

CURRICULUM VITAE

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Work Environment Department
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PERSONAL Date of Birth: May 2, 1946
Citizenship: U.S.A. and Colombia

EDUCATION

- 1982 Ph.D., Environmental Health (Industrial Hygiene), University of Cincinnati Medical Center.
Thesis: "Epidemiological Investigation of Molybdenum Workers"
- 1974 M.Sc., Environmental Health (Industrial Hygiene), University of Cincinnati Medical Center.
Thesis: "Theoretical Mathematical Lung Models as Predictive Tools for the Deposition and Retention of Inhaled Aerosols"
- 1970 M.Sc., Chemical Engineering, Bucknell University.
Thesis: "Effects of Surfactant Concentration on Emulsion Polymerization of Styrene"
- 1967 B.Sc., Chemical Engineering, University of Pittsburgh
- 1963-1966 Universidad de los Andes Bogota, Colombia, Chemical Engineering (transferred to the University of Pittsburgh in 1966)

CERTIFICATIONS

Certified Industrial Hygienist (CIH) for Comprehensive Practice certified by the American Academy of Industrial Hygiene. Certificate # C.P. 3170, 1985. Re-certifications: 1992, 1997, 2003 and 2007. Certification valid until 2012.

EMPLOYMENT HISTORY

ACADEMIC POSITIONS -- UML

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| 2003-Current | Departmental Chair by election of Department of Work Environment faculty. Administrative, academic and fiscal responsibility of the Department. Coordinate workload, research and promotion of 13 full time tenure track faculty members and and five research faculty. Interact with three research centers embedded in department (Lowell Center for Susatinable Productin, LCSP; Toxics use Reduction Institute, TURI and Center for the Promotion of Health in the New England Workplace, CPH-NEW. Supervise 2 full time staff (Department's Staff Assistant and Financial Manager) and attend to the needs of 300 alumni and 75 current graduate students. |
| 2000-Current | Full Professor, University of Massachusetts Lowell, College of Engineering, Department of Work Environment. |
| 1988- 2000 | Associate Professor. Tenure granted in 1992, Work Environment Department, College of Engineering, University of Massachusetts Lowell, conduct multi-disciplinary occupational health research, teach graduate courses in <u>Introduction to Work Environment</u> , <u>Risk Assessment</u> , <u>Field Evaluations of Work Environments</u> , <u>Physical Hazards: Evaluation and Control</u> and <u>Chemical Engineering Process for Sustainable Production</u> Advise graduate students for M.Sc. and Sc.D. degrees. |
| 1998- 2003 | Co-Director, Public Health Engineering and Policy Initiative (PHEPI). An independent academic initiative within the University of Massachusetts Lowell and reporting to the Provost. PHEPI promotes research in public health, offers academic courses and provide community services in primary prevention |
| 1997-1998 | Acting Chair of the Department of Work Environment by election of the department faculty. Administrative, academic and fiscal responsibility of the Department for a full academic year. |

ACADEMIC POSITIONS – Other Academic Institutions

- 1993- 2000 Visiting Lecturer in Occupational Health, Harvard School of Public Health, Harvard University, Cambridge, Massachusetts.
- 1995-1996 Visiting Professor. Sabbatical in the National Institute of Working Life (NIWL) of Ministry of Labor of Sweden in Stockholm, Conducted research in Risk Assessment and Toxicology.
- 1987-1988 Adjunct Assistant Professor, Work Environment Department, College of Engineering, University of Lowell, Lowell, MA.
- 1982-1983 Assistant Clinical Professor of Preventive Medicine. University of Colorado School of Medicine, Denver, CO.

EMPLOYMENT HISTORY: NON-ACADEMIC POSITIONS

- 1994-1995 Senior Policy Advisor to OSHA on Chemical Exposure Prevention
Washington D.C. ad Lowell Massachusetts. Inter-Personnel Act appointment (IPA). Advised OSHA Assistant Secretary of Labor on the advantages of an interface between Pollution Prevention strategies in occupational health. Made recommendations on options to change OSHA policies on hierarchy of controls. Discussing engineering controls as interventions, different from source reduction and process changes. Planned field interventions with OSHA and other occupational health professionals participating in Pollution Prevention interventions. Liaison from OSHA on Pollution Prevention to EPA and NIOSH.
- 1983-1988 United Automobile Workers, International Union, Detroit, MI. Industrial Hygienist, Chemical Engineer, Health and Safety Department. Provide technical consultation services on occupational and environmental health (engineering aspects) for 3,500 work-places in the U.S. and Canada. Participate in federal and state occupational standard setting and research activities. Participate in collective bargaining health and safety activities. Coordinate negotiations on health and safety and joint educational and industrial hygiene efforts between the UAW and General Dynamics, Chrysler, Caterpillar, John Deere and Volvo-White corporations.
- 1975-1983 Oil, Chemical & Atomic Workers International Union, Denver, CO. Industrial Hygienist, Chemical Engineer. Health and Safety Department. Provide technical consultation services on environmental and occupational health (engineering aspects) for 1,800 OCAW locals. Design and implement educational programs for OCAW members. Coordinate occupational

- health research (NCI, NIOSH, Universities) for industries under the union's jurisdiction. Prepare and coordinate input for occupational standard setting under OSHA. Also plan and direct the activities of the "New Directions." Grant awarded by the U.S. Department of Labor/OSHA on OCAW.
- 1973-1975 Oil, Chemical & Atomic Workers International Union, Denver, CO. Intern, Health and Safety Department. Administer Pulmonary Function Tests (PFT's) to workers of OCAW Local 3-639. Organize health study of molybdenum workers with members of Local 2-477 and Local 2-24410. Administer PFT's health story questionnaires and collect biological samples in a joint investigation with the University of Cincinnati Medical Center, NIOSH, and the University of Colorado Medical Center (Molybdenum Project.)
- 1973-1975 Task Force for Occupational Safety and Health (TFOSH), Founder and co-Director, Cincinnati, OH.
- 1971-1973 University of Cincinnati, Cincinnati, OH Research Assistant, Dept. of Environmental Health, School of Medicine, Independent studies on health effects of inhaled aerosols. Teaching of industrial hygiene instrumentation in a graduate short course for government and industry professionals.

CHEMICAL INDUSTRY EXPERIENCE

- 1969-1971 Rohm & Haas Co., Spring House, PA
Research Chemical Engineer (Scale Up and Development). Laboratory development of emulsion polymer process to be scaled up to pilot plant sizes. Raw materials testing. Support and troubleshooting on emulsion polymerization production.
- 1968 Dow Chemical Company, Midland, Research Chemical Engineer, Physical Research Laboratory. Semi-pilot plant production of chlorostyrene. Design from laboratory to production plant size.

