

# Curriculum Vita

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## John A. Reffner, Ph.D.



### Education:

Ph.D. (Polymer Science)	1975	University of Connecticut
M.S. (Physical Chemistry)	1960	Illinois Institute of Technology
B.S. (Chemistry)	1956	University of Akron

### Experience:

2008-	John Jay College of Criminal Justice, CUNY, NY, NY., Professor
2004-2008	Smiths Detection Danbury, CT (by purchase of SensIR Technologies)
1998-2004	SensIR Technologies Inc., Danbury, CT., Technical Director
1998-	TRACE Consulting, Stamford, CT., Director
1986-98	Spectra-Tech Inc. (purchased by Thermo Nicolet 1992), Stamford, CT., Corporate Fellow (86-94) Research Director (94-98)
1977-86	American Cyanamid, Stamford, CT., Principal Research Scientist
1972-77	University of Connecticut, Storrs, CT., Asst. Professor of Chemistry
1966-77	University of Connecticut, Storrs, CT., Assistant Director of the Institute of Materials Science
1958-66	Walter C. McCrone Associates, Chicago, IL., Research Microscopist, Director of Research
1957-58	University of Colorado, Boulder, CO., Graduate Assistant
1955-57	B.F. Goodrich, Akron, OH., Materials Engineer

### Adjunct Professorships

2007-	Suffolk University, Boston, MA., Forensic Microscopy
1997-	City University of New York, Graduate Faculty (John Jay College)
1988-89	University of Connecticut, Storrs, CT., Chemistry
1982-87	John Jay College of Criminal Justice, New York, NY., Forensic Microscopy
1985-87	Fashion Institute of Technology, New York, NY., Textile Science
1984-85	University of Connecticut, Storrs, CT., Physics
1979-82	University of New Haven, New Haven, CT., Forensic Microscopy

### Fields of Specialization:

Microscopy, Materials Science and Molecular Spectroscopy, Forensic Science

### Research Interests:

Analytical microscopy; solid-state chemistry; forensic science (trace evidence); micro-analytical chemistry; optics; polymer science; rubber chemistry; textile science; thermal analysis; spectroscopy.

### Professional Societies:

American Academy of Forensic Scientists; American Association for the Advancement of Science; American Chemical Society; American Physical Society; American Microchemical Society; American Society of Trace Evidence Examiners; American Society for Testing and Materials; Canadian Society of Forensic Scientists; Microbeam Analysis Society; Microscopical Society of America; Coblenz Society; Royal Microscopical Society; Northeast Association of Forensic Scientists; New York Microscopical Society; Northwest Association of Forensic Science; Society for Applied Spectroscopy.

**Honors and Distinctions:**

Society of Applied Spectroscopy **Gold Medel Award** (2016); American Association of Trace Evidence Examiners **Locard Award** (2015); Editorial Board, *Microscopy Today* (2009-); New York microscopical Society's, **Ernst Abbe Memorial Award** (2004); American Academy of Forensic Sciences, **Paul L. Kirc Award** (2004); New York microscopical Society's, **Ashby Award** (2002); Georgia Microscopical Society's, **Honorary Achievement Award** (2002); Coblenz Society's **Williams-Wright Award** (2000); Illinois State Microscopical Society, **Emile M. Chamot Award** (1993); Visiting Scientist, Brookhaven National Laboratory(1993-); President, New York Microscopical Society (1999-02); Fellow, American Academy of Forensic Science; Editorial Board, *J. Forensic Science* (1995-2005); Scientific Consultant to Connecticut State Police(1975-2000); Invited lectured FBI academy, Quantico, VA (1984), (1987), (1991-2006); Director of American Chemical Society Short course in Chemical Microscopy1969-75; President Northeast Association of Forensic Scientists (1978); Judge Nikon International Photomicrographic Competition (1981); International Standards Organization, microscopy committee representative(1979-82); Delegate Taipei International Symposium on Forensic Science (1991).

