

## **PRESENTATIONS,** Edward G. Bartick

**DISCRIMINATION OF DYED TEXTILE FIBERS USING UV-VIS AND FLUORESCENCE MICROSPECTROPHOTOMETRY,** E.G. Bartick, S L. Morgan, A. Niewland, C. Mubarak, J. Hendrix, E. Enlow, and B. Vasser, at the European Fiber Group Annual Meeting, Prague, June 9-11, 2004.

**FORENSIC APPLICATIONS OF SPECTRAL IMAGING,** E. Bartick at the Pittsburgh Conference, March 8-9, 2004. (Invited paper in the symposium "Spectroscopy and Imaging in Homeland Security").

**RAMAN SPECTROSCOPY OF DYED FIBERS,** E. Bartick, B. Clelland, W. Pearman, K. Chen, S. M. Angel, J. Hendrix, and S. L. Morgan at the Pittsburgh Conference, March 8-9, 2004. (Invited paper in the symposium "Analytical Chemistry in Forensic Science").

**DISCRIMINATION OF DYED TEXTILE FIBERS USING UV-VIS AND FLUORESCENCE MICROSPECTROPHOTOMETRY,** E.G. Bartick, S L. Morgan, A. Niewland, C. Mubarak, J. Hendrix, E. Enlow, and B. Vasser, at SWGMAT, March 29-April 1, 2004.

**THE IDENTIFICATION OF TRACE MATERIALS FOUND WITHIN INFRARED SPECTRAL IMAGES OF LATENT FINGERPRINTS,** E.G. Bartick, at SWGMAT, March 29-April 1, 2004

**AUTOMOTIVE CARPET FIBER DATABASE RPP PROJECT,** E.G. Bartick and R. Fram at SWGMAT, March 29-April 1, 2004.

**THE ANALYSIS OF LATENT FINGERPRINT DEPOSITS BY INFRARED SPECTROSCOPY,** E. G. Bartick, D. K. Williams, and R. Schwartz-Perlman at the International Conference on Advanced Vibrational Spectroscopy, Nottingham, UK, August 25-29, 2003.

**DEVELOPMENT OF AN AUTOMOTIVE CARPET FIBER DATABASE,** R. Fram, and E.G. Bartick, was presented at the Research Partners Program conference in Minneapolis, MN, September 22, 2003.

**FORENSIC RAMAN MICROSCOPY OF FIBERS: THE EVALUATION OF MOUNTING MEDIA,** E.G. Bartick, W. Pearman, J. E. Hindrix, S. L. Morgan, and S. M. Angel, at the Federation of Analytical Chemists and Spectroscopy Societies (FACSS), Ft. Lauderdale, FL, October 20-23, 2003.

**THE ANALYSIS OF LATENT FINGERPRINT DEPOSITS BY INFRARED SPECTROSCOPY,** E. G. Bartick, D. K. Williams, J. Bruker-Serrano, and R. Schwartz-Perlman at the Federation of Analytical Chemists and Spectroscopy Societies (FACSS), Ft. Lauderdale, FL, October 20-23, 2003. (An award was given for particularly significant innovative analytical research presented as a poster.)

**HYPERSPECTRAL IMAGING OF LATENT FINGERPRINTS**, E.G. Bartick, R. Schwartz-Perlman, R. Bhargava, M. Schaeberle, D. Fernandez, and I. Levin, MAAFS meeting in Annapolis, May 5-9, 2003.

**1. KEYNOTE ADDRESS: FORENSIC ANALYSIS OF RAMAN SPECTROSCOPY: AN EMERGING TECHNOLOGY**, E. Bartick, **2. SPECTROCHEMICAL ANALYSIS AND HYPERSPECTRAL IMAGING OF LATENT FINGERPRINTS**, E.G. Bartick, R. Schwartz-Perlman, R. Bhargava, M. Schaeberle, D. Fernandez, and I. Levin, **3. FIBER EXAMINATION BY RAMAN SPECTROSCOPY**, E.G. Bartick, 16th Meeting of The International Association of Forensic Sciences (IAFS), Montpellier, France, Sept. 2-7, 2002.

**SPECTROCHEMICAL ANALYSIS AND HYPERSPECTRAL IMAGING OF FINGERPRINTS**, E.G. Bartick and R. Schwartz at the American Academy of Forensic Sciences (AAFS) Annual Meeting, Atlanta, Feb. 2002.

