

EXHIBIT 10

VINCENT AGNELLO

Department of Accounting
College of Business Administration
Niagara University, NY 14109

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EDUCATION

Juris Doctor, University at Buffalo Law School – State University of New York, Buffalo, NY, May 1978

Bachelor of Arts, Economics, State University of New York at Buffalo, Buffalo, NY, May 1975

WORK EXPERIENCE

Professor of Law June 2003 - Present
College of Business Administration, Niagara University
Niagara University, NY

- Designed MGT 560 course on Law and Ethics.
- Taught undergraduate courses in law and introduction to business.

Visiting Professor April 2008
East China University of Science and Technology
Shanghai, China

- Taught two Executive MBA courses – Legal Environment of Business

Visiting Professor Spring Semester 2001
Group ESSEC - ESSEC MBA
Cergy-Pontoise, France

- Designed and taught new course for ESSEC MBA on Employment Law.
- Taught course on U.S. Business Law
- Networked with members of the judiciary and law school faculty on research opportunities.

Associate Professor of Law June 1985 – June 2003
College of Business Administration, Niagara University
Niagara University, NY

Assistant Professor of Law August 1979 – June 1985
College of Business Administration, Niagara University
Niagara University, NY

Private Practice of Law June 1980 – January 1998

- General and Appellate Practice
- Niagara Falls & Cheektowaga Office

LEADERSHIP EXPERIENCE

Director, Niagara University Family Business Center
P.O. Box 1817
Niagara University, NY

Fall 2003 - Present

- Developed a Center devoted to resolving issues faced by family owned businesses.
- Secured over \$162,000 for the Center's operations.
- Organized International Conference on Family Business for October 25-27, 2007.
- Coordinated seminar series and consulting services to family owned businesses on issues involving succession planning, estate planning, taxation, and facilitating family communications.
- Hosted monthly breakfast seminars using recognized experts in the area of Family Business.

Interim Dean, College of Business Administration
Niagara University
Niagara University, NY

July 2001- July 2002

- Guided faculty through strategic plan for the College of Business.
- Hosted a successful business awards dinner honoring Danny Wegman, President of Wegmans Farm Markets, John Howard, CEO of Vineland Estates, and William Swan, President of First Niagara Bank.
- Raised profile of the College by collaborating with over thirty entities and businesses on a grant proposal.
- Successfully secured hiring of two professors in the Department of Commerce.

President, Residents for Responsible Government, Inc.
Youngstown, NY

March 2004 – March 2007

- Professional advisor to the Board (March 2008 – Present)
- Board of Directors (July 2003 – March 2007)
- Chair, Government Relations Committee (July 2003 – March 2007)
- Under my leadership this grass roots organization grew from a membership of twenty residents to an organization of over 1,000 members.
- Successfully forced the NYS Department of Environmental Conservation (DEC) to hold an additional public hearings in the Town of Porter.
- Developed an alliance of citizens, Towns, Villages, School Districts, and elected officials.
- Succeeded in getting the DEC to withdraw its proposed New York State Hazardous Waste State-wide Siting Plan.
- Promoted enactment of state legislation to stop siting of hazardous waste landfills in the Great Lakes Basin. Legislation passed the Senate and Assembly and vetoed by Gov. Pataki in 2006. Same legislation passed Senate and Assembly and vetoed by Gov. Spitzer.

Board of Directors, Artpark & Company, Inc.
Lewiston, NY

October 2004 - Present

- Secretary (October 2005 - Present)
- Treasurer (October 2006 - 2008)
- Chair, Finance Committee (October 2006 - 2008)
- Chair, Operation Committee (October 2006 - 2008)
- Chair, Strategic Planning Committee (Oct. 2004 – 2006 & 2008-2013)

Executive Secretary, Niagara Watershed Alliance Youngstown, NY	May 2008- Present
Webmaster	May 2008- May 2012
Board of Directors, Aid & Care, Inc.	September 2008- Present
Board of Directors, DeSales Resources and Ministry, Inc. Treasurer	September 2011-Present (September 2012-Present)

COURSES

ACC 682	CPA Research (Law only)	LAW 101	Business Law I
BUS 120	Introduction to Business	LAW 102	Business Law II
BUS 205	Legal Environment of Business	LAW 301	Business Law I
ECO 101	Macroeconomic Principles	LAW 302	Business Law II
ECO 102	Microeconomic Principles	MGT 560	Law and Ethics
ECO 100	Introduction to Economics	MBA 563	American Business Policy
FIN 151	Personal Finance	MGT 314	Issues in Management
HRM 301	Labor Law	WRT 100	Introduction to Writing
HRM 321	Employment Law		

PROFESSIONAL MEMBERSHIPS AND HONORS

Beta Alpha Psi - BETA ALPHA PSI is an honorary organization for Financial Information students and professionals. The primary objective of Beta Alpha Psi is to encourage and give recognition to scholastic and professional excellence in the business information field. This includes promoting the study and practice of accounting, finance and information systems; providing opportunities for self-development, service and association among members and practicing professionals, and encouraging a sense of ethical, social, and public responsibility.

Beta Gamma Sigma - Beta Gamma Sigma is the honor society serving business programs accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Membership in Beta Gamma Sigma is the highest recognition a business student anywhere in the world can receive in a business program accredited by AACSB International. The Mission of the International Honor Society Beta Gamma Sigma is to encourage and honor academic achievement in the study of business, to foster personal and professional excellence, to advance the values of the Society, and to serve its lifelong members.

Omicron Delta Epsilon - Omicron Delta Epsilon is one of the world's largest academic honor societies. The objectives of Omicron Delta Epsilon are recognition of scholastic attainment and the honoring of outstanding achievements in economics; the establishment of closer ties between students and faculty in economics within colleges and universities, and among colleges and universities; the publication of its official journal, The American Economist, and sponsoring of panels at professional meetings as well as the Irving Fisher and Frank W. Taussig competitions.

Academy of Legal Studies in Business - Founded in 1924, the Academy of Legal Studies in Business (International) is an association of teachers and scholars in the fields of business law, legal environment, and law-related courses outside of professional law schools.

