

Analysis and Detection of Explosives

Published Papers, Reports and Presentations: 1988-1998

A Scientific Sleuthing Review Bibliography

Abramovich-Bar, S.; Bamberger, Y.; Ravreby, M. and Levy, S.
"Applications of Ion Chromatography for Determination and Identification of Chlorate, Nitrite, and Nitrate in Explosives and Explosive Residues"
Adv. Anal. Detect. Explos.: Proc. 4th Int. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 41-54

Allen, R.; Miller, R.; Sanderson, P. and Bartick, E.
"FTIR in the Forensic Analysis of Explosives and Epoxy Glues"
Presented: 200th ACS National Meeting Washington, DC August 26-31, 1990
Abstract: HIST 19

Almirall, J.R.; Bi, G. and Furton, K.G.
"The Analysis of High Explosives Residues by Solid-Phase Microextraction Followed by HPLC, GC/ECD and GC/MS"
Presented: 50th Anniversary Meeting, AAFS San Francisco, CA February 9-14, 1998 Abstract# B71
Abstract: Supelco SPME Brochure T498217 1998

Almirall, J.R.; Wu, L.; Bi, G.; Shannon, M.W. and Furton, K.G.
"The Field Recovery of Explosive Residues Using Solid-Phase Microextraction Followed by Chromatographic Analysis"
Proc. SPIE-Int. Soc. Opt. Eng., 1999 **3576** (Investigation and Forensic Science Technologies) 18-23

Andrasko, J.
"Detection of Organic Explosives by Solid Phase Microextraction"
Curr. Top. Forensic Sci. Proc. Meet. Int. Assoc. Forensic Sci. 14th Volume 4 Takatori, T. and Takasu, A. (Eds) Shunderson Communications Ottawa, Ont. 1997 pp. 206-208

Anonymous
"Improved Analysis and Identification of Nitramine and Nitroaromatic Explosives"
Waters Column 1994 Special Edition pp.12-14

Anonymous
"Explosive Simulants Used as Reliable Alternative to Live Explosives"
FAA Technology Today 1998, **7**(3) 1, 5

Arai, H. and Nakamura, J.
"Analysis of Triacetoneperoxide"
Curr. Top. Forensic Sci. Proc. Meet. Int. Assoc. Forensic Sci. 14th Volume 4 Takatori, T. and

Takasu, A. (Eds) Shunderson Communications Ottawa, Ont. 1997 pp. 209-214

Ark, F. and Chen, T.H.

"Multicomponent Analysis of Explosives"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 29-1 to 29-13

Ark, F. and Chen, T.H.

"Determination of the Impurity Concentration Profile in TNT"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 165-172

Ashraf-Khorassani, M. and Taylor, L.T.

"Qualitative Supercritical Fluid Chromatography/Fourier Transform Infrared Spectroscopy Study of Methylene Chloride and Supercritical Carbon Dioxide Extracts of Double-Base Propellant"

Anal. Chem. 1989, **61**(2) 145-148 January 15

Ashraf-Khorassani, M. and Taylor, L.T.

"Analysis of Propellant Stabilizer Components via Packed and Capillary Supercritical Fluid Chromatography/Fourier Transform Infrared Spectrometry"

J. High Resolut. Chromatogr. 1989, **12**(1) 40-44 January

Axon, B.W. and Gilbert, J.D.

"Recovery of Explosive Traces Using a Solution of Beta-cyclodextrin on Cotton Wool Swabs: Formation of Inclusion Complexes"

Presented: International Association of Forensic Sciences Meeting
Adelaide, Australia 1990 Abstract FE364

Bamberger, Y.; Levy, S.; Tamiri, T. and Zitrin, S.

"The Identification of Musk Ambrette During a Routine Test for Explosives"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 4-1 to 4-9

Bamberger, Y.; Margalit, Y. and Zitrin, S.

"Post Explosion Analysis by NMR Spectrometry"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 24-1 to 24-8

Baran, T.

"Identification of Explosive Materials"

Forensic Sci. Int. 1990, **46**(1-2) 139-142

Barnes, R.C.

"Making the Connection - The Nature of Bomb Scene Forensic Evidence"

Presented: International Association of Forensic Sciences Meeting

Adelaide, Australia 1990 Abstract FE388

Bartick, E.G.

"Infrared Analysis of Plastic Explosives by Internal Reflectance Spectroscopy"
Presented: International Association of Forensic Sciences Meeting
Adelaide, Australia 1990 Abstract CC335

Bartick, E.G. and Merrill, R.A.

"Analysis of Plastic Bonded Explosives II: Bulk Analysis by Infrared Internal Reflection Spectroscopy"
Proc. Inter. Symp. Forensic Aspects Trace Evid. FBI Quantico, VA June 24-28, 1991 pp. 277-279 Avail. NTIS PB94-145877

Baytos, J.F.

"Field Spot-Test Kit for Explosives"

Report 1991, LA-12071-MS Los Alamos National Lab., NM Order No. DE91015321 7 pp.
Avail. NTIS

from: *Energy Res. Abstr.* 1991, **16**(10) Abstract # 28440

Bazaki, H.; Kawabe, S.; Miya, H. and Kodama, T.

"Synthesis and Properties of High Energy Density Material (HNIW)"

Proc. Int. Pyrotech. Semin. 1997, 23rd, pp. 88-96 IIT Research Institute (English)

Bellamy, A.J. and Sammour, M.H.

"Stabilizer Reactions in Cast Double Base Rocket Propellants. Part III: Evidence for Stabilizer Interaction during Extraction of Propellant for HPLC Quantative Analysis"
Propellants, Explos. Pyrotech. 1993, **18**(1) 46-50 February

Bender, E.C.

"Indirect Photometric Detection of Anions for the Analysis of Low Explosives"
Crime Lab. Dig. 1989, **16**(3) 78-83 October

Bender, E.C.

"The Analysis of Dicyandiamide and Sodium Benzoate in Pyrodex by HPLC"
Crime Lab. Dig. 1989, **16**(3) 76-77 October

Bender, E.C.

"Recent Trends in Terrorist Bombings"

Presented: 46th Annual Meeting AAFS San Antonio, TX February 14-19, 1994 Abstract # B77

Bender, E.C.

"Analysis of Low Explosives"

in: *Forensic Invest. Explos.* 1998 Beveridge, A. - Ed. Taylor & Francis
London, U.K. pp. 343-388

Bender, E.C. and Crump, J.

"The Instrumental Analysis of Intact and Post Blast Water Gel and Emulsion Explosives"

in: *Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel* Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 179-188

Bender, E.; Hogan, A.; Leggett, D.; Miskolczy, G. and MacDonald, S.

"Surface Contamination by TNT"

J. Forensic Sci. 1992, **37**(6) 1673-1678 November

Berberich, D.W.; Yost, R.A. and Fetterolf, D.D

"Analysis of Explosives by Liquid Chromatography/Thermospray/Mass Spectrometry"

J. Forensic Sci. 1988, **33**(4) 946-959 July

Bergens, A. and Asplund, J.

"Determination of Nitrogen Dioxide Generated in Propellants and Explosives by Polarography and HPLC with Electrochemical Detection"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 15-1 to 15-10

Beveridge, A.D.

"Developments in the Detection and Identification of Explosive Residues"

Forensic Sci. Rev. 1992, **4**(1) 18-49 June

Beveridge, A.D.

"Analysis of Explosives"

Proc. Inter. Symp. Forensic Aspects Trace Evid. FBI Quantico, VA June 24-28, 1991 pp. 177-189 avail. NTIS PB94-145877

Bi, M.; Almirall, J.R. and Furton, K.G.

"Analysis of Explosives and Explosive Odors by Solid-Phase Microextraction

Followed by HPLC and GC-MS"

Presented: 214th ACS National Meeting Los Vegas, NV September 7-11, 1997 ANAL # 35

Biederman, G.B.

"Vapor Preconcentration in the Detection of Explosives by Animals in an Automated Laboratory Setting"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 463-472

Blackwood, L.G.; Gresham, G.L.; Larson, R.A. and Rae, C.

"Surface Contamination of Electronic Threat Device Prepared with Composition C-4 Plastic Explosives"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Treasury Dept, BATF October, 1997

Bladek, J. and Miszczak, M.

"Rapid Methods for Quantitation of Stabilizers and their Reaction Products in Propellants"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 199-207

Boumsellek, S.; Alajajian, S.H. and Chutjian, A.

"Negative-Ion Formation in the Explosives RDX, PETN, and TNT by Using the Reversal Electron Attachment Detection Technique"

J. Am. Soc. Mass Spectrom. 1992, **3**(3) 243-247

Boyars, C.

"Compatibility (Safety) Tests for Taggants in Explosives and Reducing the Explosion Sensitivity of Ammonium Nitrate Fertilizer"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF April 1996 pp. 111-115

Bromberg, E.E.A.; Carroll, A.L.; Fraim, F.W. and Lieb, D.P.

"Vapor Sampling Using Controlled Heating"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ November 13-15, 1991 pp. 552-558

Brown, M.E. and Rugunanan, R.A.

"A Temperature-Profile Study of the Combustion of Black Powder and its Constituent Binary Mixtures"

Propellants, Explos. Pyrotech. 1989, **14**(2) 69-75 April

Buechler, S.; Ornath, F. and Bigman, J.

"Advanced Methods of Sample Collection in Trace Explosives Detection"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Burns, D.T.

"The May Inquiry"

Presented: Explosion Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 51 January-March

Burns, D.T. and Lewis, R.J.

"Analysis and Characterization of Nitroglycerin-based Explosives by Gas Chromatography-Mass Spectrometry"

Anal. Chim. Acta 1995, **307**(1) 89-95

Burns, D.T. and Lewis, R.J.

"Analysis and Characterisation of Nitroglycerin Based Explosives by Proton Magnetic Resonance Spectroscopy and Gas Chromatography with Flame Ionisation Detection"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington,DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Burns, D.T.; Lewis, R.J. and Bridges, J.

"Systematic Approach to the Identification of Water-Gel Explosives"

Anal. Chim. Acta 1998, **375** 255-260

Burrows, E.P.

"Adduct Ions in Mass Spectrometry of Nitramine Munitions Compounds"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 299-307

Caddy, B.

"Capillary Electrophoresis of Explosives"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 220-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 52 January-March

Calisti, C.; La Claviere, M.C.; Minet J.J. and Hamart, A.M.

"Analysis of Explosives and Identification of Post-Blast Explosive Residues After a Bomb Attack"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington,DC December 4-8, 1995

Midkiff, C. -Ed. Treasury Dept., BATF October, 1997

Cano de Tatis, L.d.C.

"Explosives Incidents in Columbia 1993-1995"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington,DC December 4-8, 1995

Midkiff, C. -Ed. Treasury Dept., BATF October, 1997

Cappiello, A.; Famigliani, G.; Lombardozzi, A.; Massari, A. and Vadalìa, G.G.

"Electron Capture Ionization of Explosives with a Microflow Rate Particle Beam Interface"

J. Am. Soc. Mass Spectrom. 1996, **7**(8) 753-758

Casetta, B. and Garofolo, F.