**A COMPARISON OF IR VERSUS RAMAN SPECTROSCOPY FOR THE FORENSIC ANALYSIS OF FIBER EVIDENCE**, E.G. Bartick, Polymer Science Seminar, Institute of Materials Science, University of Connecticut, 9/7/01,

**FORENSIC ANALYSIS OF POLYMERS USING VIBRATIONAL SPECTROSCOPY**, E.G. Bartick, Contemporary Topics in Polymer Science for the 21<sup>st</sup> Century, Institute of Materials Science, University of Connecticut, May 12, 2001.

**FORENSIC FIBER ANALYSIS BY RAMAN SPECTROSCOPY**, E. G. Bartick, at the workshop, "Forensic Applications of Raman Spectroscopy", AAFS Annual Meeting, Seattle, WA, 2/19-24, 2001.

**THE DEVELOPMENT OF A FORENSIC DATABASE OF TECHNICAL AND MANUFACTURING DUCT TAPE INFORMATION**, E.G. Bartick and R.A. Merrill, AAFS Annual Meeting, Feb. 2000.

**A DUCT TAPE DATABASE**, E.G. Bartick and R.A. Merrill, MAAFS Annual Meeting, May, 2000.

**APPLICATIONS AND FUTURE DIRECTIONS OF VIBRATIONAL SPECTROSCOPY IN FORENSIC ANALYSIS**, E.G. Bartick, FACSS, Sept. 2000.

**SPECTRAL IMAGING OF LATENT FINGERPRINTS**, E.G. Bartick, and R. Schwartz, FACSS, Sept. 2000.

**RESEARCH AND APPLICATIONS OF VIBRATIONAL SPECTROSCOPY IN FORENSIC ANALYSIS**, E.G. Bartick, The University of Rhode Island, Department of Chemistry invited speaker, December 1, 2000.

**THE FORENSIC ANALYSIS OF FIBERS**, E.G. Bartick, The University of Rhode Island, Partners in Forensic Science invited speaker, November 30, 2000.

**1) FORENSIC ANALYSIS OF SYNTHETIC FIBERS USING RAMAN SPECTROSCOPY**, J.V. Miller\* and E.G. Bartick, **ADVANCES OF INFRARED ATR ANALYSIS OF DUCT TAPE**, E.G. Bartick and R.A. Merrill, AAFS Annual Meeting, Orlando, 2/15-20/99

**RESEARCH AND APPLICATIONS OF MOLECULAR SPECTROSCOPY IN FORENSIC ANALYSIS**, University of Connecticut, Department of Chemistry Colloquium Series invited speaker, 3/24/1999.

**RESEARCH AND APPLICATIONS OF MOLECULAR SPECTROSCOPY IN FORENSIC ANALYSIS**, The University of South Carolina, Department of Chemistry invited speaker, 3/30/99.

**THE ANALYSIS OF SINGLE FIBERS BY RAMAN SPECTROMETRY**, SWGMAT Annual Meeting, Fredericksburg, VA, 4/26-30/99.

**1) FORENSIC FIBER ANALYSIS BY RAMAN MICROSCOPY**, E.G. Bartick and J. Miller, **2) IR ANALYSIS OF ELECTRICAL TAPES USING SINGLE REFLECTION**, R.A. Merrill\* and E.G. Bartick, MAAFS Annual Meeting, Ocean City, MD, 4/21-23/99.

**1) Organizer and Moderator of the Panelist Discussion on, RAMAN SPECTROSCOPY, AN EMERGING TECHNOLOGY FOR THE FORENSIC SCIENCES. Provided a presentation on an introduction to the above topic. 2) Organizer and moderator on Raman session of submitted papers (principally solicited) on applications to forensic science. Presented a paper entitled, FORENSIC FIBER ANALYSIS BY MICROSCOPICAL RAMAN SPECTROSCOPY. I coauthored a paper entitled, REMOTE RAMAN SAMPLE IDENTIFICATION, IAFS, Triennial Meeting, Los Angeles, CA 8/22-27/99.**

**RAMAN ANALYSIS OF SINGLE FIBERS WHILE MOUNTED ON GLASS MICROSCOPE SLIDES**, FACSS Annual Meeting, Vancouver, British Columbia, Canada, October 25-29, 1999.

