plumbing Code®

International Residential Code®

International Energy Conservation Code®

International Existing Building Code®

International Fuel Gas Code®

International Property Maintenance Code®

International Private Sewage Disposal Code®

International Zoning Code®

International Urban-Wildland Interface Code®

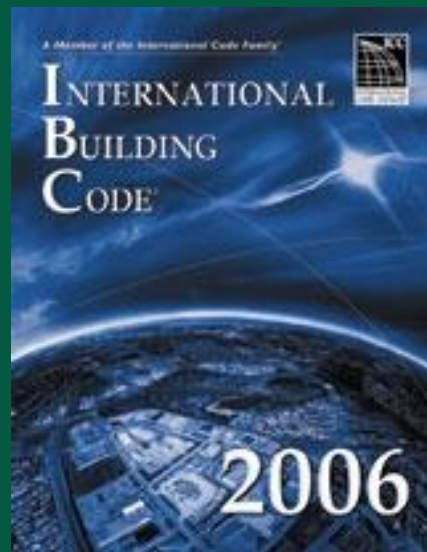
ICC Electrical Code® Administrative Provisions

ICC Performance Code for Buildings and

Facilities®

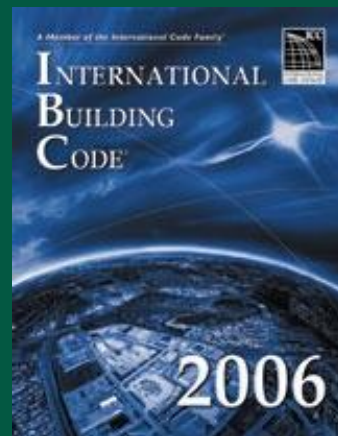
Benefits of a correlated Building and Fire Code.....

The International Building Code (IBC) and the International Fire Code (IFC) were developed from the beginning to be a complete comprehensive and compatible regulatory code package.



Benefits of a correlated Building and Fire Code.....

Companion documents eliminate the need for local "Correlating Committees" to identify and resolve conflicts from codes developed independently and by different consensus processes.



What is the difference?



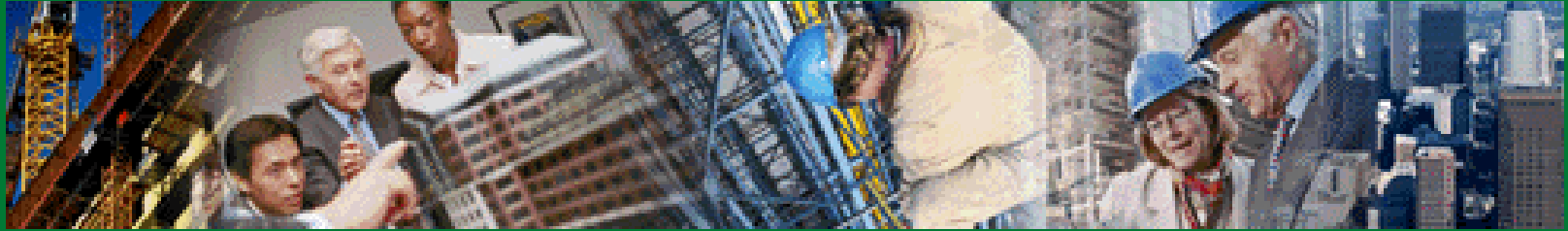
The IBC consist of the minimum code requirements to construct a structurally and environmentally safe building.



The IFC consist of the minimum code requirements to insure that buildings and structures built under the IBC are properly maintained and provides requirements to prevent fires and to protect the public and the emergency responders.

Ownership of Duplicated provisions

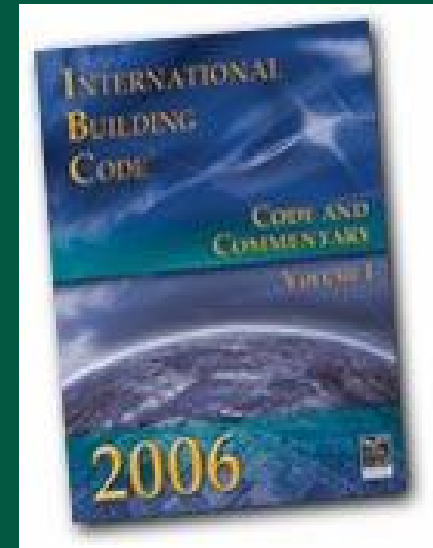
| IBC | Provision | IFC |
|------------|--|------------|
| Duplicated | Sprinkler Installation | Maintained |
| Maintained | Groups A, B, E, F, I, M, R, S and U Occupancy Classifications | Duplicated |
| Duplicated | Group H Occupancy Classification | Maintained |
| Duplicated | Decorations and Trim | Maintained |
| Duplicated | Standpipe and Hose Systems | Maintained |
| Duplicated | Fire Alarm and Detection | Maintained |
| Duplicated | Emergency Alarm | Maintained |



ICC Services

Examples of ICC Support Services

- ICC publishes commentaries for all ICC codes
- Provide...
 - § Entire code text and commentary
 - § Code applications & application examples
 - § Explanatory material
 - § Code development history
 - § Illustrations
 - § Bibliography of additional references



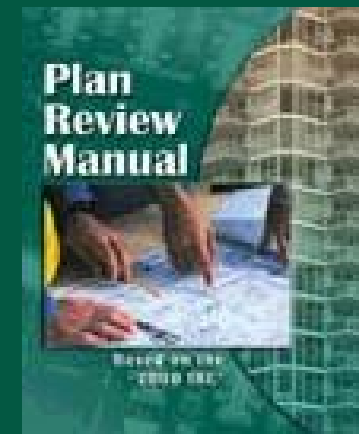


Code Interpretation Services

- Telephone code support anytime
 - Over 100,000 telephone code interpretations provided annually
- Written staff opinions through internal peer review
 - Over 5,000 written opinions provided annually
- Formal published ICC code opinions through code interpretation committee