"Characterization of Explosives by Liquid Chromatography/Mass Spectrometry Using Electrospray Ionization and Parent-Ion Scanning Techniques"

Org. Mass Spectrom. 1994, **29**(10) 517-525

Caulder, S. M.

"The Use of Explosive Reference Standards in the Manufacture and Detection of Energetic Materials"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair

November 12-15, 1996 FAA Atlantic City, NJ pp. 5-7

Chen, T.H.

"Comparative Study of RDX and HMX by DEPMS and TSLC/MS"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 309-321

Chen, T.H.

"History of Military Explosives Tagging Efforts - ICAO Tagging of Plastic Explosives"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF

April 1996 pp. 41-66

Chen, T.H. and Campbell, C.

"Diagnostic Scheme for Polynitroceage Compounds"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 265-269

Chen, T.H. and Ward, K.

"Rapid Analysis of DPA in Single-Base Propellants by Chemometric Methods"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C -Ed Dept. of Treasury, BATF October, 1997

Cheng, C.; Kirkbride, T.E.; Batchelder, D.N.; Lacey, R.J. and Sheldon, T.G.

"In Situ Detection and Identification of Trace Explosives by Raman Microscopy"

J. Forensic Sci. 1995, **40**(1) 31-37 January

Chladek, J.

"The Identification of Organic Peroxides"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 73-76

Chow, T.C.

"Characterization of Nitroaromatic Explosive Compounds by Particle Beam Liquid

Chromatography/Mass Spectrometry"

Presented: 205th ACS National Meeting Denver, CO March 28-April 2, 1993 ANYL # 28

Christian, D.

"The Identification of 'Gun Powder' Particles

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Chutjian, A.; Boumsellek, S. and Alajajian, S.H.

"Negative-Ion Formation in the Explosives RDX, PETN, and TNT Using the Reversal Electron Attachment Detection (READ) Technique"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ November 13-15, 1991 pp. 571-583

Chutjian, A. and Darrach, M.R.

"Improved Portable Reversal Electron Attachment (Read) Vapor Detection System for Explosives Detection"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair November 12-15, 1996 FAA Atlantic City, NJ pp. 176-180

Clark, A.; Deas, M.R.; Kosmidis, C.; Ledingham, K.W.D.; Marshall, A. and Singhal, R.P.

"Explosives Vapor Identification in Ion Mobility Spectrometry Using a Tunable Laser Ionization Source: A Comparison with Conventional ⁶³Ni Ionization"

JAERI - Conf. 1995, 95-005 (Vol. 2) 521-529

Collins, D.A.

"Modification to a Thermal Energy Analyzer with Associated Electronic Filtering for Improved Gas Chromatographic Analysis of Explosive Traces"

J. Chromatogr. 1989, **483** 379-383

Crippin, J.B.

"An Explosive Field Test Kit"

Presented: Fall 1988 Meeting, Southern Association of Forensic Scientists.

Crippin, J.B.

"Methylene Blue: A Microcrystalline Test for Perchlorates and Chlorates"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Crowson, A.

"Planes, Trains and Automobiles"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 50 January-March

Crowson, A.; Hiley, R.W.; Ingham, T.; McCreedy, T.; Pilgrim, A.J. and Townshend, A.

"Investigation into the Detection of Nitrated Organic Compounds and Explosives by Direct Chemiluminescence Emission During Thermally Induced Gas Phase Decomposition Reactions"

Anal. Comm. 1997 **34**(8) 213-216

Curby, W.A.

"Application of Facts About the Physical, Chemical and Colligative Properties of Explosives on the Design of More Efficacious EDS Sample Collection Procedures"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair

November 12-15, 1996 FAA Atlantic City, NJ pp. 8-17

Curtis, N.J.

"Isomer Distribution of Nitro Derivatives of Diphenylamine in Gun Propellants: Nitrosamine Chemistry"

Propellants, Explos. Pyrotech. 1990, **15**(5) 222-230 October

Curtis, N.J. and Berry, P.

"Derivatives of Ethyl Centralite in Australian Gun Propellants"

Propellants, Explos. Pyrotech. 1989, **14**(6) 260-265 December

Danylewych-May, L.L.

"Modifications to the Ionization Process to Enhance the Detection of Explosives by IMS"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ

November 13-15, 1991 pp. 672-686

Danylewych-May, L.L. and Cumming, C.

"Explosive and Taggant Detection with Ionscan"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1993 pp. 385-401

Davidson, W.R.; Stott, W.R.; Akery, A.K. and Sleeman, R.

"The Role of Mass Spectrometry in the Detection of Explosives"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ

November 13-15, 1991 pp. 663-671

Davidson, W.R.; Thomson, B.A.; Sakuma, T.; Stott, W.R.; Akery, A.K. and Sleeman, R.
"Modifications to the Ionization Process to Enhance the Detection of Explosives by API/MS/MS"
Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 653-662

Deak, J.S.; Clark, H.; Dagenais, C.; Jones, S.; McClure, D. and Richardson, B.W.
"Post-Blast Residue Analysis in the R.C.M.P. Laboratories"
Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 18-1 to 18-19

De Bruyne, P.A.M.; Arijs, J.; Vergauwe, D.A.G. and De Bisschop, H.C.J.V.
"The HPLC Determination of Some Propellant Additives"
Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 27-1 to 27-15

DeHaan, J.D.
"After the Blast - Investigation of Explosion Scenes"
Presented: 72nd Semi-Annual Seminar Calif. Assoc. Crim. Costa Mesa, CA October 20-22, 1988
Abstract: *J. Forensic Sci. Soc.* 1989, **29**(1) 43 January/February

DeHaan, J.D.
"Combustion Explosions Involving Household Aerosol Products"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

De Jong, A.L. and Verweij, A.
"High-Performance Liquid Chromatographic Separation of Diphenylamine and its Reaction Products with Nitrogen Oxides"
Propellants, Explos. Pyrotech. 1988 **13**(5) 152-156 October

Donaldson, T.P.
"Overview of United Kingdom Research"
Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 111-117

Donaldson, T.P.
"Research into the Deposition of Fertiliser Particulate"
Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 118-121

Douse, J.M.F.
"Trace Analysis of Explosives by Capillary Supercritical Fluid Chromatography with Thermal Energy Analysis Detection"
J. Chromatogr. 1988, **445**(1) 244-250

Doyle, J.N. and McCord, B.R.
"Novel Electrolyte for the Analysis of Cations in Low Explosive Residue by Capillary Electrophoresis"

J. Chromatogr., B: Biomed. Sci. Appl. 1998, **714**(1) 105-111

Doyle, R.J. Jr.

"Tandem Mass Spectrometry of Two New Nitramines: Hexanitrohexaazaisowurtizitane(HNIW) and Ammonium Dinitramide(ADN)"

Presented: 4th Inter. Symp. Anal. Detect. Explos. Jerusalem, Israel September 7-10, 1992 Abstract E1

Doyle, R.J. Jr.

"Sputtered Ammonium Dinitramide: Tandem Mass Spectrometry of a New Ionic Nitramine"

Org. Mass Spectrom 1993, **28**(2) 83-91

Druet, L.M. and Angers, J.

"LC/MS Studies of Ethyl Centralite Stabilized Propellants"

Propellants, Explos. Pyrotech. 1988, **13**(2) 87-94 June

Druet, L.M. and Degenhardt, C.A.E.M.

"Development of a Pyrolysis-Gas Chromatographic Method for Characterization of Plastic-Bonded Explosives"

Propellants, Explos. Pyrotech. 1990, **15**(1) 14-18 February

Edge, C.C.; Gibb, J.M. and Wasserzug, L.S.

"Comparative Analysis of the Vapor Headspace of Military-Grade TNT Versus NESTT TNT Under Dynamic and Static Conditions"

Proc. SPIE-Int. Soc. Opt. Eng. 1998, 3392 (Pt. 1, Detection and Remediation Technologies for Mines and Minelike Targets III) 502-508

Engelhardt, H.; Meister, J. and Kolla, P.

"Optimization of Post-Column Reaction Detector for HPLC of Explosives"

Chromatographia 1993, **35**(1/2) 5-12 January

Engelhardt, H.; Zapp, J. and Kolla, P.

"Sample Preparation by Supercritical Fluid Extraction in Environmental Food and Polymer Analysis"

Chromatographia 1991, **32**(11/12) 527-537 December

Erwin, L.T. and Hedglin, D.L.

"Identification of Cyanoguanidine in Pyrodex and Post Blast Residues of Pyrodex"

Presented: 46th Annual Meeting AAFS San Antonio, TX February 14-19, 1994 Abstract #B81

Espinoza, E. O'N.

"Nitrated Derivatives of Diphenylamine in Smokeless Gunpowder"

Presented: 71st Semi-Annual Seminar, California Association of Criminalists Berkeley, CA May 19-21, 1988

Espinoza, E. O'N. and Thornton, J.I.

"Characterization of Smokeless Gunpowder by Means of Diphenylamine Stabilizer and its Nitrated Derivatives"

Anal. Chim. Acta 1994, **288**(1-2) 57-69 March 30

Eitan, I.

"Sabotage Attempt on an Israeli Target Bangkok, March 1994"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 49 January-March

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Fell, N.F.; Widder, J.M.; Medlin, S.V.; Pesce-Rodriguez, R.A. and McNesby, K.L.

"Fourier Transform Raman Spectroscopy of Some Energetic Materials and Propellant Formulations"

Proc. Beijing Int. Symp. Pyrotech. Explos. 3rd 1995, 124-134 Yuiang, Ou -Ed. China Ordnance Society Beijing, Peopp. Rep. China

Fell, N.F.; Widder, J.M.; Medlin, S.V., Morris, J.B.; Pesce-Rodriguez, R.A. and McNesby, K.L.

"Fourier Transform Raman Spectroscopy of Some Energetic Materials and Propellant Formulations. II

J. Raman Spectrosc. 1996, **27**() 1-8

Feraday, A.W.

"The Semtex-H Story"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 67-72

Feraday, A.

"Large Fertiliser Bombs"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 50 January-March

Fetterolf, D.D.

"Contact Transfer of Explosives from Hands to Surfaces"

Presented: International Association of Forensic Sciences Meeting

Adelaide, Australia 1990 Abstract FE191

Fetterolf, D.D.

"Antibody-Based Field Test Kits for Drugs and Explosives"

Presented: 200th ACS National Meeting Washington, DC August 26-31, 1990 Abstract: HIST 16

Adv. Forensic Sci. Proc. Meet. Int. Assoc Forensic Sci., 13th Volume 5 296-301 Jacob, B. and Bonte, W. - Eds. Berlin, Verlag Dr. Koester 1995

Fetterolf, D.D.

"Detection of Explosives Residue by Ion Mobility Spectrometry"

Presented: 44th Annual Meeting, American Academy of Forensic Sciences New Orleans, LA
February 17-22, 1992 Abstract # B51

Fetterolf, D.D.