**Publications:**

89. Leary,P.E, Kammrath, B.W, and Reffner, J. A (2018) Field-portable Gas Chromatography-Mass Spectrometry” in Encyclopaedia of Analytical Chemistry, Online , John Wiley: Chichester, DOI:10.1002/9780470027318.a9583
88. Reffner, J.A. (2018) “Advances in Infrared Microspectroscopy and Mapping Molecular Chemical Composition at Submicrometer Spatial Resolution”, *Spectroscopy* 33 (9) 2018
87. Reffner, J.A. (2017) “Microspectroscopy in Forensic Science” in Encyclopaedia of Analytical Chemistry, eds R.A. Meyers, John Wiley: Chichester. DOI: 10.1002/9780470027318.a1117.pub2. Published March 25 2017.
86. Kammrath, B.W, Koutrakos, A.C, McMahon, M.E., and Reffner, J.A. (2016). The Forensic Analysis of Glass Evidence: Past, Present, and Future. In *Forensic Science: A Multidisciplinary Approach*, Katz E. (Ed.) and Halamek, J. (Ed.), (pp. 299-336). Weinheim, Germany: Wiley-VCH Verlag GmbH & Co. KGaA.
85. Kammrath, B.W., Leary, P.E. and Reffner, J.A. (March 2017). Collecting Quality Infrared Spectra from Microscopic Samples of Suspicious Powders in a Sealed Cell. *Applied Spectroscopy*, 71(3), 438-445. DOI: 10.1177/0003702816666286.
84. Vernoud, V., Bechtel, H. A., Martin, M. C., Reffner, J. A. and Blackledge, R. D. (2011) Characterization of Multilayered Glitter Particles Using Synchrotron FT-IR Microscopy. *Forensic Science International, Sci Int Jul 26;210(1-3):47-51*
83. Reffner, J. A., Smith, S. And Adar, F., (2010) Characterizing Colored Fibers by FT-IR and Raman Spectroscopy. *Spectroscopy, Special Issues August 1, 2010*, pp.1-5
82. Murdock, J. N., Dodds, W. K., Reffner, J. A., and Wetzel,D. L. (2010) measuring Cellular – Scale Nutrient Distribution in Algal Biofilms with Synchrotron Confocal Infrared Microscopy. *Spectroscopy Vol. 25, Issue 10, pp. 32-41*
81. Wetzel, D.L., Yong-Cheng Shi, Y.C. and Reffner, J. A. (2010) Synchrotron Infrared Confocal Microspectroscopical Detection of Heterogeneity Within Chemically Modified Single Starch Granules. *Applied Spectroscopy*, Vol. 64, Issue 3, pp. 282-285
80. Weinger, B.A., Leary, P.E. and Reffner, J.A. (2009). Analysis of Minerals Using Linearly Polarized Infrared Microspectroscopy. *Microscopy and Microanalysis*, 15 (Suppl. 2), pp 1140-1141.
79. Reffner, J.A., Weinger, B.A. and Leary, P.E. (2008). Infrared Microprobe Analysis of Minerals Using Internal Reflection Spectroscopy. *Microscopy and Microanalysis*, 14 (Suppl. 2), pp 1288-1289.
78. Weinger, B.A., Reffner, J.A., and De Forrest, P.R. (2009) A Novel Approach to the Examination of Soil Evidence: Mineral Identification Using Infrared Microprobe Analysis. *J. Forensic Sci. Vol. 54, No. 4, 851-856*
77. Reffner, J.A., “Remembering Walter C. McCrone – scientist, leader, mentor and friend.” *J Forensic Sci. 2004 Mar ;49 (2):265-6*
76. “FT-IR and Raman Microscopy on a United Platform”, *Spectroscopy Vol. 18 (2), 34-40 (2003)*