INSTRUCTIONAL EXPERIENCE

University of Massachusetts Lowell (1988- 2007)

Graduate Courses (Designed and Taught)

Designed and taught: **Chemical Process Fundamentals for Sustainable Production (19.695)** graduate course requirement for Cleaner Production concentration for Masters of Work Environment. Course designed and taught in Fall 1999.

Designed and taught: **Field Evaluation in the Work Environment (19.625)**, graduate course required for the Master of Science in Industrial Hygiene to replace 19.513. Course taught: 1993 every year until 2008.

Designed and taught: **Risk Assessment (19.683)**, requirement in Epidemiology and Policy for the Master of Science degree in Work Environment. Team-taught with 3 faculty members (course coordinator). Course taught: 1991 every year until 2008.

Co-designed and taught: **Physical Hazards Evaluation and Control (19.517)**, requirement in Industrial Hygiene and Ergonomics concentrations for the Master of Science degree in Work Environment. Team taught with 2 faculty members (course coordinator). Course taught: 1990 every year until 2008.

Designed and taught: **Exposure Assessment (19.512/610)** core graduate course for Master of Science in Work Environment. Course taught: 1988, 1989, 1990, and 1991.

Designed and taught: **Health Hazards of Manufacturing Processes (19.513)**, core requirement for Master of Science in Work Environment. Course taught: 1989, 1990, 1991, and 1992.

Designed and taught: **Advanced Project in Industrial Hygiene (19.721)**, **Independent Study/Selected Topics in Work Environment Policy (19.715, 19.728)**, **Independent Student/Selected Topics in Cleaner Production (19.719, 19.729)**. Advance Topics Course taught: 1989, Independent Student/Selected Topics taught: 1999 to 2008

Graduate Courses (Assisted)

Introduction to Work Environment (19.500), core requirement for all Work Environment MS students. Course taught: 2001-8 (2 Lectures/year)

Presented Module on OSHA General Duty Clause: **Critical Review of Occupational Health Standards (19.690)**, core requirement for Master of Science in Work Environment. Module presented: 1989, 1990, and 1991, 1992-99.

Presented Module on Confined Spaces Hazards: **Hazardous Waste Worker Training (19.509)**, elective course for Environmental Engineering a Work Environment Departments. Module presented: 1990, 1991.

Undergraduate Courses

College Algebra and Analytic Geometry (92.111), service course for Department of Mathematics for Freshman. Fall 1996.

Undergraduate Courses (Assisted)

Presented Module on Solvent Exposure Case Study: **Occupational Health (19-401)**, elective from College of Engineering. Module presented: 1989, 1990, 1991, and 1992.

Presented Module on Occupational Health: **Sociology of Health and Health Care (48.351)**, Course in Sociology Department. Module presented: 1991, 1992.

Other Universities Graduate Courses (Assisted)

Designed and Presented Lectures in Occupational Health. Third Year Medical Students (as Clinical Assistant Professor). Medical School of University of Colorado Health Sciences Center. Denver, Colorado. Module Presented: 1982.

Presented Module in Industrial Hygiene Instrumentation: Professional Course in Occupational Hygiene. Kettering Laboratory. Department of Environmental Health. School of Medicine, University of Cincinnati. Module presented: 1974.

Symposia (Selected)

Moure-Eraso, R. "Next Generation Environmental Technologies (NGET) and Workers' Protection." 29th Annual Scientific Meeting, Ny-NJ NIOSH Education Research Center (ERC), Mount Sinai Hospital. New York, New York, April 11th, 2008

Moure-Eraso, R. "Integracion de Nuevas Tecnologias Ambientales con Salud Ocupacional: Alternative Politico-Social al Neoliberalismo. IFA (Ecuador) International Seminar of Work and Health. Quito, Ecuador, April 2008

Moure-Eraso, R. "Social Determinants of Occupational Health of Latino Immigrants in the USA." V Semana Argentina de Salud y Seguridad en el Trabajo. Buenos Aires, Argentina, April 2008

Moure-Eraso, R. "Alternative to the Market System in Occupational and

Environmental Health". III Conference of Occupational and Environmental Health in the Americas 2005. Alejuela. Costa Rica. February 2005

Moure-Eraso, R., "Precautionary Principle and Sustainability". III Conference of Occupational and Environmental Health in the Americas 2005. Alajuela. Costa Rica. February 2005

Moure-Eraso, R., "Predatory Principle and Globalization." UNICAMP, Campinas, Brazil, Chemical Workers Union of Brazil, Campinas, Brazil Universidad Federal de Porto Alegre, Rudos, Brazil. July 19th to 22rd, 2004

Moure-Eraso R., "UML-UNICAMP Occupational Health Capabilities for Collaborations." Ministry of Health, Brasilia Brazil. July 24, 2004

Moure-Eraso, R., "Developmental Models, Sustainability and Occupational/ Environmental Health: NeoLiberalism versus Sustainable Theories of Development". II Conference of Occupational and Environmental Health: Integrating the Americas in Salvador Bahia, Brazil. June 18, 2002

Moure-Eraso, R., K. Geiser, M. Ellenbecher. "Initiating Programs of Cleaner Production in Universities International Agreements to Promote Environ. Health/Cleaner Production: The Fogarty Program." International Congress of Clean Production UNISON-UML. Hermosillo, Sonora, Mexico. January 17, 2002

Moure-Eraso, R., "Ten Years of Integration of Pollution Prevention and Occupational Health." American Public Health Association (APHA) Annual Meeting, Boston, November 14, 2000.

Moure-Eraso, R., "Occupational Health Status of Urban Hispanics in the United States." Presentation to National Safety Council (NSC) Annual Meeting. Orlando FLA, October 18, 2000

Technical Seminary. "The Multitasking Requirements of Modern Industrial Hygiene: Pollution Prevention". New England American Industrial Hygiene Association, Boston, MA, November 1999

Technical Seminary: "Pollution Prevention and Occupational Health: How Industrial Hygiene can be an Instrument of Primary Prevention in Occupational Health." Presentation for the NIOSH Conference: Control of Workplace Hazards for the 21st Century. Chicago, Ill. March 10, 1998.

Professional Seminary to: NIOSH Appalachian Laboratories for Occupational Health on: "Pollution Prevention and Occupational Health". Morgantown, WVA. January 24, 1997.

Professional Seminary to Toxic Use Reduction Institute Annual TURPS Training: "New Developments on Pollution Prevention and Occupational Health". Worcester, MA. February 26, 1997.

Professional Seminary to NIOSH Board of Scientific Councilors on: Exposure Control versus Exposure Prevention. Washington DC. April 30, 1997.

Graduate Seminar to: Department of Work Environment: "Science Policy and Public Health Policy in Occupational Health Standards Development in Sweden and the United States." Lowell, MA. September 17, 1996.

