

Contents Volume 5 (1981/1982)

Vol. 5, Nos. 1 + 2 (October 1981)

Editorial	1
Chemical incidents handled by the United Kingdom public fire service in 1980 A.D. Maclean (London, U.K.)	3
Precautions against accidents in chemical facilities W. Wohlleben and F. Vahrenholt (Berlin, F.R.G.)	41
Thermal decomposition of sponge blowing agents by pressure thermal analysis S. Morisaki, M. Naito and T. Yoshida (Tokyo, Japan)	49
Blast effect from a pancake shaped fuel drop—air cloud detonation (theory and experiment) B. Fishburn, N. Slagg and P. Lu (Dover, NJ, U.S.A.)	65
Mixing alternatives for the polyester microencapsulation process for immobilization of hazardous residuals R. Mahalingam, P.J. Jain, R.K. Biyani and R.V. Subramanian (Pullman, WA, U.S.A.)	77
Investigation of polychlorinated biphenyls (PCBs) in natural gas pipelines and distribution systems in Wisconsin T.B. Sheffy, Madison, WI, U.S.A.)	93
Windmills, incinerators, and siting F.C. Whitmore and R.A. Carnes (Cincinnati, OH, U.S.A.)	103
Models for cryogenic liquid spill behavior on land and water P.K. Raj (Burlington, MA, U.S.A.)	111
Treatment techniques for spills of hazardous watersoluble chemicals — a feasibility study D. Shooter, W.J. Lyman (Cambridge, MA, U.S.A.) and J.R. Sinclair (Washington, DC, U.S.A.)	131
Polyester microencapsulation of decontamination chemicals (<i>Short Communication</i>) W.J. Bailey and R. Mahalingam (Pullman, WA, U.S.A.)	145
Book reviews	149
Forthcoming events	165
News item	168

Vol. 5 No. 3 (February 1982)

Mitigation of the vapor hazard from silicon tetrachloride using water-based foams R.M. Hiltz (Evans City, PA, U.S.A.)	169
On the flammability limits of saturated vapours of hydrocarbons S. Crescitelli, G. De Stefano, G. Russo and V. Tufano (Naples, Italy)	177
An experimental study on the conditions of safe oxidation of toluene with oxygen-carbon dioxide mixtures S. Crescitelli, G. De Stefano, L. Pistone, G. Russo and V. Tufano (Naples, Italy)	189
Hazard evaluation of organic peroxides V. Krishna Mohan (Hyderabad, India), K.R. Becker and J.E. Hay (Pittsburgh, PA, U.S.A.)	197
The identification and location of buried containers via non-destructive testing methods A.E. Lord, Jr., R.M. Koerner (Philadelphia, PA, U.S.A.) and F.J. Freestone (Edison, NJ, U.S.A.)	221
Hazardous landfill management, control options M.H. Corbin and P.B. Lederman (West Chester, PA, U.S.A.)	235

Meeting report	255
Book reviews	261
Announcement	265

Vol. 5, No. 4 (April 1982)

*Special Issue: Selection of papers presented at the Second Joint Symposium
"Compatibility of Plastics/Materials with Explosives" and "Processing Explosives"
Blacksburg, Virginia, U.S.A., October 14-16, 1980*

Preface	268
Pyronitrocellulose: Molecular weight distribution and processability D.J. Bullock, J.D. Cosgrove, B.C. Head, T.J. Lewis (Waltham Abbey, U.K.), E.J. Marshall, D. Wason and B.M. Watson (Stevenston, U.K.)	269
Biological treatment for waste streams from propellants and explosives manufacturing L.L. Smith (Radford, VA, U.S.A.), J. Carrazza and K. Wong (Dover, NJ, U.S.A.).	277
Al/Cu ₂ O thermite compatibility studies by X-ray photoelectron and X-ray induced Auger spectroscopy P.S. Wang, L.D. Haws, W.E. Moddeman (Miamisburg, OH, U.S.A.) and A. Rengan (Dayton, OH, U.S.A.)	297
Stability and compatibility studies with the inorganic explosive 2-(5-cyano- tetrazolato)pentaamminecobalt(III) perchlorate (CP) T.M. Massis, P.K. Morenus, D.H. Huskisson and R.M. Merrill (Albuquerque, NM, U.S.A.)	309
The stability and compatibility of TiH _x /KCIO ₄ pyrotechnics L.W. Collins (Miamisburg, OH, U.S.A.)	325
Corrosion problems in Ti/KCIO ₄ loaded devices when subjected to humidity environments T.M. Massis, J.T. Healey, D.H. Huskisson and W.G. Perkins (Albuquerque, NM, U.S.A.)	335
Real-time low-temperature decomposition of explosives — pentaerythritol tetra- nitrate H.N. Volltrauer (Princeton, NJ, U.S.A.)	353
Remote handling—blending of energetic materials R.L. Parks (Miamisburg, OH, U.S.A.)	359
The application of a chemiluminescence NO _x analyser to stability and compatibility testing I.G. Wallace and R.J. Powell (Waltham Abbey, U.K.)	373
Open-matrix very-low-density explosive formulations A.J. Tulis, J.L. Austing and D.E. Baker (Chicago, IL, U.S.A.)	387
Forthcoming event	393
Author Index	394
Contents Volume 5	395