**1) RAMAN ANALYSIS OF HYDROGEN PEROXIDE IN HAIR COLORANT**, E.G. Bartick, R.A. Merrill, and K. Mount, **2) DISCRIMINATION OF PHOTOCOPY AND PRINTER TONERS USING PATTERN RECOGNITION AND PYROLYSIS GAS CHROMATOGRAPHY/MASS SPECTROMETRY**, J. Eagan, Brian K. Kochanowski, Randolph C. Galipo, Stephen L. Morgan, Edward G. Bartick, Robert Mothershead, and Dennis C. Ward, AAFS Annual Meeting, San Francisco, 2/10-14/98.

**1) CHANGING TECHNOLOGY FOR THE ANALYSIS OF PRESSURE SENSITIVE ADHESIVE TAPES**, R.A. Merrill\* and E. G. Bartick **2) THE**

**APPLICATION OF RAMAN SPECTROSCOPY TO FORENSIC EXAMINATIONS**, E.G. Bartick, Mid-Atlantic Association of Forensic Scientists, Rockville, MD, 5/11-15/98.

**DISCRIMINATION OF PHOTOCOPY AND PRINTER TONERS USING INFRARED REFLECTION-ABSORPTION AND SCANNING ELECTRON MICROSCOPY**, William J. Eagan, Stephen L. Morgan, Rena A. Merrill, and Dennis C. Ward, FACSS Annual Meeting, Providence RI, 10/26-30/97.

**1) THE DEVELOPMENT AND EVALUATION OF A PHOTOCOPY TONER SPECTRAL DATABASE OBTAINED BY MICROSCOPICAL IR ANALYSIS**, E.G. Bartick and R.A. Merrill, **2) A TECHNICAL WORKING GROUP FOR MATERIALS EXAMINATION (TWGMAT) UPDATE**, E. G. Bartick, AAFS Annual Meeting, New York, 2/17-22/97.

**1) THE DEVELOPMENT AND ASSESSMENT OF A COPY TONER SPECTRAL DATABASE BY MICROSCOPICAL IR ANALYSIS**, E.G. Bartick and R.A. Merrill, **2) TECHNICAL WORKING GROUP FOR MATERIALS EXAMINATION (TWGMAT) REGIONAL MEETING, CHAIR OF SESSION AND PRESENTED AN UPDATE OF THE GROUP'S PROCEEDINGS**, E.G. Bartick, Mid Atlantic Association of Forensic Scientists, Annual Meeting, Roanoke, 4/29-5/2/97.

**FORENSIC DISCRIMINATION OF PHOTOCOPY TONERS BY FT-INFRARED REFLECTANCE SPECTROSCOPY**, E. G. Bartick, Rena A. Merrill, William J. Egan, Brian K. Kochanowski, and Stephen L. Morgan, 11th International Conference on Fourier Transform Spectroscopy, Athens, GA, 8/10-15/97.

**DISCRIMINATION OF PHOTOCOPY AND PRINTER TONERS USING INFRARED REFLECTION-ABSORPTION AND SCANNING ELECTRON MICROSCOPY**, Edward G. Bartick, William J. Eagan, Stephen L. Morgan, Rena A. Merrill, and Dennis C. Ward, FACSS Annual Meeting, Providence RI, 10/26-30/97

**1) THE PRESENT STATE OF CLASSIFICATION AND IDENTIFICATION OF UNDYED ACRYLIC FIBERS FROM THEIR INFRARED SPECTRA**, E.G. Bartick and M.C. Grieve, **2) TECHNICAL WORKING GROUPS FOR MATERIALS EXAMINATION - AN UPDATE OF WHERE THESE GROUPS ARE HEADED**, E.G. Bartick, **3) THE ROLE OF THE TECHNICAL WORKING GROUP FOR MATERIALS EXAMINATION**, presented in the Workshop, A Standardization in the Forensic Sciences: How to Make it Happen, **4) Meeting Chaired - one day: TECHNICAL WORKING GROUP FOR MATERIALS EXAMINATION**, AAFS Annual Meeting, Nashville, 2/19-24/96.