75. "Characterization of Hydrates, Solvates, Salts and Polymorphs in Drug Development Using Infrared Microspectroscopy and Thermomicroscopy", *Microscope* Vol. 51 No. 3, 107-110 (2003)
74. "Characterization of Hydrates, Solvates, Salts and Polymorphs in Drug Development Using Infrared Microspectroscopy and Thermomicroscopy", *Microscope* Vol. 51 No. 3, 107-110 (2003)
73. "Macro and Micro Internal Reflection Accessories", *Handbook of Vibrational Spectroscopy*, Vol. 2, 1103 - 1116 (2002) John Wiley & Sons, Ltd.
72. "Single Fiber Analysis by Internal Reflection Infrared Spectroscopy", *JFSCAS*, 46 (6), 1309-1314, (2001)
71. "Comparison of Transmission and Internal Reflection Infrared Spectra of Cocaine", 46(4), 822-827, (2001)
70. "Developments in Infrared Microspectroscopy Instrumentation and Applications", *Inst. Phys. Conf. Ser.No. 165: 2<sup>nd</sup> Conf. Int. Union Microbeam Analysis Societies*, Kailua-Kona, Hawaii, 39-40,(2000)
69. "Have FT-IR Will Travel", *Spectroscopy*, April, 1-9, (2000)
68. "Infrared Spectroscopy goes Microscopic", *Chemistry & Industry*, No. 9, 308-313, (2000)
67. "A New micro-ATR Accessory Combining a Small Diamond IRE with Video Image Magnification", *Fourier Transform Spectroscopy*, 12<sup>th</sup> International Conference, Wasada University, Tokyo, 311-312, (1999)
66. "A Dual Confocal Aperturing Microscope for IR Microspectrometry", *ANALUSIS*, 27(10), 44-50, (1999)
65. "Visualization of Micro-ATR Infrared Spectroscopy", *Spectroscopy*, 14(4), 34-45, 1999
64. "A New Method for Fiber Comparison Using Polarized Infrared Microspectroscopy", *JFCAS* 44(2), 275-282 (1999)
63. Forensic Classification of Polyester Fibers by Infrared Dichroic Ratio Pattern Recognition", *JFSCAS* 44(2)/283-291 (1999)
62. "Instrumental Factors in Infrared Microspectroscopy", *Cellular and Molecular Biology*, vol. 44, (1998), 1-8
61. "Experimental Validation for Infrared Microspectroscopy (IMS)", *Proceedings Microscopy and Microanalysis '97*, vol. 3, [suppl.] 2, 867-868 (1997)
60. "Synchrotron-Powered FT-IR Microspectroscopy: Single Cell Interrogation", *Mikrochim. Acta [Suppl.]* 14, 333-337 (1997)
59. "Infrared Microspectroscopy with Synchrotron Radiation", *Mikrochim. Acta [Suppl.]* 14, 339-341 (1997)
58. "A New Infrared Microspectrometer Accessory for External- and Internal-reflection Spectroscopy", *Mikrochim. Acta [Suppl.]* 14, 333-337 (1997)
57. "Applications of Infrared Microspectroscopy in the Pharmaceutical Industry", *Scanning*, vol 19,3 (1996), 194-195
56. "Molecular Microspectroscopy: Where are we and where are we headed?", *Proceedings Microscopy and Microanalysis '96*, 250-251,(1996), G. W. Bailey et al., Editors
55. "Synchrotron Infrared Microspectroscopy Challenges Difficult Analytical Problems", *Proceedings Microscopy and Microanalysis '96*, 262-263,(1996), G. W. Bailey et al., Editors
54. "Uniting Microscopy and Spectroscopy", in "Practical Guide to Infrared Microspectroscopy", H. Humecki, editor Marce; Dekker, Inc. New York (1995)
53. "The Role of Light Microscopy in Infrared Microspectroscopy", *Microbeam Analysis-1995*, *Proceedings of the 29<sup>th</sup> Annual Conference of the Microbeam Analysis Society*, Edgar S. Etz, Editor, (1995) 25-26
52. "Ultra-Spatially Resolved Synchrotron Powered FT-IR Microspectroscopy of Individual cells of Biological Material", *Proc.Microscopy and Microanalysis 1995*, Edited by G. W. Bailey et al (1995),MSA
51. "The Advantages of Synchrotron Radiation for Infrared Microspectroscopy", *Microbeam Analysis-1995*, *Proceedings of the 29<sup>th</sup> Annual Conference of the Microbeam Analysis Society*, Edgar S. Etz, Editor, (1995) 113-114
50. "Sample-Preparation Techniques for Infrared Microspectroscopy" *Microbeam Analysis-1995*, *Proceedings of the 29<sup>th</sup> Annual Conference of the Microbeam Analysis Society*, Edgar S. Etz, Editor, (1995) 145-146
- 49.

