

# National Capitol Region Hazus User Group Conference Call

Thursday, March 26, 2015 at 10am

**Leader:** Cynthia McCoy, FEMA Region III – Risk Analyst - 215-931-5530 - [cynthia.mccoy@fema.dhs.gov](mailto:cynthia.mccoy@fema.dhs.gov)

## Thanks:

- Thanks to everyone who is attending the call today and for the presenters who shared with us.
  - o Darren Lumbroso & Mark Davison (HR Wallingford): Life Safety Model – Agent Based Modelling (slides 8-45)
  - o Carol Baumann (Tetra Tech): Cook County HMP Risk Assessment (Slides 46-67)

## Speakers:

- **Call Details** – Meeting minutes, presentation and audio will be posted after the call today (slide 2)
- **Agenda** – (slide 3)
- **Announcements** (slide 4-8)
  - o Hazus Courses at EMI announced through October 2015 ([training.fema.gov/emiweb](http://training.fema.gov/emiweb))
    - Next class coming up is E174 Hazus-MH for Earthquake: March 30-April 2, 2015
    - EMI Hazus Training Specialist – Jordan Manos ([Jordan.manos@fema.dhs.gov](mailto:Jordan.manos@fema.dhs.gov))
  - o FEMA Region III E317 Comprehensive Data Management for HAZUS
    - Proposed for Spring 2015
    - Training Sites – Delaware, Pennsylvania and West Virginia
      - Delaware – April 28 – May 1: Dover, DE
      - Pennsylvania – May 18-21, 2015: Lancaster, PA
      - West Virginia – May 26-29, 2015: Morgantown, WV
    - **Please contact Cynthia if you want to be added to the class roster**
    - **SEATS ARE STILL AVAILABLE!**
- **Presentation** – Life Safety Model – Agent Based Modelling – Darren Lumbroso & Mark Davison - (slides 8-45)
  - o The Life Safety model analyses the loss of life and evacuation times for extreme floods
  - o Model used to determine how the number of victims are affected by:
    - Closure of roads
    - Efficiency of the dissemination of warnings
    - Use of safe havens
    - Understanding of the risk by people who live in the flood zone
  - o Through the use of agent based modelling, the user can estimate potential:
    - Fatalities and injuries
    - Vehicles swept away
    - Buildings destroyed
  - AND calculate evacuation times
  - o Model validation scenarios
    - France – Validation of the model against a dam failure
    - England – Coastal flooding as a result of a flood defence failure Canvey

- England – Dam break
  - Australia – Evacuation
  - England – Evacuation
  - Canada – Emergency planning for a tsunami
- **Presentation** – Cook County HMP Risk Assessment (Slides 46-67) – Carol Baumann (Tetra Tech)
  - Risk Assessment methodology overview – Analyzed Flood, Earth Quake, Dam Inundation, and Tornado
    - Combination of locally provided data and Hazus default data or values
    - Data Processing: Assumptions
      - Year built - Filled in missing values using a Census tract average
      - Number of stories - Filled in missing values using a default value of 1
      - Building type - Filled in missing values using building type distribution by occupancy class in Hazus default
      - Square footage - Used RS Means typical size from Hazus Flood Technical Manual as default.
      - Cost (replacement cost) - Used RS Mean square foot costs for the different occupancy classes and RS Means location factors also applied
    - Updated by county and municipalities using Tetra Tech’s Flex Viewer tool
- **Additional Notes** (Slide 68)
  - Hazus Data & Training Collaboration (slide 50)
    - Moving Google Drive Docs to Hazus SharePoint!
    - Migration in progress and will be deployed soon
    - If you want to help test the site, please email Jenna ([jenna.mcgee@amec.com](mailto:jenna.mcgee@amec.com))
  - Next Call (slide 69)
    - Thursday April 30, 2015 (see call details below)

**Related Documents/Links:**

- 02/26/15 Slide Deck with Audio Recording:  
[http://www.usehazus.com/uploads/forum/March262015\\_NationalCapitolRegionHUG\\_Presentation.pdf](http://www.usehazus.com/uploads/forum/March262015_NationalCapitolRegionHUG_Presentation.pdf)
- All NCR HUG Recordings:  
<http://www.freeconferencecalling.com/Recordings/Podcast.aspx?bridge=697620&accountid=1116753>
- Hazus download: <https://msc.fema.gov/portal/resources/hazus>

**Next Call:** Thursday, April 30, 2015 at 10AM EST

- Conference # 1-302-202-1110
- Pass code # 697620
- Presentation: TBD
- How-To: TBD