**TECHNICAL WORKING GROUP FOR MATERIALS EXAMINATION**, E.G. Bartick, Chaired the Meeting, FBI Academy, 11/4-8/96.

**1) INFRARED ANALYSIS OF PHOTOCOPY TONERS USING MICROSCOPICAL REFLECTION-ABSORPTION**, R.A. Merrill\* and E.G. Bartick, **2) OVERVIEW OF THE TECHNICAL WORKING GROUP FOR MATERIALS**

**EXAMINATION**, E.G. Bartick, **INTERNATIONAL SYMPOSIUM ON THE FORENSIC EXAMINATION OF TRACE EVIDENCE IN TRANSITION**, San Antonio, 6/24-28/96, E.G. Bartick organizer.

**THE EVALUATION OF A PHOTOCOPY TONER SPECTRAL DATA BASE OBTAINED BY MICROSCOPICAL IR ANALYSIS**, E.G. Bartick, and R.A. Merrill, Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Kansas City, 9/29-10/4/96.

**FORENSIC ANALYSIS OF COPY TONERS WITH INFRARED MICROSCOPICAL SPECTROMETRY: A COMPARISON OF SAMPLE PREPARATION AND SPECTRAL MEASUREMENT TECHNIQUES**, E.G. Bartick, R.A. Merrill and W.D. Mazzella, Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA, 2/13-18/95.

**FORENSIC CLASSIFICATION AND IDENTIFICATION OF SINGLE ACRYLIC FIBERS FROM THEIR IR SPECTRA**, presented by J.V. Goodpaster\*, E.G. Bartick, and M.C. Grieve, Seventh Annual Southeastern Graduate Polymer Conference, Virginia Polytechnic Institute and State University, 4/12-14/95.

1) **"AN EXPANSION OF THE CLASSIFICATION AND IDENTIFICATION OF SINGLE ACRYLIC FIBERS FROM THEIR IR SPECTRA**, E.G. Bartick, M.C. Grieve, and J.V. Goodpaster, 2) **"STUDIES OF TECHNIQUES FOR ANALYZING PHOTOCOPY TONERS BY IR**, R.A. Merrill\*, E.G. Bartick and W.D. Mazzella, Annual Meeting of the Mid-Atlantic Association of Forensic Scientists, Fairfax, VA, 5/10-12/95.

**THE PRESENT STATE OF CLASSIFICATION AND IDENTIFICATION OF UNDYED ACRYLIC FIBERS FROM THEIR INFRARED SPECTRA**," E.G. Bartick, M.C. Grieve and J.V. Goodpaster, Third Meeting of the Technical Working Group for Fiber Examination, FBI Academy, Forensic Science Research and Training Center, Quantico, VA, 5/31/95 - 6/2/95.

**IR ON UNDYED ACRYLIC FIBERS**, E.G. Bartick, M.C. Grieve and J.V. Goodpaster, Third Meeting of the European Fibres Group," Linköping National Laboratory Linköping, Sweden, 6/14-16/95.

**A COMPARISON OF SAMPLE PREPARATION AND MEASUREMENT METHODS BY INFRARED SPECTROMETRY FOR THE FORENSIC ANALYSIS OF COPY TONERS**, Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Cincinnati, 10/15-20/95.

1) **POLARIZED INFRARED MICROSCOPICAL ANALYSIS OF SINGLE POLY(ETHYLENE TEREPHTHALATE) FIBERS**, E.G. Bartick, and M.W. Tungol 2) **"REPORT ON THE FIRST MEETING OF THE TECHNICAL WORKING GROUP FOR FIBER EXAMINATION (TWGFIBE)**," Second Meeting of the

European Fibres Group, Bundeskriminalamt, Kriminaltechnisches Institut, Wiesbaden, Germany, 10/20-21/94

**POLARIZED INFRARED STUDY OF POLY(ETHYLENE TEREPHTHALATE) FIBERS**, Mary W. Tungol and E.G. Bartick., Second Meeting of The Technical Working Group for Fiber Examination (TWGFIBE), FBI Academy, Forensic Science Research and Training Center, Quantico, VA 22135, 11/30/94 - 12/2/94.

**EVALUATION OF AN INFRARED SPECTROSCOPIC AUTOMOBILE PAINT DATABASE**, E.G. Bartick and W.L. Tillman, First Meeting of the Technical Working Group for Paint Examination (TWGPAINT), FBI Academy, Forensic Science Research and Training Center, Quantico, VA 22135, 12/5-6/94.