"FBI Laboratory Evaluation of Portable Explosives Vapor Detectors"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 33-1 to 33-18
Presented: International Association of Forensic Sciences Meeting
Adelaide, Australia 1990 Abstract FE193

Fetterolf, D.D.

"Antibody-Based Field Test Kits for Explosives"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992
Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 19-27

Fetterolf, D.D.

"Detection of Trace Explosives Evidence by Ion Mobility Spectrometry"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992
Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 117-131

Fetterolf, D.D.

"Detection and Identification of Explosives by Mass Spectrometry"

Forensic Appl. Mass Spectrom. 1995, 45-57 Yinon, Y. - Ed. CRC: Boca Raton, FL 1995

Fetterolf, D.D. and Clark, T.D.

"Detection of Trace Explosive Evidence by Ion Mobility Spectrometry"

Proc. First Inter. Symp. Explos. Detect. Technol. FAA Atlantic City, NJ November 13-15, 1991
pp. 689-702

J. Forensic Sci. 1993, **38**(1) 28-39 January

Fetterolf, D.D. and Clark, T.D.

"Detection of Explosives Residue by Ion Mobility Spectrometry"

Presented: 44th Annual Meeting, American Academy of Forensic Sciences New Orleans, LA
February 17-22, 1992

Fetterolf, D.D.; Mudd, J.L. and Teten, K.

"An Enzyme-Linked Immunosorbent Assay (ELISA) for Trinitrotoluene (TNT) Residues on Hands"

J. Forensic Sci. 1991, **36**(2) 343-349 March

Fetterolf, D.D.; Mudd, J.L. and Teten, K.

"Detection of TNT on Hands and Surfaces by Immunoassay"

Presented: International Association of Forensic Sciences Meeting

Adelaide, Australia 1990 Abstract FE192

Fetterolf, D.D. and Whitehurst, F.W.

"Detection of Explosives Residue by Ion Mobility Spectrometry"

Presented: 12th International Mass Spectrometry Conference, Amsterdam, The Netherlands August 26-30, 1991

Presented: 39th ASMS Conference on Mass Spectrometry and Allied Topics Nashville, TN May 19-24, 1991

Fine, D.H.; Rounbehler, D.P. and Curby, W.A.

"Dichotomous Key Approach for High Confidence Level Identification of Selected Explosive Vapors"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ November 13-15, 1991 pp. 505-509

Fink, C.L.; Micklich, B.J.; Sagalovsky, L.; Smith, D.L. and Yule, T.J.

"Explosives Detection Studies Using Fast-Neutron Transmission Spectroscopy"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair November 12-15, 1996 FAA Atlantic City, NJ pp. 142-147

Fink, M.; Myrick Jr, A.C. and Glick, C.

"Seal Bombs: To Everything There is a Porpoise"

presented: 75th Semi-annual Seminar, California Association of Criminalists Millbrae, CA May 10-12, 1990

Abstract: *J. Forensic Sci. Soc.* 1990, **30**(5) 319 Sept./Oct.

Flagan, R.C.; Smedley, G.T. and Phares, D.J.

"Aerodynamic Sampling of Particles from Surfaces"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair November 12-15, 1996 FAA Atlantic City, NJ pp. 71-76

Foulger, B.

"Additives to Aid Detection and Tracing of Explosives"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF April 1996 pp. 145-148

Foulger, B. and Hubbard, P.J.

"A Review of Techniques Examined by U.K. Authorities to Prevent or Inhibit the Illegal Use of Fertiliser in Terrorist Devices"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF April 1996 pp. 129-133

Fox, F.; Green, D.; Sisk, S.; Boghosian, J. and DiBartolo, R.

"Particle Characterization of Trace Explosives Solid Samples"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington,DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Fox, F.; Green, D.; Miller, J.; Sisk, S. and DiBartolo, R.

"Particle Characterization of Explosives Fingerprints and Standard Deposits"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair
November 12-15, 1996 FAA Atlantic City, NJ pp. 77-84

Fox, F.; Sisk, S.; DiBartolo, R.; and Miller, J.F.

"Rapid Screening Technique to Characterize Interferent Effects of Common Materials"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair
November 12-15, 1996 FAA Atlantic City, NJ pp. 85-90

Fox, F.; Sisk, S.; DiBartolo, R.; Miller, J.F. and Gandy, J.

"Immersion Studies of Aircraft Parts Exposed to Plastic Explosives"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair
November 12-15, 1996 FAA Atlantic City, NJ pp. 31-37

Fraim, F.W.; Achter, E.K.; Carroll, A.L. and Hainsworth, E.

"Efficient Collection of Explosive Vapors, Particles and Aerosols"

Proc. First Int. Symp. Explos. Detect. Technol. FAA Atlantic City, NJ November 13-15, 1991
pp. 559-570

Fu, H.; Wang, J. and Wu, Y.

"Study on Field Desorption Mass Spectra and Desorption Electron Impact Mass Spectra of Four New Type Gunpowders"

Fenxi Huaxue 1993, **21**(9) 1068-1070 (in Chinese)

Fu, R.; Tian, L.; Liu, H. and Pang, Z.

"Identification of Thirteen Kinds of Explosives by Pyrolysis Gas Chromatography"

Binggong Xuebao 1988, (1) 52-58 (in Chinese)

Fuller, G.H.

"The Nationwide Pilot Test for the Identification Tagging of Explosives: Description and Results Summary"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF April 1996 pp. 271-277

Garcia, M.M. and Harpalani, S.

"Distribution and Characterization of Gases Produced by Detonation of Explosives in an Underground Mine"

Min. Sci. Technol. 1989, **8**(1) 49-58

Garofolo, F.; Longo, A.; Migliozi, V. and Tallarico, C.

"Quantitative Analysis of Thermostable Explosive Compounds by Combined Liquid Chromatography/Tandem Mass Spectrometry"

Rapid Comm. Mass Spectrom. 1996, **10**(10) 1273-1277

Garofolo, F.; Marziali, F.; Migliozi, V. and Stama, A.

"Rapid Quantitative Determination of 2,4,6-trinitrotoluene by Ion Mobility Spectrometry"

Rapid Comm. Mass Spectrom. 1996, **10**(11) 1321-1326

Garofolo, F.; Migliozi, V. and Roio, B.

"Application of Ion Mobility Spectrometry to the Identification of Trace Levels of Explosives in the Presence of Complex Matrices"

Rapid Comm. Mass Spectrom. 1994, **8** 527-532

Giam, C.S.; Ahmed, M.S.; Weller, R.R. and Derrickson, j.

"Fourier Transform Ion-Cyclotron Resonance (FT-ICR) Mass Spectrometry of RDX, PETN and Other Explosives"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ November 13-15, 1991 pp. 687-688

Giam, C.S.; Holliday, T.L.; Ahmed, M.S.; Reed, G.E. and Zhao, G.

"Pseudo-molecular Ion Formation of Explosives in FT-ICR-MS"

Proceedings of SPIE ---the International Society for Optical Engineering 1994, **2092** Substance Detection Systems

Proceedings October 5-8, 1993 pp. 227-237

Giam, C.S.; Zhao, G.; Holliday, T.L.; Reed, G.E. and Mercado, A.

"EC-FT-ICR-MS to Predict Thermolytic Bond Fission and Products of Explosives"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Gilbert, B.D.; Janni, J.; Moss, D.; Field, R.W.; Steinfeld, J.I.; Kniepp, K.; Wang, Y.; Dasari, R.R. and Feld, M.S.

"Spectroscopic Detection Methods for Explosive Molecules and Their Fragmentation Products"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Glattstein, B.

"Process and Test Kit for the Detection of Explosives"

Pat. Specif. (Aust.) AU 602,734 25 Oct 1990

Appl. 87/80,477 29 Oct 1987 16 pp.

Glattstein, B.; Abramovich-Bar, S.; Tamiri, T. and Zitrin, S.

"A New Approach to the Post-Explosion Analysis of Inorganic Ions"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Glattstein, B.; Landau, E. and Zeichner, A.

"Identification of Match Head Residues in Post Explosion Debris"

J. Forensic Sci. 1991, **36**(5) 1360-1367 September

Glish, G.L.; McLuckey, S.A.; Grant, B.C. and McKown, H.S.

"Tandem Mass Spectrometry for Explosives Vapor Detection"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ

November 13-15, 1991 pp. 642-652

Gloger, M.

"Forensic Analysis of Drugs and Technical Products by Gas Chromatography and Mass Spectrometry"

Analytical Methods in Forensic Chemistry, Ho, M.H. - Editor Ellis Horwood

New York 1990 pp. 32-39

Gonzalez, M.E.; Anderson, D.K. and Spall, D.

"Identity Tagging for Explosives with Ultra-Trace Rare Isotopic Elements"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF

April 1996 pp. 1-6

Gotzmer, C.

"Prevention of Fertilizer Based Bombs"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF

April 1996 pp. 67-90

Goulding, C.

"Trace Explosives Detection Systems in the Royal Canadian Mounted Police"

Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair
November 12-15, 1996 FAA Atlantic City, NJ pp. 193-206

Griest, W.H.; Guzman, C. and Dekker, M.

"Packed-column Supercritical Fluid Chromatographic Separation of Highly Explosive Compounds"

J. Chromatogr. 1989, **467** 423-429

Gunatilleke, W.D.G.S. and Mahesan, D.Y.

"Explosives, Explosions and Improvised Explosive Devices in the Sri Lankan Scenario"

Curr. Top. Forensic Sci. Proc. Meet. Int. Assoc. Forensic Sci. 14th Volume 4 Takatori, T. and
Takasu, A. (Eds) Shunderson Communications Ottawa, Ont. 1997 pp. 212-213

Haley, L.V. and Thekkadath, G.

"Laser Detection of Explosive Residues"

Pat. US 5760898 A 2Jun98 4pp Appl. US97-778236 8Jan97 CA 1998:37691

Hall, K.E. and McCord, B.R.

"The Analysis of Mono- and Divalent Cations Present in Explosive Residues Using Ion
Chromatography with Conductivity Detection"

J. Forensic Sci. 1993, **38**(4) 928-934 July

Hall, R.A.

"Booby Traps Associated with Violent Crime Investigations"

J. Forensic Sci. Soc. 1991, **31**(2) 255-257 April/June

Hamels, S. and DeBisschop, H.C.

"Screening of Post-Explosive Samples for Common High Explosive Components by MECC"

Biomed. Chromatogr. 1998, **12**(3) 107-108

Hargadon, K.A. and McCord, B.

"Capillary Zone Electrophoresis of Explosive Residues"

Presented: 43rd Southeast Regional ACS Meeting Richmond, VA November 12-15, 1991 Abstract
54

Hargadon, K.A. and McCord, B.

"Explosive Residue Analysis by Capillary Electrophoresis"

Proc. Inter. Symp. Forensic Aspects Trace Evid. FBI Quantico, VA June 24-28, 1991 pp. 275-
276 Avail. NTIS PB94-145877

Hargadon, K.A. and McCord, B.R.