Plan Review Support Services

- Comprehensive review for code officials and designers
- Provide comprehensive plan review reports identifying code deficiencies of proposed plan



Certification Services

Building Official, plan reviewer, building inspector, etc



- Certification of personnel ensures that competent individuals are involved in the building regulatory process and are familiar with the adopted codes
- Certification eliminates the need for individual state and local agencies to design, implement and maintain their own certification testing programs
- ICC also certifies “special inspectors”
 - Concrete, pre-stressed concrete, masonry, structural steel, welding, fire proofing

Training and Education Services

- ICC provides over 300 code seminars per year
- Instructors are technical experts experienced in code provisions and enforcement procedures
- Extensive curriculum directed toward professional development
- ICC offers services designed to assist state and local agencies provide staff training





International Consulting Services

§ Programs Include:

- § Assist countries in setting or enhancing regulatory systems to enforce codes and standards
- § Assisting countries with creation of certification and testing programs for plan reviewers, inspectors, code administrators, etc.
- § Assist countries in development of model codes and standards
- § Laboratory Accreditation Programs
- § Training & Education programs

ICC Subsidiaries

§ International Evaluation Service (IES)

§ Leader in US in evaluating building products for code compliance to assist building officials accept products

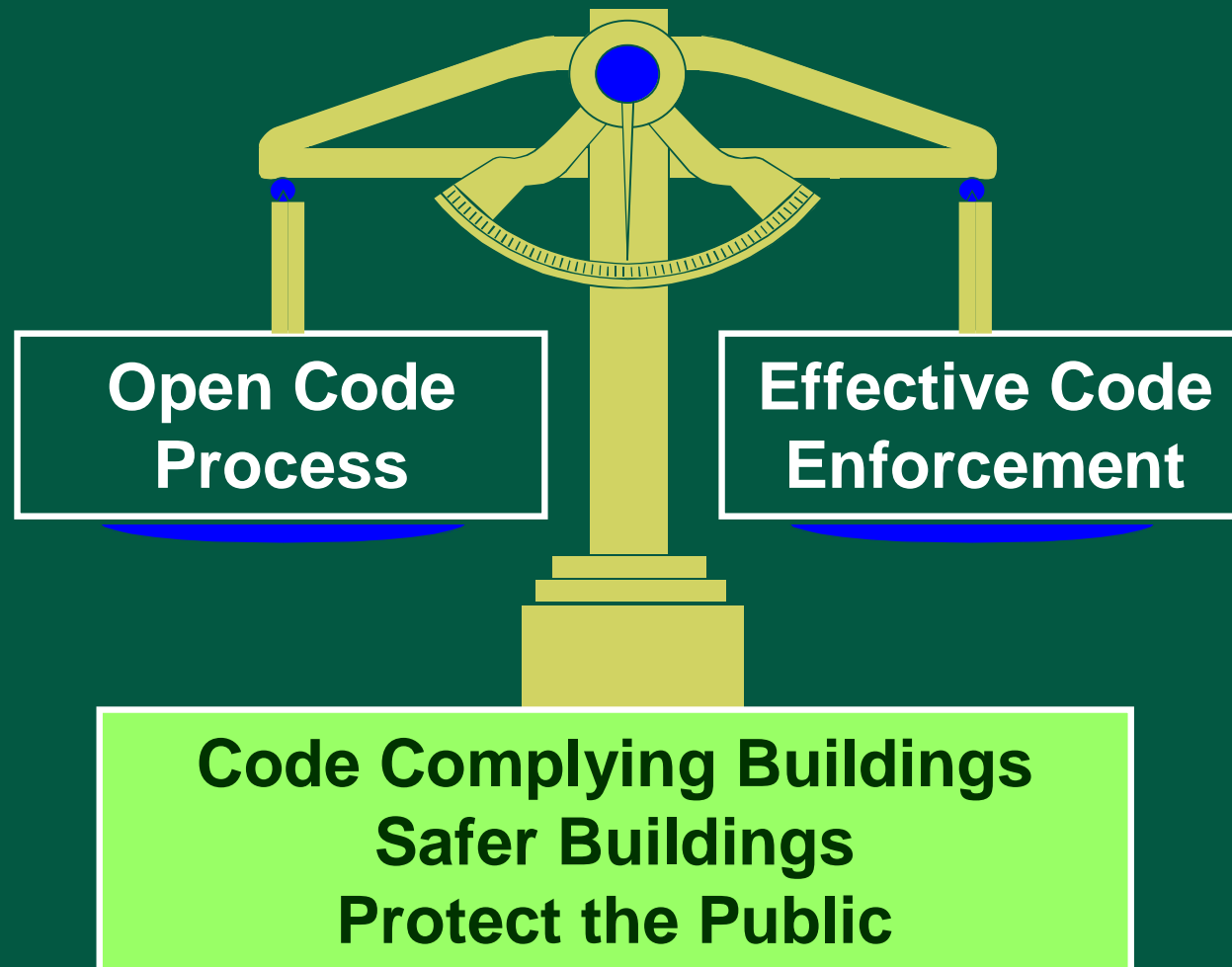
§ International Accreditation Services (IAS)

§ Accreditation Programs (Building Department, Fabricator Inspection, Inspection Agencies, Product Cert. Agencies, Testing Labs, etc.)

§ International Code Council Foundation (ICCF)



All this leads to...
Balanced Code Enforcement System





Thank you!

QUESTIONS?

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