Graduate Seminar to Arbetslivsinstitutet, Sweden, on: "Science Policy and Public Health Policy in Occupational Health Standards Development in Sweden and the United States", Stockholm, Sweden. April 29, 1996.

Moure-Eraso R., Paper presented: Pollution Prevention Round table. Bi-Annual Meeting. "Pollution Prevention and Occupational Health", Miami, FLA. December 15, 1995.

Professional Seminary to the Commonwealth of Massachusetts, Toxics Use Reduction Advisory Board: "Pollution Prevention and Occupational Health". Boston, MA. Nov 26, 1995.

Professional Seminary: ONE Committee (OSHA, NIOSH, EPA). "Pollution Prevention and Occupational Health" Washington, D.C., July 1, 1995.

Technical Presentation: American Industrial Hygiene Association Conference (AIHAC). "Pollution Prevention and Occupational Health", Kansas City, May 26, 1995.

Technical Seminary. "Control of Lead Exposures at a Lead Battery Plant: Reproductive Health Implications." Division of Industrial Safety, Department of Occupational Hygiene, Commonwealth of Pennsylvania, Boston, MA, April 1991.

Graduate Seminar: "The General Duty Clause," Harvard School of Public Health. April 1990.

Industrial Hygiene Graduate Seminar: "The General Duty Clause," John Hopkins University, May 1989.

Oil Chemical Atomic Workers. Health and Safety Seminar: "Epidemiology Mortality Studies at OCAW Plants." Denver, Colorado, 1989.

International Conference on Strategies for Global Labor Solidarity: "New Global Strategies in Occupational Health." ICEF, Washington D.C., July 1989.

The Workplace Health Fund: "Action Priorities to Minimize Incidents of Toxic Releases of Petrochemical Processes." Washington, D.C., August 1989.

THESIS SUPERVISION AND ADVISING

Primary advisor (ScD Graduates 1994 -2007):

1. ScD Industrial Hygiene Dissertation: Chihwei Arthur Lu. "Predictive Model for Cumulative Asbestos Exposure of Boston Public School Janitors". Lowell MA. 1994.
2. ScD Industrial Hygiene Dissertation: Paul Becker. "Mathematical Predictive Model for Lead Exposure in Highway Bridge Repairs". Lowell, MA. 2000.
3. ScD Work Environment Policy Dissertation: David May. "Outcomes Research of OSHA Interventions on Ergonomics OSHA Violations in New Hampshire". Lowell, MA. 2001.
4. ScD Work Environment Policy Dissertation: Karla Armenti: "Clean Production: Primary Prevention for Occupational Health: Pollution Prevention in Massachusetts." Lowell, MA. 2002.
5. ScD Work Environment Policy Dissertation: William Erwin. "Social History of Risk Assessment Process for Exposures to Non Ionizing Radiation." Lowell, MA. 2002.
6. ScD Cleaner Production: Luis Velazquez. "Structural Modeling of Sustainable Production in Universities." Lowell, MA, 2002.

7. ScD Work Environment Policy/Cleaner Production: Marian Flum Involving Workers in Environmental Decisions: A Link in Improving Occupational Health. Lowell MA. 2004.

8. ScD Work Environment Policy: Susan Moir. Worker Participation in Occupational Health and Safety Change in the Construction Workplace. 2004.

9. ScD Industrial Hygiene: Udorn Youngchuay. Impact of Working Conditions during Outages at Nuclear Power Plants. Lowell, MA. 2004.

10. ScD Work Environment Policy. Samuel F. Agyem-Bediako. Management Commitment to Safety among Multinational Construction Companies in Developing Countries: The Case of Ghana. Lowell, 2007

11. ScD Cleaner Production. Javier Esquer Peralta. Sustainable Management Systems (SMS): An Integrative Approach to Management Systems towards Sustainable Development. Lowell, 2007

Primary Advisor – Department of Work Environment (ScD Current)

Currently (2007) Primary advisor for three (3) ScD Students. Two Cleaner Production and one Work Environment Policy.

Member of Doctoral Dissertation Committee (Total 29)

Graduated: Twenty five (25) graduated from 1992 to 2007. Four (4) currently working in degrees. Distribution by concentration as follows: Four (4) in Cleaner Production; nine (9) in Industrial Hygiene; ten (10) in Work Environment Policy and two (2) in Epidemiology.

Master of Science Advisor (Graduated)

Sixteen (16) MS graduates. Twelve (12) in Industrial Hygiene and four (4) in Work Environment Policy.

Master of Science Advisor (Currently)

Primary advisor for seven (7) Masters candidates in Industrial Hygiene and two (2) Graduate Certificate Students.

RESEARCH

EXTRAMURAL FUNDS OBTAINED (UNIVERSITY OF MASSACHUSETTS LOWELL)

U.S. National Institute of Health. Fogarty International Institute. "Work and Health in Brazil and Mexico," Five years Research and Training Program in Environmental and Occupational Health. **Principal Investigator**. 2000-2007. \$500,000

World Health Organization (WHO). Preparation of Analytical Paper on "Employment Conditions as social determinants of Health inequalities." **Principal Investigator**. 2005-2006. \$10,000

US National Institute for Occupational Safety and Health (NIOSH). Occupational and Environmental Health Training Program. PI: Michael Ellenbecker. Prepared the successful proposal for the Work Environment Policy Concentration: **Principal Investigator and Director** of the Work Environment Policy Concentration. Awarded 2006-2011. \$47,800/year.

U.S. National Institute of Environmental Health Sciences (NIEHS). Center for Family Work and Community (CFWC) and Department of Work Environment. University of Massachusetts Lowell, "Southeast Asian Environmental Health: New Ventures," Competitive Renewal. Co-Principal Investigator. 2000-2005. \$500,000.

U.S. National Institute of Environmental Health Science (NIEHS) to Center for Family Work and Community (CFWC). University of Massachusetts Lowell, "Southeast Asian Environmental Health: The Lowell Partnership for Communication," Research Scientist on Environmental/Occupational Health. 1995-99. \$ 790,000

Commonwealth of Massachusetts. Center for Environmentally Appropriate Materials (CEAM). University of Massachusetts Lowell. Thermal Emissions of Recycled Polyethylene. **Principal Investigator**. Total Amount: \$50,000 (Summer 1994).

UAW/GM Center for Health and Safety, "Field Investigations of the Acute Respiratory Effects of Machining Fluids". Research Scientist. Correlations of MF Exposures with Acute Respiratory Effects, 1991-1993. \$840,000.

Harvard School of Public Health (Subcontract of National Institutes of Health), "Susceptibility to Genetic Damage from Butadiene." Collaborating Investigator, 1991-1992. HSPH. \$162,000.

