URBAN RESILIENCE

Date: 20th November 2014 - 6:30 to 8:30 pm
Location: The PIT (ARC 202) Department of Architectural Science, 325 Church St. Ryerson University
Urban Resilience – Resilience Based Design in the Urban Areas (Toronto)

Thursday, November 20, 2014
6:30 PM - 8:30 PM

Ryerson University, Architectural Science, The Pit (ARC 202), 325 Church Street, Toronto

This event will explore various aspects of the resilience and its relevance to the design of built environment in urban areas such as Toronto. Three expert speakers will familiarize the audience with the concept of resilience and discuss solutions to prepare the neighborhoods, buildings and infrastructures to withstand and recover quickly from unprecedented events.

Speakers:

Andrew Millward, B.Sc. (Env.), M.Sc., Ph.D. (Geography)

Part A: Resilience and the Role of Urban Forestry

Professor at Ryerson University, Faculty of Geography, Investigator at Urban Forest Research & Ecological Disturbance (UFRED) Group

Joined the Department of Geography at Ryerson in 2006 and established UFRED in 2008. UFRED's primary focus is applied research that uses geospatial technology to document and explain urban forest presence and condition, with the end goal of furthering protection and enhancement of natural spaces within cities. Dr. Millward has served as the Vice and Interim President of the Board of Directors for the Environmental not-for-profit Local Enhancement and Appreciation of Forests (LEAF), a Toronto-based organization dedicated to the protection and improvement of the urban forest.

Dr. Millward will be speaking about:

- Defining resilience in terms of climate related problems and destructive climate situations, what they are and what has caused them (Ex. Global warming), Introducing urban microclimates.
- Impacts of climate change on built environment in the GTA
- Role of urban forestation in urban areas regarding resilience
Part B: Urbanization, Current infrastructure designs and associated problems

Professor at University of Toronto, Principle and Planner at Southern Harbour

Spent twenty five years in the Royal Engineers, specialising in fortifications and infrastructure development, which included the protection and resilience planning of several regional and local infrastructure schemes in various parts of the World. He has practised as both client and consultant and spent the last six years investigating and developing infrastructure resilience understanding and practice. A practising engineer in both Europe and Canada, he is currently developing infrastructure recognition and the understanding of efficient demand and dependency management in order to advance operational resilience planning.

Professor Hay will be speaking about:

- Current infrastructure designs and associated problems
- Urbanization and its effects- How it affects infrastructure planning and design
- What are the urban considerations and necessary infrastructures in resilient cities?
- What has been done in Toronto to prepare the city for future incidents?
Craig Applegath, PPOAA, AAA, Architect AIBC, NSAA, FRAIC, LEED® AP

Part C: Future plans, Resilience Based Design (RBD) – Concept of Symbiotic City

Principle at Dialog Design, Founder of ResilientCity.org

A pioneer in the field of urban resilience. A passionate advocate for developing design solutions that make sense in a world of energy scarcity and climate change, Craig lectures on sustainable design and urban resilience in Canada and United States. Craig was a founding Board Member of Sustainable Buildings Canada, and is a current member of the Canadian Green Building Council.

Mr. applegath will be speaking about:

- Future plans, Resilience Based Design (RBD) – Concept of Symbiotic City
- Addressing the underlying problems generating the climate change and environmental deterioration
- Future solutions and designs to make individual structures and communities as “Resilient” as possible.
- What are the future methods to be prepare for such occasions?
- The concept of Symbiotic city and exploring the challenges and opportunities of designing and planning regenerative symbiotic cities.