Honors Received:

Niagara University College of Business Excellence in Teaching Award	May 2014
Vincentian Mission Award	September 2010
Niagara University College of Business Excellence in Teaching Award	May 1996
Community Service Award - from Governor State of New York	June 1992
Niagara Falls Neighborhood Housing Services Community Service Award	November 1989
State University of New York at Buffalo Alumni Association, Niagara Chapter – Outstanding Achievements in Practice of Law	October 1983

INTELLECTUAL AND PROFESSIONAL WORK ACTIVITIES

Journal Publications: (Refereed double blind peer review)

Agnello, Vincent, Audrey Agnello "The Sarbanes-Oxley Act Section 806: Ten Years Later." *Journal of Business*, Volume 3, Number 1 (2013)

Han, Lei, Vincent Agnello "Companies' Incentives to Early Adopt Statement of Financial Accounting Standards No. 142." *Journal of Business*, Volume 3, Number 1 (2013)

Agnello, Vincent, Audrey Agnello, Bohdan Pikas, Anastasia Pikas. "Today's Learner, Preferences in Teaching Techniques." *American Journal of Business Education* (Volume 4, Number 2) (2011)

Agnello, Vincent. William R. Angus, Jagat P. Anna L. McNab. "If the Customer Is Always Right, Maybe It Is Time to Listen: What Students Desire in Student and Faculty Codes of Conduct." *Journal of Advances in Education* Vol. 1, Number 2 (2010)

Cardon, Teresa, Vincent Agnello. "You Can't Always Get What You Want: Exposing Emerging Entrepreneurs to Law." *Journal of Advances in Education* Vol. 1, Number 2 (2010)

Agnello, Vincent, Audrey Agnello, Bohdan Pikas, Anastasia Pikas, William R. Angus, Jagat P. Jain, Kris Principe. "Teaching Techniques That Work: The Student's Perspective." *Journal of Advances in Education* Vol. 1, Number 1 (2010): 1-18. ISSN 2152-8810.

Agnello, Vincent. "Commentary: Vioxx and Public Policy – Taking the Right Steps." *Organizational Ethics* Vol. 3, Number 2 (2007): 96-101. ISSN 1541-1036

Libby, Barbara, Vincent Agnello, and Audrey Agnello. "Do Ethics Courses Help Business Students Make Ethical Decisions?" *The Business Review, Cambridge* Volume 4, Number 2 (2005): 206-210. ISSN 1553-5827

Libby, Barbara and Vincent Agnello. "Ethical Decision Making and the Law." *Journal of Business Ethics* Vol. 26 (2000):223-232. ISSN 0167-4544

Gawel, Michael, Vincent Agnello, Jagat Jain. "Officers and Directors Liability Insurance," *American Journal of CLU*, November (1984)

Articles Presented and Referred Proceedings:

Agnello, Vincent, Nicole F. Stolowy, Audrey Agnello, Barbara Libby. "Ethical decision Making and the Law, Some French and U.S. Examples" Presentation and Proceedings at 2013 Business research Consortium of Western New York, Canisius College, April 2013.

Agnello, Vincent, Audrey Agnello "The Sarbanes-Oxley Act Section 806: Ten Years Later" Presentation and Proceedings at 2012 Business Research Consortium of Western New York, SUNY Oswego, April 2012.

Han, Lei, Vincent Agnello "Companies' Incentives to Early Adopt Statement of Financial Accounting Standards No. 142" Presentation and Proceedings at 2012 Business Research Consortium of Western New York, SUNY Oswego, April 2012.

Agnello, Vincent, William R. Angus, Jagat P. Jain, Anna McNab. "What Should be Included in Student and Faculty Codes of Conduct? Insights from University Business Students." Presentation and Proceedings at Business Research Conference, SUNY Geneseo, April 2010.

Cardon, Teresa, Vincent Agnello. "You Can't Always Get What You Want: Exposing Emerging Entrepreneurs to Law." Proceedings and presentation at Business Research Conference, SUNY Geneseo, April 2010.

Agnello, Vincent, Nicole Stolowy. "The Influence of U.S. Ethics in French Employment Termination: an example of "Legal Transplant" Presentation and Proceedings of Sixteenth Annual International Conference Promoting Business Ethics, Niagara University. Niagara Falls, New York, October 2009.

Agnello, Vincent, Audrey Agnello, Bohdan Pikas, Anastasia Pikas, William R. Angus, Jagat P. Jain, Kris Principe. "Teaching Techniques That Work: The Student's Perspective." Presentation and Proceedings of the 2009 Business Research Consortium of Western New York. ISSN 2152-8810. Rochester, New York, April 2009.

Agnello, Vincent, Nicole Stolowy. "Ethics in Labor Law: U.S. and French Comparison" Presentation and Proceedings at 15th Annual International Conference Promoting Business Ethics, DePaul University. New York, New York, November 2008.

Agnello, Vincent, Shih-Jen Ho, and Audrey Agnello. "The Sarbanes-Oxley Act Section 806: Use of Whistle Blowing to Promote Transparency and Accountability." Presentation and Proceedings at Issues in Global Business & International Accounting in the 21st Century Conference Proceedings, Universidad de Guanajuato. Guanajuato, Mexico, July 2007.

Agnello, Audrey, Vincent Agnello, and Shih-Jen Ho. "Public Accounting Perceptions of Online Accounting Courses" Presentation and Proceedings at Issues in Global Business & International Accounting in the 21st Century Conference Proceedings, Universidad de Guanajuato. Guanajuato, Mexico, July 2007.

Agnello, Vincent, William Angus, and Barbara Libby. "Use of Genetics Testing in Employment and Insurance - Are We Creating a New Poor Class?" Presentation and Proceedings at Thirteenth Annual International Conference Promoting Business Ethics, Niagara University. Niagara Falls, New York, October 2006.

Libby, Barbara and Vincent Agnello, Audrey Agnello "Ethical Decision making and the Law, Some French and US Examples" Presentation and Proceedings at 6th Global Conference on Business & Economics, Harvard University. Cambridge, Massachusetts, October 2006. ISBN: 0-9742114-6

Agnello, Vincent and Shih-Jen Ho. "The Efficacy of the Whistle Blowing Provisions under Sarbanes-Oxley. Will the Framework Promote Whistle Blowing?" Presentation and Proceedings at Emerging Issues in International Accounting and Business Conference Proceedings, University of Padua. Padua, Italy, July 2006.

Libby, Barbara, Vincent Agnello, and Audrey Agnello. "Do Ethics Courses Help Business Students Make Ethical Decisions?" Presentation and Proceedings at Economics & International Business Research Conference Proceedings, Miami, Florida, December 2005.

