

Richard M. Lynch, PhD, CIH, FAIHA

21 Scott Street, Riverside, NJ 08075

856-764-3557

email: rlynch@esmcop.com

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EDUCATION

Ph.D. Public Health – *University of Medicine & Dentistry of NJ/Robert Wood Johnson Medical School & Rutgers University, New Brunswick, NJ, 1995.*

M.S. Industrial Hygiene - *Temple University, School of Pharmacy, Philadelphia, PA, 1988*

B.A. Ecology - *Rutgers College, New Brunswick, NJ, 1984*

CERTIFICATIONS & AWARDS

Fellow - American Industrial Hygiene Association, 2013

Certified Industrial Hygienist - American Board of Industrial Hygiene, 1989

Certified Microbial Remediation Supervisor – Am. Council for Accredited Certification, 2005

Certified Microbial Consultant – Am. Council for Accredited Certification, 2005

Certified Healthcare Facility Manager – American Hospital Association, 2016

NJ Licensed Indoor Environmental Consultant – NJ Department of Health, 2020

Certified Energy Auditor - Association of Energy Engineers, 2009-2015

Certified Energy Procurement Professional - Association of Energy Engineers, 2012-2015

PROFESSIONAL EXPERIENCE

1992-Present **President**

Environmental Safety Management Corporation, Riverside, NJ

Industrial hygiene and environmental health & safety consultant providing sampling and risk assessment for indoor air quality, chemical exposure monitoring for mercury, formaldehyde, asbestos, mold assessments, water quality, noise, and ergonomics for commercial, manufacturing, health care facilities and school districts. Conduct COVID-19 air quality, airflow measurement, enhanced cleaning and disinfection and reopening support for schools, government, commercial, retail, and healthcare facilities. Support healthcare facilities with Infection Control Programs, Legionella Water Management, Microbial Assessments and Healthcare Acquired Infection prevention and investigations, USP 797/800 troubleshooting and Infection Control Risk Assessments (ICRA) during construction/renovation projects and routine operations. Provide regulatory & OSHA compliance efforts for manufacturing, R&D and commercial client companies. Investigate occupational disease outbreaks. Provide health risk communication and training for chemical, biological, ergonomic and physical agent exposures. Expert testimony on defense and plaintiff exposure matters.

2002 – 2003 **Adjunct Professor**

University of Medicine and Dentistry of NJ – NJ School of Public Health – Stratford, NJ

Designed and taught graduate level courses in Industrial Hygiene and Environmental Health to graduate students including physicians, nurses, health educators and others.

Director of course development for NJ Health Officers for Nuclear, Biological, Chemical and Radiological Terrorism Preparedness under NJ Department of Health grant.

1994-2002 **Assistant Professor**

Rutgers University/UMDNJ School of Public Health

Design and teach courses in undergraduate and graduate public health programs. Conduct student academic and career advising, and scientific research on occupational health & safety, ergonomics and microbial contamination issues. Secured and managed \$1.68 million grant for development of NJ Hazardous Substance Fact Sheets.

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Participated in the NJ Governor's Domestic Security Task Force in response to Anthrax contaminated mail threats.

UNIVERSITY TEACHING EXPERIENCE

Undergraduate Courses – Rutgers University

- Introduction to Public Health
- Health and Public Policy
- Field Practicum in Public Health
- Issues in Environmental and Occupational Health

Graduate Courses – University of Medicine and Dentistry of NJ

- Principles of Industrial Hygiene
- Introduction to Environmental Health

Professional Development Course Development and Administration

- Practical Ergonomics for Workplace Health and Safety - UMDNJ-CET
- Fundamentals of Occupational Safety Compliance - UMDNJ-CET
- Instructor, Certified Mold Remediation Supervisor Review Course
Louisiana State University
- Ergonomics - Certified Industrial Hygiene Review Course NJ AIHA

1992 **Manager, Environment, Health & Safety** - *University of Medicine and Dentistry of NJ*
1991-1992 **Manager, Safety & Industrial Hygiene** - *Unisys Corporation, Flemington, NJ*
1986-1991 **Acting Program Manager** - *NJ Department of Health, PEOSHA Program Trenton, NJ*
1983-1986 **Health and Safety Technician** - *International Technology Corporation, Edison, NJ*