AFL-CIO. Community and Workplace impact of the Maquiladora Industrial Processes in the State of Tamaulipas, Mexico. **Principal Investigator**, Total Amount: \$27,500, (1990-1991).

The Society of the Plastics Industries, Inc., Methodologies of Collection and Analysis of Thermal Emissions of Plastics Processes. Co-Principal Investigator, Total Amount: \$170,000, (1989-1991).

Oil, Chemical and Atomic Workers Union. "Occupational Health Surveillance in Texas Golden Triangle and Louisiana" Planning Grant, Principal Investigator, \$5,000 (1988-89).

Harvard School of Public Health (Subcontract of GM/UAW grant), "Case Control Study of Brain and Larynx Cancer at GM/UAW Plants." Co-Principal Investigator, Case Control Study, 1990-1991. \$127,075.

SPECIAL EXTERNAL RESEARCH CONTRIBUTIONS TO UML

Obtained a donation for \$63,000 to University of Massachusetts Lowell for the renovation and outfitting of the department's Industrial Hygiene Laboratory (Coia IH Laboratory, Pinansky 308). Winter 1990.

Offset of \$36,392 in salary paid by the US Department of Labor(DOL), OSHA to UML from June 1994 to June 1995 pursuant to the Intergovernmental Personnel Act of 1970 (5 USC 3371-3376). Held the position of Senior Advisor to the Assistant Secretary of Labor on Chemical Exposure Prevention (SPACEP) in Lowell and Washington DC at DOL for 12 months. Based in Lowell Massachusetts while maintaining a full-time faculty position at the Department of Work Environment, UML.

INTRAMURAL RESEARCH (UNIVERSITY OF MASSACHUSETTS LOWELL)

Committee in Theory and Assessment (CITA). Co-Principal Investigator: Impact of Pollution Prevention in Occupational Health. Report finished October 1999. Grant \$2,500.

Toxics Use Reduction Institute (TURI). Co-Principal Investigator: Clean Production: Primary Prevention for Occupational Health: Pollution Prevention in Massachusetts. September 1999-2000. Grant \$25,000.

RESEARCH IN OTHER INSTITUTIONS

March of Dimes Birth Defects Foundation and University of Colorado Health Sciences Center. Development of two grants: "Reproductive Hazards of Halogenated Hydrocarbon Exposed Workers" and "Model

Surveillance System for Occupational Disease." Investigator, Total amount: \$112,000, (1980-1983). OCAW.

National Cancer Institute, Development of Proposals for on-going mortality study of OCAW members nationwide, Principal Investigator (1977-1983). OCAW.

Occupational Safety and Health Administration. Author of original funding request for OCAW's "New Directions" Grant. Co-Principal Investigator, Total funding: \$1,023,500, (1978-1983). OCAW.

PUBLICATIONS IN SCIENTIFIC JOURNALS

Peer Reviewed:

Lahiri, S., R., Moure-Eraso, M. Flum, C. Tilly, R. Karasek and E. Massawe A Review of Employment Conditions as Social Determinants of Health. Part I: Structural determinants, New Solutions. Vol 16. Number 2. 2006.

Moure-Eraso R., M. Flum, Lahiri, S, C. Tilly and E. Massawe A Review of Employment Conditions as Social Determinants of Health. Part II: The Workplace. New Solutions. Vol 16, Number 4. 429-448. 2006.

Lee, B.K., M.J. Ellenbecker, and R. Moure-Eraso, "Alternatives for Treatment and Disposal Cost Reduction of Regulated Medical Wastes," Waste Management 24(2): 143-51. 2004.

Moure-Eraso, R., Developmental models, sustainability and occupational/environmental health in the Americas: neo-liberal versus sustainable theories of development. Ciencia & Saude Coletiva. Science and Collective Health. ABRASCO, Vol 8. Number 4:1039-46. 2003.

Armenti K, Moure-Eraso R, Slatin C, Geiser K, Joint Occupational and Environmental Pollution Prevention Strategies: A Model for Primary Prevention. New Solutions. Vol 13, Number 3: 241-61. 2003.

Roelofs CR, Barbeau EM, Moure-Eraso R, Ellenbecker MJ: Prevention Strategies in Industrial Hygiene: A Critical Literature Review. Am. Ind. Hyg. Assoc. J, 64:62-67. 2003

Moure-Eraso, R., Primary Prevention and Precaution in Hazard Identification in the NIEHS/NTP: Body in the Morgue Approach. Public Health Reports, Vol 117, Number 6: 564-74. November-December 2002.

- Byeong-Kyu Lee, Ellenbecker M, Moure-Eraso R, Analysis of the recycling potential of medical wastes. *Waste Management*. 22:461-470. 2002
- C. Roelofs, Moure-Eraso, R., M. Ellenbecker. "Pollution Prevention and the Work Environment: The Massachusetts Experience." *Applied Occupational and Environmental Hygiene*. Vol 15, Number 11, November 2000.
- Moure-Eraso R, Observational Studies as Human Experimentation: Uranium Mining in the Navajo Nation (1947-1966). *New Solutions Journal*, Vol. 9, Number 1, 1999.
- Moure-Eraso R, The Convergence of Labor and Public Health: A Natural and Critical Alliance. *Journal of Public Health Policy*, Vol. 20, Number 3, 1999.
- Quinn MM, Kriebel D, Geiser K, and Moure-Eraso R, Sustainable Production: A Proposed Strategy for the Work Environment, *American Journal of Industrial Medicine*, 34: 297-304, 1998.
- Moure-Eraso R, M. Wilcox, L. Punnett, L. Macdonald, C. Levenstein. Back to the Future: Sweatshop Conditions on the Mexico-U.S. Border. II. Occupational Health Impact of Maquiladora Industrial Activity. *American Journal of Industrial Medicine*. (31): 587-599, 1997.
- Byeong-Kyu Lee, R. Moure-Eraso, M J. Ginieres, M J Ellenbecker. "A Pilot Study of Air Emissions of Aldehydes Produced during the Processing of Recycled High Density Polyethylenes ". *Journal of Korea Air Pollution Research Association*. Vol 13, No. E, November 1997.
- Woskie, R.S., Virji M.A., Kriebel D., Sama S., Eberiel D., Milton D., Hammond S.K., Moure-Eraso R." Exposure Assessment for Field Investigation of the Acute Respiratory Effects of Metalworking Fluids. I . Summary of Findings." *American Industrial Hygiene Journal*. (57). December 1996.
- Greenspan, C.A., Moure-Eraso, R., Wegman, D.H., Oliver, L.C.," Occupational Hygiene Characterization of a Highway Construction Project: A Pilot Study," *Applied Occupational and Environmental Hygiene*, 10, 1:50-58. 1995.
- Wenzl B.T., Kriebel D., Eisen E.A., Moure-Eraso R., "A Comparison of Two Methods for Estimating Average Exposure to Power Frequency Magnetic Fields." *Applied Occupational and Environmental Health*. 10 , 2: 125. 1995.
- Moure-Eraso R., Wilcox M., Punnett L., Copeland L., Levenstein C., "Back to the Future: Sweatshop Conditions in the Mexican-U.S. Border, I. Community Health

Impact of Maquiladora Industrial Activity", *American Journal of Industrial Medicine* 25: 311, 1994

Moure-Eraso, R., "The Health Agenda for the 1990s: Occupational and Environmental Health," *Journal of Public Health Policy*. Vol. 12, (1): 31-34, 1991.

