



SAFETY AND QUALITY FORUM

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Safety Convention 2007

Industrial Safety and Socio Economic Growth

The Institution of Engineers (India), Delhi State Centre organized 4th Safety Convention on the theme "Industrial Safety and Socio Economic Growth" during September 5-7, 2007 at Hotel Le Meridien, New Delhi. Under the aegis of Safety & Quality Forum. The convention was organized in partnership with Quality Council of India and Export Inspection Council of India. ONGC Ltd, IOC LTD and NTPC Ltd were the sponsors of the event, while Mfar Constructions Pvt Ltd, Jindal Stainless Ltd and ONGC Ahmedabad Assets were the Co-sponsors of the event. The convention witnessed participation of nearly 300 people from over 100 organizations covering leading Public Sector, Private Sector, Government Department and other related agencies. The Convention was organized over 3 days with last day being utilized for exposure visits. The Convention is the fourth in its series, and has become a landmark activity on the skyline of the capital city of Delhi.

The Convention was inaugurated by Hon'ble Smt Kanti Singh, Minister of State for Heavy Industry & Public Enterprises, Government of India. Welcoming the Chief Guest, Dr. G S Yadava, Chairman Delhi State Centre said that our manufacturing and infrastructure sectors has put three major safety related responsibilities on the plant management: Safety of the people involved in the production & the up-keep of the plant, Safety of the people surrounding the production plants and Safety aspects of the users of the end product produced in the plant. He explained about the structure of technical programme of the Convention.

Shri O P Goel, Chairman, Safety & Quality Forum in his address briefed about the significance of the theme of the Convention in today's economic environment and mentioned that surging participation of industries in Safety Innovation Award competition had shown the rising importance of Safety in Industrial Sector.

The Guest of Honour Shri D K Gowda, President, The Institution of Engineers (India) in his address appreciated initiative taken by Safety & Quality Forum and Delhi State Centre of The Institution of Engineers (India) in launching the Safety Innovation Award. He mentioned that "the Safety Innovation Award has become a mechanism to recognize the services of business leaders. The experiences of such leaders have proved extremely valuable for cross-fertilization of ideas among different business organizations. The Safety Convention has also provided platform for transfer of



knowledge, know-how and information on best practices in Safety".

The Chief Guest Hon'ble Smt Kanti Singh in her address emphasized that "Industrial Safety is of paramount importance to ensure national growth of 10% and above not only in the industrial sector but also in other sectors of the economy. She mentioned that large industries, mainly the public sector units, have an important role as large capital investments have been made from the public funds. Moreover, the public sector undertakings are also made responsible for fulfillment of social objectives of the government".

Prof. D V Singh, Former Vice-Chancellor, IIT Roorkee and Member of the Jury of Safety Innovation Award briefed about the process of selection of awardees and different guidelines under which the companies were examined.

Prof. V Seshadri, Chairman, Technical Committee briefed about the contribution of the Award Winners. Thirty three (33) Industries were recognized for their contribution at the Inaugural ceremony.

Shri R N Rajpoot, Honorary Secretary, IEI-DSC coordinated the programme and proposed the vote of thanks.

The Convention had four plenary sessions and four technical sessions. Eminent professionals from industries, academics and R&D made valuable presentations as invited speakers; the Award winners provided inputs on their innovative experiences that recognized them for the award; and contributory papers gave ideas from other practitioners. Technical visits to Paharpur Business Centre, Software Technology Park and Indian Oil Corporation Ltd. (R&D) Unit, Faridabad was organized on the 3rd day

During the Convention following Plenary and Technical Sessions :

Concerns of Socio-Economic Development; Safety in Public Life; Safety in Transport and Energy Sectors; Safety in Industry; Safety in Construction; Food Safety and Safe Mitigation of Natural Hazards & Fire Safety. Over 50 invited and contributory presentations and case study presentations enriched the proceedings.

One case study session was organized where companies who had won Safety Innovation Award shared their innovative practices for the benefit of all other delegates. The session was chaired by Shri J Mohapatra, Executive Director (R&R Safety), NTPC Ltd.

