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Education: State University of New York at Albany
Albany, NY
Ph. D. in analytical organic chemistry-1972

Rochester Institute of Technology,
Rochester, NY
Master of Science-1967

Alfred University
Alfred, NY
B.A.-1965

Experience:

1 April 2006-present Chairman, Chief Scientific
Officer

Advion BioSciences, Inc.

1 April 1993-31 March 2006 President, CEO,
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Advion BioSciences, Inc.

2002-Present Emeritus Professor of
Toxicology,

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| | | NYS College of Veterinary Medicine Cornell University Ithaca, NY 14850 |
| Medicine | 1992-2003 | Professor of Toxicology NYS College of Veterinary Cornell University 925 Warren Dr. Ithaca, NY 14850 |
| Medicine | 1982-1992 | Assoc. Professor of Toxicology, NYS College of Veterinary Cornell University 925 Warren Dr. Ithaca, NY 14850 |
| Medicine | 1976-1982 | Assistant Professor of Toxicology NYS College of Veterinary Cornell University Ithaca, NY 14850 |
| High Spectrometry Facility, | 1973-1976 | Director of Cornell NIH Biotechnology Resources Resolution Mass Department of Chemistry Cornell University Ithaca, NY 14853 |
| | 1972-1973 | Post-doctoral Research Assoc. with Prof. Maurice M. Bursey |

Department of Chemistry
University of North Carolina at
Chapel Hill, Chapel Hill, N.C.

1967-1972 Doctoral student at the SUNY at
Albany, Albany, NY

1967-(Summer) Research Chemist, F.M.C. Corp.,
Middleport, NY

1965-1967 Masters candidate,
Rochester Institute of Technology,
Rochester, NY.

Professional Affiliations:

American Chemical Society
American Society for Mass
Spectrometry
American Assoc. for the
Science.
Am. Assoc. Pharm. Sci.
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Advancement of

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Board of Directors 2007-present Sports Medicine
Research and Testing Lab
Salt Lake City, Ut

Advisory Board: 1988-1991 Journal of Microcolumn
Separations.

Board Member: 1992-1994 Elected to Board of Directors,
American Society for Mass
Spectrometry.

Editorial Board: 1997-2004 Journal of the American Society for
Mass Spectrometry

Awards:

2011 CPSA 2011 Distinguished
Analytical Scientist Award

2008 The 2008 Eastern Analytical
Symposium Award for
Achievements in Mass
Spectrometry in recognition of
outstanding contributions to the
field of mass spectrometry.

2003 Martin Medal for contributions to
the separation sciences coupled with
mass spectrometry

1999 *Doctor Honoris Causa* University
of Uppsala, Uppsala, Sweden

1998 Fellow American Association for
Pharmaceutical Sciences.

1992 *Doctor Honoris Causa* University
of Ghent, Ghent, Belgium

Patents:

1. Ion Spray Apparatus and Method, J.D. Henion, T.R. Covey, and A.P. Bruins, US Patent No. 4,861,988, Aug. 29, 1989.
2. Thermal-Assisted Electrospray Interface (TAESI) for LC/MS, J.D. Henion, E.D. Lee, and T.R. Covey, US Patent No. 4,935,624, Jun. 19, 1990.
3. Differentially Pumped Ion Trap Mass Spectrometer, A. Mordehai and J. D. Henion, US Patent No. 5,268,572, Dec 7, 1993.
4. Atmospheric Pressure Ion Interface for a Mass Analyzer, A. Mordehai, G. Hopfgartner, and J.D. Henion, US Patent No.5,352,892, Oct. 4, 1994.
5. Self-Aligning Liquid Junction, J.D. Henion, R.L. Sheppard, and T. Wachs, US Patent No. 5,587,582, Awarded 5 January, 1999.
6. Ion Spray Interface for Chip-Based Separations, T. Wachs and J.D. Henion, Provisional Application for Patent, 3 Nov, 1999.
7. Protein Sequencing by Mass Spectrometry, T.R. Covey, E. Huang, and Jack Henion, US Patent No. 5,952,653, Sep 14, 1999.
8. Liquid Junction Coupling for Capillary Zone Electrophoresis Ion Spray Mass Spectrometry, U.S. Patent No. 4,994,165, Feb. 19, 1991.
9. Ion Sprayer for Direct Elution from SPE Cards, T. Wachs and J. D. Henion, Invention Disclosure D-3098, May, 2002.
10. Mechanical Holder for Surface Analysis, Daniel Eikel, Jack Henion, Geoffrey Rule, Christopher Alpha, US Patent No. 8294087, Issued 23 October 2012.

