

WOBO Technical Program



Hi-Rise Issues-World View of CTBUH and CIB

21 April 2004

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Council
on
Tall Buildings
and
Urban Habitat

Council on Tall Buildings and Urban Habitat



◆ Mission

- ...facilitate professional exchanges among those involved in all aspects of the planning, design, construction and operation of tall buildings and the urban habitat...
- ...to promote better urban environments...
- ...role of tall buildings in the urban environment and their impact thereon.
- ...encourage the use of the latest knowledge in their implementation.



CTBUH

- ◆ Council formed in 1974
- ◆ Congress events every three to five years
- ◆ Regional events as needed
- ◆ Council efforts since 11 September 2001
 - Resource for media
 - Resource for building owners
 - Resource for other constituents

Task Force on the Future of Tall Buildings



- ◆ Assembled in September 2001
- ◆ Dialogue on emerging issues
- ◆ What works, what can be better, what message

◆ Members

- Kone
- NDY
- NFPA
- P-B
- RJA
- SIA
- SOM
- SWMB
- Teng

Task Force on the Future of Tall Buildings

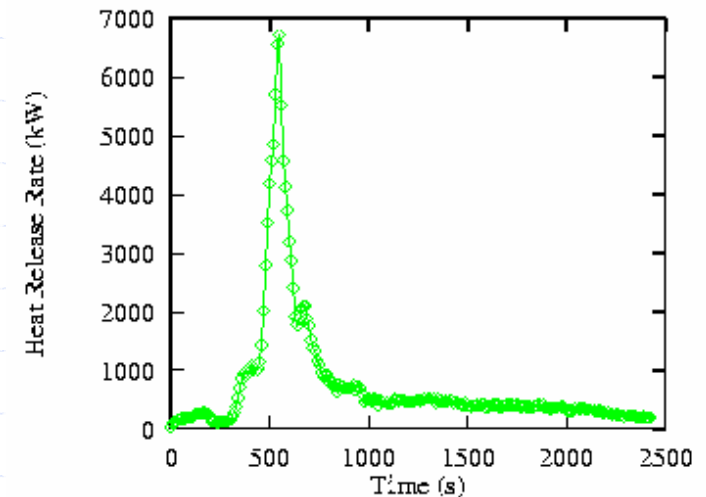


◆ Meetings held:

- October 2001 Chicago
- December 2001 London
- May 2002 NYC

◆ Projects

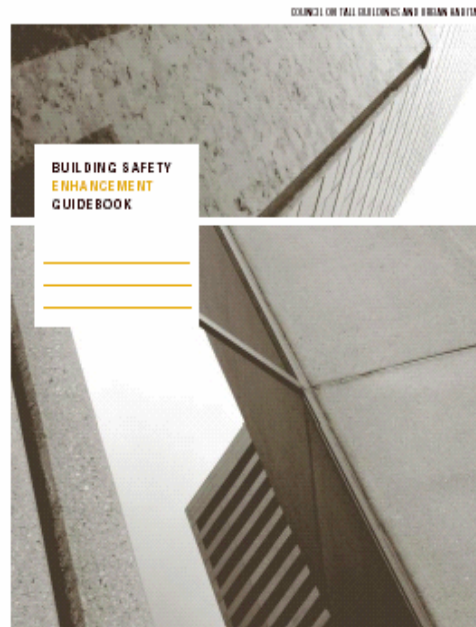
- Building Assessment Guideline
- Building Enhancement Guideline



Task Force on the Future of Tall Buildings



- ◆ Guides released May 2002
- ◆ *Assessing Tall Building Safety* conference- New York
- ◆ Building Owners, developers, planners



Task Force on the Future of Tall Buildings-Assessment



◆ F. 1 AUTOMATIC SPRINKLER SYSTEM

- Purpose: System to control or suppress fire
- Location: Throughout building
- Components: Sprinklers, pipe, valves, hangars
- Related systems: Water supply, fire pumps, storage tanks
- Performance: Excellent record since 1878-no multiple fatality fire in buildings with automatic sprinklers
- Maintenance: Periodic inspection, test and maintenance

Task Force on the Future of Tall Buildings-Enhancement



◆ F. 3 DIVERSE AND SEPARATE ROUTING OF STANDPIPE AND SPRINKLER RISERS

- What? Provide multiple, independent networks for supply to systems
- Why? Maintain water supply in the event of loss of one supply route
- How? Interconnect system risers at top and bottom; cross connect at various floor levels



◆ Current Project

- Emergency Elevator Evacuation System (EEES)
- July 2003-present
- Incorporation of elevators into building evacuation plans
- Hardware/software/people-ware
- Completion in Q-4 of 2004