"Explosive Residue Analysis by Capillary Electrophoresis and Ion Chromatography"

J. Chromatogr. 1992, **602**(1-2) 241-247

Hartell, M.G.; Pierce, M.Q.; Meyers, L.J.; Hallowell, S.F. and Petrusky, J.A.

"Comparative Analysis of Smokeless Powder Vapor Signatures Derived Under Static Versus Dynamic Conditions"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Hayward, I.P.; Kirkbride, T.E.; Batchelder, D.N. and Lacey, R.J.

"Use of a Fiber Optic Probe for the Detection and Identification of Explosive Materials by Raman Spectroscopy"

J. Forensic Sci. 1995, **40**(5) 883-884 September

Heimerl, J.; Frey, R.; Hillstrom, W. and Miziolek, A.

"Desensitizing ANFO"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF April 1996 pp. 23-29

Henderson, D.O., Silberman, E. and Snyder, F.W.

"Fourier-Transform Infrared Spectroscopy Applied to Explosive Vapor Detection"

Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ November 13-15, 1991 pp. 604-618

Henderson, I.K. and Saari-Nordhaus, R.

"Analysis of Commercial Explosives by Single Column Ion Chromatography"

J. Chromatogr. 1992, **602** 149-154

Hida, M. and Mitsui, T.

"Determination of Nitrocellulose in Smokeless Powders Using a Multivariate Analysis for Infrared Spectra"

Bunseki Kagaku 1998, **47**(11) 867-871

Hiley, R.W.

"Investigations of Thin Layer Chromatographic Techniques Used for Forensic Explosives Analysis in the Early 1970s"

J. Forensic Sci. 1993, **38**(4) 864-873 July

Hiley, R.W.

"Dinitrosopentamethylenetetramine-A Potential Interference in the Detection of Explosive Traces"

J. Forensic Sci. 1996, **41**(6) 975-979 November

Hiley, R.W.

"Quality Control in the Detection and Identification of Traces of Organic High Explosives"
in: *Forensic Invest. Explos.* 1998 Beveridge, A. - Ed. Taylor & Francis
London, U.K. pp. 315-342

Hilmi, A.; Luong, J.H.T. and Nguyen, A-L.

"Development of Electrokinetic Capillary Electrophoresis Equipped with Amperometric Detection for Analysis of Explosive Compounds"
Anal. Chem. 1999, **71** 873-878

Hintze, M.M.; Hansen, B.L. and Heath, R.L.

"Real-Time Explosives/Narcotics Vapor Enhancement and Collection Systems for Use with the Atmospheric Pressure Ionization Time-of-Flight Mass Spectrometer"
Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 634-636

Hobbs, J.R.

"Analysis of Semtex Explosives"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 409-427

Hobbs, J.R.

"Analysis of Propellants by Pyrolysis Gas Chromatography/Mass Spectrometry"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Hobbs, J.R. and Conde, E.

"Comparison of Different Techniques for the Headspace Analysis of Explosives"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 41-1 to 41-18

Hobbs, J.R. and Conde, E.

"Explosives Sample Analysis"

Technical Report - U.S.D.O.T. December 1989 (Distribution Limited)

Hobbs, J.R. and Conde, E.P.

"A Simple Inexpensive Thermal Desorption Method for the Trace Analysis of Headspace Vapors from Explosives and Organic Nitro Compounds"

Proc. Inter. Symp. Forensic Aspects Trace Evid. FBI Quantico, VA June 24-28, 1991 p. 269
Avail. NTIS PB94-145877

Hobbs, J.R. and Conde, E.P.

"Headspace Analysis of Explosives and Nitro Compounds"

Technical Report - U.S.D.O.T. October 1991 (Distribution Limited)

Hobbs, J.R. and Conde, E.P.

"Gas Chromatographic Retention Indices for Explosives"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 153-164

Hodges, C.M. and Akhavan, J.

"The Use of Fourier Transform Raman Spectroscopy in the Forensic Identification of Illicit Drugs and Explosives"

Spectrochim. Acta 1990, **46A**(2) 303-307

Hong, T.R.; Tang, C.P. and Lin, K.

"The Analysis of the Explosives of the Paper Detonator"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 145-152

Hopler, R.B.

"Today's Commercial Explosives Industry: Trends in Products and Operations"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Hopler, R.B.

"Ammonium Nitrate/Fuel Oil (ANFO) Blasting Agents: Background of Development, Manufacture, and Use"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Hopler, R.B.

"The History, Development and Characteristics of Explosives and Propellants"

in: *Forensic Invest. Explos.* Beveridge, A.D. - Ed. London, Taylor & Francis 1998 pp. 1-13

Hubball, J.

"The Use of Chromatography in Forensic Science"

Adv. Chromatogr. Vol. 32 Giddings, J.C.; Grushka, E. and Brown, P.R. (Editors) New York Marcel Dekker 1992, pp. 131-172

Hubbard, P.J.

"UK Experience of Large Urban Vehicle Bombs on the UK Mainland"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF April 1996 pp. 122-128

Huntamer, D.D.

"Microscopical Characterization of an Emulsion Explosive"

Microscope 1999, **47**(1) 1-4 First Quarter

Hussain, G. and Rees, G.J.

"Combustion of Black Powder. Part 1: Thermo-Analytical Studies"

Propellants, Explos. Pyrotech. 1990, **15**(2) 43-47 April

Hussain, G. and Rees, G.J.

"Combustion of Black Powder. Part II: FTIR Emission Spectroscopic Studies"

Propellants, Explos. Pyrotech. 1991, **16**(1) 6-11 February

Hussain, G. and Rees, G.J.

"Combustion of Black Powder. Part III: Hot Stage Microscopy Studies"

Propellants, Explos. Pyrotech. 1991, **16**(5) 227-231 October

Hussain, G. and Rees, G.J.

"Combustion of Black Powder. Part IV: Effect of Carbon and Other Parameters"

Propellants, Explos. Pyrotech. 1992, **17**(1) 1-4 February

Hwang, D.G. and Lee, M.R.

"Positive Chemical Ionization Mass Spectrometry of Nitrate Ester Explosives"

Huoyao Jishu 1991, **7**(4) 63-68 (in Chinese)

Hwang, D.G. and Lee, M.R.

"Trace Analysis of Nitrate Ester Explosives by Mass Spectrometry"

Huoyao Jishu 1992, **8**(1) 57-65 (in Chinese)

Hwang, D.G. and Lee, M.R.

"Negative Chemical Ionization Mass Spectrometry of Nitrate Ester Explosives"

Huoyao Jishu 1992, **8**(1) 17-24 (in Chinese)

Hwang, D.G.; Lee, M.R. and Chien, C.C.

"Electron Impact Mass Spectrometry of Nitrate Ester Explosives"

Huoyao Jishu 1991, **7**(3) 11-16 (in Chinese)

Hynek, S.J.; Meyers, S. and Shanley, E.S.

"Terrorists and Ammonium Nitrate, A Multi-Dimensional Problem"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 7-10

Inoue, Y.; Arakawa, S.; Ueda, N.; Yamamoto, J. and Nakashima, R.
"Rapid and Sensitive Analysis of Explosives by High Performance Liquid Chromatography and Gas Chromatography/Mass Spectrometry"
Tottori Daigaku Kogakubu Kenkyu Hokoru 1989, **20**(1) 97-104
from *Chem. Abstr.* **113**:81656

Irwin, A.
"Contamination Avoidance"
Presented: Explosion Investigation Symposium Belfast, Northern Ireland March 20-21, 1995
Abstract: *Sci. Justice* 1998, **38**(1) 51-51 January-March

Jandik, P.; Li, J.B.; Jones, W.R. and Gjerde, D.T.
"New Method of Background Eluent Conductivity Elimination in Gradient Ion Chromatography"
Chromatographia 1990, **30**(9/10) 509-517 November

Jenkins, A.; McGann, W. and Ribeiro, K.
"Extraction, Transportation and Processing of Explosives Vapor in Detection Systems"
Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 532-551

Johnson, D.J. and Compton, D.A.C.
"Quantitative Analysis of Nitrocellulose and Pulp in Gunpowder Using TGA-FTIR"
Amer. Lab. 1991, **23**(1) 37-43 January

Jones, L.
"A Forensic Scientist's View"
Presented: 46th Annual Meeting AAFS San Antonio, TX February 14-19, 1994
Abstract # D27

Jones, M.L. and Lee, E.
"Impact Sensitivity of Nitroglycerin"
J. Energ. Mat. 1997, **15** 193-204

Kaiser, M.
"Detection and Identification of Impurities in RDX and HMX by NMR Spectroscopy"
Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 28-1 to 28-18

Karpas, Z.
"Forensic Science Applications of Ion Mobility Spectrometry"
Forensic Sci. Rev. 1989, **1**(2) 103-119 December

Kastler, J.; Dubourg, V.; Diesenhofer, R. and Ballschmitter, K.
"Group Separation of Organic Nitrates on a New Nitric Acid Ester NP-LC Stationary Phase"
Chromatographia 1998, **47**(3/4) 157-163 February

Kaur, M.; Kumar, R. and Sharma, R.M.
"Analysis of Some Undetonated Explosives by Derivative-UV Spectrophotometry"
Curr. Top. Forensic Sci., Proc. Meet. Int. Assoc. Forensic Sci. 14th Volume 4 Takatori, T. and Takasu, A. (Eds.) 1997 Shunderson Communications Ottawa, Ont. pp. 228-234

Kee, T.G.; Holmes, D.M.; Doolan, K.; Hamill, J.A. and Griffin, R.M.E.
"The Identification of Individual Propellant Particles"
J. Forensic Sci. Soc. 1990, **30**(5) 285-292 September/October

Kenna, B.T.; Conrad, F.J. and Hannum, D.W.
"Explosive Vapor Emission"
Proc. First Inter. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ November 13-15, 1991 pp. 510-517

Kennedy, S.; Caddy, B. and Douse, J.M.F.
"Micellar Electrokinetic Capillary Chromatography of High Explosives Utilising Indirect Fluorescence Detection"
J. Chromatogr. A 1996, **726**(1-2) 211-222

Kennedy, S.; Caddy, B. and Douse, J.M.F.
"Capillary Electrophoresis of Explosives"
Adv. Forensic Sci., Proc. Meet. Int. Assoc. Forensic Sci. 13th Jacob and Bonte (eds) 1995, **3** 204-209

Keto, R.O.
"Analysis of the Eastern Bloc Explosive Semtex-H"
Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 11-1 to 11-20

Keto, R.O.
"Comparison of Smokeless Powders by Pyrolysis Capillary Gas Chromatography and Pattern Recognition"
J. Forensic Sci. 1989, **34**(1) 74-82 January

King, R.
"The Work of the Explosives and Gunshot Residues Unit of the Forensic Science Service"
Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1993 pp. 91-100

Kirkbride, K.P. and Kobus, H.J.
"The Explosive Reaction Between Swimming Pool Chlorine and Brake Fluid"
J. Forensic Sci. 1991, **36**(3) 902-907 May

Kirkbride, K.P.; Klass, G. and Pigou, P.E.