**1) FORENSIC ANALYSIS OF COPY TONERS WITH INFRARED MICROSCOPICAL INTERNAL REFLECTION SPECTROSCOPY**, with R.A. Merrill and **2) NOVEL APPLICATIONS OF INFRARED MICROSPECTROSCOPY IN THE FORENSIC LABORATORY**, with M.W. Tungol\*, FACSS, Detroit, MI, October 17-22, 1993

**FORENSIC ANALYSIS WITH INFRARED MICROSCOPICAL INTERNAL REFLECTION SPECTROSCOPY**, E.G. Bartick, Eastern Analytical Symposium, Somerset, NJ, November 14-19, 1992

**AN APPROACH TO THE FORENSIC ANALYSIS OF BLACK PLASTIC TAPE**, E.G. Bartick, American Academy of Forensic Sciences, Annual Meeting, Boston, MA, February 15-20, 1993

**1) INFRARED ANALYSIS OF PHYSICAL EVIDENCE WITH MICROSCOPICAL INTERNAL REFLECTION SPECTROSCOPY**, E.G. Bartick, **2) THE ANALYSIS OF LOW EXPLOSIVES BY DIFFUSE REFLECTANCE SPECTROSCOPY**, E.G. Bartick and R. Miller, AAFS Annual Meeting, Baltimore, MD, May 20-21, 1993

**RESEARCH REPORT ON REMOTE SENSING OF VAPORS EMANATING FROM SIMULATED ILLEGAL DRUG PRODUCTION LABORATORIES**, E.G. Bartick, KA Kriminaltechnisches Institut, Police Science Group, Wiesbaden, Germany, Aug. 20, 1993.

**1) POLARIZED INFRARED MICROSCOPICAL ANALYSIS OF SINGLE POLY(ETHYLENE TEREPHTHALATE) FIBERS**, E.G. Bartick and M.W. Tungol, **2) ANALYSIS OF PHYSICAL EVIDENCE WITH MICROSCOPICAL INTERNAL REFLECTION SPECTROSCOPY**, E.G. Bartick, M.W. Tungol, and R.A. Reffner, **3) DIRECT ANALYSIS OF COPY TONERS WITH INFRARED MICROSCOPICAL INTERNAL REFLECTION SPECTROSCOPY**, E.G. Bartick and R.A. Merrill, IAFS Meeting, Dusseldorf, Germany, August 23-27, 1993

**FORENSIC APPLICATIONS OF MICROSCOPICAL INFRARED INTERNAL REFLECTION SPECTROSCOPY**, E.G. Bartick, M.W. Tungol\*, and R.A. Reffner, International Conference of FTS, Calgary, Alberta, Canada, Aug. 23-27, 1993

**AN APPROACH TO THE FORENSIC ANALYSIS OF BLACK PLASTIC TAPE**, E.G. Bartick and R.A. Merrill, American Academy of Forensic Sciences Annual Meeting, Boston, MA, 2/15-20, 1993.

**FORENSIC ANALYSIS WITH INFRARED MICROSCOPIC INTERNAL REFLECTION SPECTROSCOPY**, E.G. Bartick, M.W. Tungol, Eastern Analytical Symposium, Somerset, NJ, 11/14-19, 1992.

**1) INFRARED ANALYSIS OF EXPLOSIVES**, E.G. Bartick and R.A. Merrill,  
**2) FORENSIC ANALYSIS OF ACRYLIC FIBERS BY INFRARED MICROSCOPY**, Mary W. Tungol, Edward G. Bartick and Akbar Montaser  
Annual FACSS Meeting, Philadelphia, PA, 9/21-25/92.

**FORENSIC APPLICATIONS OF INFRARED MICROSCOPIC INTERNAL REFLECTION SPECTROSCOPY**, Edward G. Bartick and John A. Reffner  
Annual Meeting of the Microbeam Analysis Society, Boston, MA, 08/16-22/92

**1) FORENSIC ANALYSIS WITH FTIR MICROSCOPY**, E.G. Bartick,  
Workshop on Forensic Analysis with FTIR Microscopy, **2) ANALYSIS OF BALL POINT PEN INKS BY DIFFUSE REFLECTANCE INFRARED SPECTROMETRY**, Rena A. Merrill and Edward G. Bartick, MAAFS, Richmond, VA, 05/06/9

**ANALYSIS OF BALL POINT PEN INKS BY DIFFUSE REFLECTANCE INFRARED SPECTROMETRY**, Rena A. Merrill and Edward G. Bartick, American Academy of Forensic Sciences Annual Meeting, New Orleans, LA, 02/17-22/92

**TELESCOPIC INFRARED SPECTROMETRY: EVALUATION FOR FORENSIC APPLICATION**, E.G. Bartick, Workshop on Infrared Emission Measurements by FTIR, Quebec, Quebec, Canada, 02/12-14/92.

