

CURRICULUM VITAE

CHRISTOPHER R. BOMMARITO
Forensic Science Consultants
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Experience

2003-Present **President & Forensic Scientist**
 Forensic Science Consultants
 Williamston, MI

1990 - Present **Forensic Scientist**
 Michigan State Police Forensic Laboratory
 Lansing, MI

1988-1990 **Forensic Chemist**
 Drug Enforcement Administration Western Laboratory
 San Francisco, CA

Currently involved in the analysis of trace evidence, including paint, glass, filaments, fibers, footwear and explosive residue. Duties have included quantitative and qualitative analysis of suspected controlled substances. Proficient in many analytical methods such as GC-MS, SEM-EDS, FTIR, HPLC, IC and GC as well as wet chemistry. Testified approximately 200 times in federal and state courts in seven different states in relation to these analyses. Assisted and advised various federal and state authorities on crime scene reconstruction, clandestine drug laboratory investigations and other enforcement activities.

- * President of the Midwestern Association of Forensic Scientists
- * Received the 2003 Midwestern Association of Forensic Scientists "Outstanding Scientist" award
- * One of ten forensic scientists selected to the Scientific Working Group for Materials Analysis, Paint Subgroup, which sets international guidelines for forensic paint examination
- * Statewide Coordinator for Bloodstain Pattern Analysis (MSP), 2004-2006
- * Highly involved in method development for trace evidence and drug analysis (DEA, MSP)
- * Frequently processes crime scenes and has participated in clandestine laboratory raids (DEA, MSP)
- * Presented forensic research regarding drug analysis, paint analysis, fiber analysis, glass analysis, soil analysis, bloodstain pattern analysis, scanning electron microscopy, crime scene search, stereochemistry and clandestine laboratories at scientific meetings (DEA, MSP)
- * Instructor in the Detective and Crime Scene Technician Programs (MSP)

1998 **Adjunct Professor**
2002-2004 **Michigan State University Forensic Science Program**
2007-2008 **Michigan State University College of Law**
 East Lansing, MI

Instructor of graduate level courses in forensic science, the analysis of controlled substances, trace evidence and polarized light microscopy. Areas emphasized in the courses included various forms of microscopy, infrared spectroscopy, mass spectrometry, stereochemistry and synthesis. Served on numerous master thesis committees.

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Education

Master of Science Degree in Forensic Science 2001
Michigan State University, East Lansing, MI

**Bachelor of Science Degree, Dual Major:
Chemistry & Criminalistics 1988**
Michigan State University, East Lansing, MI

Affiliations

Midwestern Association of Forensic Scientists (MAFS), President
Scientific Working Group for Materials Analysis (SWGMAT), Paint
Subgroup Member
American Academy of Forensic Sciences (AAFS), Fellow
International Association for Identification (IAI), Member
American Chemical Society (ACS), Member

Certifications/Honors

MAFS Outstanding Scientist Award Recipient 2003
MSP Professional Excellence Award Recipient 2002
IAI Certification in Bloodstain Pattern Analysis 2003
IAI Certification in Footwear Examination 2004
Midwest Forensic Resource Center Research Grant Recipient 2005-2006

Meetings

AAFS meetings 1991-1992, 1999-2007
MAFS meetings 1999, 2003-2007
CLIC seminars 1994-1996

Continuing Education

American Chemical Society: Mass Spectrometry 1988
DEA Clandestine Laboratory Safety Certification 1989
DEA Forensic Chemist Seminar 1990
Hewlett Packard: HPLC 1990
Bowdoin College: IR Spectroscopy I 1991
Bowdoin College: IR Spectroscopy III 1994
NFSTC Trace Evidence Workshop 1997
McCrone Institute: Polarized Light Microscopy 1997
Northwestern University Traffic Institute: Forensic Photography 1997
MSU Forensic Entomology 1998
MSP Bloodstain Pattern Interpretation 1999
CCI Paint Examination and Comparison 1999
MSU SEM/EDS 1999, 2000, 2001
LEO Electron Microscopy course in SEM 1999
FBI/MAFS Fiber Analysis Workshop 2000
MSU Confocal Microscopy 2000
MSU Decomposed Human Remains 2001
Bodziak Footwear Impression Evidence 2001
RCMP Paint Data Query System 2002
Bodziak Tire Impression Evidence 2002
McCrone Institute: Microscopy of Explosives 2003
MAFS Wood Identification Workshop 2003
MAFS Airbag Examination Workshop 2003
MAFS/McCrone Advanced Fiber Examination Workshop 2004
MAFS/SAFS Soil Examination Workshop 2004
Advanced Bloodstain Pattern Analysis 2006

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Continuing Education (continued)

MAFS/MFRC Advanced Crime Scene Reconstruction 2006
MAFS Forensic Analysis of Knots & Ligatures Workshop 2006
MAFS Chemistry of Pyrotechnics 2006
MAFS/MFRC Advanced Trace Evidence Symposium 2006
Bowdoin College IR Spectroscopy II 2006
MSP Physical Match Workshop 2006
Northwestern University Lamp Examination Workshop 2006
ATF/NSFTC Fire Debris Analysis 2007
MSP Tape Analysis Workshop 2007
MAFS Advanced Fire Debris Analysis 2007

