

Workshop on

Initiative for Construction Safety Awareness - ICONSA 2015 -



Welcome

to

Workshop on

Initiative for Construction Safety Awareness

- ICONSA 2015 -

March 21, 2015



Organized By





INDIAN INSTITUTE OF TECHNOLOGY KANPUR

VIRGINIA TECH



Supported By



INDIAN INSTITUTE OF TECHNOLOGY DELHI



DELHI CHAPTER OF THE NATIONAL SAFETY COUNCIL



With India poised to make a significant investment of resources in creation of infrastructure, there is an urgent need to ensure that a robust framework is in place to ensure a safe working environment at construction sites.

Safety is primary about worker health and well being, but the components relating to time, equipment, reputation, etc. cannot be lost sight of.



This Workshop on Initiative for Construction Safety Awareness (ICONSA-15) brings together different stakeholders – contractors, owners, regulators, and academic institutions – to explore different aspects of construction safety and identify strategic opportunities to advance awareness and research on this critical issue.



Obama-Singh 21st Century Knowledge Initiative

- The partnership between the <u>Indian Institute of Technology Kanpur</u> (IITK) and <u>Virginia Tech</u> (VT) was made possible by a grant from the <u>Obama-Singh 21st Century Knowledge Initiative</u> by the UGC in India.
- The IITK-VT partnership on Sustainable Infrastructure
 Development was formed to create the next generation of sustainable infrastructure development professionals

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The partnership is centered on the belief that sustainable infrastructure development will become increasingly important for the vitality of communities throughout the world and that academic institutions have a responsibility to respond to the sustainability challenge.

The IITK-VT partnership's overarching goal is to encourage mutual understanding, facilitate educational reform, and engage civil society through knowledge sharing.



 Safety is well established but has perhaps developed from the point of view of industrial and process safety

 Safety is viewed together with occupational health and environmental issues



- Construction safety is NOT a only about civil engineering – electrocution, equipment failure and so on are all part of this wider picture!!
- Safety is not only about labour health, welfare, insurance, compensation. It is also about so many other things



- Annually, nearly 60,000 fatal accidents occur at construction sites worldwide (ILO) 2005
- Approx. 31 million people employed in construction sector
 (Construction Industry Development Council, 2005)
- The average fatal accident frequency rate (FAFR; incidents/1,000 employees/year) is estimated at 15.8 in India [FAFR in US is 0.23 (CIDC 2005)]

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- 248 accidents were reported from 2003 to 2011 in the central sector construction projects, which resulted in 335 fatalities and 147 injuries (Ministry of Labor & Employment, Govt. of India).
- One in every 2,000 construction workers suffered either an injury or involved in an accident every day in India (Mahalingam et al., 2007).



- Construction sites are one of the most hazardous places in India
- Magnitude of the severity of the hazard is difficult to calculate as there is very little or no data on the construction accidents are available in India

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Safety becomes a challenge in the construction sector, especially in India, due to its own peculiar / unique characteristics:

- Dynamic nature
- Short construction period
- Diffused definitions of responsibilities of stakeholders
- Migratory and often unskilled and/or illiterate labour
- Economic disparities



Construction safety is multidisciplinary. Covers

- Legislation
- Culture
- Sociology
- Engineering
- Workers' psychology
- Economics
- Labour management



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We need to have a platform to share information about ALL of these !!



Workshop objectives

- To create awareness of critical construction safety issues
- To deliberate on possible safety legal frameworks that are applicable to India
- To discuss academic initiatives and programmes in construction safety
- To try to chalk out a 'way forward' to sustain professional activity in the area



Participants

- Academic institutions
- Research establishments
- Construction companies
- Consulting organizations
- Project managers
- 'Owner' organizations



Workshop has sessions on:

- Wider picture of area
- Regulatory mechanisms
- Compliance issues
- Special considerations
- Workers perspectives



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Break out sessions

Discussion in smaller groups to identify 2-3 specific (doable) projects – along with volunteers to carry out the work !!



- Sincere thanks to all of you for coming here and spending a weekend for this event.
- I hope you will find that it was an worthy investment

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:: THANK YOU ::