48. "Fourier Transform Infrared Microscopical Analysis with Synchrotron Radiation", The Microscope Optics and System Performance(invited), Rev. Sci. Inst., Vol 66, Part II, (1995), 1298-1302
47. "Synchrotron Infrared Absorption Measurements of Hydrogen in MgSiO<sub>3</sub> Perovskite", Science, vol 264, (1994), 1558-1560
46. "A New Approach to Forensic Analysis with Infrared Microscopy: Internal Reflection Spectroscopy", Analytical Chemica Acta., 288, (1994) 35-42
45. "Spatially Resolved Infrared Microprobe Analysis of Compositional Gradients in Polymers", SPIE Proceedings, 2089, (1993)
44. "Applications of Principal Components Analysis to Multi-dimensional FT-IR Microscopy", SPIE Proceedings, 2089, (1993) 252
43. "Forensic Applications of Microscopical Infrared Internal Reflection Spectroscopy", SPIE Proceedings, 2089, (1993) 460
42. "Use of Infrared Microspectroscopy in Polarization Studies of Tetronic Acid", SPIE Proceedings, 2089, (1993) 560
41. "Quantitative Infrared Microprobe Analysis of Biological Tissues using a Synthetic Standard Model", Microbeam Analysis, 2, (1993), S69-70
40. "Infrared Microprobe Analysis: Its Capabilities and Limitation for Materials Characterization", Microbeam Analysis, 2, (1993), S61-62
39. "Using Spatially Resolved FT-IR Microbeam Spectroscopy to Examine the Microstructure of Wheat Kernels", Cereal Foods World, Vol. 38, No. 1, (1993), 9-20
38. "Forensic Applications of Infrared Microscopic Internal Reflection Spectroscopy", Proc., Electron Microscopical Society of America, G. W. Bailey, J. Bentley and J. A. Small, Editors, (1992), 1528-29
37. "Resolution in Scanning Infrared Microprobe Analysis", Proc., Electron Microscopical Society of America, G. W. Bailey, J. Bentley and J. A. Small, Editors, (1992), 1526-27
36. "Problem-Solving in Pharmaceutical Production Using Scanning Infrared Microprobe (SIRM) Analysis" Proc. SPIE-INT. Soc. Opt. Eng. (1992) Vol. 1681, ISS. Opt. Based Methods Process Anal., pp. 334-8
35. "Application of Factor Analysis to FT-IR Microscopy", SPIE Vol. 1575, 8<sup>th</sup> International Conf. on Fourier Transform Spectroscopy(1991), 490
34. "Molecular Tissue Mapping by FT-IR Microspectroscopy", SPIE Vol. 1575, 8<sup>th</sup> International Conf. on Fourier Transform Spectroscopy(1991), 437
33. "Infrared microanalysis of contaminants at grazing incidence"; SPIE 1437 (1991); 89-93.
32. "Bits and Peces: Serology, Criminalistic, Anthropology, and Odontology," JFFS 31/2 293-96, (1991).
31. "Grazing Angle Microscopy: a New Technique for Surface Analysis"; SPIE 157(1991);298- 300.
30. "Design of Grazing Incidence and ATR Objectives for FT-IR Microscopy", SPIE Vol. 1575, 8<sup>th</sup> International Conf. on Fourier Transform Spectroscopy(1991), 301
29. "Grazing Angle Microscopy: a New Technique for Surface Analysis", SPIE Vol. 1575, 8th International Conf. on Fourier Transform Spectroscopy(1991), 298
28. "Infrared microanalysis of contaminants at grazing incidence", SPIE, Vol. 1437 Applied Spectroscopy in Materials Science (1991), 89 -93
27. "FT-IR Molecular Microanalysis System", Microbeam Analysis (1990), J. R. Michael and P. Ingram, Eds, San Francisco Press, Inc.
26. "Microanalysis of Asbestos by FT-IR Microscopy", Microbeam Analysis (1990) J. R. Michael and P. Ingram, Eds, San Francisco Press, Inc.
25. "Microanalysis by Reflectance FT-IR Microscopy", American Laboratory, 26 April(1990)
24. "Molecular Microspectral Mapping with the FT-IR Microscope", Inst. Phys. Conf. Ser. No. 98 (1989) 559-569
23. "Infrared Spectral Mapping of Polymers by FT-IR Microscopy", Microbeam Analysis (1989), P. E. Russell, Editor, San Francisco Press, Inc.
22. "Infrared spectroscopy of a Single Cell - The Human Erythrocyte", Biochem. and Biophys. Res. Comm., 156, 752(1988)
21. "Thermal Analysis of Polymorphism", J. Thermal Analysis, 34, 19(1988)
20. "Mineral Analysis by FT-IR Microscopy", Microbeam Analysis (1988) D. E. Newbury, Editor, San Francisco Press, Inc.