"Application of Solid-Phase Microextraction to the Recovery of Organic Explosives"

J. Forensic Sci. 1998, **43**(1) 76-81 January

Kishi, T.; Nakamura, J.; Komo-oka, Y. and Arai, H.

"Instrumental Analysis of Japanese Emulsion Explosives"

Adv. Forensic Sci. Proc. Meet. Inter. Assoc. Forensic Sci., 13th 1995, **3** 210-213

Jacob, B. and Bonte, W. Eds. Verlag Dr. Koester Berlin

Kishi, T.; Nakamura, J.; Komo-oka, Y. and Fukuda

A Scheme for the Analysis of Explosives and Explosive Residues in Japan"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 11-17

Kohler, H.

"Application of Chromatographic Methods for Identification and Separation of Explosives, their Degradation - and By-Products in Different Matrices e.g. Formulations, Water, Soil and Air"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 11-1 to 11-20

Kohler, H.

"Characterization of Coal-Mining Explosives by Classical Wet and Instrumental Methods"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992

Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 189-197

Kolla, P.

"Trace Analysis of Explosives from Complex Mixtures with Sample Pretreatment and Selective Detection"

J. Forensic Sci. 1991, **36**(5) 1342-1359 September

Kolla, P.

"Trace Analysis of Salt Based Explosives by Ion Chromatography"

Forensic Sci. Int. 1991, **50**(2) 217-226

Kolla, P.

"Detecting Hidden Explosives"

Anal. Chem. 1995, **67**(5) 184A-189A March 1

Kolla, P.

"Selective Detection in the Chromatographic Analysis of Explosives Residues"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Treasury Dept, BATF October, 1997

Kolla, P.

"The Application of Analytical Methods to the Detection of Hidden Explosives and Explosive Devices"
Agnew. Chem. Int. Ed. Engl. 1997, **36**(8) 801-811

Kolla, P.

"Stability of Explosives Traces on Different Supports Respecting the Detectability by EVD"
Proc. SPIE-Int.Soc. Opt. Eng. 1997, 2937 (Chemistry- and Biology- Based Technologies for Contraband Detection) 236-244

Kolla, P.

"The Electronic Detonator System for Coded Initiation of Explosives - A Possible Alternative to the Tagging of Explosives"
Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF April 1996 pp. 176-181

Kolla, P.; Engelhardt, H. and Zapp, J.

"Sample Preparation by Supercritical Fluid Extraction in Explosives Trace Analysis"
Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 55-65

Kolla, P. and Hohenstatt, P.

"Stability of Explosives Traces on Different Supports"
Forensic Sci. Int. 1993, **60**(1,2) 127-137 June

Kolla, P. and Sprunkel, A.

"Identification of Dynamite Explosives in Post Explosion Residues"
J. Forensic Sci. 1995, **40**(3) 406-411 May

Koons, R.D. and Whitehurst, F.C.

"Discrimination of Flash Powders by Elemental Composition of the Aluminum Component"
Presented: 44th Annual Meeting, American Academy of Forensic Sciences New Orleans, LA February 17-22, 1992 Abstract # B52

Krannich, H-J.; Streich, M. and Zimmermann, R.

"Investigation of the Grain Structure and Coal Dust Safety Rating of Powder-Based Safety Explosives"
Glueckauf-Forschungsh. 1998, **59**(2) 49-55 (German)

Krauss, R.A.

"Signatures of Explosives by Elemental Compositional Analysis"
Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair November 12-15, 1996 FAA Atlantic City, NJ pp. 18-25

Krol, J.; Alden, P. and Morawaski, J.

"Ion Chromatography of Alkyl and Alkanol Amines Using Conductivity Detection"

Presented: International Ion Chromatography Symposium 1991 Denver, CO October 6-9, 1991
Abstract # 61

Krone, U. and Treumann, H.
"Pyrotechnic Flash Compositions"
Propellants, Explos. Pyrotech. 1990, **15**(3) 115-120 June

Kudoh, M.
"Analysis of Combustion Residue of Chlorate Black Powder"
Kagaku Keisatsu Kenkyusho Hokoku Hokagaku-hen 1990, **43**(4) 161-167
from *Chem. Abstr.* **115**:152603

Kumooka, Y. and Beveridge, A.D.
"Post Explosion Analysis of Emulsion Explosives"
Kayaku Gakkaishi 1997, **58**(1) 36-41 (Japanese)

Kumooka, Y.; Nakamura, J. and Kishi, T.
"Analysis of Anions in Explosive Residues by Capillary Electrophoresis"
Kagaku Keisatsu Kenkyusho Hokoku, Hokagaku-hen 1992, **45**(4) 159-161 (in Japanese)

Kumooka, Y.; Takaichi, K. and Fukuda, H.
"Sensitivity and Detonation Velocity of the Explosive Mixture of Sodium Chlorite with Kerosine"
Kayaku Gakkaishi 1996, **57**(3) 120-122

Lapat, A.; Szekelyhidi, L. and Hornyak, I.
"Spectrofluorometric Determination of 1,3,5-trinitro-1,3,5-triazacyclohexane (hexogen, RDX) as a Nitramine Type Explosive"
Biomed. Chromatogr. 1997, **11**(2) 102-104

Laramée, J.A. and Deinzer, M.L.
"Tunable Energy (0.03 - 30 eV) Electron Capture Negative Ion Mass Spectrometry"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Laramée, J.A.; Mazurkiewicz, P.; Berkout, V. and Deinzer, M.L.
"Electron Monochromator-Mass Spectrometer Instrument for Negative Ion Analysis of Electronegative Compounds"
Mass Spectrom. Rev. 1996, **15** 15-42

Lau, L.K.M.; Fung, T.; Ohashi, K.N. and Beveridge, A.D.
"Pre-Blast and Post-Blast Examination of Emulsion Explosives"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Lawrence, A.H. and Elias, L.
"New Applications for Ion Mobility Spectrometry Detection Techniques"
in: *Instrumentation for Trace Organic Monitoring* Clement, R.E., Siu, K.W. and Hill Jr., H.H. -
Editors Lewis Publishers Ann Arbor, MI 1992 pp. 1-11

Lawrence, A.H. and Neudorfl, P.
"Detection of Ethylene Glycol Dinitrate Vapors by Ion Mobility Spectrometry Using Chloride Reagent Ions"
Anal. Chem. 1988, **60**(2) 104-109 January 15

Lawrence, K.C.
"Investigation of 'Water-Reactive' Explosives"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Leach, C.; Flower, P.; Hollands, R.; Flynn, S.; Marshall, E. and Kendrick, J.
"Plasticisers in Energetic Materials Formulations. A UK Overview"
Int. Annu. Conf. ICT 1998 29th (Energetic Materials) 2.1-2.14

Lee, H.G.; Lee, E.D. and Lee, M.L.
"Atmospheric Pressure Ionization Time-of-Flight Mass Spectrometer for Real-Time Explosives Vapor Detection"
Proc. First Int. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 619-633

Lee, M-R.; Hwang, D-G. and Tang, C-P.
"Trace Analysis of Explosives by Mass Spectrometry"
Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 5-1 to 5-12

Lee, M.R.; Hwang, D.G.; Kao, T.S.; Chien, C.C.; Lin, F.H. and Fang, J.M.
"Tandem Mass Spectrometry of HMX and RDX"
Huoyao Jishu 1991, **7**(1) 1-6 (Chinese)

Leginus, J.
"Antibody-Based Field Test Kits for Drugs and Explosives"
Presented: 43rd Southeast Regional ACS Meeting Richmond, VA November 12-15, 1991 Abstract
53

Lewis, R.

"NMR Method for the Analysis of NG-based Explosives"

Presented: Explosion Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 52 January-March

Linehan, S.T. and Fultz, M.L.

"The Separation of Explosives Using Non-Chlorinated Mobile Phases in Thin Layer Chromatography"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Liu, M.; Zhang, X. and Jiang, X.

"Low Pressure Ion Chromatography in Explosive Case Studies"

Shiou Huagong Gaodeng Xuexiao Xuebao 1999, **12**(1) 26-28 (Chinese)

Lloyd, J.B.F.

"Forensic Explosives and Firearms Traces: Trapping of HPLC Peaks for Gas Chromatography"

J. Energ. Mater. 1991, **9**(1-2) 1-17 March-June

Lloyd, J.B.F.

"HPLC of Explosives Materials"

Adv. Chromatogr. Vol. 32 Giddings, J.C.; Grushka, E. and Brown, P.R. (Editors) New York Marcel Dekker 1992, pp. 173-261

Lloyd, J.B.F and King, R.M.

"One-Pot Processing of Swabs for Organic Explosives and Firearms Residue Traces"

J. Forensic Sci. 1990, **35**(4) 956-959 July

Lloyd, J.B.F and King, R.M.

"Detection and Persistence of Traces of Semtex and Some Other Explosives on Skin Surfaces"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 9-1 to 9-14

Lowe, A. and Hiley, R.

"Cartridge Case Deformation Test"

J. Energ. Mater. 1998, **16**(4) 289-308

Lucero, D.P.

"Design of a High-Performance Gas-Phase Explosives Vapor Preconcentrator"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 39-1 to 39-12

Lucero, D.P. and Fortuna, J.F.

"Design of a Residue-Free Hand-Held Vapor/Particle Vacuum Sampler for Trace Detection Systems"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

MacCrehan, W.A.; Smith, K.D. and Rowe, W.F.

"Sampling Protocols for the Detection of Smokeless Powder Residues Using Capillary Electrophoresis"
J. Forensic Sci. 1998, **43**(1) 119-124 January

MacDonald, S.J. and Rounbehler, D.P.

"Calibration Methods for Explosives Detectors"

Proc. First Int. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 584-588

Marsh, P.E.

"Use of Microspectroscopy in a Demilitarization Accident Investigation"

CPIA Publ. 1998, **674** (Vol. 1, 1998 JANNAF Propellant Development & Characterization
Subcommittee and Safety & Environmental Protection Subcommittee Joint Meeting, Vol. 1) 279-289

McAuley, D.

"Unusual Remotely Delivered Devices"

Presented: Explosion Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 49-50 January-March

McAuley, D.

"The Development of Improvised Mortar Bombs in Northern Ireland by the Provisional IRA"

Presented: Explosion Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 50 January-March

McAvoy, Y. Backstrom, B.; Janhunen, K. Stewart, A. and Cole, M.D.

"Supercritical Fluid Chromatography in Forensic Science: A Critical Appraisal"

Forensic Sci. Int. 1999, **99**(2) 107-122

McAvoy, Y. and Cole, M.D.