PUBLISHED JOURNAL ARTICLES

- Lynch, R.M. Review 2: "SARS-CoV-2 Aerosol Transmission in Schools: The Effectiveness of Different Interventions." *Rapid Reviews COVID-19*. <https://doi.org/10.1162/2e3983f5.a221df4b>
- Lynch, R.M., Favata, E., Gochfeld, M., Lynch R.A. "Assessment and Management of Mercury Catalyzed Gym Floors: Ten Lessons from Ten New Jersey School Districts" *Journal of Health Behavior and Policy Review* July/August 2021 DOI: <https://doi.org/10.14485/HBPR.8.4.6>
- Lynch, R.M., Favata, E., Gochfeld, M. "Assess Ventilation When Determining Safe Distancing in Schools to Control COVID-19 Transmission" *Journal of Clinical Infectious Diseases*, doi.org/10.1093/cid/ciab353, 2021
- Lynch, R.M., Goring, R. "Practical Steps to Improve Air Flow in Long-term Care Resident Rooms to Reduce COVID-19 Infection Risk" *Journal of the American Medical Directors Association JAMDA*; DOI: <https://doi.org/10.1016/j.jamda.2020.04.001>
- Lynch, R.M., Bell, M.A., Bice, N. "A Hazard in A Gym Floor – How the Burlington Township School District Managed a Crisis when it Discovered Flooring Materials Contained Mercury" *School Leader* Vol 47:6, 2017
- Lynch, R.M. Lynch, R.A. "A Breath of Fresh Air for Cash Strapped Schools," *School Leader* Vo.44:2, 2013
- Lynch, R.M. "Irritation and Clean-up Methods Following Installation of Cellulose Attic Insulation in one NJ Home" *Energy Engineering*, Vol. 108:1, 2011
- Lynch, R. M. "Mold Litigation: An Insider's View of Assessment and Remediation Challenges," *New Jersey Lawyer*, April, 2004.
- Fiedler, N., Weisel, C., Lynch, R. et al, "Cognitive Effects of Chronic Exposure to Lead and

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- Solvents" *Am. J. of Industrial Medicine*, Vol. 44:4. 413-423, Oct., 2003.
- Conte, M., Lynch, R.M. and Robson, M. " Microbial Contamination of Compressed Air Used in Dentistry: An Investigation," *Journal of Environmental Health*, Vol. 64, No. 4:15-20, 2001.
 - Lynch, R.M. "Modeling of Exposure to Carpet Cleaning Chemicals Preceding Irritant-Induced Asthma in One Patient," *Environmental Health Perspectives*, Vol. 108, No. 9:911-4, 2000.
 - Lynch, R.M. and Freund, A. "Short Term Efficacy of Back Injury Intervention Project for Patient Care Providers at One Hospital," *American Industrial Hygiene Association Journal*, Vol. 61, No. 3: 290-294, 2000.
 - Lynch, R.M. and Mbaye, I. "Industrial Hygiene Review of Three Manufacturing Facilities in Senegal: Findings and Key Questions," *New Solutions*, Vol. 9, No. 4: 439-448, 1999.
 - Lynch, R.M. and Kipen, H. "Building-Related Illness and Employee Lost Time Following Application of a Hot Asphalt Roof: A Call for Prevention," *Toxicology and Industrial Health*, Vol. 14, No. 6: 857-868, 1998.
 - Lynch, R.M. "Protecting Retail Customers from Back Injury Risks: The Expanding Role of the Safety Professional," *Professional Safety*, Vol. 43, No. 3: 29-31, 1998.
 - Lynch, R.M. and Henifin, M.S. "Causation in Occupational Disease: Balancing Epidemiology, Law and Manufacturer Conduct," *Risk*, Vol. 9, No. 3: 259-270, 1998.
 - Ochsner, M., Love, M., Lynch, R.M. et al. "What is Happening to Injured Computer Users? A Study of CWA District 1 Members," *New Solutions*, Vol. 8, No. 3: 309-327, 1998.
 - Lynch, R.M., Mohr, S. and Gochfeld, M. "Prediction of Tendinitis and Carpal Tunnel Syndrome Among Solderers," *Applied Occupational and Environmental Hygiene*, Vol. 12, No. 3: 184-189, 1997.
 - Lynch, R.M. and Henifin, M.S. "Establishing Evidence of Carpal Tunnel Syndrome in the Patient, Workplace, & Courtroom," *NJ Law Journal*, Vol. 146, No. 7: S-1, S-3 & S-11, 1996.
 - Ferrie, R., Lynch, R.M. "There's Something in the Air: One District's Approach to Indoor Air Quality Management" *School Leader*, National School Boards Association, Sept/Oct, 2005
 - Lynch, R.M. "Handle with Care: Prevent Injury to the Hands and Wrists," *Operations Forum*, Vol. 15, No. 2: 10-12, 1998.
 - Lynch, R.M. "Watch Your Back: Know the Risk of Ergonomic Injury" *Operations Forum*, Vol. 14, No. 11: 12-14, 1997.