Libby, Barbara, Vincent Agnello, and Audrey Agnello. "Can We Teach Business Ethics?" Twelfth Annual International Conference Promoting Business Ethics, Presentation and Proceedings at St. John's University. New York, New York, October 2005.

Libby, Barbara, Vincent Agnello, and Audrey Agnello. "Ethical Dilemmas and the Law, an International Comparison – Analysis of Decisions." Presentation and proceedings at National Business and Economics Society Sixth Annual Conference Proceedings. Key West, Florida, March 2005.

Libby, Barbara and Vincent Agnello. "Ethical Dilemmas and the Law, an International Comparison." Presentation and Proceedings at Eleventh Annual International Conference Promoting Business Ethics, DePaul University. Chicago, Illinois, October 2004.

Agnello, Vincent, Peggy Choong, and Daniel Tompkins. "Demutualization of Insurance Companies, Ethical Dilemmas." Presentation and Proceedings at Tenth Annual International Conference Promoting Business Ethics, St. John's University. Garden City, NY, October 2003.

Libby, Barbara, Vincent Agnello, Audrey Agnello, Mark DeRond, and Nicole Stolowy. "Ethical Dilemmas and the Law, an International Comparison" Presentation and Proceedings at 2003 Hawaii International Conference on Business, University of Hawaii. Honolulu, Hawaii, June 2003.

Agnello, Vincent. "Legal and Ethical Issues of Marketing Bottled Water" Presentation and Proceedings at Ninth Annual International Conference Promoting Business Ethics, Niagara University. Niagara Falls, New York, October 2002.

Agnello, Vincent and Peggy Choong. "HMO Advertising and Physician Capitation: Don't ask, Don't Tell." Presentation and proceedings at Eighth Annual International Conference Promoting Business Ethics, DePaul University. Chicago, Illinois, October 2001

Presentation at Conference

Agnello, Vincent. "Getting Past the Basics and Maximizing Class Time Efficiency: Getting Students to Think and Learn about Business Ethics on Their Own." Presentation at Seventeenth Annual Successful Teaching Conference." Cornell University, Corning, NY October 2009

Agnello, Vincent, Audrey Agnello, William Angus, Jagat Jain, Anastasia Pikas, Bohdan Pikas. "Student Survey of Effective Teaching Techniques in Business Courses" Presentation at International Conference on Teaching and Learning, Niagara University, New York, January 2009

Agnello, Vincent. "Getting Past the Basics and Maximizing Class Time Efficiency: Getting Students to Think and Learn about Business Ethics on Their Own." Presentation at Seventeenth Annual Successful Teaching Conference." Cornell University, Corning, NY October 2009

Agnello, Vincent. Keynote speaker at the 2006 Joint Regional PETE Instructor Conference "Building & Maintaining Successful Programs" Sharing Your Success!" Partnership for Environmental Technology Education Community College Consortium for Health and Safety Training PETE/CCCHST Conference hosted by Niagara County Community College and held in Lockport, NY, March 2006.

Agnello, Vincent. "Internationalizing Business Programs through Networking" Presentation at Emerging Issues in International Accounting, Niagara University. Niagara Falls, Canada, August 2002.

Grant Applications:

21st Century Fund Grant Application December 15, 2005. Application to obtain \$100,000 grant for the Family Business Center. (Funding denied)

SERVICE (from 2000 to present)

University level

Promotions and Tenure Committee. Fall 2004 – 2008, 1999-2000, 2010-2014

Sabbatical Leave Committee 2008 – 2014

Associate Marshal – Commencement & Freshmen Convocation 2012-Present

Hearing Committee – Niagara University 2008-2009

Salary Adjustment Committee 2007

Middle States Sub-Committee Chair – Internal Controls. 2006-07

College Level

Director, Niagara University Family Business Center. Spring 2003- Present

Member, College of Business COM Committee 2013-Present

Member, College of Business Quality Assurance Committee (QAC) 2009-2013

Assigned duties:

Ethics Assurance Learning Report

Community Involvement and Engagement Report

Member, College of Business Mission, Research, and Faculty Development Committee. 2008 - 2009

Chair, College of Business Mission, Research, and Faculty Development Committee. 2002-2008

Chair, College Strategic Planning Committee. 2003-2008

Interim Dean, College of Business Administration. 2001-2002

Department Level

Acting Chair, department of Accounting – Spring 2007 and Summer 2013

Member, Accounting Advisory Committee (2012 – Present)

Co-Chair, Strategic Planning sub-committee

Created Syllabus for new course: LAW 680 Healthcare Law and Ethics (Fall 2013)

Created Syllabus for new course: BUS 376 Small Business Employment & Management Issues (Spring 2012)

Community

(see Leadership above)

Presented variety of Ethics lectures (1.5 hours each) for CPE credits for IAA – Independent Association of Accountants (November 7, 2008, November 5, 2009, and November 3, 2012)

Entrepreneurial Training Program – Assisted in developing, managing a twelve week entrepreneurial program developed for the City of Niagara Falls and ReNU November 2009- February 2010

OTHER ACTIVITIES

Moderator – U.S. Army Corps of Engineers/LOOW-RAB Elected Leaders Forum March 21, 2009

Television Interview: German Television station ZDF/3 Interview regarding the toxic waste and radioactive problems facing the Niagara community for, kulturzeit ("time of the arts"), a multi award-winning daily 40-minute arts-show aired in Germany, Austria and Switzerland on August 4, 2008.

Theology Under the Taps "Stewardship and Sustainability" Panelist with Dr. Mark Gallo and Dr. William Edwards Niagara University November 10, 2010.

Updated 9/6/2014



Memo

To: Nils Olsen

From: Vincent Agnello

Date: November 10, 2014

Re: Toronto Developer

Fact: In Spring 2006 Toronto Developer took steps to build a five story 92-unit condominium on a site on the north side of Old Lake Road on Lake Ontario and known locally as the Old Club Lakewood Property in the Town of Porter and adjacent to Fort Niagara State Park.

Fact: The proposal was from Jedidiah, Inc. and led by developer Paul Oulahan.

Fact: At that time, I was the President of Residents for Responsible Government, Inc. fighting Chemical Waste Management's application for relicensing of RMU-1 and application for a new toxic landfill RMU-2.