19. "FT-IR Microscopy of Biological Samples: A New Technique for Probing Cells", Microbeam Analysis (1988) D. E. Newbury, Editor, San Francisco Press, Inc.
18. "FT-IR Microspectroscopy: Applications in Pharmaceutical Research" in "Infrared Microspectroscopy: Theory and Applications", R. G. Messerschmidt and M. A. Harthcock, Editors, Marcel Dekker, Inc., New York, NY (1988)
17. "FT-IR Microspectrometry Advances", Nature 328, 837(1987)
16. "Infrared Microbeam Analysis", Microbeam Analysis (1987) Roy. Geiss, Editor, San Francisco Press, Inc.
15. "Chemical Microscopy with FT-IR Microspectrometry", American Laboratory 19, April (1987)
14. "Improved EDX analysis by using X-ray Absorption Filters", Microbeam Analysis (1984) A. D. Romig and J. I. Goldstein, Editors, San Francisco Press, Inc.
13. "Thermomicrophotometry of Polymers", American Laboratory 16, 29 (1984)
12. "A Non-isothermal Technique using Thermal Optical Analysis to Follow the Kinetics of Polymer Crystallization and Solid State Transformation and the Determination of the Length of the Crystalline Segment", Thermochemica Acta 26, 137 (1978)
11. "A Non-isothermal Technique using Thermal X-ray diffraction to follow the Kinetics of Polymer Crystallization, Solid State Phase Transformations and the Determination of the Length of the Crystalline Segment", Thermochemica Acta 26, 125 (1978)
10. "Amine Cured Epoxy Resins: Adhesion Loss", J. Appl. Polym. Sci. 21, 1095, (1977)
9. "Thermal Optical Characterization of Polymers", Polymer Prepr. 17, 921 (1976)
8. "Thermal Optical Analysis and Differential Scanning Calorimetry of Chemically Crosslinked Polyethylene", Thermochemica Acta 15 (1976) 307-313
7. "New Aspects in the Study of the Ring Crystals", Studia Universitatis Babes-Bolyai, Series Geologia Mineralogia, Fasciculus 1, 3 (1974)
6. "Microstructure and Segregation in Splat-Cooled Alloys", J. of Crystal Growth, 19, 237 (1973)
5. "A Pressurized Specimen Chamber for Light Microscopy", The Microscope, 17, 287 (1969)
4. "Identification of Paint-Discolored Species by Electron Diffraction", J. of Air Pollution ContAss., 17, 36(1967)
3. "Modern Laboratory Methods in Arson Investigation", Police (1965)
2. Thermal Bleaching of Cl<sub>2</sub><sup>-</sup> Centers" J. Chem. Phys. 36, 2780 (1962)
1. "Crystallographic Data p-Dimethylaminobenzaldehyde", Anal. Chem. 31, 1066 (1959)