11. Atmospheric pressure ionization inlet for mass spectrometers, Simon Prosser and John D. Henion, US Patent No. 8,373,118 B2, 12 February 2013

Scientific Publications:

1. J.D. Henion, and R.E. Gilman, "Pyrolysis studies of a novel series of xanthates," Can. J. Chem., 1970, 48, 970.
2. J.D. Henion, and D.G. Kingston, "Skeletal rearrangements in 1-¹³C-phenyl sulfide," Chem. Comm., 1970, 258.
3. J.D. Henion and D.G. Kingston, "Skeletal randomization in phenyl azide," Org. Mass Spectrom., 1970, 3, 431.
4. J. D. Henion and D.G. Kingston, "Studies of substituent scrambling in diphenyl sulfide and diphenyl ether," J. Am. Chem. Soc., 1973, 95, 8358.
5. J. D. Henion, M.S. Sammons, C.E. Parker and M.M. Bursey, "Ion cyclotron resonance studies of steric effects in 2-alkylpyridines," Tetrahedron Letters, 1973, 495.
6. J.D. Henion and D.G. Kingston, "Bisdiazo insertion in cycloheptanone," J. Org. Chem., 1973, 38, 3067-3068.
7. J.D. Henion and D.G. Kingston, "McLafferty rearrangements in some bicyclic ketones," J. Am. Chem. Soc., 1974, 96, 2532-2536.
8. M.M. Bursey, J.L. Kao, J.D. Henion, C.E. Parker, and T. Juang, "Analytical ion cyclotron resonance spectrometry: Stereochemical effects in some cyclic ketones," Anal. Chem., 1974, 46, 1709-1712.
9. J.D. Henion, J.L. Kao, W.B. Nixon, and M.M. Bursey, "Analytical ion cyclotron resonance spectrometry: Increased discrimination between stereoisomers by ion molecule reactions with 1,2-dicyclopropylethandione," Anal. Chem., 1975, 47, 689-692.
10. R.H. Wasserman, J.D. Henion, M.R. Hanssler, T.A. McCaine, "Evidence that a calcinogenic factor in Solanum Malacoxylon is 1,25-dihydroxy-vitamin D₃-glycoside," Science, 1976, 194, 853-855.

11. G.A. Maylin, J.D. Henion, D.J. Hicks, L. Leibovitz, V.D. Ahrens, M. Gilbert, and D.J. Lisk, "Toxicity to fish of flame retardant fabrics immersed in their water," Bull of Envir. Contam. and Tox., 1977, 47, 499-504.
12. M. Gilbert, A. Penel, F.V. Kosikowski, J.D. Henion, G.A. Maylin and D.J. Lisk, "Electron affinity gas chromatographic determination of beta-nitropropionic acid as its pentafluorobenzyl derivative in cheeses and mold filtrates," J. Food Sci., 1977, 42, 1650-1653.
13. W.B. Nixon, S. Woodward, M.M. Bursey and J.D. Henion, "Ion molecule reactions of dimethyl-sulfoxide," Int. J. Mass Spectrom. Ion Phys., 1977, 26, 115.
14. J.D. Henion, "Applications of LC/MS/COM to the separation and identification of biologically important substances," Adv. Mass Spectrom., 1978, 7, 865.
15. J.H. Wedig, R.A. Wentworth, M.A. Gallo, J.A. Babish, and J.D. Henion, "Disposition of zinc pyrithone in the rat," Food and Cosmetics Tox., 1978, 16, 553.
16. J.D. Henion and D.G. Kingston, "Mass spectral skeletal and hydrogen rearrangements in some bicyclic ketones," Org. Mass Spectrom., 1978, 13, 431-437.
17. J.D. Henion, "Drug analysis by continuously monitored liquid chromatography/mass spectrometry with a quadrupole mass spectrometer," Anal. Chem., 1978, 50, 1687-1703.
18. T. Tobin, G.A. Maylin, J.D. Henion, C. Woodward, R. Day, J. Johnston, and J.W. Blake, "An evaluation of pre- and post-race testing and blood and urine drug testing in horses," J. Equine Med. and Sur., 1979, 3, 85-90.
19. V.D. Ahrens, G.A. Maylin, J.D. Henion, L.E. St. John, Jr., and D.L. Lisk, "Fabric release, fish toxicity and water stability of the flame retardant, Fyrol FR-2," Bull. Environ Contam. and Tox., 1979, 21, 409-412
20. W.F. McFadden, J.D. Henion, C.N. Kenyan, P.J. Arpino, T.I. Martin, D.E. Games, R.F. Skinner, M.J. McAdams, and B.L. Karger, "LC/MS systems and applications," J. Chromatogr. Sci., 1980, 18, 97-115.