Fact: While I attended a meeting in the Town of Porter Town Hall I was approached by the developer of the site and asked about RRG and resident concerns. We arranged to speak, by phone, a few days later.

Fact: During that conversation I spoke about the Town of Porter hosting the only commercial toxic waste landfill in the entire northeast of the United States and that CWM accepted wastes from 30 states, Canada, and Puerto Rico. I advised him that residents were concerned about the cancer rates reported by the State health Department. I told him that while we have tried everything to stop the new landfill, I was scared to death that the State would soon grant a permit for a new toxic landfill on CWM's property located .9 miles from Lewiston Central School buildings.

Fact: The developer thanked me for letting him know of the issues being faced in the Youngstown area. He also told me that he was going to walk away from developing the Lakewood property. He did not want to invest in any area that had such problems because the negative publicity of CWM being granted a permit for a new toxic landfill would negatively affect the values of his project and the values of the proposed condominiums.

Fact: To my knowledge, the developer did not proceed any further on this development project.

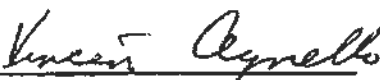

Vincent Agnello

EXHIBIT 11

KENNETH ACKS	
EDUCATION:	
THE NYU STERN GRADUATE SCHOOL OF BUSINESS ADMINISTRATION	M.B.A. Finance, October 1988
THE UNIVERSITY OF CHICAGO	B.A. Economics and History, June 1977
WORK HISTORY:	
1990-present The Cost-Benefit Group LLC (www.costbenefitgroup.com), formerly Damage Valuation Associates	
• Founder and chief executive of economic consulting and real estate analysis firm which produced studies of more than 900 projects worth over \$3.5 billion dollars in 140 counties and 28 states. Firm focuses upon estimating the economic impacts of environmental hazards upon real estate, and has provided a wide range of other consulting services. • Worked with the U.S. Environmental Protection Agency and ERG Inc. to help create cost-benefit and valuation databases and analysis systems. • Analyzed the effects of nuclear power plants, gasoline storage tanks, asbestos, groundwater contamination, oil leaks, construction projects, and utility rates upon property values, employment, income, corporate balance sheets, real estate markets, and municipalities. • Valued contaminated properties, office buildings, shopping centers, hotels, apartment buildings, vacant land, mobile home parks, automobile dealerships, warehouses, factories, nursing homes, and marinas from Toronto Canada, to Los Angeles California, and to Tampa Florida, including more than 50 in Manhattan. • Conducted acquisition reviews, market analyses, and feasibility studies. • Prepared 135 page report on the New York City economy and real estate market to outline loan portfolio risks faced by current and prospective stockholders of North Fork Bank. • Monitor, model, and forecast regional economic and financial developments. • Designed and estimated Econometric and Input/Output models. • Created the ACB Cost Benefit Analysis Software, which can significantly reduce the time and costs for determining impacts. • Furnished litigation support to more than 30 law firms regarding over 50 cases. • Testified as expert witness before the Supreme Court of the State of New York, a Superior Court in Morris County, NJ, and the NY City Council. • Analyzed Costs and Benefits of Green Buildings, Green Roofs, Brownfields and Real Estate Development Projects. • Health care valuations/feasibility studies/market analyses of hospitals, nursing homes and assisted living facilities in Anapolis, MD; Cambridge and Peabody MA, Cape May and Montville NJ; and Brooklyn, Chester, Forest Hills, Plainview, Port Jefferson, and Syracuse NY • Estimated impacts upon property values of contamination for ▪ residences in Brockport, Great Neck, New Hyde Park, and Lindenhurst, NY; Alloway, Jersey City, and Redbank NJ; Montgomery, AL, Town of Pines Indiana ▪ commercial properties in Bedford, Commack, Fishkill, Plainview, Ronkonkoma, Sag Harbor, and Valley Stream, NY, Jersey City and Ridgewood, NJ, and East Stroudsburg and Nesquehoning, PA • The above projects were commissioned by J.P. Morgan Chase, Citibank, HSBC, the Bank of Montreal, GMAC, Xerox, US Environmental Protection Agency, US Dept. of Housing and Urban Development, the Federal Deposit Insurance Corporation, Chinese American Bank, Amerasia Bank, National Amusements Inc., Grubb and Ellis, Landauer Realty, the Related Companies, the New York State Housing Finance Agency, The New York City Dept. of Housing Preservation & Development, Nassau and Suffolk Counties, the City of New Orleans, Jersey City, Federated Department Stores, Sheraton Hotels, Techlaw Inc., and over 40 law firms. • Created the Environmental Valuation & Cost-Benefit Website www.costbenefitanalysis.org, (formerly www.damagevaluation.com) http://www.damagevaluation.com which has drawn more than 63,000 visitors, been recognized as a respected source of information by numerous organizations with links and favorable mentions, achieved good search engine placement, and generated new business.	
1994-present Editor and Publisher, Environmental Damage Valuation and Cost Benefit News (www.envirovaluation.org)	