The Session on Concerns of Socio-Economic Development was chaired by Shri R P Gupta, Former Vice-President and Council Member, IE (I). The session attracted a number of papers on the topics, viz.:-

Safety in Aviation Sector

Emerging Issues and Strategies on Safety, Health & Environment in a Growing Economy; Safety Management Concepts and Realities Created Safety Culture; and Planning a Safer City

The Session on Safety in Public Life was chaired by Shri V C Aggarwal, Director (HR), Indian Oil Corporation Ltd. and following papers were presented in this session:

Safety Management in Public Environment

Safety in Public Life; Safety in Public Life; and Safety in Transport of Hydro-carbon and compressed gases /Safety issues and handling of emergency

The Session on Safety in Transport and Energy Sectors were chaired by Shri B M Singh, Executive Director, ONGC (Ahmedabad Asset) and following papers were presented:

Growth of Coal Sector: Challenges Ahead in Safety Front; Road Safety Problem-A Silent Disaster; Proactive Industrial Safety Management at NPCIL Units Safety in Oil & Gas Industry; Safety in Downstream Oil Sector; Towards Excellence in Safety; Concept Paper on Safety & Disaster Mitigation in Power Management; and Traffic Safety in Urban Development.

On the second day of the Convention, the Session on Safety in Industry was chaired by Dr. G S Yadava, Chairman, IEI-DSC and following papers were presented:

Strategy in Identification of Occupational Hazards in Present Industry Practices; Safety Aspects in Chemical Process Industries; Safety standards and Certification; Impact of Recently Revised OHSAS 18001:2007 Standard on Industrial Safety & Socio Economic Growth; Inculcating Culture of Safe Production" for Sustainable Growth; Safety and Hazards Management in Pulp and Paper Industry; Occupational Safety in Tea Estates in North Eastern Region; and First Revision of IS 18001 Indian Standard on Occupational Health and Safety Management System

The Session on Safety in Construction was chaired by Prof. P K Sikdar, Director, ICT Ltd. and following papers were presented:

Holistic Approach towards Safety through Indian Standards and National Building Code of India; Safety Practices at Mfar; Safety and Socio Economic Aspects of Construction Workers NTPC Limited and Challenges in Construction Safety' and Health Hazard of Work Stress in a fast growing economy and their control

The Session on Food Safety was chaired by Prof. S K Mukherjee, Vice-Chancellor, BIT Mesra, Ranchi. Following papers were presented in this session:

Role of Equivalence & Recognition Agreements for ensuring safety in Food trade; Government's Role in Regulating Safety of Imported Foods vis-à-vis Indigenous Products; Importance of Changes in Overseas Legislation and Role of SPS Enquiry Points; and Role of Government in developing industry to produce as per international food safety requirements

The Session on Safety Mitigation of Natural Hazards & Fire Safety was chaired by Shri N Vinod Chandra Menon, Hon'ble Member, NDMA. Following papers were presented in this session:

Transformation of Enterprise Risk Management; Frame-work Role of Spanish Red Cross in Natural Hazard Mitigation; Safe Mitigation of Fire Hazards; and Fire Control and Smoke Management System in Delhi Metro Underground Section

Dr. Karan Singh Yadav, Member of Parliament was the Chief Guest at the Valedictory Function. He focused on the need to create awareness about safety at all levels starting from Parliamentarians and assured his effective support for the same.

The participants have suggested that the next Safety Convention 2008 should focus on Transportation Safety and be conducted in New Delhi during first week of September 2008.

Recommendations

Following specific recommendations were made:

- 1) Challenges of globalization should be analyzed periodically and safety measures should be evolved to mitigate impacts of manmade and natural disasters.
- 2) Sectors with unprecedented growth contributing to rapid GDP growth should be studied and appropriate sector-wise SHE policies should be evolved.
- 3) Regulatory initiatives should be launched in quick response time; especially where operations have been outsourced and the products have a direct interface with public.
- 4) Safety mechanism should be stand alone and taken out of the present Safety-Health-Environment combined mechanism, to make safety operations quicker/smoothen and effective.
- 5) Safety in transport sector is crucial as accidents result in third highest deaths in the country. Safety in design of transport system including roads; traffic discipline and wider road safety awareness of programmes is necessary. Similarly transport safety initiatives are necessary for Safety in civil aviation, maritime and railways.
- 6) Construction sector is the backbone of infrastructure development and employment for the labour. Its contribution to promoting economic growth and creating livelihood opportunities is crucial. Safety measures have to be constantly evolved and disseminated by strict enactment of existing safety in construction laws; and appropriate manpower training - mainly for uneducated and unskilled labour.
- 7) Industry has to contribute to the economic growth in ever increasing proportion. This needs a focus on industrial safety and awareness of positive impact of safe practices on productivity; and strict enactment of existing provisions of safety under different central and state laws.
- 8) Best practices and safety should be widely disseminated and discussed.

Safety Promotion and Awareness Programmes

by Dr. G.S.Dhillon, F.I.E.

It is a most welcome step being undertaken by the Safety and Quality Forum of the Institution of Engineers (India) to promote awareness regarding Safety and Quality Control in different sectors in general and Irrigation and Hydro projected sectors.

Based on the experience obtained while serving in the Punjab Irrigation, had varied experience projects and based on the experience acquired. Following suggestions are being put forward for consideration by the Forum.

Dealing with Mishap

As a direct involvement or on account of being deputed to enquire into a mishap, you may be required to deal the problem. Steps being taken in the order listed below:

Visit to the site of the Mishap

This visit need be undertaken as early as possible so that you are able to see the evidence available before it is modified or destroyed. Everybody is used to use camera in some fashion or otherwise. So take your camera and take photographs as many as possible. The camera does not tell lie and these photographs will be very useful. Do not depend on the professional photographers deployed by the Investigation department or official photographers, because these professional photographers show what there want and hide others.

During your visit, listen what the persons present there want to tell you and hesitate to express your view. The questions be so framed so that these answers is not single 'yes' or 'no' but try to get needed information.

As early possible write down what has been told and no editing be done to connect the various statement. Keep these in original form.

Having collected the available information proceed to find answers to the following questions:-

- (1) What happened?
- (2) When it happened?
- (3) Could the mishap been avoided?
- (4) What lessons can be learnt for future?

While answering these questions to give precise information that happened at 8.05 AM of 9.05.06 rather than morning of 9th May 2006. This information will be useful while connecting various events, time of arrival, timings of train etc.

Answering as to what happened? Detail, event mishap as reported by the persons who reported to you and do not bring in outside evidence, however useful it may appear to build the story you want to handle. Legal experts will dismantle the whole fabricated story.

Could the accident have been averted? Should be, this small should be based on the evidence available and your experience. Do not hesitate to state your view point. If some other expert is to be quoted, plan state the reference cited in detail. There should not be general rambling.

Lastly spend time to answer the lessons that could be learnt from the mishap. While doing so be careful to avoid direct reference to any person involved. The lessons should constitute an overview of the whole incident / accident / mishap.

Two day All India Seminar on "Safety in Construction Industry"

The Tamilnadu State Centre of The Institution of Engineers (India) had organized two day All India Seminar on "Safety in Construction Industry" at Hotel GRT Grand, Chennai on 27th & 28th July 2007. Shri Hans Raj Verma IAS, Chairman, Tamilnadu Electricity Board inaugurated the Seminar and delivered the Inaugural Address. Smt Elizabeth Verghese, FIE, Chairperson of the Hindustan Group of Institutions delivered a special address and Shri J Ganguly, Executive Vice President, Larsen & Toubro Ltd. delivered the Keynote address on the theme. Earlier, Er. R Nagalingam, Chairman, Tamilnadu State Centre welcomed the gathering. Er T M Gunaraja, Convener, talked about the theme of the Seminar and briefed about the technical sessions to be followed during two days. Er O P Goel, Chairman, Safety & Quality Forum presided over the function and congratulated the Tamilnadu State Centre for organizing this Seminar and he recalled the successful conduct of the TQM Seminar conducted last year under the auspices of the SQF. The Inaugural Session was concluded with a vote of thanks proposed by Er P R Seshadri, Organising Secretary of the Seminar. There were six technical sessions and each sessions were chaired by eminent engineers like Er P T G Sundaram etc.