**1) INFRARED SPECTRAL FIBER DATA BASE I: IDENTIFICATION OF POLYMERIC COMPOSITION OF SINGLE FIBERS**, Mary W. Tungol and Edward G. Bartick, **2) INFRARED SPECTRAL FIBER DATA BASE II: MANUFACTURER INFORMATION FROM INFRARED SPECTRA AND PHYSICAL CHARACTERISTICS OF SINGLE FIBERS**, Edward G. Bartick, Mary W. Tungol and James F. Sprouse, FACSS, Anaheim, CA, 10/6-11/91.

**PLS QUANTITATIVE INFRARED ANALYSIS OF COCAINE WITH DIFFUSE REFLECTANCE SAMPLING**, Edward G. Bartick and Rena A. Merrill, International

Conference on Fourier Transform Spectroscopy, Lubeck-Travemunde, Germany, 9/1-6/91.

**ANALYSIS OF PLASTIC BONDED EXPLOSIVES I: BULK ANALYSIS BY INFRARED INTERNAL REFLECTION SPECTROSCOPY**, E. G. Bartick and R. A. Merrill, "International Symposium on the Forensic Aspects of Trace Evidence," FBI Academy, 6/24-28/91.

**RECENT DEVELOPMENTS IN FT-IR MICROSCOPE ANALYSIS OF SINGLE FIBERS**, Edward G. Bartick and Mary W. Tungol, "Annual Meeting of the American Academy of Forensic Sciences," Anaheim, CA, 2/18-23/91.

**FORENSIC APPLICATIONS OF INFRARED MICROANALYSIS**, Edward G. Bartick, at a users workshop on "Molecular Microspectroscopy," Eastern Analytical Symposium, Somerset, NJ, 11/15/90.

**1) THE USE OF FT-IR MICROSCOPIC ANALYSIS TO ENHANCE THE EVIDENTIAL VALUE OF TEXTILE FIBERS**, Mary W. Tungol, Edward G. Bartick and Akbar Montaser, **2) THE APPLICATION OF INFRARED MICROSCOPY FOR FIBER EXAMINATIONS: AN EVALUATION USING CASE SPECIMENS**, Mary W. Tungol, Edward G. Bartick, and Akbar Montaser, **3) A COMBINED INFRARED SPECTROSCOPIC AND TEXT DATA BASE FOR FORENSIC FIBER IDENTIFICATION**, Edward G. Bartick, Mary W. Tungol, Glenn R. Carroll, Eileen J. Carnahan and James F. Sprouse, **4) THE EVALUATION OF AN INFRARED SPECTROSCOPIC AUTOMOBILE PAINT DATA BASE**, Warren L. Tillman and Edward G. Bartick, **5) INFRARED ANALYSIS OF PLASTIC EXPLOSIVES BY INTERNAL REFLECTANCE SPECTROSCOPY**, Edward G. Bartick and Kelly N. Greene, IAFS, Adelaide, Australia, 10/24-30/90.

**1) FORENSIC ANALYSIS OF BALL POINT PEN INKS BY DIFFUSE REFLECTANCE INFRARED SPECTROMETRY**, Rena A. Merrill and Edward G. Bartick, **2) POLARIZED INFRARED MICROSCOPY OF SINGLE POLY(ETHYLENE TEREPHTHALATE) FIBERS**, Mary W. Tungol, Edward G. Bartick, and Akbar Montaser, FACSS, Cleveland, Ohio, 10/7-12/90.