Moure-Eraso, R. and Tsongas, T., "Benzene and Cancer, The OSHA Standard, Workers Compensation and Public Health Policy Implications," *New Solutions Journal*, Vol. 1, (2): 13-21, 1990.

Park, R., Maizlish, N., Punnett, L. Moure-Eraso, R., Silverstein, M.. "Comparison on PMR's and SMR's as Estimators of Occupational Mortality," *Epidemiology*, 2 (1): 49-59, 1991.

Savitz, D. A. and Moure-Eraso, R., "Cancer Risk Among Oil Refinery Workers, A Review of Epidemiologic Studies." *Journal of Occupational Medicine*, 6:3-16, 1984.

Thomas, T. L., Waxweiler, J., Crandall, S., White, W., Moure-Eraso, R., and Fraumeni, F., Jr., "Cancer Mortality Patterns by Work Category in Three Texas Oil Refineries." *American Journal of Industrial Medicine*, 6:3-16, 1984.

Thomas, T. L., Waxweiler, J., Moure-Eraso, R., "Mortality Patterns Among Workers in Three Texas Oil Refineries." *Journal of Occupational Medicine*, 24 (2): 1982.

Thomas, T. L., Decoufle, P., Moure-Eraso, R., "Mortality Among Workers Employed in Petroleum Refining and Petrochemical Plants," *Journal of Occupational Medicine*, 22 (2): 1980.

Walravens, P. A., Moure-Eraso, R., Solomons, C. C., Chappell, W. R., Bentley, G., "Biochemical Abnormalities in Workers Exposed to Molybdenum Dust," *Archives of Environmental Health*, 34 (5): 1979.

PUBLICATIONS (CHAPTERS OF BOOKS)

Moure-Eraso R and MJ Brunette, Employment Conditions as Social Determinants of Health and Health Inequalities in Latino Populations, in *Social and Structural Factors Affecting the Health of Latino Males in the United States*. M. Aguirre-Molina (Ed.) Rutgers University Press (Proofs corrected March 2007)

Moure-Eraso, R., "Avoiding the Transfer of Risk: Pollution Prevention and Occupational Health", in Levy B. and Wegman D. (ed). *Occupational Health:*

Recognizing and Preventing Work-Related Disease. Little and Brown, New York, Fourth Edition, 1999, updated Fifth Edition, Lippincott Williams & Wilkins, 2006.

Moure-Eraso R, et al. Co-Author of Chapters 3 and 4 of: "Emerging Technologies and the Safety and Health of Working People: Knowledge Gaps and Research Directions." NIOSH Publication: DHHS (NIOSH) Publication No.2006-136. August 2006. Cincinnati, Ohio. 2006

Moure-Eraso, R., Commission on Social Determinants of Health, WHO, PAHO. Regional Report: Regional consultation on the work of the Commission on Social Determinants of Health. 47th Directing Council. 58th Session of the Regional Committee. Employment Conditions: Reviewing Evidence and Promoting Action. Washington DC. September 2005. 34-36. 2006

Moure-Eraso, R., G. Friedman-Jimenez. Occupational Health Among Latino Workers: A needs Assessment and Recommended Interventions. In: Safety is Seguridad: Workshop Summary Communicating Safety and Health Information to Spanish-speaking Workers. Division of Earth Sciences and Life Studies. National Research Council. National Academy of Sciences Publication. Washington DC. 2002

Moure-Eraso, R., G. Friedman-Jimenez. Occupational Health Among Latino Workers in Urban Settings. Chapter 12 in: Health Issues in the Latino Community. APHA Publication. Jossey-Bass. Wiley Company, San Francisco. 2001.

Moure-Eraso R, Uranium Mining in the Navajo Nation (1947-66): A Case of Undesigned Human Experimentation. Excerpta Medica, International Congress Series, Vol. 1189. Elsevier Science B.V., Amsterdam, 1999.

Moure-Eraso, R., "Violent Working Conditions: Sweatshops in United States Manufacturing as a form of Workplace Violence." in Encyclopedia of Violence in the United States, Charles Scribner's Sons, Simon and Schuster, Inc. New York. 1999.

Moure-Eraso, R., "Application of Toxicological Relationships. Rapporteur Summary." Published in Exposure Assessment for Epidemiology and Hazard Control. Lewis Publisher, Florida First Edition, 1991.

Moure-Eraso, R., "Action Priorities to Minimize Incidents of Toxic Release of Petrochemical Products." in Prevention and Control of Toxic Releases in Work and Community Environments. Workplace Fund Publications, Washington D.C., 1991.

- Moure-Eraso, R., "Impediments to Occupational Epidemiology," Chapter 22 in *Methods and Issues in Occupational and Environmental Epidemiology*. L. Chiazzese, F. E. Lundin, D. Watkins, Editors, SOEH, Ann Arbor Science, Butterworths, England, 1983.
- Moure-Eraso, R., "Comments on Applied Industrial Hygiene Programs and Experimental Toxicology Studies." *Oil Shale Environmental Challenges III*, K. Peterson and W. Chappell, Editors, University of Colorado at Denver, CO., 1983.
- Moure-Eraso, R., "Establishing a Registry of Workers Involved in Oil Shale and Coal Gasification and Liquefaction." *Demonstration and Commercial on Synthetic Fuels Facilities Safety*, National Research Council, National Academy of Sciences, Washington, D.C. 1982.
- Moure-Eraso, R., "Industrial Hygiene and Medical Data Collection in Coal Liquefaction Pilot Plant." (in *Safety Issues Related to Synthetic Fuels Facilities*). Final Report. Committee on Synthetic Fuel Facilities Safety National Research Council, National Academy of Sciences, Washington, D.C. 1982.
- Moure-Eraso, R., Krekel, S., "Advances in Occupational Health, (Scientific Advances)," in *Advances in Environmental Science and Engineering*, J. R. Pfafflin and E. N. Ziegler, Editors, Polytechnic Institute of New York, Vol. 1, Gordon and Breach, Science Publishers, New York, 1979.
- Krekel, S., Moure-Eraso, R., "Advances in Occupational Health (Impact of Legislation)", in *Environmental Science and Engineering*, J. R. Pfafflin and E. N. Ziegler, Editors, Polytechnic Institute of New York, Vol. 1, Gordon and Breach, Science Publishers, New York, 1979.