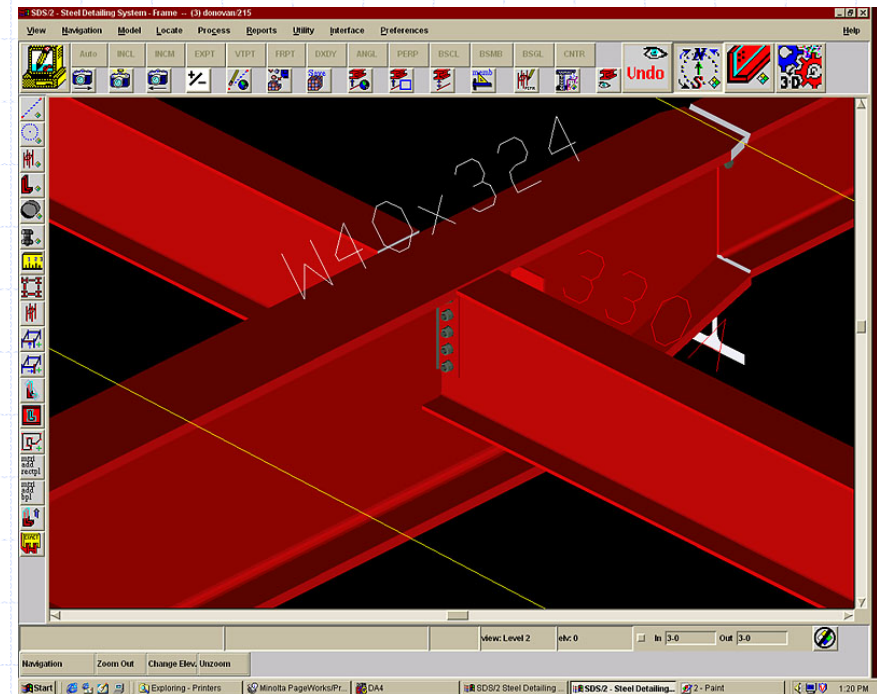
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◆ Upcoming events:

- ◆ April 2004 Regional Conference
 - Chicago
- ◆ October 2004 Regional Conference
 - Seoul
- ◆ October 2005 Seventh World Congress
 - New York, NY



CIB



50th Anniversary
1953 - 2003

“International Council for Research and Innovation in Building Construction”

Purpose: ...global net work for
international exchange...

Scope: ...technical, economic,
environmental, organizational
and other aspects of the built
environment ...

Objectives: ..information
concerning research and
innovation worldwide...

CIB TG 50 Tall Buildings



◆ TG 50 activity levels

◆ April 2002

- First *Global Leaders Summit on Tall Buildings* -London
- Agenda for refinements
 - ◆ *Fire*
 - ◆ *Progressive collapse*
 - ◆ *Economic*

◆ September 2002

- TG 50 Planning- Washington, DC
- Summary of syndicate reports
- KL Conference (May 2003) final program

◆ October 2003

- Second *Global Leaders Summit on Tall Buildings-Kuala Lumpur*
- *CIB-CTBUH International Conference on Tall Buildings*



CIB TG 50 Tall Buildings

Kuala Lumpur October 2003

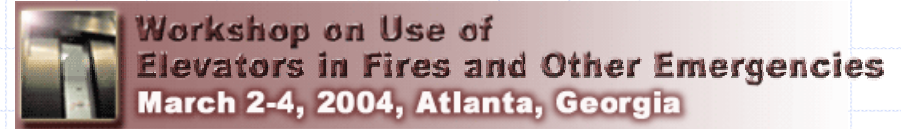
***The CIB-CTBUH Conference on Tall Buildings-
Strategies for Performance in the Aftermath of
the World Trade Centre***

- ◆ 96 technical presentations
- ◆ Representation from 40 plus countries
- ◆ No subject left unexplored
- ◆ Dialogue expanded-agenda for future- next step



Fire Engineering Agenda

1. What is a High Rise Building?
2. Elevator Evacuation Systems
3. Fire is a Structural Load
4. Fire Test Protocols
5. Single Event Hazard Scenarios
6. Performance Based Code Provisions
7. Redundant, Robust, Redundancies
8. Evacuation Strategies
9. Egress Stair Capacity
10. Building Security Strategies
11. Non-Traditional Egress Contrivances
12. Materials Performance
13. What (if anything) do we Need to Fix?





The Extremes

- ◆ General agreement to design for more
- ◆ General agreement to not design for everything





CIB TG 50

Next activity:

- ◆ Toronto

 - 1 May 2004

- ◆ Executive summary of syndicate activities based on October 2003 conference

- ◆ Development of High Rise data base





Collaboration

- ◆ Likely to see next edition of CTBUH Assessment and Enhancement Guides done in conjunction with CIB TG 50 input

- ◆ **CTBUH 2005**

7th World Congress

Renewing the Urban Landscape

16-19 October 2005

New York, NY

QUESTIONS

Thank you for your time and attention!

NFPA

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