**1) FORENSIC APPROACH TO THE ANALYSIS OF ADHESIVE TAPES**, E.G. Bartick\* and R.A. Merrill, **2) FT-IR MICROSCOPIC ANALYSIS OF SINGLE FIBERS: MORE SPECIFIC, CHEMICAL INFORMATION FOR FORENSIC EXAMINATIONS**, Mary W. Tungol, Edward G. Bartick, and Akbar Montaser, **3. FTIR IN THE FORENSIC ANALYSIS OF EXPLOSIVES AND EPOXY GLUES**, Ralph Allen, Russel Miller, Pamela Sanderson and Edward Bartick, American Chemical Society National Meeting, Washington, DC, 8/26-30/90.

**1) INFRARED ANALYSIS OF LOW EXPLOSIVES BY DIFFUSE REFLECTANCE SPECTROSCOPY**, E. G. Bartick and R. Miller, **2) USING INFRARED DATA BASES FOR FORENSIC APPLICATIONS**, E. G. Bartick, **3)**



**INFRARED MICROSCOPY OF SINGLE TEXTILE FIBERS**, E. G. Bartick and M.W. Tungol, MAAFS, Fredericksburg, VA, 5/17-18/90

**FT-IR MICROSCOPY FOR FIBER EXAMINATIONS**, NEAFS, Albany, NY, 10/20-21/89

**1) QUANTITATIVE ANALYSIS OF SINGLE COPOLYMER FIBERS USING INFRARED MICROSCOPY**, E. G. Bartick and M.W. Tungol, **2) EVALUATION OF MINOR SPECTRAL DIFFERENCES IN INFRARED MICROSCOPY**, E. G. Bartick, **3) THE APPLICATION OF A SPECTROSCOPIC DATA BASE OF SINGLE FIBERS OBTAINED BY SINGLE FIBERS**, Federation of Analytical Chemistry and Spectroscopic Societies, Chicago, IL, 10/1-5/89

**FT-IR SPECTROMETRY CAPABILITIES IN FORENSIC ANALYSIS**, E. G. Bartick, Pitt. Con., March 1989.

**AN APPROACH TO IMPROVING THE EVIDENTIAL VALUE OF FIBERS UTILIZING FT-IR SPECTRAL DATA BASES**, M.W. Tungol, E. G. Bartick and A. Montaser, Pitt. Conn., March 1989.

**INFRARED ANALYSIS OF POST BLAST LOW EXPLOSIVE RESIDUES**, E. G. Bartick, R.A. Miller, R.O. Allen and R.A. Merrill, FACSS, Nov. 1988.

**A FORENSIC APPROACH TO FIBER ANALYSIS BY INFRARED MICROSCOPY**, E.G. Bartick, M.W. Tungol and A. Montaser, FACSS, Nov. 1988.

**INFRARED ANALYSIS OF LOW EXPLOSIVES BY DIFFUSE REFLECTANCE SPECTROMETRY**, E.G. Bartick, R.A. Miller, R.O. Allen and R.A. Merrill NEAFS, Oct. 1988.

**A FORENSIC APPROACH TO THE ANALYSIS OF BLACK PLASTIC TAPES**, E.G. Bartick and R.A. Miller, R.O. Allen and R.A. Merrill R.A. Merrill, NEAFS, Oct. 1988.

**A FORENSIC APPROACH TO THE ANALYSIS OF BLACK PLASTIC TAPES**, E.G. Bartick and R.A. Merrill MAAFS, May 1988.

**A. FORENSIC APPROACH TO THE ANALYSIS OF BLACK PLASTIC TAPES**, E.G. Bartick, R.A. Merrill and J.T. Inca, Pitt. Con., March 1988.

**FTIR AND ITS ROLE IN TODAY'S FORENSIC LABORATORIES**, E.G. Bartick, NEAFS, Oct. 1987.

**FTIR AND ITS ROLE IN TODAY'S FORENSIC LABORATORIES**, E.G. Bartick, R.A. Miller and R.A. Merrill, MAAFS, Oct. 1987.

**INFRARED ANALYSIS OF EXPLOSIVES BY DIFFUSE REFLECTANCE SPECTROMETRY**, E.G. Bartick, R.A. Miller and R.A. Merrill, Intl Conf on FTS, Aug. 1987.

**RESEARCH AND ANALYSIS OF POLYMERS BEING CONDUCTED BY THE FBI**, E.G. Bartick, Workshop on Macromolecules in Microencapsulation Research and Technology," Aberdeen Proving Ground, Dec.1986.