21. J.D. Henion and G.A. Maylin, "Nanogram drug analysis by direct injection micro LC/MS," Biomed. Mass Spectrom., 1980, 7, 115-121.
22. J.D. Henion and G.A. Maylin, "Qualitative and quantitative analysis of hydrochlorothiazide in equine plasma and urine by HPLC," J. Anal. Toxicology, 1980, 4, 185-191.
23. T.D. Wilkins, M. Lederman, R.L. Van Tarsell, D.G.I Kingston, and J.D. Henion, Am. J. Clin. Nutri., 1980, 33, 2513-2520.
24. J.D. Henion, "Direct injection LC/MS/COM of total HPLC eluents applied to drugs and metabolism studies," Adv. Mass Spectrom., 1980, 9, 1241-1249.
25. J.D. Henion, "Continuous monitoring of total micro HPLC eluent by direct liquid introduction LC/MS," J. Chromatogr. Sci., 1981, 19, 57-64.
26. E.A. Dewey, G.A. Maylin, J.G. Ebel, and J.D. Henion, "The metabolism of promazine and acetylpromazine in the horse," Drug Metabolism and Disposition, 1980, 9, 30-36.
27. J.S. Nosanchuyk, B.M. Bilder and J.D. Henion, "Scrombroid fish poisoning in upstate New York," J. New York Med., 1982, 82, 202-203.
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29. J.D. Henion and T. Wachs, "Micro LC/MS diaphragm probe interface," Anal. Chem., 1981, 52, 1963-1965.
30. D.H. Lein, G.A. Maylin, R.B. Hillman, W.C. Rebhun, J.D. Henion, and J.G. Ebel, "Chlorpyrifos (Dursban 44) toxicity in dairy bulls," Cornell Vet., 1982, Suppl. 9, 1-58.
31. J.D. Henion, B.A. Thomson, and P.H. Dawson, "Determination of sulfa drugs in biological fluids by LC/MS/MS," Anal. Chem., 1982, 54, 451-456.
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34. C. Eckers, K. Cuddy, and J.D. Henion, "Practical microbore column HPLC: system development and drug applications," J. Liq. Chromatogr., 1983, 6(13), 2283-2309.
35. D.S. Skrabalak and J.D. Henion, "A capillary sealer for micro-cell NMR," Anal. Chem., 1983, 55, 1184-1186.
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44. J.B. Crowther and J.D. Henion, "Supercritical fluid chromatography of polar drugs using small particle packed columns and mass spectrometry detection," Anal. Chem., 1985, 57, 2711.-2716
45. J.B. Crowther, T.R. Covey, D.R. Silvestre and J.D. Henion, "Direct liquid introduction LC/MS: Four different approaches," LC Mag., 1985, 3, 240-254.
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55. A.P. Bruins, L.O.G. Weidolf, and J.D. Henion, "Determination of sulfonated azo dyes by liquid chromatography atmospheric pressure ionization mass spectrometry," Anal. Chem., 1987, 59, 2647-2652.
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63. T.R. Covey, A.P. Bruins, and J.D. Henion, "Comparison of thermospray and ion spray mass spectrometry in an atmospheric pressure ion source," Org. Mass Spectrom., 1988, 23, 178-186.

64. E.D. Lee, S.H. Hsu, and J. D. Henion, "Electron ionization-like mass spectra by capillary supercritical fluid chromatography/charge exchange mass spectrometry," Anal. Chem., 1988, 60, 1990-1994.
65. L.O.G. Weidolf, T.M.P. Chichila, and J.D. Henion, "Screening, confirmation and quantification of boldenone sulfate in equine urine after administration of boldenone undecylenate (Equipose)," J. Chromatogr., 1988, 433, 9-21.
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67. T.M.P. Chichila, D. Silvestre, T.R. Covey, and J.D. Henion, "Distribution of zeranol in bovine tissues determined by selected ion monitoring capillary GC/MS," J. Anal. Tox., 1988, 12, 310-318.
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