• Design, edit and market an acclaimed newsletter, with paid subscribers in ten nations, including influential environmental policy makers. In recognition of its merits, the United States EPA and other organizations have devoted space on websites to back issues.
• Created the Environmental Valuation & Cost-Benefit News Website and Newsfeed (October, 2005). According to AWSTATS, From July 1, 2005 through December 31, 2005 our sites welcomed an average of 15,440 unique visitors per month, who made a total of 197,219 visits and viewed 1,809,095 pages. 3,102 of our visitors felt that the site was worthy of a bookmark; 11,128 spent between 5 and 15 minutes on the site; 10,865 between 15 minutes and 30 minutes, 15,737 between 30 minutes and 1 hour, and 22,719 spent more than an hour on-site. The Hit Count was 2,708,308. Site has achieved top, top five or top fifteen Google Search status for such keywords as cost-benefit, environmental economics, cost-benefit analysis, and cost-benefit green buildings, brownfields, green roofs, ... Among those linking to the site have been the United States Environmental Protection Agency, Environment Canada, the Association of Environmental & Resource Economists, Resources for the Economists on the Internet, the National Association of Business Economists, www.env-econ.net, the ISO 14000 Information Center, the Centre for Ecological Sciences of the Indian Institute of Science,...
• Created unique Internet marketing campaign, including a "virtual intern" program. Ten interns located throughout the United States have written articles, and assisted with advertising and distribution to more than 8,500 decision makers in 65 countries through a variety of avenues.
1986-1988 Senior Analyst, Southmark Inc.
• Structured \$80 million in real estate syndications, published forecasts of the structure and performance of local and regional economies in 7 states; and analyzed legal documents.
1984-1986 Project Coordinator, NYC Department of Housing Preservation and Development
• Analyzed, negotiated and underwrote loans for the rehabilitation and development of real estate; expedited government approvals including environmental reviews; monitored legislation/determined impacts; supervised the creation and implementation of databases; and assisted attorneys in closing loans and reviewing documents. The loans played a significant role in revitalizing neighborhoods.
1977-1982 Research Assistant, International Research Department Federal Reserve Bank of NY
• Monitored and forecasted economic developments and produced special studies of capital flows, trade, exchange rates, interest rates, housing finance and money supply.
PUBLICATIONS/SPEAKING:
• "A Framework for Analyzing the Costs and Benefits of Green Roofs: Preliminary Results" Seminar presentations and article for the Columbia University Earth Institute, Columbia University School of International and Public Affairs, NASA Goddard Institute for Space Studies, and New York Environmental Infrastructure Study (2004-2006)
• "Tools for Resolving Community Opposition to Public Projects" <i>Real Estate Review</i> (Winter, 1995)
• "Shooting In the Dark -- How Computer Software Can Improve the Quality of Government Policies" <i>The Engineering Economist</i> (Spring, 1995)
• "Environmental Values" <i>Carnegie Council on Ethics and International Affairs</i> (May, 1998 speech)
• "Measuring and Evaluating the Environment & Its Effects on Health" (March 25, 1999 speech at The Ethyl R. Wolfe Institute for the Humanities in cooperation with the Environmental Studies Program of Brooklyn College of the City University of New York)
• Valuation of Environmental Damages to Real Estate; The Benefits and Costs of Crime Policies; International Real Estate Investment and Political Risk; Simultaneity Bias & Specification Error from the Omission of Socio-political factors in Economic Models; Cognitive Determinants of Human Capital Investments and Productivity; Complexity, Change, and Economic Analysis;
• An Econometric Model of Political, Social and Econometric Change in Britain from 1895 to 1980
COMPUTER SKILLS:
Proficiency in using Lotus, Argus, Excel, Project, HTML (Website Design), Windows, G, and several database, econometric, and word processing computer programs. Computer models/programs have been used to discount cash flows, to estimate internal rates of return, to forecast regional economic growth, to create a website, to track client contact, and to estimate the impacts of government policies upon employment and income.
PROFESSIONAL AFFILIATIONS/COMMUNITY ACTIVITIES:

Fellow, World Innovation Foundation, www.thewif.org.uk , an independent international think tank consisting of 2,000 individuals, including 60 Nobel Prize winners, providing advice regarding scientific, technological, engineering and applied economics matters to non-aggressive governments and corporations, and designing, building and operating an Open Research Establishment featuring Laboratories and Incubators throughout the world
American Economic Association; Association of Environmental and Resource Economists; New York Association of Business Economists; National Association of Forensic Economists
Coach/Manager Long Beach Little League, Recreational Basketball 1997-2002

Additional:
 Appraisal Courses 5
 ABD for PhD Economics NYU
 Conference speaking

EXHIBIT 12

CURRICULUM VITAE

Kirsten B. Moysich

OFFICE:

Roswell Park Cancer Institute
Department of Cancer Prevention and Control
Elm and Carlton Streets
Buffalo, NY 14263
(716) 845-8004
fax: (716) 845-841126
e-mail: kirsten.moysich@roswellpark.org

HOME:

158 Ruskin Rd.
Amherst, NY 14226
(716) 835-2192

EDUCATION

- 1988 - 1992 **B.A. (summa cum laude), Psychology**
State University College of New York at Buffalo
- 1992 - 1994 **M.S., Epidemiology**
State University of New York at Buffalo
Thesis: The relationship between estrogen replacement therapy use and risk of postmenopausal breast cancer (Advisor: Ja L. Freudenheim, Ph.D.)
- 1994 - 1996 **Ph.D., Epidemiology and Community Health**
State University of New York at Buffalo
Dissertation: Environmental organochlorine exposure and risk of breast cancer in postmenopausal women (Advisor: Jo L. Freudenheim, Ph.D.)

AWARDS AND HONORS

- 1988 - 1992 Rudolph International Scholarship
1990 International Student Award; State University College of New York at Buffalo
- 1990 - 1992 Psi Chi Honor Society
1997 Young Investigator Award; American Association for Cancer Research
Best Student Abstract Award; International Society for Environmental Epidemiology
Dean's Award for Outstanding Dissertation Research; State University of New York at Buffalo
- 2002 Young Alumnus Achievement Award; State University College of New York at Buffalo
- 2004 Academic Service Award; State University of New York at Buffalo, School of Public Health and Health Professions

RESEARCH AND ACADEMIC EXPERIENCE

1992 - 1996	Research Assistant, Social and Preventive Medicine, State University of New York at Buffalo, Buffalo NY.
1996 - 1998	Postdoctoral Fellow, Social and Preventive Medicine, State University of New York at Buffalo, Buffalo NY.
1998 - 2003	Assistant Member, Department of Cancer Prevention, Epidemiology, and Biostatistics, Roswell Park Cancer Institute, Buffalo, NY.
1998 - 2005	Research Assistant Professor, Department of Social and Preventive Medicine, State University of New York at Buffalo, Buffalo NY.
1999 - 2004	Assistant Professor, Department of Experimental Pathology, Roswell Park Cancer Institute, Buffalo NY.
1999 - 2004	Associate Scientific Director, International Consortium for Research on Health Effects of Radiation.
2003 - 2009	Associate Member, Department of Epidemiology, Roswell Park Cancer Institute, Buffalo NY.
2004 - 2009	Associate Professor, Department of Cancer Pathology and Prevention, Roswell Park Cancer Institute, Buffalo NY.
2005 - 2009	Research Associate Professor, Department of Social and Preventive Medicine, State University of New York at Buffalo, Buffalo NY.
2006 - 2009	Associate Professor of Oncology, Roswell Park Cancer Institute, Buffalo NY.
2007 - present	Professor (Honorary), Faculty of Health, University of Central Lancashire, Preston, United Kingdom
2009 - present	Full Member, Department of Cancer Prevention and Control, Roswell Park Cancer Institute
2009 - present	Professor of Oncology, Roswell Park Cancer Institute
2009 - present	Professor, Department of Cancer Pathology and Prevention, Roswell Park Cancer Institute, Buffalo NY.
2009 - present	Research Professor, Department of Social and Preventive Medicine, State University of New York at Buffalo, Buffalo NY.
2010 - present	Chair, Department of Cancer Pathology and Prevention, State University of New York at Buffalo, Buffalo NY.
2012 - present	Professor of Tumor Immunology, Roswell Park Cancer Institute, Buffalo NY.