CONFERENCE PRESENTATIONS/LECTURES (Partial Listing)

- "COVID-19 Workplace Preparedness & Mitigation" Burlington County Regional Chamber of Commerce, March 13, 2020.
- "Mercury in Rubberized Gym Floors: What to Expect if you Decide to Remove Flooring" New Jersey Schools Boards Association Atlantic City Convention Center, October 22, 2019
- "Quantitative Ergonomics Assessment Techniques" American Industrial Hygiene Association – Lehigh Valley Professional Development Conference October 23, 2019, Hamburg, PA
- "Industrial Hygiene Techniques for Legionella and Mold Investigation" Clinical Grand Rounds in Occupational Medicine – Rutgers University – December 15, 2015
- "Infection Control For Health Care Facilities during Construction and Renovation" Healthcare Facilities Management Society of NJ – Cranford, NJ – September, 2014
- "Indoor Air Quality, Mold and Energy Effectiveness in Schools" *NJ Association of School Business Officials Conference*, Borgata Hotel Atlantic City NJ – June 14, 2014
- "Respiratory Irritation following Cellulose Attic Insulation in One NJ Home" *Indoor Air Quality Annual Convention* – Bally's Casino, Las Vegas, NV March 6, 2012
- "Mold – Is it Your Problem?" *National Association of Waterproofing and Structural Repair*

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- Contractors, Conference* – Atlantic City Hilton Casino, Atlantic City, NJ November 12, 2009
- “Health & Safety Aspects of Green Building Remodeling” – *Residential Building & High Performance Design Workshop* US. Green Building Council – NJ Chapter – Willow School, Pottstown, NJ July 14, 2009
 - “Asbestos, Lung Cancer and Cigarette Smoking” *NJ Association for Justice Seminar*, Meadowlands Sheraton, November 12, 2009
 - “Collaboration between the Physician and Hygienist in Occupational Medicine” *NJ Association for Justice Workers Compensation Seminar*, Bally’s Casino, Atlantic City, April 24, 2009
 - “Nuts and Bolts of Epidemiology for Lawyers – Mold as a Case in Point.” *New Jersey Association for Justice Seminar*, Pines Manor, Edison, NJ, February 21, 2009.
 - “Collaboration between Medical and Building Assessment Professionals: Indoor Biological Contaminants – Health Effects, Assessments and Sampling.” *American Industrial Hygiene Conference and Exposition* – Philadelphia Convention Center, June 7, 2007
 - “Biological and Chemical Agents of Terrorism” *Public Health Bioterrorism and Emergency Preparedness Training Certificate Program* – NJ Environmental Health Association, May - June, 2003, Bordentown, NJ.
 - “Ergonomics” *New Jersey American Industrial Hygiene Association* – Industrial Hygiene Review Course – June, 2000-2014, New Brunswick, NJ
 - “The Role of the Industrial Hygienist in Mold Assessment and Litigation” *Toxic Tort Law Update: Mold, Asbestos & Lead Liability Seminar* – NJ Institute for Continuing Legal Education, March 16, 2002, Fairfield, NJ.
 - “New Challenges for Respirators Post 9/11” *Occupational and Environmental Medicine Association of NJ*, June 6, 2002, New Brunswick, NJ.
 - “Industrial Hygiene in Senegal” *19th Annual Northeastern Industrial Hygiene Conference*, Marriott Hotel, Princeton, New Jersey, December 3, 1999.
 - "Short Term Impact of Back Injury Training Program Among Health Care Workers," *Occupational Medicine Resident's Seminar Series*, UMDNJ-Robert Wood Johnson Medical School, September, 1997.
 - "Scientific Literature Search and Evaluation Techniques for Occupational Pulmonary Claims," *Institute for Continuing Legal Education Conference on Proving Causation of Occupational Disease*, New Brunswick, New Jersey, October 1996.
 - "Risk Factors and Controls for Occupational Carpal Tunnel Syndrome," *Chief's Medical Rounds Seminar*, Cooper Medical Center, June 1996.

PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

- Fellow, American Industrial Hygiene Association – 2013 – Present
- Chairperson, Burlington Township Green Team Sustainability Committee – 2009 - 2011
- Founding Director, Indoor Air Quality Association – Trenton Chapter – 2006 - 2009
- Member, NJ Clean Air Council – Governor Appointed – 2003- 2009
- Member, Occupational Health Advisory Board, NJ Dept. of Health & Senior Services, 1996 - 2008
- Member, American Industrial Hygiene Association, 1993 - Present
- Member Indoor Air Quality Association, 2005-Present
- Member, Healthcare Facilities Management Society of NJ, 2014 - Present
- Associate Member, New Jersey Association of School Business Officials, 2014 - Present
- Member – Rutgers Green Building Remodeling Advisory Board – 2008 - Present
- Member & Vice President, Burlington Township Board of Education 2005 – 2014