

## Call for Papers

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### **International Conference and Workshop on Modeling and Mitigating the Consequences of Accidental Releases of Hazardous Materials, May 6 – 10, 1991, New Orleans, Louisiana, U.S.A.**

The Center for Chemical Process Safety (CCPS) invite you to submit a paper for the captioned conference. The conference is jointly sponsored by the Center for Chemical Process Safety (AIChE), the U.S. Environmental Protection Agency, the American Meteorological Society, and the Health and Safety Executive (United Kingdom).

The aim of the conference will be to discuss and disseminate improved methods for predicting the consequences of accidental releases of toxic or flammable materials.

The latest technology for the modeling of hazardous vapor cloud source and dispersion will be presented, as well as new development in the mitigation of the consequences of episodic releases of hazardous materials. A further major topic will be the prediction of the consequence of vapor cloud fires, explosions and BLEVEs. In addition, there will be presentations concerning the practical use of models in safe plant design, operation and emergency preparedness. During the final session, particular attention will be paid to the areas of research and development that are required in order to improve predictive dispersion and mitigation techniques for hazardous releases.

#### *Programme*

The conference will be conducted in four plenary sessions, as follows:

##### *Vapor cloud dispersion modeling*

Dense gas transport and dispersion — transient, time varying release — model evaluation (protocol and studies) — impact of local meteorology — physical modeling — 3D grid modeling — treatment of mixtures — effects of terrain and industrial sites — concentration fluctuations and averaging times.

Chairman: Doug N. Blewitt  
Amoco Corporation  
200 East Randolph Drive  
Mail Code 4903  
Chigaco, IL 60601  
Telephone No. (312) 856-6586

*Vapor cloud source modeling*

Spill pool evaporation, single and multicomponent — single and two-phase jet releases — hydraulic and flash atomization (i.e., aerosols) — instantaneous tank rupture — aerosol droplet dynamics (evaporation, agglomeration, break-up, reevaporation) — effect of refrigeration.

Chairman: Dave Guinnup  
 U.S. Environmental Protection Agency  
 MD-14  
 Research Triangle Park, NC 27711  
 Telephone No. (919) 541-5368

*Mitigation of episodic, hazardous releases*

Water application and curtains (for toxics and flammables) — foams — vapor barriers — steam curtains, etc.

Chairman: A.C. Barrell  
 Director of Technology and Air Pollution  
 Health and Safety Executive  
 St. Anne's House, Stanley Precinct  
 Bootle, Merseyside L20 3MF  
 United Kingdom  
 Telephone No. (011-44) 51-951-4574

*Vapor Cloud Explosions, Fires and BLEVEs Fire and Explosion Effects:*

Cloud combustion (turbulence and confinement effects), blast over-pressure prediction — fireball characterization and effects — flash fires — fragment prediction — dispersion of combustion products from fires — potential domino effects.

Chairman: John A. Davenport  
 Director-Research  
 Industrial Risk Insurers  
 85 Woodland Street  
 Hartford, CT 06102  
 Telephone No. (203) 520-7362

*Timetable*

Papers will be selected on the basis of abstracts, which must be submitted to one of the above-named session chairman, by *July 1, 1990*. Draft of papers will then be due *December 1, 1990*. additional information concerning this conference can also be obtained from:

Rudy Diener  
Program Chairman  
Exxon Research and Engineering  
P.O. Box. 101  
Florham Park, NJ 07932  
Telephone No. (201) 765-1633

or Sandy Schreiber  
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12th Floor  
345 East 47th Street  
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