"A Potential Method of the Analysis of Explosives by Supercritical Fluid Chromatography"

Presented: 50th Anniversary Meeting, AAFS San Francisco, CA February 9-14, 1998 Abstract#
B72

McAvoy, Y. Dost, K.; Jones, D.C.; Cole, M.D.; George, M.W. and Davidson, G.
"A Preliminary Study of the Analysis of Explosives Using Packed-Column Supercritical Fluid Chromatography with Atmospheric Pressure Chemical Ionization Mass Spectrometric Detection"
Forensic Sci. Int. 1999, **99**(2) 123-141

McCord, B.R.
"Applications of Supercritical Fluid Chromatography to Explosives Analysis"
Presented: 200th ACS National Meeting Washington, DC August 26-31, 1990 Abstract: HIST 18

McCord, B.R.
"A Comparative Analysis of Pipe Bomb Residues Using Ion Chromatographic Techniques"
Presented: 46th Annual Meeting AAFS San Antonio, TX February 14-19, 1994 Abstract # B82

McCord, B.R. and Bender, E.C.
"Chromatography of Explosives"
in: *Forensic Invest. Explos.* Beveridge, A.D. - Ed. London, Taylor & Francis 1998 pp. 231-265

McCord, B.R. and Hargadon, K.A.
"Explosive Analysis by Capillary Electrophoresis"
Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 133-144

McCord, B.R.; Hargadon, K.A.; Hall, K.E. and Burmeister, S.G.
"Forensic Analysis of Explosives Using Ion Chromatographic Methods"
Anal. Chim. Acta 1994, **288**(1-2) 43-56 March 30

McCord, B.R.; Hall, K.E.; Hargadon, K.A. and Whitehurst. F.W.
"A Systematic Approach to Inorganic Explosive Residue Analysis"
Presented: 44th Annual Meeting, American Academy of Forensic Sciences New Orleans, LA February 17-22, 1992 Abstract # B50

McCord, B.R. and Whitehurst. F.W.
"The Analysis and Characterization of TNT Using Liquid Chromatography with Photodiode Array Detection"
J. Forensic Sci. 1992, **37**(6) 1574-1584 November

McCorkell, W.
"Shankill Bombing"
Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995
Abstract: *Sci. Justice* 1998, **38**(1) 50 January-March

McCorkell, W.
"Provisional IRA Incendiary Campaign"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995
Abstract: *Sci. Justice* 1998, **38**(1) 51 January-March

McCrone, W.C.
"What's In Vial No. 3?"
Microscope 1993, **42**(2) 57-59

McCrone, W.C.; Andreen, J.H. and Tsang, S-M
"Identification of Organic High Explosives"
Microscope 1993, **41**(4) 161-182

McCrone, W.C.; Andreen, J.H. and Tsang, S-M
"Identification of Organic High Explosives,II"
Microscope 1994, **42**(2) 61-73

McDermott, S.D.
"An Unusual Explosive Find"
J. Forensic Sci. 1994, **39**(4) 1103-1106 July
Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995
Abstract: *Sci. Justice* 1998, **38**(1) 49 January-March

McDermott, S.D.
"Metal Particles as Evidence in Criminal Cases"
J. Forensic Sci. 1994, **39**(6) 1552-1559 November

McGann, W.; Bradley, V.; Borsody, A. and Lepine, S.
"A New High Efficiency Ion Trap Mobility Detection System for Narcotics and Explosives"
Proc. SPIE-Int. Soc. Opt. Eng. 1994, 2276 (Cargo Inspection Technologies) 424-436

McGann, W.; Jenkins, A. and Ribeiro, K.
"A Thermodynamic Study of the Vapor Pressures of C-4 and Pure RDX"
Proc. First Int. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1992 pp. 518-531

McGuire, R.R.; Lee, C.G.; Velsko, C.A. and Raber, E.
"Application of Stable Isotope Ratios to the Analysis of Explosive Residues"
Proceedings: 5th Inter. Symp. Anal. Detect. Explos. December 4-8 Washington, DC
Midkiff, C.-Ed Treasury Dept., BATF October, 1997

McKenzie, S.

"Work of the Anti-Terrorist Branch"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1998

Abstract: *Sci. Justice* 1998, **38**(1) 49 January-March

McKeown, J.

"The Combined CDR/Explosive Swabbing Kit"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21

Abstract: *Sci. Justice* 1998, **38**(1) 51 January-March

McKeown, W.J. and Speers, S.J.

"Automated Method for the Analysis by HPLC of Organic Explosive Residues by HPLC with a Pendant Mercury Drop Electrode Detector"

Science and Justice 1996, **36**(1) 15-20 January-March

McLuckey, S.A.; Glish, G.L. and Grant, B.C.

"Simultaneous Monitoring for Parent Ions of Targeted Daughter Ions: A Method for Rapid Screening Using Mass Spectrometry/Mass Spectrometry"

Anal. Chem. 1990, **62**(1) 56-61 January 1

McLuckey, S.A.; Goeringer, D.E.; Asano, K.G.; Vaidyanathan, G.
and Stephenson Jr., J.L.

"High Explosives Vapor Detection by Glo Discharge-Ion Trap Mass Spectrometry"

Rapid Commun. Mass Spectrom. 1996, **10**(3) 287-298

McMillen, G.

"From Bricks and Wood, To Identify and Conclude"

Presented: Meeting - Forensic Science Society Belfast, Northern Ireland September 29-30, 1989

Abstract: *J. Forensic Sci. Soc.* 1990, **30**(3) 163-164 May/June

McNesby, K.L.; Wolfe, J.E.; Morris, J.B. and Pesce-Rodriguez, R.A. "Fourier Transform Raman Spectroscopy of Some Energetic Materials and Propellant Formulations"

J. Raman Spectrosc. 1994, **25**() 75-87

Meng--lan, Y.; Guo--an, L. and Qui--lan, Z.

"A New Tool on Calculating the Explosive Quantity at the Explosive Scene -----Pincer Slide Rule"

Curr. Top. Forensic Sci. Proc. Meet. Int. Assoc. Forensic Sci. 14th Volume 4 280-281 Takatori, T. and Takasu, A. - Eds. Shunderson Communications Ottawa, Ont. 1997

Mercado, A.; Janni, J.; Gilbert, B. and Steinfeld, J.I.
"Novel Spectrometer Concepts for Explosives Detection Applications"
Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair
November 12-15, 1996 FAA Atlantic City, NJ pp. 91-99

Meyers, S. and Shanley, E.S.
"Industrial Explosives - A Brief History of Their Development and Use"
J. Hazard. Mater. 1990, **23**() 183-201

Midkiff, C.R. Jr.
"Identification and Characterization of Flash Powders"
Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 17-1 to 17-17

Midkiff, C.R. Jr.
"Analysis of Explosives and Explosive Residues: Evolution in the Field and Revolution in the Laboratory"
Presented: 46th Annual Meeting AAFS San Antonio, TX February 14-19, 1994
Abstract # B80

Midkiff, C.R. Jr.
"Recent Developments in Explosives Detection and Analysis"
Proc.: 5th Inter. Symp. Anal. Detect. Explos. December 4-8 Washington, DC
Midkiff, C.-Ed Treasury Dept., BATF October, 1997

Midkiff, C.R. Jr.
"Explosives Related Information in Forensic Journals - An inexpensive Database Search & Retrieval System"
Proc.: 5th Inter. Symp. Anal. Detect. Explos. December 4-8 Washington, DC
Midkiff, C.-Ed Treasury Dept., BATF October, 1997

Midkiff, C.R. and Byall, E.B.
"Explosives Evidence"
Proc. 12th INTERPOL Forensic Science Symposium Lyons, France October 20-23, 1998 Frank, R.S. and Peel, H.W. - Eds. Forensic Sciences Foundation Press 1999 pp. 113-135

Midkiff, C.R. and Tontarski, R.E. Jr.
Detection and Characterization of Explosives and Explosive Residues - A Review - Explosives Report 1989-1992
Presented: 10th International ICPO - INTERPOL Forensic Science Symposium Lyons, France November, 1992

Midkiff, C.R. and Tontarski, R.E. Jr.

Detection and Characterization of Explosives and Explosive Residues - A Review - Explosives Report 1992-1995

Presented: 11th International ICPO - INTERPOL Forensic Science Symposium Lyons, France November, 1995

Midkiff, C.R. Jr. and Walters, A.N.

"Slurry and Emulsion Explosives: New Tools for Terrorists, New Challenges for Detection and Identification"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1993 pp. 77-90

Miller, M.L.

"GC/MS Analysis of Unburned/Burned Smokeless Powders and Pipe Bomb Residues"

Presented: 46th Annual Meeting AAFS San Antonio, TX February 14-19, 1994 Abstract # B83

Miller, R.A.; Allen, R.A.; Bartick, E.G. and Merrill, R.A.

"Infrared Analysis of Low Explosives by Diffuse Reflectance Spectrometry"

Presented: 1990 Annual Meeting, Mid-Atlantic Association of Forensic Scientists Fredericksburg, VA May 16-18, 1990

Mindrup, R.F.

"SPME of Explosives for Analysis by Capillary GC"

The Reporter (Supelco) 1998, **17**(3) 3

Missliwetz, J.; Schneider, B.; Oppenheim, H. and Wieser, I.

"Injuries Due to Letter Bombs"

J. Forensic Sci. 1997, **42**(6) 981-985 November

Miszczak, M. and Bladdek, J.

"Quantative Measurement of Propellant Stabilizers with TLC and Liquid Chrystalline Method of Visualization"

Propellants, Explos. Pyrotech. 1993, **18**(1) 29-32 February

Mitsui, T. and Satoh, M.

"Determination of Ammonium Nitrate in Dynamite Without Separation by Multivariate Analysis Using X-ray Diffractometer"

J. Chem. Software 1998, **4**(1) 33-40

Mohler, R.B.

"Detection Tagging of Packaged Cap Sensitive Explosives"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 252-270

Mohnal, T.J.

"UNABOM"

Crime Lab. Dig. 1994, **21**(3) 41-45 July

Mostak, P.; Stancl, M. and Preussler, V.

"Consideration of Some Aspects of Marking Plastic Explosive Semtex"

*Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992
Jerusalem, Israel* Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 429-
436

Mostak, P. and Stancl, M.

"Marking of Emulsion Explosives for Detection"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Mulcahey, L.J. and Taylor, L.T.

"Application of Coupled Gel Permeation Chromatography and Fourier Transform Infrared
Spectrometry to the Analysis of Propellants"

LC-GC 1990, **8**(12) 927-932 December

Munder, A.; Christensen, R.G. and Wise, S.A.

"Microanalysis of Explosives and Propellants by On-Line Supercritical Fluid
Extraction/Chromatography with Triple Detection"

J. Microcol. Sep. 1991, **3**(2) 127-140

Murray, G.

"The Forensic Laboratory in a Terrorist Situation"

Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995

Abstract: *Sci. Justice* 1998, **38**(1) 49 January-March

Murray, G.

"Post-Blast Analysis: The Forensic Response.

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 134-140

Murray, G.

"The Terrorist Development of Improvised Explosives in Northern Ireland"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 141-144

Murray, G.

"The Significance of Analytical Results in Explosives Investigation"
in: *Forensic Invest. Explos.* 1998 Beveridge, A. - Ed. Taylor & Francis
London, U.K. pp. 389-401

Nacson, S.

"Adsorption Phenomena in Explosive Detection"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Nacson, S.; McNelles, L.; Nargolwalla, S. and Greenberg, D.