GRANT SUPPORT

<u>Current</u>		
P50 CA159981-01 (Odunsi) NIH/NCI RPCI-UPCI Ovarian Cancer SPORE Role: Co-PI, Co-Leader Administrative Core, Co-Leader Developmental Research Program, Co-Leader Project 4	09/13-8/18	25%
The goal of the RPCI-UPCI Ovarian Cancer SPORE is to identify novel immunotherapeutic modalities to improve clinical outcomes for newly diagnosed and recurrent ovarian cancer patients.		
R01CA126841-04 (Moysich) NIH/NCI Regulatory T Cell Function in Ovarian Cancer Role: PI	07/09-06/14 Annual Direct:\$484,145 Total Direct: \$2,635,732	25%
The goal of this study is to determine the role of genetic variability in regulatory T cell function in the etiology and prognosis of ovarian cancer.		
Supplement to R01CA126841-04 (Moysich) NIH/NCI Genetic polymorphisms in cortisol pathway and ovarian cancer Role: PI	04/11-08/14 (NCE)	5% (donated)
The purpose of this study is to investigate genetic polymorphisms in cortisol pathway and ovarian cancer.		
No Number Assigned (Moysich) Roswell Park Alliance Foundation Development of innate immune responses in the tumor microenvironment as a prognostic signature for progression-free survival in women with advanced epithelial ovarian cancer Role: PI	09/13-08/14	5% (donated)
The purpose of this study is to examine the prognostic significance of immunosuppressive biomarkers in women with advanced ovarian cancer.		
No Number Assigned (Eng) Roswell Park Alliance Foundation Pilot study of personalized treatment markers in recurrent ovarian cancer Role: Co-Investigator	09/13-08/14	5% (donated)
The purpose of this study is to generate preliminary data on the associations between clinical and genetic characteristics and treatment outcomes among women with ovarian cancer.		

C019286 (Marshall) NYS DOH Improving Cancer Surveillance and Reporting Role: Co-Investigator	09/88–09/13 Annual Direct: \$80,000 Total Direct: \$800,000	15%
The objective of this effort is to identify common risk factors for solid and hematological malignancies.		
R25CA113951-06 (Freudenheim/Moysich) NCI/NIH Interdisciplinary Training in Cancer Epidemiology at UB Role: Multiple PI	07/12-06/17	5%
The goal of this training grant is to provide interdisciplinary training in cancer epidemiology to doctoral students at the University at Buffalo and the Graduate Division of the University of Buffalo at Roswell Park Cancer Institute		
<u>Pending</u>		
1R01CA188900-01 (Segol/Moysich) NIH/NCI Novel immunological biomarkers in ovarian cancer prognosis Role: Multiple PI	7/14 – 6/19	20%
The objective of this study is to investigate previously unexplored immune function markers in ovarian carcinogenesis.		
<u>Previous</u>		
BCTR0706811 (Moysich) Susan G. Komen Foundation Regulatory T Cells and Breast Cancer Risk Role: PI	04/07-11/12 Annual Direct: \$80,000 Total Direct: \$300,000	15%
The objective of this research effort is to critically evaluate environmental risk factors for breast cancer and identify gaps in our current understanding of breast cancer etiology.		
R03 CA121881-01A1 (Moysich) NIH/NCI Pharmacogenetics in Ovarian Cancer Role: PI	12/06-11/10 Annual Direct: \$50,000 Total Direct: \$100,000	10%
The goal of this study is to determine the utility of stored tumor samples for large-scale pharmacogenetic studies in ovarian cancer.		

5R01CA095023-02 (Ness) NIH/NCI Inflammation and Ovarian Cancer Role: Site PI	04/03-03/09 Annual Direct: 103,281 Total Direct: \$598,727	5%
The goal of this multi-site population based case-control study is to explore the role of inflammation in ovarian cancer etiology.		
N0008081 (Odunsi) DoD Ovarian Cancer Research Foundation Approaches For Enhancing Tumor Immunity In Ovarian Cancer Role: PI (Project 4)	03/08-02/11 Annual Direct: \$73,497 Total Direct: \$270,931	10%
The goal of this study is to determine the role of genetic variability in regulatory T cell function in the etiology and prognosis of ovarian cancer.		
No Number Assigned (Chanan-Khan) Roswell Park Cancer Institute Alliance Foundation Targeting the Immunological Microenvironment in Multiple Myeloma Role: PI Project 5	04/08-08/10 Annual Direct: \$69,984 Total Direct: \$69,984	5% (Donated)
The goal of this project is to determine the significance of regulatory T cells in the etiology of multiple myeloma.		
R03 HD059556-01 (Erwin) Arts, Research, T-cells & Socio-demographics (ARTS) in the Niagara Region Role: Co-Investigator	07/08-06/10 Annual Direct: \$50,000 Total Direct: \$100,000	3%
The objective of this study is to test the feasibility of the enrolling racially and sociodemographically diverse participants in an epidemiological study of immune function.		
No Number Assigned (Shrikant) Roswell Park Cancer Institute Alliance Foundation Development of an Ovarian Cancer SPORE Application Role: PI Project 2	01/10 – 12/10 Annual Direct: 150,000 Total Direct: \$150,000	5% (Donated)
The purpose of project 2 is to evaluate the utility of the Illumina methylation chip in epigenetic studies of ovarian cancer.		
No Number Assigned (Gelman) Roswell Park Cancer Institute Alliance Foundation Genetic signature for progression of Barrett's esophagus to esophageal adenocarcinoma Role: Co-Investigator	01/10 – 12/10 Annual Direct: 150,000 Total Direct: \$150,000	3% (Donated)
The objective of this research is to identify a genetic signature for progression of Barrett's esophagus to esophageal adenocarcinoma.		
No Number Assigned (Sucheston) Roswell Park Cancer Institute Alliance Foundation Effect Modifier Genes in Ovarian Cancer Role: Co-Investigator	10/2008- 04/2010 Annual Direct: 100,000 Total Direct: \$100,000	5% (Donated)