### Patents

1. **6,972,409** "Mid-infrared spectrometer attachment to light microscopes"
2. **6,907,390** "Miniaturized opto-electronic magnifying system"
3. **6,693,280**, "Mid-Infrared Spectrometer Attachment to Light Microscopes", (2004)
4. **5,864,139**, "Confocal Microspectrometer System", (1999)
5. **5,616,922**, "Optically Coupled Infrared Transmitting Composite Internal Reflecting Elements", (1996)
6. **5,581,085**, "Infrared Microspectrometer Accessory", (1996)
7. **5,200,609**, "Radiant Energy Spectroscopy System with Diamond Internal Reflection Element"
8. **5,172,182**, "Internal Reflectance Element with Very Small Sample Contacting Surface", (1992)
9. **5,051,602**, "Optical system and Method for Sample Analyzation", (1992)
10. **5,019,715**, "Optical system and Method for Sample Analyzation", (1992)

### Papers Presented at Technical Meetings

"The Challenges of Trace Evidence – In the Field, Laboratory and Court", FACSS 2008, (2008), Reno, NV  
 "Microscopy – The Foundation of Microspectroscopy", Inter/Micro (2008), Chicago, IL  
 "Extending FT-IR Analysis Outside the Laboratory", FACSS 2000, (2000), Nashville, TN  
 "Uniting Microscopy with Spectroscopy", PittCon 2000, (2000), New Orleans, LA  
 "A New Image-Based FT-IR Sampling Technology for the Rapid Characterization of Solid Materials", FACSS '99 (1999), Vancouver, Canada  
 "Infrared Micro- and Ultra-microanalysis Applications in Forensic Science", PittCon '99, (1999), Orlando, FL  
 "Infrared Microspectroscopy with Infinity Optics: The Collimated Beam Advantage", PittCon '98, (1998) New Orleans, LA