"Method of Detecting Taggants in Plastic Explosives Airport Trials and Solubility of Explosives"
Proc. 2nd Explos. Detect. Technol. Symp. Aviation Secur. Technol. Conf. Makky, W. -Chair
November 12-15, 1996 FAA Atlantic City, NJ pp. 38-48

Nacson, S.; Mitchner, B.; Legrady, O.; Siu, T. and Nargolwalla, S.

"A GC/ECD Approach for the Detection of Explosives and Taggants"
Proc. First Int. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 714-722

Nakamura, J.; Arai, H. and Ichiki, R.

"Simultaneous Determination of Trace Amounts of Organic Explosives and Related Compounds by GC/TEA"
Kayaku Gakkai 1997, **58**(1) 29-35 (Japanese)

Nakamura, J. and Norman, E.W.W.

"Supercritical Fluid Extraction of Post-Blast Debris"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Nakamura, J.; Kumooka, Y. and Arai, H.

"The Instrumental Analysis of Emulsion Explosive Residues"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed. Dept. of Treasury, BATF October, 1997

Neudorfl, P.; McCooeye, M.A. and Elias, L.

"Test Protocol for Surface-Sampling Detectors"
Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992
Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1993 pp. 373-384

Nilsson, A.; Sundberg, L.N. and Svensson, L.
"The Swedish HME-Market"

Proc. 12th INTERPOL Forensic Sci. Symp. Lyon, France October 20-23, 1998 385-387

Northrop, D. M.; Martire, D.E. and MacCrehan, W.A.

"Separation and Identification of Organic Gunshot and Explosive Constituents by Micellar Electrokinetic Capillary Electrophoresis"

Anal. Chem. 1991, **63**(10) 1038-1042 May 15

Nowicki, J. and Pauling, S.

"Identification of Sugars in Explosive Residues by Gas Chromatography-Mass Spectrometry"

J. Forensic Sci. 1988, **33**(5) 1254-1261 September

Oehrle, S.A.

"Analysis of Nitramine and Nitroaromatic Explosives by Capillary Electrophoresis"

J. Chromatogr. A 1996, **745**(1/2) 233-237

Oehrle, S.A.

"Analysis of New Explosives by Capillary Electrophoresis"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Oehrle, S.A. and Bouvier, E.S.P.

"Preconcentration and Analysis of Nitroaromatic and Nitramine Explosives in Water Using High Performance Liquid Chromatography (HPLC)"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Oehrle, S.A. and Massis, T.

"Analysis of Cobalt Based Explosives by Capillary Electrophoresis"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Okuyama, S.; Mitsui, T. Fijimura, Y.

"Determination of Mixing Ratios of Potassium Benzoate and Potassium Perchlorate by Multivariate Analysis with X-ray Diffraction Method"

X-sen Bunseki no Shinpo 1992, (Publ. 1993) **24** 161-169 (Japanese)

Oxley, J.C.

"Case History of an Ammonium Nitrate Emulsion Accident"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Oxley, J.C.

"Non-Traditional Explosives: Potential Detection Problems"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Park, S-W.; Jin, K-H.; You, J-H.; Kim, D-H.; Seo, B. and Kim, Y-S.

"Determination of Inorganic Acids by Capillary Zone Electrophoresis"

Anal. Sci. Technol. 1998, **11**(3) 213-221 (Korean)

Park, S-W.; Kim, D-H. and You, J.H.

"Forensic Analysis of Explosives (II)"

Anal. Sci. Technol. 1998, **11**(3) 33A-43A (Korean)

Park, S-W.; Yang, Y-G.; Hong, S-W.; Kim, T-J. and Paeng, K-J.

"Separation of Organic Explosives by Micellar Electrokinetic Capillary Electrophoresis"

Presented: International Forensic Science Symposium, Taiwan

November 27, 1994

Park, S-W.; Yang, Y-G.; Hong, S-W.; Kim, T-J. and Paeng, K-J.

"Improved Separation of Organic Explosives by Modified Micellar Electrokinetic Capillary Chromatography"

Anal. Sci. Technol. 1997, **10**(5) 325-331

Parker, C.M.

"Unique Characteristics and Identifying Features of Mail Bombs"

Presented: 44th Annual Meeting, American Academy of Forensic Sciences New Orleans, LA February 17-22, 1992 Abstract # B53

Peer, A.

"The 'EGIS' System as an Investigative Tool"

Presented: 4th Int. Symp. Anal. Detect. Explos. Jerusalem, Israel September 7-10, 1992 Abstract B4

Prime, R.J. and McGee, E.

"The Evaluation and Analysis of Plasticine or Modeling Clay After its Use as a Hoax Explosive Substance"

Presented: 39th Annual Meeting, C.S.F.S. Halifax, Nova Scotia August 20-25, 1992

abstract: *Can. Soc. Forensic Sci. J.* 1992, **25**(3) 158 September

Pukkila, J. and Jantti, S.

"Head Space Sampling of Volatile Explosive Residues by SPME"

Curr. Top. Forensic Sci. Proc. Meet. Int. Assoc. Forensic Sci. 14th Volume 4 214-217 Takatori, T. and Takasu, A. - Eds. Shunderson Communications Ottawa, Ont. 1997

Pukkila, J.; Turunen, R. and Karjanmaa, S.

"Detection of Nitroesters from Post Blast Debris by On-Line SFE/GC/Hall"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Randle, W.A.
"A Microchemical Test for Monomethylamine Nitrate"
Microscope 1997, **45**(3) 85-88

Reed, R.; Campbell, C. and Chen, T.H.
"Prediction of the Life-Time of a Taggant in a Composition"
Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 403-408

Reiner, G.A. and McNair, H.M.
"Ultra-Trace Analysis of Explosives by Gas Chromatography with Electron Capture Detection: An Optimization Study" (Abstract)
Proc. Inter. Symp. Forensic Aspects Trace Evid. FBI Quantico, VA June 24-28, 1991 pp 271-272 Avail. NTIS PB94-145877

Ritchie, R.K.; Kuja, F.J.; Jackson, R.A. Loveless, A.J. and Danylewich-May, L.
"Recent Developments in IMS Detection Technology"
Proceedings of SPIE ---the International Society for Optical Engineering 1994, **2092** Substance Detection Systems Proceedings October 5-8, 1993 pp. 76-86

Ritchie, R.K.; Thompson, P.C.P.; DeBono, R.F.; Danylewich-May, L. and Kim, L.
"Detection of Explosives, Narcotics and Taggant Vapors by an IMS Particle Detector"
Proceedings of SPIE ---the International Society for Optical Engineering 1994, **2092** Substance Detection Systems Proceedings October 5-8, 1993 pp. 87-93

Rodacy, P.
"The Minimum Detection Limits of RDX and TNT Deposited on Various Surfaces as Determined by Ion Mobility Spectroscopy"
Report 1993, SAND-92-0229; Order No. DE93018521 27 pp. from: *Energy Res. Abstr.* 1993, **18**(11) Abstract No. 33315

Rodacy, P.; Leslie, P.; Klassen, S. and Silva, R.
"Ion Mobility Spectroscopic Techniques for the Detection and Identification of Explosives"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Ronay, C.

"Security and Forensic Science as Applied to Modern Explosives"

Spec. Pub. - R. Soc. Chem. 1997, 203(Explosives in the Service of Man) 102-106

Rounbehler, D.P.; MacDonald, S.J.; Lieb, D.P. and Fine, D.H.

"Analysis of Explosives Using High Speed Gas Chromatography with Chemiluminescent Detection"

Proc. First Int. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 703-713

Sarthou, J.C.

"Application of a Desorption-Concentration-Injection Device (D.C.I. Platine) to Explosives Detection"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 37-1 to 37-10

Sawada, T.; Takahashi, M.; Takeuchi, F. and Sakai, H.

"Detector for Degree of Emulsification and Stability of Emulsion Explosives"

Pat. **Jpn. Kokai Tokkyo Koho JP 04,337,454 [92,337,454]** 25 Nov 1992 Appl. 91/137,095 14
May 1991 (Nippon Oil and Fats Co. Ltd.)

Scaplehorn, A.W.

"Birmingham Six Pub Bombing Case"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Analy. Detect. Explos., September 7-10, 1992
Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1993 pp. 1-10

Schärer, J.

"Switzerland's Explosives Identification Program"

Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 157-175

Schultz-Jander, D.A.; Redlich, D. and Parlar, H.

"Analysis of Nitroaromatic Explosives in the Lower ppt Range with Tandem-Immunoaffinity-Reversed-Phase Chromatography"

Presented: 214th ACS National Meeting Los Vegas, NV September 7-11, 1997 ANAL # 78

Selavka, C.M.; Strobel, R.A. and Tontarski, R.E.

"The Systematic Identification of Smokeless Powders"

Presented: International Association of Forensic Sciences Meeting
Adelaide, Australia 1990 Abstract FE268

Selavka, C.M.; Strobel, R.A. and Tontarski, R.E.

"The Systematic Identification of Smokeless Powders: An Update"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 3-1 to 3-25

Shani, Y.; Bukshpan, S. and Bromberg, A.

"An Automatic Detection System of Explosives"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Skidmore, C.B.; Phillips, D.S. and Crane, N.B.

"Microscopical Examination of Plastic Bonded Explosives"

Microscope 1997, **45**(4) 127-136 4th Quarter

Slack, G.C.; McNair, H.M. and Wasserzug, L.

"Characterization of Semtex by Supercritical Fluid Extraction and Off-Line GC-ECD and GC-MS"

J. High Resolut. Chromatogr. 1992, **15**(2) 102-104 February

Smith, K.D.; McCord, B.R.; MacCrehan, W.A.; Mount, K. and Rowe, W.F.

"Detection of Smokeless Powder Residue on Pipe Bombs by Micellar Electrokinetic Capillary Electrophoresis"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

J. Forensic Sci. 1999, **44**(4) 789-794 July

Snyder, A.P.; Liebman, S.A.; Schroeder, M.A. and Fifer, R.A.

"Characterization of Cyclotrimethylenetrinitramine (RDX) by Pyrolysis Water/Deuterium Oxide Atmospheric-Pressure Ionization Tandem Mass Spectrometry"

Org. Mass Spectrom. 1990, **25**(1) 61-66

Snyder, A.P.; Liebman, S.A.; Bulusu, S.; Schroeder, M.A. and Fifer, R.A.

"Characterization of Cyclotetramethylenetrinitramine (HMX) Thermal Degradation by Isotope Analysis with Analytical Pyrolysis - Atmospheric Pressure Ionization Tandem Mass Spectrometry"

Org. Mass Spectrom. 1991, **26**(12) 1109-1118

Spangler, G.E.

"A Study on the Stability of the (M+NO₂) Ion for RDX in Ion Mobility Spectrometry"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Steinfeld, J.I. and Wormhoudt, J.

"EXPLOSIVES DETECTION: A Challenge for Physical Chemistry"

Annu. Rev. Phys. Chem. 1998, **49** 203-232

Stine, G.Y.