NON PEER REVIEWED LETTERS EDITORIALS AND BOOK REVIEWS

- Moure-Eraso, R., L. Punnett. "Ideology Tzars in Federal Science: The Specter of Trofim Lysenko." Editorial. *New Solutions* Volume 13. Number 2, 129-31. 2003
- Moure-Eraso R. "Is OSHA going to wire the Latino Working Community? Not likely." Editorial. *New Solutions*. Volume 12, Number 2. 2002
- Moure-Eraso R., Book Review: Milkman R. *Farewell to the Factory: Auto Workers in the Late Twenty Century*. University of California Press, 1997; in *American Journal of Public Health Policy*. Vol 20, 3, 1999

Moure-Eraso R., Book Review: Samet J., Spengler J.D., Indoor Air Pollution: A Health Perspective. Interscience, 1991; in New Solutions, Vol. 3 (1), in press, 1992.

Kriebel D., Wegman D.H., Moure-Eraso, R., Punnett L. (Letter): "Limitations of Meta-Analysis: Cancer in the Petroleum Industry." American Journal of Industrial Medicine, 17:269-71, 1990.

Moure-Eraso, R., "Politics of Cancer." (Letter), Chemical and Engineering Progress, 84, 8:8-10, 1988.

Moure-Eraso R. and Itaya S., "Erroneous Comparisons in Oil Refineries Workers Mortality Studies," (Letter). Journal of Occupational Medicine. 27,7:464:465, 1985.

Savitz D. and Moure-Eraso R., "Identifying Unexposed Workers from Occupational Cohorts," (Author Response, Letter), Journal of Occupational Medicine, 27,4:240, 1985.

TECHNICAL REPORTS

University of Massachusetts Lowell Work Environment Department Reports

Moure-Eraso R., C.P. Lee, M. Ginieres, MJ Ellenbecker, Technical Report to Center for Environmental Appropriate Materials: "Gaseous Emissions from Post-consumer Recycled Polyethylene". September 1995.

Moure-Eraso R., Chihwei A. Lu, Schott N., Ellenbecker M., Technical Report to SPI Inc.: "Emissions of Selected Plastic Processing Operations," ULRF Project No. 09-5381. January 1992.

Moure-Eraso R., Wilcox M., Punnett L., Copeland L., Levenstein C. Technical Report to AFL-CIO: "Border," ULRF Project: 09-5708. April 1991.

Moure-Eraso R., Somer C., Hubley P., Sama S., Technical Report to OCAW: "Occupational Health Surveillance: Report of UL-OCAW Gulf Coast Project," ULRF Project No. 05-5245. July 1990.

Technical Reports on Field Hazard Evaluations

Fifty four (54) extensive hazard evaluations in the chemical, petrochemical and metal machining industry. Titles and firms available upon request.

Other Technical Reports

Moure-Eraso, R., "The Scientific Rationale for a Lower Radon Daughter Exposure." In: Proceedings, International Conference, Radiation Hazards in Mining: Control Measurement, and Medical Aspects, Colorado School of Mines, October, 1981, Society of Mining Engineers, New York, 1981.

Chappell, W. R., Meglan, R. R., Moure-Eraso, R., "Human Health Effects on Molybdenum in Drinking Water." Health Effects Laboratory, Environmental Protection Agency, Publication EPA-600/1-19-006, 1979.

PRESENTATIONS, PUBLICATIONS (ABSTRACTS)

Moure-Eraso, R., "Ten Years of Integration of Pollution Prevention and Occupational Health."
American Public Health Association (APHA) Annual Meeting, Boston, November 14, 2000.

Moure-Eraso, R., "Occupational Health Status of Urban Hispanics in the United States."
Presentation to National Safety Council (NSC) Annual Meeting. Orlando FLA, October 18, 2000

Moure-Eraso, R, Keynote presentation on "Uranium Mining in the Navajo Nation" at the First International Conference on The History of Occupational Health, Rome, Italy October 4-7, 1998.

Moure-Eraso, R., Presentation on : " The General Duty Clause in the EPA Risk Management Programs Standard and OSHA " at North East Business Environmental Network (NBEN). Lowell, MA. March 19, 1998.

Moure-Eraso, R. "Pollution Prevention and Occupational Health: How Industrial Hygiene can be an Instrument of Primary Prevention in Occupational Health." Presentation for the NIOSH Conference: Control of Workplace Hazards for the 21st Century. March 10, 1998, Chicago.

Moure-Eraso, R. Seminar to Department of Work Environment: " The Vagaries of Risk Assessment: Subjectivism and Elitism in Risk Analysis." Lowell, MA. March 9, 1997.

Moure-Eraso, R. Presentation to Toxic Use Reduction Institute Annual TURPS Training:" New Developments on Pollution Prevention and Occupational Health".Worcester, MA. February 26, 1997

Moure-Eraso, R. Presentation on : "Historical Barriers to Workers' Rights Gains in Occupational Health" at Toxic Action 97' Conference. Boston, MA. April 5, 1997

Moure-Eraso, R. Presentation to NIOSH Board of Scientific Councillors on: Exposure Control v. Exposure Prevention. Washington DC. April 30, 1997.

Moure-Eraso R. Presentation on: Pollution Prevention and the New Right to Know. At American Public Health Association (APHA) Annual Meeting. New York, NY. November 20, 1996.

Moure-Eraso R., Seminar to Arbetslivsinstitutet: " New and Old Perspectives on Occupational Health in Latin America". Stockholm, Sweden. April 19, 1996.

Moure-Eraso R., Paper presented: Pollution Prevention Round table. Bi-annual Meeting. "Pollution Prevention and Occupational Health", Miami, FLA. December 15, 1995.

Moure-Eraso, R., Presentation to the Commonwealth of Massachusetts Toxics Use Reduction Advisory Board: "Pollution Prevention and Occupational Health". Boston, MA. Nov 26, 1995.

Moure-Eraso, R., Presentation: ONE Committee (OSHA, NIOSH, EPA). "Pollution Prevention and Occupational Health" Washington, D.C., July 1, 1995.

Moure-Eraso, R., Presentation: American Industrial Hygiene Association Conference (AIHAC). "Pollution Prevention and Occupational Health", Kansas City, May 26, 1995.

Moure-Eraso, R., Mirer, F., Silverstein, M., "Methodologies for Occupational Exposures Assessment: The Pitfalls of Subjectivity." Annual Meeting American Public Health Association, New Orleans, October, 1987.