Selected Teaching/Presentations/Publications

Instructor: DEA Clandestine Laboratory Safety Certification, Salt Lake City, UT 1990
Instructor: MSP Supervisory Development Program 1996-1998
Instructor: MSP Evidence Technician/ Detective Schools 1998-2003
Instructor: MSP Bloodstain Pattern Analysis Workshops 2005-2006
Instructor: MAFS/MFRC Scanning Electron Microscopy Workshop, Ames, IA 2005
Board Member: MAFS 2004-2005, 2006-Present
Chair: MAFS Training & Education Committee, 2004-2006
Coordinator: Science Crime Event, MI Science Olympiad 1993-1998
Coordinator: MAFS Paint Examination & Comparison Workshop, Lansing, MI 2003
Coordinator: MAFS LA-ICP-MS of Glass Workshop, E. Lansing, MI 2005
Coordinator: MAFS Chemistry of Pyrotechnics Workshop, Lansing, MI 2006
Coordinator/Speaker: MAFS Advanced Trace Evidence Symposium, Ames, IA 2006
Moderator: GHB Symposium, 2000 American Academy of Forensic Sciences Meeting, Reno

Bommarito C, "Analytical Profile of Gamma-Hydroxybutyric Acid" 1993 Northwest Association of Forensic Scientists, Steamboat Springs, CO

Bommarito C, "Analytical Profile of Gamma-Hydroxybutyric Acid" Journal of the Clandestine Laboratory Investigating Chemists Vol. 3 No. 3, 1993

Bommarito C, "Forensic Garbage Bag Comparison" 1998 Midwestern Association of Forensic Scientists, Ann Arbor, MI, 1999 American Academy of Forensic Sciences, Orlando, FL

Bommarito C, "Separation Techniques" Encyclopedia of Forensic Sciences, Academic Press LTD 2000

Bommarito C, Felton M, Ernst T, "Optimization of the Extraction of Gasoline from Blood" 2000 American Academy of Forensic Sciences, Reno, NV

Felton M, Bommarito C, "Differentiation of Smokeless Powders using Fourier Transform Infrared Spectrophotometry and Morphology" 2000 American Academy of Forensic Sciences, Reno, NV

Reeves E, Bommarito C, "Elemental Analysis of Glass via Variable Pressure SEM/EDS" 2001 American Academy of Forensic Sciences, Seattle, WA

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Selected Teaching/Presentations/Publications (Continued)

Bommarito C, "Forensic Examination of Crayons via FTIR and SEM/EDS" 2001 American Academy of Forensic Sciences, Seattle, WA

Bommarito C, "Optical Cross Sectioning of Fibers using Laser Scanning Confocal Microscopy" 2002 American Academy of Forensic Sciences, Atlanta, GA

Bommarito C, "Scientific Evidence" Encyclopedia of Crime and Punishment, Sage Publications Inc. 2002

Bommarito C, "A Look at Outlast® Temperature Moderating Fabric" 2003 Midwestern Association of Forensic Scientists, Columbus, OH

Bommarito C, Daugherty E, "Analysis of Nonoxynol-9 in Condom Lubricants via Pyrolysis Gas-Chromatography-Mass Spectrometry" 2003 Midwestern Association of Forensic Scientists, Columbus, OH

Daugherty E, Bommarito C, "Analysis of Nonoxynol-9 in Condom Lubricants via Pyrolysis Gas-Chromatography-Mass Spectrometry" 2004 American Academy of Forensic Sciences, Dallas, TX

Szymanski D, Patino L, Bommarito C, Siegel J, "Use of Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS) for Float Glass Fragment Discrimination by Elemental Analysis" 2003 Midwestern Association of Forensic Scientists, Columbus, OH

Bommarito C, "Review of Henry Lee's Crime Scene Handbook" Journal of Forensic Sciences, Vol. 48 No. 6 2003

Bommarito C, Kopchick K, "The Use of Visible Microspectrophotometry in the Analysis of Achromatic Automotive Paint Samples" 2005 Midwestern Association of Forensic Scientists, St. Louis, MO

Bommarito C, "Garbage Bags Revisited: The Role of Trace Evidence in the Investigation of a Triple Homicide" 2005 Midwestern Association of Forensic Scientists, St. Louis, MO

Kopchick K, Bommarito C, "The Use of Visible Microspectrophotometry in the Analysis of Apparently Achromatic Automotive Paint Samples", Journal of Forensic Sciences, Vol. 51 Issue 2 March 2006

Bommarito C, "Analysis of Inorganic Acids, Bases and Other Chemicals Commonly Utilized in Poisoning Cases and Clandestine Laboratories", MAFS/MFRC Advanced Trace Evidence Symposium, June 2006, Ames IA

Bommarito C, "A New Approach to Report Writing in Comparative Trace Evidence Examinations", MAFS/MFRC Advanced Trace Evidence Symposium, June 2006, Ames IA

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Selected Teaching/Presentations/Publications (Continued)

Bommarito C, Sturdevant A, Szymanski,D, “Analysis of Forensic Soil Samples via High Performance Liquid Chromatography and Ion Chromatography”, 2006 Midwestern Association of Forensic Scientists, Indianapolis, IN

Bommarito C, Sturdevant A, Szymanski,D, “Analysis of Forensic Soil Samples via High Performance Liquid Chromatography and Ion Chromatography”, Journal of Forensic Sciences, Vol. 52 Issue 1, January 2007

Bommarito C, “Identification of an Unusual Nitrite Inhalant”, 2007 Midwestern Association of Forensic Scientists, Traverse City, MI