



INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

INTERNATIONAL CONFERENCE ON SAFETY (ICS 2014)

Dec 2-6, 2014

...Promoting a Culture of Safety



Organized by:

**SAFETY CENTRE
IIT Gandhinagar**

In Association with:



International Conference on Safety (ICS 2014), Dec 2-6, 2014

International Conference on Safety (Dec 3-4, 2014)

The *International Conference on Safety* is Safety Centre's larger initiative as we endeavor to promote a culture of Safety in all sectors (Industry and Informal), spheres (Private and Public) and walks of life (Academia and Research). The 2nd edition in the series – ICS 2014 will be an interdisciplinary conference that brings together researchers, educators, safety officials, engineers, safety advocates, policy makers and consultants to undertake a comprehensive analysis explore solutions to pressing safety challenges in India and around the world. To commemorate the 30th anniversary of the Bhopal gas disaster, there will be a special focus on **Process Safety**.

The conference will explore all aspects of safety including:

- ❖ Design and Operations
- ❖ Regulations and Standards
- ❖ Planning and Economics
- ❖ Risk Management
- ❖ Testing
- ❖ Behavioral and Occupational Safety

and many more across various sectors such as:

- ❖ Buildings & Structures
- ❖ Process
- ❖ Consumer
- ❖ Fire
- ❖ Industrial
- ❖ Construction and Transportation
- ❖ Informal sectors

And will also cover Hazards, Disaster Mitigation, Best Practices and Emerging Trends in Safety.

Safety Centre, IIT Gandhinagar

The objective of the **IIT Gandhinagar Safety Centre** is to promote safety in public and private spheres, industry and the informal sector. The Safety Centre advances these objectives with activities to **Discover** (Research and Development), **Teach** (Offering safety courses in UG and graduate curriculum), **Outreach** (through Conferences, Workshops, Seminars, Symposia and training Professionals from Academia and Industry) and **Practice**.

Symposium on Process Safety (Dec 5-6, 2014)

The **Symposium on Process Safety (SPS 2014)** organized alongside ICS will bring together national and international thought leaders in process safety and seek to answer the question "*Have we really made progress since Bhopal?*". Leading professionals and academics will deliver lectures on various topics related to safety in the oil & gas, chemical, petro and pharmaceutical industries.

Workshop on Process Safety Education (Dec 2, 2014)

A specialized workshop on **teaching process safety in the curriculum** will also be conducted by Prof. Daniel A Crowl (Professor in Chemical Engineering and Chemical Process Safety, Michigan Technological University) who authored many books on Chemical Process Safety including the famous "*Chemical Process Safety - Fundamentals with Applications*".

One of the major problems with teaching chemical process safety is that faculty do not have full awareness of how theory is placed into industrial practice. This workshop will provide an interactive, discussion oriented format that will assist faculty in understanding how theory is applied.

The workshop covers an overview of Process Safety Education and will include presentation of traditional papers and case histories, Analysis of industrial problems and group activities in Emergency Response, Reactor Charging and Laboratory safety. **The workshop is suitable both for University Faculty and Industry Professionals.**

Short Course on Design and Safety of Structures under Fire (Dec 5-6, 2014)

The short course on "**Design and Safety of Structures Under Fire**" is suitable for Safety professionals, Structural engineers, academics, policy makers and industrial safety consultants, students, research fellows and is designed to introduce the participants to the fundamentals of Design and Safety of Structures when exposed to fire. **Various aspects related to design and analysis of RCC and steel structures subjected to fire will be covered.**

A One day Symposium exclusively for school students will be conducted on Dec 6, 2014

Invited Speakers

Dr. Anthony Abu

*NZFS Commission Lecturer in Structural Fire Engineering
University of Canterbury, NZ*



Dr. R. K. Dave

*Senior Specialist (Policy and Plans),
National Disaster Management
Authority, Ministry of Home Affairs,
Government of India*



Dr. Pravinray D. Gandhi

*Corporate Fellow
UL LLC Director
Corporate Research, USA*



Sri. B.Karthikeyan

*Process Safety and Risk
Management Consultant,
Prism Consultants, Chennai, India
Former Deputy General Manager
(PSM), Coromandel Fertilizers Ltd*



Dr. K.U. Mistry

*Chairman, Gujarat Pollution
Control Board
Government of Gujarat*



Dr. M. Sam Mannan

*Regents Professor and Director
T. Michael O Connor Chair, Mary
Kay O Connor Process Safety
Center, Artie McFerrin Department
of Chemical Engineering, Texas
A&M University, USA*



Dr. Dinesh Mohan

*Associate Faculty, Transport
Research and Injury Prevention
Program (TRIPP)
Indian Institute of Technology (IIT)
Delhi, India*



Dr. Raghunathan Rengaswamy

*Professor, Department of Chemical
Engineering
Indian Institute of Technology (IIT)
Madras, India.*