Moure-Eraso, R., Mirer, F., Silverstein, M., "Uncertainty in Qualitative Exposure Assessment of Dose-Response Relationships: A Critique." American Industrial Hygiene Conference, Montreal, June, 1987.

Moure-Eraso, R., Kimball, A, "Methodology for a Hazard Control Systems in Developing Countries"

Mager, S. L., Moure-Eraso, R., "Incentive for Prevention? Criminal Prosecution for Work- place Fatalities: a Case Study." American Public Health Association, Annual Meeting, Washington, D.C., November, 1985.

Moure-Eraso, R., "Industrial Hygiene Measurements at a Lead-Acid Battery Plant: The Possibilities of Prevention." American Public Health Association, Annual Meeting, New York, November 1990.

PROFESSIONAL EXPERIENCE

Extramural International Professional Instruction (# Number of Contact-hours)

- 2002 Planned, organized and presented a one week course on: "Risk Analysis Methods: Uses and abuses. Presented to faculty and personnel of Mexico Ministry of Health. UNISON Dept. fIndustrial Engineering. Hermosillo, Sonora MEXICO (40)
- 1998 Planned, organized and presented a one week Course on; "Epidemiologic Surveillance in Occupational Health" presented to the Institut Valencia d'Estudis en Salut Publica, Valencia, Spain (40)
- 1996 Conduct as invited faculty a Short Course on : "Risk Assessment for Carcinogens". For NIVA (Nordic Scandinavian Institute for Advanced Training in Occupational Health). Stockholm-Helsinki (24)
- 1991 Consultant to the University of Barcelona, Curriculum Development and lectures on "Data for Occupational Epidemiology Studies." Presented to Occupational Physicians. Barcelona, Cataluna, Spain. (40)
- 1990 Consultant to the Spanish Ministerio de Sanidad y Consumo. Presentation of the professional course designed and presented in 1989. Introduction to Occupational Hygiene, presented to physicians in the Master of Public Health Program in the Escuela Nacional de Sanidad, Madrid , Spain. (37)
- 1989 Exposure Assessment for Industrial Hygiene. Occupational Health Program. 4th Annual Occupational Health and Safety Institute; University of Massachusetts Medical Center, Worcester, MA. (2)
- 1989 Consultant to the Spanish Ministerio de Sanidad y Consumo. Curriculum development and presentation of a 14 day course in Introduction to Industrial Hygiene, presented to physicians in the Master of Public Health Program in the Escuela Nacional de Sanidad, Madrid, Spain. (40)
- 1989 Consultant to the Pan American Health Organization (PAHO) to develop curriculum and teach a 7 day course in Recognition and Control of Occupational Hazards for Physicians and Engineers, Maracay, Venezuela. (20)
- 1986 Consultant to the Nicaraguan Ministry of Labor (MINTRAB). Development of Risk Maps in a Lead Battery Operation. APHA, Occupational Health Section. Nicaragua Technical Aid Project. (20)

- 1985 Consultant to the Inter-American Center of Social Security (CEISS). Planning and presentation of one week seminar of actualization on: Industrial Hygiene for Latin American physicians and engineers, Mexico City, Mexico. (20)
- 1984 Consultant to the National Union of Miners, United Kingdom. Provide written evidence on: Hazard of the Front End of the Nuclear Cycle to Sizewell B Public Inquiry, Peer reviewed proceedings, East Anglia, United Kingdom. (4)
- 1983 Consultant to the Colombian Ministry of Health. Planning and presentation of a three week training course in industrial hygiene for factory inspectors (engineers). Developing of teaching materials and establishment of continuing training program. Conducted three training sessions on health and safety for the Labor College in Bogota, Colombia. (40)
- 1982 Consultant to the Colombian Ministry of Health. Planning and presentation of four week training course on: Industrial Hygiene for factory inspectors (engineers). Establishment of continuing training program. Conducted two training sessions on health and safety for labor federation, Bogota, Colombia. (40)
- 1979 Technical Member, U.S. Department of Labor, Occupational Health Mission to Spain. Health and Safety presentations to Spanish Occupational Health professionals in Madrid, Barcelona, and Seville, OCAW representative, Madrid, Spain. (6)
- 1978 Participant and Presenter, International Federation of Chemical, Energy and General Workers' Union (ICEF). Stress in the Workplace Seminar, OCAW representative, Geneva, Switzerland. (2)
- 1977 Technical member, U.S. Department of Labor, Occupational Health Mission to Brazil. Seminars in Occupational Health to Brazilian professionals. Technical presentations in: Rio de Janeiro, Sao Paulo, Rio Grande do Sul, OCAW and U.S. labor representative, Brazil. (6)

PROFESSIONAL ORGANIZATIONS

American Academy of Industrial Hygiene - Member, 1985
 American Public Health Association - Full Member, 1985
 American Industrial Hygiene Association - Full Member, 1975
 American Institute of Chemical Engineers - Member, 1976
 Society for Occupational and Environmental Health - Full Member, 1978
 New York Academy of Sciences - Full Member, 1980
 Tau Beta Psi. Engineering Honorary. University of Pittsburgh. 1967

PROFESSIONAL ACTIVITIES

National Institute for Occupational Health (NIOSH) . Member of NORA team on Emerging Technologies. Co-Author of Chapters 3 and 4 of: "Emerging Technologies and the Safety and Health of Working People: Knowledge Gaps and Research Directions." NIOSH Publication: DHHS (NIOSH) Publication No.2006-136. August 2006. Cincinnati, Ohio. 2004- 2006

National Toxicological Program (NTP), Board of Scientific Councillors, Member. National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health, 1999 to 2001.

National Institute for Occupational Safety and Health (NIOSH), Board of Scientific Councillors, Member. National Institutes of Health. Washington D.C., 1996 to 2000.

National Advisory Commission on Occupational Safety and Health (NACOSH), Member. OSHA, U.S. Department of Labor, 1996-98.

Swedish National Institute of Working Life, Sabbatical, Visiting Scholar, Division of Toxicology ,(NIWL), Stockholm, Sweden. Jan-Aug 1996.

National Advisory Environmental Health Sciences Council. Member. National Institute of Environmental Health Sciences (NIEHS), National Institute of Health. Research Triangle Park, NC. 1991-95.

American Public Health Association Governing Council. Member. Washington, D.C., 1991-Current

American Public Health Association, Occupational Health Section, Chairperson. Washington D.C., 1989-1991.

Michigan Occupational Health Standard Commission, Commissioner. Michigan Department of Public Health, Lansing, MI., 1986-1988.

National Institute of Environmental Health Sciences, Member, Study Section to Evaluate Educational Grants for Hazardous Waste Workers, Research Triangle Park, NC., 1987,1990 and 1991.

National Academy of Sciences, National Research Council, Member, Committee on Toxicology, Jet Fuels Project, Washington, DC., 1984-1985.