Goal is to identify genetic variants that modify the effects of BRCA1, BRCA2 on the odds of ovarian cancer using genome wide data on germline genetic variation in Gilda Radner Ovarian Family Cancer Registry Participants.		
C021337 (Moysich) NYSDOH Gene-Environment Interactions in Breast Cancer Role: PI/Mentor (Trainee: Ji-Yeab Choi)	09/06-08/09 Annual Direct: \$60,000 Total Direct: \$120,000	5% (Donated)
The purpose of this effort is to conduct secondary analyses of the influence of genetic polymorphisms on the associations between epidemiological risk factors and breast cancer risk.		
No Number Assigned (Odunsi) Roswell Park Cancer Institute Alliance Foundation Development of Novel Detection and Treatment Strategies for Ovarian Cancer Role: PI Project 3	01/06-12/07 Annual Direct: \$30,000 Total Direct: \$30,000	5% (Donated)
The goal of this research is to conduct a comprehensive analysis of functional genetic polymorphisms associated with activity of Treg cells in ovarian cancer.		
IRG-02-197-04 (Moysich/Still) American Cancer Society Association of TACC3 Polymorphisms and Ovarian Cancer Risk Role: PI	01/06-4/08 Annual Direct: \$25,000 Total Direct: \$25,000	5% (Donated)
The goal of this research is to evaluate the role of TACC3 polymorphisms in the etiology of ovarian cancer.		
No Number Assigned (Brody) Susan G. Komen Foundation Environmental Factors in Breast Cancer Role: Co-Investigator	10/04-09/07 Annual Direct: 47,084 Total Direct: \$154,723	10%
The objective of this research effort is to critically evaluate environmental risk factors for breast cancer and identify gaps in our current understanding of breast cancer etiology.		
No Number Assigned (Moysich) Roswell Park Cancer Institute Alliance Foundation Pharmacogenetics and Ovarian Cancer Prognosis Role: PI	04/05-03-07 Annual Direct:\$30,000 Total Direct: \$30,000	5%
The purpose of this pilot study is to investigate the prognostic significance of genetic polymorphisms relevant in the metabolism of chemotherapy among ovarian cancer patients.		
5R03CA108353-02 (Moysich) NIH/NCI Use of Stored Bone Marrow Samples for Pharmacogenetic Studies of Acute Myeloid Leukemia Role: PI	04/04-03/07 Annual Direct: \$50,000 Total Direct: \$100,000	10%
The objective of this research is to determine the appropriateness of stored bone marrow samples from large biological specimen banks for pharmacogenetic studies of hematological cancers.		

No Number Assigned (Lavender) ATSDR University-Community Consortium for Anniston Environmental Health Research Role: Co-Investigator	09/03-08/06 Annual Direct: \$5,645 Total Direct: \$18,645	5%
The purpose of this research consortium is to develop and carry out research studies aimed to assess health effects among individuals exposed to very high levels of polychlorinated biphenyls.		
NIH/NICHD contract (Moysich) Intrauterine Irradiation Exposure and Adult Fecundity and Fertility Role: PI	09/01-12/05 Annual Direct: \$50,000 Total Direct: \$80,000	5%
The objective of this study is to examine early life radiation exposure in relation to subsequent reproductive health indicators.		
No Number Assigned (Michalek, Moysich) Office of Naval Research Health Effects of Radiation Resulting from the Chernobyl Accident Role: Co-PI	04/99-03/03 Annual Direct: 240,000 Total Direct: \$960,000	30%
The purpose of this study was to investigate the association between radiation exposure and risk of acute childhood leukemia in areas of Ukraine most affected by the Chernobyl accident.		
No Number Assigned (Moysich) Office of Naval Research Post-traumatic stress indicators among individuals exposed to Chernobyl-related radiation Role: PI	04/01-03/04 Annual Direct: \$120,000 Total Direct: \$360,000	20%
The goal of this research effort is to assess the feasibility of conducting a large-scale epidemiological study on psychological health in three republics of the former Soviet Union.		
No Number Assigned (Michalek) Office of Naval Research Establishment of a Comprehensive Cancer Registry in Ukraine and Belarus Role: Co-Investigator	04/01-03/04 Annual Direct: 120,000 Total Direct: \$360,000	5%
The objective of this effort is to support the infrastructure in Ukraine and Belarus to establish a cancer registry in areas seriously affected by Chernobyl related radiation exposure.		

NATIONAL PROFESSIONAL SERVICE

- 2001 – Member of Breast Cancer Coalition of Rochester Advisory Committee
- 2001 – Member of the New Jersey Comprehensive Cancer Control Plan Advisory Board
- 2003 – 2007 Member of AACR Molecular Epidemiology Group Outreach and Membership Committee

- 2003 – Member of the External Advisory Group for the Centers of Excellence in Children's Environmental Health and Disease Prevention Research, Mount Sinai School of Medicine, New York, NY
- 2004 – Member of the External Advisory Group for the University of Iowa Superfund Basic Research Program, Iowa City, Iowa
- 2006 - Member, California Breast Cancer Research Program Special Research Initiatives Strategy Committee
- 2007 - Member, Scientific Advisory Board for the Sister Study, National Institute of Environmental Health Sciences
- 2009 - Member, Scientific Advisory Board, Exposure and Human Health Committee, U.S. Environmental Protection Agency
- 2008 - Member, Ovarian Cancer Association Consortium
- 2010 - 2013 Member, Data Access Committee, Ovarian Cancer Association Consortium
- 2013 – Chair, Data Access Committee, Ovarian Cancer Association Consortium

PROFESSIONAL MEMBERSHIPS

American Association for Cancer Research
American College of Epidemiology
International Society for Environmental Epidemiology
Molecular Epidemiology Group
Women in Cancer Research