Dr. Sirish L. Shah

*Professor & Chair, Senior Industrial
Research Chair in Computer Process
Control, Department of Chemical and
Materials Engineering, University of
Alberta, Edmonton, Canada*



Dr. Daniel A. Crowl

*Herbert H. Dow Professor for
Chemical Process Safety
Department of Chemical Engineering,
Michigan Technological University*



Dr. S Ganeshan

*Program Director (Asia Pacific
Region), Center for Chemical Process
Safety (CCPS), American Institute of
Chemical Engineers*



Sri. Hirak Dutta

*Executive Director,
Oil Industry Safety
Directorate(OISD)*



Dr. Faisal Khan

*Professor & Vale Chair of Process
Safety & Risk Engineering,
Head, Department of Process
Engineering, Faculty of
Engineering & Applied Science,
Memorial University, Canada*



Dr. Hyuckmyun Kwon

*President for chemical safety
division, KPEA
Vice chairman, Korean Institute of
Hazardous Materials*



Dr. Venkatesh Kodur

*Professor & Director, SAFE-D
Center, Civil and Environmental
Engineering
Michigan State University, USA*



Dr. IL Moon

*Professor, Department of Chemical
and Biomolecular Engineering
& President, University Press
Yonsei University, Seoul,
Republic of Korea*



Sri. V.B. Sant

*Director General,
National Safety Council, India*



Dr. M. Surianarayanan

*Principal Scientist
Cell for Industrial Safety and Risk
Analysis (CISRA), Chemical
Engineering Department
CSIR-Central Leather Research
Institute, Chennai*



Invited Speakers

Dr. Rajagopalan Srinivasan
*Professor in Chemical Engineering
 and Institute Chair
 Coordinator, Safety Centre
 Indian Institute of Technology (IIT)
 Gandhinagar*



Dr. Venkat Venkatasubramanian
*Samuel Ruben-Peter G. Viele
 Professor of Engineering and
 Co-Director of Center for the
 Management of Systemic Risk,
 Columbia University, USA*



Sri. R.A.Venkitachalam
*Vice President – Public Safety,
 Underwriters Laboratories*



Sri. G.Vishwanathan
*Former Deputy General Manager
 (Technology), Indian Petrochemicals
 Corporation (now RIL), Vadodara*



Since Most problems in today's increasingly complex world are multifaceted and multidimensional insights into various disciplines are required to effectively address them, this **Interdisciplinary conference** and symposium serve as an ideal platform for researchers, renowned scholars and academicians, engineers, safety officials and advocates, policy makers and consultants from India and across the globe to network and research, comprehensively examine and explore solutions to a wide range of pressing national and global challenges related to safety. The program includes Keynote Addresses, Plenary talks and Presentations covering design, operations, planning and state of the art Research in all aspects of safety across various sectors such as Buildings and Structures, Fire, Consumer, Transportation, Industrial and Informal Sectors.

Registration

| Event | Professionals (till Oct 30, 2014) | Professionals (After Oct 30, 2014) | Students (till Oct 30, 2014) | Students (After Oct 30, 2014) |
|---|---|--|------------------------------------|-------------------------------------|
| Workshop on Process Safety Education by Prof. Daniel A Crowl (PSE 2014) (Dec 2, 2014)\$ | INR 8,000/- | | | |
| International Conference on Safety (ICS 2014) (Dec 3-4, 2014) | INR 3,000/- | INR 4,000/- | INR 2,000/- | INR 3,000/- |
| Symposium on Process Safety (SPS 2014) (Dec 5-6, 2014)# | INR 15,000/- | INR 16,000/- | INR 7,500/- | INR 8,500/- |
| Short Course on Design and Safety of Structures under Fire (SUF 2014) (Dec 5-6, 2014)# | INR 15,000/- | INR 16,000/- | INR 7,500/- | INR 8,500/- |

\$ PSE2014 is only for Academics and Trainers, Participation is limited # SPS 2014 and SUF 2014 are Concurrent Events

Special discount in Registration Fee for Combined Registration for morethan one event

| Event | Professionals (till Oct 30, 2014) | Professionals (After Oct 30, 2014) | Students (till Oct 30, 2014) | Students (After Oct 30, 2014) |
|--|---|--|------------------------------------|-------------------------------------|
| ICS 2014 + PSE 2014 (Dec 2-4, 2014) \$ | INR 8,000/- | | | |
| ICS 2014 + SPS 2014 or SUF 2014 (Dec 3-6, 2014)# | INR 15,000/- | INR 16,000/- | INR 7,500/- | INR 8,500/- |
| PSE 2014+ ICS 2014 + SPS 2014 or SUF 2014 (Dec 2-6, 2014)#\$ | INR 20,000/- | | | |

Visit : <http://safety.iitgn.ac.in/ics2014/registration.html> for Online Registration

For Further information , Reach us at:

E-Mail: safety@iitgn.ac.in Tel: +91-79-32459897, +91-7819859732

Web: <http://safety.iitgn.ac.in/ics2014>