"Extracting More from Trace Evidence with Infrared Microspectroscopy", PittCon'98, (1998) New Orleans, LA  
"Spatial Resolution in Infrared Microspectroscopy", FACSS'97, (1997), Providence, RI  
"The Impact of Infrared Microspectroscopy on Forensic Science", PittCon '96 (1996), Chicago, IL  
"Quantitative Infrared Microspectral Mapping", FACSS '96 (1996), Kansas City, MO  
"Spectral Subtraction in FTIR Microspectroscopy", FACSS '95 (1995), Cincinnati, OH  
"The Microscopy of Infrared Microspectroscopy", Pitt-Con '95, (1995)  
"Identification of Hair-Care Products on Individual Hair Fibers by ATR Micro-spectroscopy", 47th Annual Meeting, American Academy of Forensic Sciences, (1995), Seattle, WA  
"Spatially-Resolved Spectroscopy: Images of Molecular Distributions in Materials", XXVII Colloquium Spectroscopicum Internationale, University of York, U. K., (1993), York, England  
"Microspectroscopy: Advancing Trace Evidence Analysis", International Association of Forensic Sciences, (1990), Adelaide, Australia  
"Fourier Transform Infrared Microanalysis: A New Tool for Rubber Analysis", ACS Rubber Division, Spring (1990), Las Vegas, NV  
"Optics in Forensic Science", The Optical Society, (1989), Stamford, CT  
"Bits and Pieces III. Hairs and Fibers" American Society of Forensic Sciences, (1989) Las Vegas, NV  
"Applications of FT-IR Microspectrometry to Trace Evidence Evaluation", American Academy of Forensic Science, (1988), Philadelphia, PA  
"Measuring and Interpreting Reflection Spectra Obtained with the FT-IR Microscope", PittCon'88, (1988), New Orleans, LA  
"Adhesives Analysis by FT-IR Microspectroscopy: A Forensic Science Investigation" PittCon, (1988), New Orleans, LA  
"Interpretation of Spectra Obtained by FT-IR Microspectroscopy", FACSS XIV (1987), Detroit, MI  
"FT-IR Microspectrometry: A New Problem Solver for the Analytical Chemist", PittCon, (1987), Atlantic City, NJ  
"Polymorphism of Pharmaceuticals", Eastern Analytical Symposium, (1984), New York, NY  
"Filters to Improve EDX Analysis", Microbeam Analysis Society, (1984), Lehigh University, Bethlehem, PA  
"Materials Characterization by Thermal Microscopy", Eastern Analytical Symposium, (1982), New York, NY  
"The Case for Standards in Microscopy", Inter/Micro-82, (1982), Chicago, IL  
"A Modular Photometric Microthermal Analysis System", Inter/Micro-82, (1982), Chicago, IL  
"Forensic Microscopy", ACS, (1981), New Haven, CT  
"Thermal Optical Analysis of Polymers", Eastern Analytical Symposium, (1980), New York, NY  
"Electronics and Computer Technology in Microscopy", Dialogues '79, (1979), New York, NY  
"Trace Evidence", Harvard Associates in Police Science, (1979), New Jersey  
"Forensic Microscopy", Mid-Atlantic Association of Forensic Scientists, (1979), Gettesburg, PA  
"Tire Failure Analysis", Northeastern Association of Forensic Scientists, (1978), Albany, NY  
"Developments in Microscopy and their Application to Chemical Research", ACS, (1978), Stamford, CT  
"Quantitative Thermal-Optical Characterization of Polymers", ACS Regional Meeting, 1976 (Albany, N.Y.)  
"Instrumentation for Thermal Optical Characterization of Polymers", ACS National Meeting, (1976), San Francisco, CA  
"Thermal Optical Characterization of Polymers", ACS National Meeting, (1976), San Francisco, CA  
"Fiber Identification", Northeastern Association of Forensic Scientists, John Jay College, (1976), New York, NY  
"Forensic Microscopy", New York Microscopical Society, (1975), New York, NY  
"Thermal Optical Analysis of Fibers", School of Textiles, North Carolina State University, (1975), Raleigh, NC  
"Thermal-Optical Analysis and Differential Scanning Calorimetry of Chemically Crosslinked Polyethylene", Society of Plastic Engineers, ANTEC, (1975), Atlanta, GA  
"Thermal Optical Analysis", New York Microscopical Society, (1974), New York, NY  
"Thermal Analysis of Polymers", Inter/Micro 74, (1974), Chicago, IL  
"Chemical Microscopy", New York Microscopical Society, (1973), New York, NY  
"Optical Crystallography", New York Microscopical Society, (1972), New York, NY  
"Microscopical Thermal Analysis", Eastern Analytical Symposium, (1971), New York  
"An Improved Goniometer Stage for Polarized Light Microscopy", Inter/Micro (1969), Imperial College, London  
"Identification of Gas Chromatography Effluents by Chemical Microscopy", Second Annual All Day Winter Meeting, Chicago Gas Chromatography Discussion Group, (1966), Chicago, IL  
"Identification of Organic Compounds by Fusion Methods", State Microscopical Society of Illinois, (1965), Chicago, IL  
"Studies on the Detection of Narcotics in Human Urine by Gas-Liquid Chromatography", Fourteenth Annual Mid-American Spectroscopy Symposium, (1964), Chicago, IL

"Sleuthing with the Microscope", Chicago Academy of Science, (1963), Chicago, IL

**Workshops and Short Courses:**

Since 1960, Dr. Reffner has taught numerous Workshops and Short Courses for private industry, Universities, State and Federal agencies and Scientific Societies. The subjects include: forensic microscopy, trace evidence examination, infrared microspectroscopy, polarized light microscopy and spectroscopy.