"An Investigation Into Propellant Stability"
Anal. Chem. 1991, **63**(8) 475A-478A April 15

Suceska, M.

"Calculation of Thermodynamic Parameters of Combustion Products of Propellants Under Constant Volume Conditions Using the Virial Equation of State. Influence of Values of Virial Coefficients"
J. Energ. Mater. 1999, **17**(2/3) 253-278

Sullenger, D.B.; Cantrell, J.S. and Beiter, T.A.
"X-ray Powder Diffraction Patterns of Energetic Materials"
Powder Diffraction 1994, **9**(1) 2-14

Sundberg, L.N.; Svensson, L. and Wistedt, I.
"A Comparison Between EGIS Bombsniffer and GC-TEA"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Taka-Ichi, K-I
"Fluorimetric Determination of MMAN as a Sensitizer in Water Gel Explosives by HPLC Using Pre-Column Derivatization with 7-Dimethylaminocoumarin-3-Carbonyl Fluoride"
Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1993 pp. 209-222

Takeuchi, H.; and Shima, M.
"Investigation of Lower Explosive Dust Concentration Under Lower humidity Conditions"
Anzen Kogaku 1998, **37**(5) 320-326 (Japanese)

Tamiri, T.
"An Improved Procedure for Cleaning Post-Explosion Debris"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Tamiri, T. and Abramovich-Bar, S.
"Spot Tests for Screening Post-Explosion Debris"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Tamiri, T.; Zitrin, S.; Abramovich-Bar, S.; Bamberger, Y. and Sterling, J.
"GC/MS Analysis of PETN and NG in Post-Explosion Residues"
Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1993 pp. 323-334

Taylor, L.
"SFE Provides Quick Release of Stubborn Compounds"
R&D Magazine 1992, **34**(2) 78-80 February

Taylor, L.
"The Supercritical Fluid Extraction and Analysis of Aged Single-Base Propellants"
Amer. Lab. 1993, **25**(8) 22-26 May

Thornton, J.I. and Espinoza, E.O'N.
"Hazard of Testing Smokeless Gunpowder with Nitric Acid" (letter)
J. Forensic Sci. 1992, **37**(1) 5 January

Todd, C.
"The Detection and Identification of Explosives Residues with Reference to Legal Proceedings"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Tungol, M.W.; Whitehurst, F.W. and Keagy, R.L.
"Analysis of Plastic Bonded Explosives I: An Analytical Scheme for the Separation and Characterization of Components"
Proc. Inter. Symp. Forensic Aspects Trace Evid. FBI Quantico, VA June 24-28, 1991 p 273
Avail. NTIS PB94-145877

Vermette, J.Y.
"Criminal Explosion in a Mine"
Presented: Explosive Investigation Symposium Belfast, Northern Ireland March 20-21, 1995
Abstract: *Sci. Justice* 1998, **38**(1) 51 January-March

Verweij, A.; De Bruyn, P.; Choufoer, C. and Lipman, P.J.L.
"Liquid Chromatographic, Thermospray/Negative Ion, Tandem Mass Spectrometric (LC/TSP/MS/MS) Analysis of Some Explosives"
Forensic Sci. Inter. 1993, **60**(1,2) 7-13 June

Via, J.C. and Taylor, L.T.
"Chromatographic Analysis of Nonpolymeric Single Base Propellant Components"
J. Chromatogr. Sci. 1992, **30**(3) 106-110 March

Volk, F.

"Analysis of Reaction Products of Propellants and High Explosives"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989 pp. 12-1 to 12-18

Volk, F.

"Analysis of the Detonation Products of Insensitive High Explosives"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 223-239

Volk, F.

"Detonation Products as a Function of Initiation Strength, Ambient Gas and Binder Systems of Composite Explosives"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Voyksner, R.D.

"Modern Methods of LC/MS: Electrospray, Thermospray and Particle Beam"

Presented: 4th Int. Symp. Anal. Detect. Explos. Jerusalem, Israel September 7-10, 1992 Abstract K2

Wallace, C.L. and Midkiff, C.R. Jr.

"Smokeless Powder Characterization - A Investigative Tool in Pipe Bombings"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 455-461

Wallace, J.S. and McKeown, W.J.

"Sampling Procedures for Firearms and/or Explosives Residues"

J. Forensic Sci. Soc. 1993, **33**(2) 107-116 June

Walters, A.N.

"Systematic Approach to the Identification of Explosives Residues VIII: Ascorbic Acid Containing Propellants"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Walters, A.N. and Midkiff, C.R. Jr.

"Systematic Approach to the Identification of Explosive Residues. VII. Slurry/Gel and Emulsion Explosives"

Proc. Inter. Symp. Forensic Aspects Trace Evid. FBI Quantico, VA June 24-28, 1991 pp 267-268 Avail. NTIS PB94-145877

Warren, D.; Hiley, R.W.; Phillips, S.S. and Ritchie, K.
"Novel Technique for the Combined Recovery, Extraction and Clean-up of Forensic Organic and Inorganic Trace Explosives Samples"
Science & Justice 1999, **39**(1) 11-18 January-March

Watson, G.; Horton, W. and Staples, E.
"Vapor Detection Using SAW Vapor Detectors"
Proc. First Int. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 589-603

Whelan, J.P.; Kusterbeck, A.W.; Wemhoff, G.A.; Bredehorst, R. and Ligler, F.S.
"Continuous-Flow Immunosensor for Detection of Explosives"
Anal. Chem. 1993, **65**(24) 3561-3565 December 15

White, G. M.
"An Explosive Drug Case"
J. Forensic Sci. 1992, **37**(2) 652-656 March

Whitehurst, F.W.
"Toward a Complete Analysis of Mouldable Plastic Explosives"
Presented: 200th ACS National Meeting Washington, DC August 26-31, 1990 Abstract: HIST
17

Whitten, W.B.; Dale, J.M. and Ramsey, J.M.
"Detection of Explosives Material on Single Microparticles"
Proc. First Int. Symp. Explos. Detect. Technol. Khan, S.M. -Ed. FAA Atlantic City, NJ
November 13-15, 1991 pp. 637-641

Williams, D.
"The Bombing of the World Trade Center in New York City"
Inter. Crim. Pol. Rev. 1995, **452-453** 32-36

Williams, P.E.
"The Influence of the Reaction Rate of Explosives on Blast Effects"
Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995
Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Woodward, G.A.
"Code-B Microtracing System"
Compendium, Inter. Explos. Symp. Fairfax, VA September 18-22, 1995 Treasury Dept., BATF
April 1996 pp. 237-238

Woolfson-Bartfeld, D.; Grushka, E.; Abramovich-Bar, S. and Bamberger, Y.
"Detection and Analysis of Inorganic Anions in Explosive Residues by Reversed-Phase Ion-Pair Chromatography"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989, pp. 19-1 to 19-14

Woolfson-Bartfeld, D.; Grushka, E.; Abramovich-Bar, S.; Levy, S. and Bamberger, Y.

"Reversed-Phase Ion-Pair Chromatography with Indirect Photometric Detection of Inorganic Anions from Residues of Low Explosives"

J. Chromatogr. 1990, **517** 305-315

Wright, A.D.; Jennings, K.R. and Peters, R.

"Tandem Mass Spectrometric Identification of Explosives Adsorbed on Organic Substrates"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 291-298

Yelverton, B.J.

"Analysis of RDX Vapors in Pre- and Post-detonations Using the Ion Mobility Spectrometer Under Field Conditions"

J. Energ. Mater. 1988, **6**(1-2) 73-80 March/June

Yinon, J.

"Identification of Explosives' Mixtures by Tandem Mass Spectrometry (MS/MS)

Can. Soc. Forensic Sci. J. 1988, **21**(1/2) 46-53 March/June

Yinon, J.

"Forensic Identification of Explosives by Mass Spectrometry and Allied Techniques"

Forensic Sci. Rev. 1991, **3**(1) 17-27 June

Yinon, J.

"MS/MS Techniques in Forensic Science"

in: *Forensic Science Progress 5* 1991, Springer-Verlag Berlin Heidelberg, Germany pp. 2-29

Yinon, J.

"Environmental and Biomedical Applications of Analysis of Explosives"

Proc. Third Symp. Anal. Detect. Explos. Mannheim, FRG July 10-13, 1989, pp. 2-1 to 2-12

Yinon, J.

"MS/MS CID Fragmentation Processes in Nitronaphthalenes"

Adv. Anal. Detect. Explos.: Proc. 4th Inter. Symp. Anal. Detect. Explos., September 7-10, 1992 Jerusalem, Israel Yinon, J. -Ed. Kluwer Academic Publishers Dordrecht, Holland 1992 pp. 277-290

Yinon, J.; Bulusu, S.; Axenrod, T. and Yazdekhashti, H.

"Mass Spectral Fragmentation Pathways in Some Glycoluril-type Explosives. A Study by Collision-induced Dissociation and Isotope Labeling"

Org. Mass Spectrom. 1994, **29** 625-631

Yinon, J.; Johnson, J.V.; Bernier, U.R.; Yost, Y.A.; Mayfield, H.T.; Mahone, W.C. and Vorbeck, C.

"Reactions in the Mass Spectrometry of a Hydride Meisenheimer Complex of 2,4,6-Trinitrotoluene (TNT)"

J. Mass Spectrom. 1995, **30**(5)715-722

Yinon, J.; Yost, R.A. and Bulusu, S.

"Thermal Decomposition Characterization of Explosives by Pyrolysis-Gas Chromatography-Mass Spectrometry"

J. Chromatogr. 1994, **688** 231-242

Yinon, J. and Zitrin, S.

Modern Methods and Applications in Analysis of Explosives May 1993 New York, NY John Wiley & Sons Inc. 305pp.

Yinon, J.; Zitrin, S. and Tamiri, T.

"Reactions Observed in the Mass Spectrometry of Nitro-explosives"

Presented: 205th ACS National Meeting Denver, CO March 28 - April 2, 1993 ANYL # 83

Zaki, M.T.M.; Bassioni, H.H.; Sedra, M.N.R. and Attiya, S.M.

"Spectrophotometric Determination of Lead in Some Propellants"

Propellants, Explos. Pyrotech. 1990, **15**(1) 11-13 February

Zhou, H. and Nau, D.R.

"Solid Phase Extraction of Explosives Coupled to HPLC Analysis with Diode Array Detection"

Presented: HPLC '98 St. Louis, MO May 2-8, 1998

Zitrin, S.

"Twenty Five Years of Involvement in the Analysis of Explosives"

Proc. 5th Inter. Symp. Anal. Detect. Explos. Washington, DC December 4-8, 1995

Midkiff, C. -Ed Dept. of Treasury, BATF October, 1997

Zitrin, S.

"Analysis of Explosives by Infrared Spectrometry and Mass Spectrometry"

in: *Forensic Invest. Explos.* Beveridge, A.D. - Ed. London, Taylor & Francis 1998 pp. 231-265

Charles R. Midkiff
(301) 217-5720
FAX: (301) 413-5226

E-mail: Crmidkiff@aol.com
August 24, 1999