National Cancer Institute, Cancer Control and Clinical Research Network, Member, Ad Hoc Study Section, NCI, Bethesda, MD., 1984.

Safety and Occupational Health Study Section, Full member, National Institute for Occupational Safety and Health, Center for Disease Control, Atlanta, GA., 1980-1982.

American Public Health Association, Occupational Health and Safety Section, Section Counselor, Washington, DC., 1984-1987.

Southeastern Michigan Coalition for Occupational Safety and Health (SEMCOSH), Member, Medical Technical Committee, Detroit, MI., 1985-Current.

American Industrial Hygiene Association, Social Concerns Committee, Chairperson, 1984-85.

National Academy of Sciences, National Research Council, Member, Committee on Synthetic Fuels Facilities Safety, Washington, DC., 1984-1985.

Office of Technology Assessment, Congress of the United States, Member, Advisory Panel on Occupational Genetic Testing, Washington, DC., 1982.

Mines Safety and Health Administration, Member, Planning Committee, International Conference on Radiation Hazards in Mining, Golden, CO., October, 1981.

State of Colorado Radiation Advisory Committee, Member, Appointment by Colorado Governor, Denver, CO., 1978- 1981.

U.S. Department of Labor, Occupational Safety and Health Administration, Member, Advisory Committee on Cutaneous Hazard, Washington, DC., 1978.

National Institute for Occupational Safety and Health, Review Consultant, Criteria document. Recommendations for a standard for Working in Confined Spaces, NIOSH, Washington, DC., 1979.

American Conference of Governmental Industrial Hygienist, Moderator, Federal Agency Responsibilities Session, Industrial Hygiene for Mining and Tunneling, ACGIH, Topical Symposium, Denver, CO., November, 1978.

PROFESSIONAL POSITION PAPERS FOR COLLECTIVE BARGAINING

1. United Automobile Workers, Proposal to implement previous research agreement and increasing of the funds available. Chrysler Corporation, Agreement in effect, 1987.
2. United Automobile Workers, Proposals to conduct joint training for Hazard Communication. Caterpillar Company, Agreement in effect, 1985.

3. United Automobile Workers, Proposals to conduct joint Research in Occupational health. Chrysler Corporation, Agreement in effect, 1985.
4. United Automobile Workers, Proposals to conduct joint training in Occupational health. Johnson Controls Battery Division. Agreements in effect, 1984-86.
5. United Automobile Workers, Proposal to conduct joint Health and Safety Training, Exide Corporation. Agreement in effect, 1984.
6. Oil Chemical and Atomic Workers, Proposal to conduct biannual wall-to-wall industrial hygiene surveys and working training with ARCO, Gulf, Amoco, Chevron, Union Oil. Agreement in effect, 1977-79.

SERVICE

University of Massachusetts Lowell

Organization of the Public Health Engineering and Policy Initiative PHEPI at UML Co-Director since May 1998. In cooperation with two other directors, developed a conceptual model of Primary Prevention in Public Health integrating University activities on Health Sciences; Environmental Sciences and Social Sciences with Community actions. Prepared: White Paper, Two Progress Reports, and organized two Advisory Committee Meetings. Made presentations on PHEPI to:UMASS Board of Trustees; Chancellor Advisory Committee; Provost Advisory Committee; College of Engineering; Regional Economic and Social Development Department; College of Health Sciences.

Accreditation Commission for Engineering and Technology (ABET). Organization,document preparation, and visit coordination of two ABET accreditation site visits for the Department of Work Environment Industrial Hygiene Masters Program. (1993, 1999). The first ABET site visit attained an unprecedented six years accreditation. The second visit took place in December 1999. Obtained \$2,500 from the American Academy of Industrial Hygiene to defray preparation costs for the 1993 ABET site visit.

Acting Chair Department of Work Environment University of Massachusetts Lowell. Elected by faculty of department. 1997-98.

Salary Income to University of Massachusetts Lowell. Inter Agency Agreement Contract (IPA) between the United States Department of Labor, Occupational Safety and Health Administration (OSHA) and Commonwealth of Massachusetts, UMASS Lowell. The contract provided the University with half of my 12 month salary for work in Washington DC on a position as Senior Policy Advisor on

Chemical Exposure Prevention (SPACEP) to the OSHA Director. Topic: "Introduction of Pollution Prevention Techniques to Occupational Health". Work was performed without teaching load or advising reduction. Total revenues to the University: \$ 36,390. June 1994 to June 1995. (See above External Funds Obtained)

Work Environment Program Development Committee. Development of Institutional Relationships with Labor Funding Sources. Obtained \$63,000 donation from Laborers International Union of North America for the creation and outfitting of the "Arthur E. Coia Industrial Hygiene Laboratory." (See above External Funds Obtained). 1990-Current.

Work Environment International Affiliation Committee (PanAmerican Health Association (PAHO). Structured the affiliation of University of Massachusetts Lowell with the World Health Organization/Pan American Health Organization (WHO/PAHO) as a Collaborating Center. 1991-Current. Participated as invited member in the Advisory Meeting to develop a Regional Plan of Workers Health for the Pan American Health Organization (PAHO). PAHO, Washington D.C., October 5, 1995. Participated in PAHO Advisory Committee meeting in Bogota, Colombia, March 1997.

Member of Search Committee for the Dean of the College of Engineering. University of Massachusetts Lowell, Lowell Fall 1994- Spring 1995.

Chair Personnel Committee, Department of Work Environment, University of Massachusetts, Lowell September 1994- September 1999.

Public Testimony

Moure-Eraso R., Testimony for U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics in Regional Hearings on Expansion of Data Requirements for the Toxics Report Inventory (TRI). Importance of Work Environment Data for TRI. Boston, MA. March 1995.

Moure-Eraso R., Testimony for U.S. House of Representatives, Sub-Committee of Labor-Management Relations, Implications for Workers of the Mexican Free-Trade Agreement. Washington D.C. April 30, 1991.

Moure-Eraso, R., Testimony for OSHA Informal Rule-making Hearing on The Feasibility of Lead Standard in the Lead Non-Ferrous Foundries, Lead Pigment and Chemical Manufacturing Industries, U.S. Department of Labor, Washington, D.C. November 5, 1987.

Stepp, M., Mirer, F., Silverstein, M., Moure-Eraso, R., Testimony for OSHA's Proposed Rule on Occupational Exposure to Formaldehyde, U.S. Department of Labor, Washington, D.C., May 14-18, 1986.

Peer Reviewer in Scientific Journals

Reviewer, Journal of Public Health Policy. 1988-current.

Reviewer, New Solutions. 1988-current.

Reviewer, American Journal of Industrial Medicine. 1994-current

Reviewer, Applied Journal of Occupational and Environmental Health. 1999-current.