**Consultantships**

Astra Pharmaceuticals, Inc.  
Avon Products  
Cohen, Pavani, Lieberman & Pavane  
Colgate Palmolive Corp.  
Combustion Engineering  
Connecticut State Police Forensic Laboratory  
Cytek  
Dexter Corporation  
Ensign Bickford Corp.  
Environmental Sciences Associates  
Failure Analysis Corporation  
Gates Rubber Co.  
General Electric Corp.  
General Dynamics

General Tire and Rubber Co.  
Goodyear Tire and Rubber Co.  
Great Northern Paper Co.  
Nassau County Bureau of Investigation  
New York City, Forensic Laboratory  
Olympus Corporation of America  
Pennie and Edmonds  
Proctor and Gamble Corp.  
PurduePharma  
Rogers Corporation  
Simmons & Simmons Ltd, London  
State of Connecticut, Attorney General  
State of Connecticut, Medical Examiner  
Western Printing and Lithographic Corp.

## *Curriculum Vita*

### History of Expert Testimony – John A. Reffner 1975 - 2009

Date	Description
2005	Jorge Luis Cabrera v Eller Media Co., Victor Garcia and Miami Dade County Case No. 98-23808CA5 and 00-26885CA13 The Circuit Court of the 11 <sup>th</sup> Judicial Circuit in and for Miami-Dade County, Florida
2000	State of Florida v Eller Media Case No. 99-12275A,B, & C. The Circuit Court of the 11 <sup>th</sup> Judicial Circuit in and for Miami-Dade County, Florida
1997	State of New York v Donald Roraback Frye Hearing, Supreme Court Sullivan County, Monticello, NY
1996	Glaxo Inc. v Boehringer Ingelheim Corp. Civil Action No. 395-CV-01342 (GLG) Cohen, Pontani, Levine & Pavane New York, NY
1996	Allied Colloids LTD v American Cyanamid Patent Infringement London England
1993	Allied Colloids Inc. v American Cyanamid Civil Action No. 92-1658-A US District Court for the Eastern District of Virginia Alexandria Division
1991	City of New Britain v Sgt. G. Riley City of New Britain Municipal Corruption Probe Glenn E. Coe Asst States Attorney, Hartford, CT
1991	State of Connecticut v Daniel Webb Case No. 89-45676 ID89H1577X2
1989	Rosado v Mercedes Benz of North America Civil Action: Attorney William P. Ford, Ford Merrin, Esposito & Witmeyer 120 Wall St, New York, NY Westchester County Supreme Court
1989	State of Connecticut v Joseph Lomax
1988	Commonwealth of Massachusetts v Martino Case No. 88-3349 Springfield, MA
1987	State of Connecticut v Richard Crafts Case No. CR 3-59235a New London Superior Court, New London, CT
1986	Dow Chemical V American Cyanamid (patent litigation) Southern District Court, New Orleans, LA
1985	State of Connecticut Southbury Homicide, ID 84H0088041
1984	Lawton v Goodyear Tire Decoff & Grimm, One Smith St., Providence, RI 02903
1983	Ulvano V Mercedes-Benz Civil Action: Attorney William P. Ford, Ford Merrin, Esposito & Witmeyer 120 Wall St, New York, NY
1982	State of Connecticut v Tefvic Sivri Bridgeport Superior Court Attorney: John R. Gulash Asst. States Attorney: D. S. Maco
1981	Helen McMorrow v Sears Roebuck & Co. Superior Court of New Jersey Bergen County Docket No. L197-79
1981	City of New Britain Municipal Corruption Probe David J. Elliot Special Counsel Glenn Coe Asst. States Attorney, Hartford, CT



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1978	State of Connecticut v Andrew John Carr Willimantic Superior Court, Windham County States Attorney: S. Gaucher Jr.
1978	Arthur L. Weller v Humphrey Chevrolet, Inc Court of Cook County Illinois Case No. 70L 10166
1976	State of Connecticut v Murray R. Gold Case No. 11,903 Waterbury Superior Court, Waterbury, CT
1975	Weiss v Sessa Civil Action: Commonwealth of Massachusetts Case No. 74-56 Attorney: Burns & Levinson, 45 School Street, Boston, MA 02108