About 25 technical papers were presented from TNEB, Southern and Northern Railway, CPWD, Larsen & Toubro Ltd., Gammon India, Safety Consultants, Inspectors of



Factories, Faculty from Hindustan College of Engineering, Neyveli Lignite Corporation Ltd., Military Engineers Services, etc. About 150 delegates took part in the Seminar. M/s. Larsen & Toubro Ltd. and the Hindustan Group of Institutions were the Patrons of the Seminar. Chennai Water Desalination Plant of IVRCL and the State Bank of India were the Co-sponsors. At the end of the Technical Sessions, a Panel Discussion was held and the report of the Panel Discussion was presented by Er P R Seshadri, Organising Secretary at the Concluding Session. The seminar concluded with a vote of thanks proposed by Er K Sivaprakasam.

All India Seminar on Safety on Roads

All India Seminar on "Safety on Roads" was organized in the premises of The Institution of Engineers (India), Punjab & Chandigarh State Centre during September 21-22, 2007.

Er. O P Goel, Past President, IE (I) and Chairman, Safety & Quality Forum, The Institution of Engineers (India) was the Chief Guest at the Inaugural Function. Brig. (Retd.) Gobinder Singh (AVSM) DCRO delivered the keynote address. Er. H K Sharma, CMD, Satluj Jal Vidyut Nigam Ltd. presided over the function. Sh. H S Dhillon, I P S, Inspector General (Traffic), Punjab was the Guest of Honour. Er. H C Sethi, Chief Organizer introduced the theme and sub themes of the Seminar. Er. H C S Berry, Chairman, Punjab & Chandigarh State Centre welcomed the distinguished Guests.

14 papers received from specialists in various fields for different sub themes such as safe road design, road safety audit, children safety, emergency medical services for road accidents were presented in four technical sessions. Case studies on Traffic scenario in Chandigarh with measures to reduce the congestion & accidents and Road Accidents in Hyderabad were also presented. These papers were deliberated in four technical sessions.



The Valedictory function was held on September 23, 2007, where Er. R S Sandhu, IAS, Financial Commissioner, Development, Punjab Govt. was the Chief Guest. Er. D P Gupta, Director General (MoST) (Retd.) presided over the function.

Sh. Sanjeev Kalra, IPS, IGP Jalandhar Zone, spoke on the theme EMERGENCY MEDICAL SERVICES FOR ROAD ACCIDENTS. Er. Shyam Sunder, Honorary Secretary, The Institution of Engineers (India), Punjab & Chandigarh State Centre proposed the vote of thanks.

The function was attended by more than 150 Engineers.

BOG MEMBERS-SQF

Shri D. K. Gowda, President, IEI

Shri O P Goel, Chairman, SQF

Prof. (Dr.) S. C. Naik, Past President, IEI

Shri Pradeep Chaturvedi, Former Chairman, SQF

Dr. G S Yadava, Chairman, IEI-DSC

Shri R N Rajpoot, Hony. Secretary, IEI-DSC

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Prof. (Dr.) Damodar Acharya, Director, IIT Kharagpur

Shri A Chakrabarti, DG, CPWD

Shri Vilas N Gaikwad, Chief Safety Officer, Tata Steel Ltd.

Shri K L Meena, Chief Inspector of Factories, Labour Deptt., Govt of NCT of Delhi

Shri S K Chowdhary, Council Member-IEI

Shri K B Rajoria, Council Member-IEI

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Shri R. K. Bagrodia, Chairman, Winsome Breweries Ltd.

Dr. Prahlada, Distinguished Scientist, Chief Controller R&D, DRDO

Shri G. J. Gyani, Secretary General, Quality Council of India

Shri Rajinder Singh, General Manager (M), Head QAD, Oil & Natural Gas Corporation Ltd.

Shri V. K. Jain, General Manager (Safety), SAIL Safety Organisation, Steel Authority of India Ltd.

Shri K.C. Gupta, D.G., National Safety Council of India

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