SCIENTIFIC PEER REVIEW

Journals – Ad hoc reviewer

American Journal of Epidemiology
American Journal of Industrial Medicine
Annals of Epidemiology
Archives of Environmental Contamination and Toxicology
Archives of Medical Research
BMC Cancer
Breast Cancer Research
Breast Cancer Research and Treatment
Cancer
Cancer Causes and Control
Cancer Epidemiology, Biomarkers & Prevention
Cancer Genetics and Cytogenetics
Cancer Research
Carcinogenesis
Chemical Biological Interactions
Clinical Cancer Research
Epidemiology
Environmental Health Perspectives
Environmental Research
Immunological Investigations
International Journal of Cancer
International Journal of Occupational and Environmental Health
Journal of the American Medical Association

Journal of the National Cancer Institute
 Journal of Nutrition
 Journal of Oncology
 Lancet
 Oncology
 Pharmacogenetics
 Pharmacogenetics and Genomics
 Tobacco Control

Editorial Board
 Cancer Genetics and Cytogenetics

Grant Review

2002	<u>Breast Cancer Coalition of Rochester Grant Review Panel</u> <u>Research Secretariat at the Workers' Compensation Board (WCB) of British Columbia Grant Review Committee</u> <u>CDMRP Breast Cancer Research Program, Epidemiology Review Panel</u>
2003	<u>Canadian Breast Cancer Research Initiative Review Panel</u> <u>CDMRP Ovarian Cancer Research Program, Epidemiology Review Panel</u> <u>National Cancer Institute U.S. Radiologic Technologists Cohort Review Panel</u> <u>National Cancer Institute, Specialized Program of Research Excellence (SPORE) in Ovarian Cancer Review Panel</u> <u>National Cancer Institute, Specialized Program of Research Excellence (SPORE) in Leukemia and Lymphoma Review Panel</u>
2004	<u>CDMRP Ovarian Cancer Research Program, Epidemiology Review Panel</u> <u>National Cancer Institute, Specialized Program of Research Excellence (SPORE) in Head and Neck Cancer Review Panel</u> <u>California Breast Cancer Research Program Etiology and Prevention Review Panel</u> <u>National Cancer Institute Early Detection Research Network (EDRN): Clinical Epidemiology and Validation Centers Review Panel</u> <u>Science and Technology Assistance Agency, Slovakia: External Grant Reviewer</u>
2005	<u>California Breast Cancer Research Program Etiology and Prevention Review Panel</u> <u>National Cancer Institute, Small Grants for Behavioral Research in Cancer Control Review Panel (July)</u> <u>National Cancer Institute, Small Grants for Behavioral Research in Cancer Control Review Panel (November)</u>
2006	<u>California Breast Cancer Research Program Etiology and Prevention Review Panel</u> <u>National Cancer Institute Radiation Epidemiology Branch Site Visit Review Panel</u>
2007	<u>California Breast Cancer Research Program Etiology and Prevention Review Panel</u> <u>Susan G. Komen for the Cure Focused Areas of Study Program Review Panel</u> <u>CDMRP Ovarian Cancer Research Program, Concept Awards Review Panel</u> <u>National Cancer Institute Subcommittee H, Cancer Treatment Cooperative Groups</u>
2008	<u>CDMRP Ovarian Cancer Research Program, Epidemiology Review Panel</u>

- 2009 Member, Susan G. Komen for the Cure Research Programs, Epidemiology & Risk Assessment Study Section
National Institute of General Medical Sciences Research and Research Infrastructure Grand Opportunities (RC2) Review Panel
- 2010 Member, National Cancer Institute Subcommittee J – Population and patient-Orientated Training Review Group
- 2011 Choir, California Breast Cancer Research Program Etiology and Prevention Review Panel
 Member, National Cancer Institute Subcommittee J – Population and patient-Orientated Training Review Group
- 2012 National Cancer Institute, Specialized Program of Research Excellence (SPORE) Review Panel
 Choir, California Breast Cancer Research Program Etiology and Prevention Review Panel
 Member, National Cancer Institute Subcommittee J – Population and patient-Orientated Training Review Group
 Reviewer, Marsden Fund of New Zealand
- 2013 Member, National Cancer Institute Subcommittee J – Population and patient-Orientated Training Review Group

INVITED SEMINARS AND SYMPOSIA

- 1997 Department of Internal Medicine, Sister's of Charity Hospital, Buffalo, NY
 Toxicology Research Center, University at Buffalo, Buffalo, NY.
 Chlorine Chemistry Council, Arlington, VA.
- 1998 Graduate Center for Toxicology, University of Kentucky, Lexington, KY.
 Department of Social and Preventive Medicine, University at Buffalo, Buffalo, NY.
- 1999 Department of Cancer Prevention, Fred Hutchinson Cancer Institute, Seattle WA.
- 2000 Department of Medicine, Roswell Park Cancer Institute, Buffalo New York.
 PCB Workshop, University of Kentucky, Lexington, KY.
 International Society of Environmental Epidemiology, Buffalo, NY.
 Department of Surgical Oncology, Roswell Park Cancer Institute, Buffalo, NY.
- 2001 Social and Preventive Medicine, University at Buffalo, Buffalo, NY.
 Department of Psychology, Buffalo State College, Buffalo, NY.
 Department of Cancer Prevention, Mount Sinai School of Medicine, New York, NY.
 Department of Environmental Toxicology and Health, Cornell University, Ithaca, NY.
 e.hormone Conference, Tulane University, New Orleans, LA.
- 2002 Department of Pharmacology and Therapeutics, Roswell Park Cancer Institute, Buffalo, NY.
 Era of Hope Conference of the Breast Cancer Research Program (BCRP), Orlando, FL.
 Marin Breast Cancer Watch, San Francisco, CA.
- 2003 Medical Scientist Training Program, University at Buffalo, Buffalo, NY.
- 2004 Department of Surgical Oncology, Roswell Park Cancer Institute, Buffalo, NY.
 AACR Frontiers in Cancer Prevention Conference, Seattle, WA.
 NYS Regional Cytogenetics Meeting, Buffalo, NY.

2005	National Breast Cancer Coalition Advocacy Training Conference, Washington, DC. National Breast Cancer Coalition – Project Lead, Minneapolis, MN.
2006	National Breast Cancer Coalition Advocacy Training Conference, Washington, DC. National Breast Cancer Coalition – Project Lead, Houston, TX Society of Nuclear Medicine Annual Meeting - San Diego, CA Desert Research Institute – Environmental Monitoring Meeting – Las Vegas, NV
2007	University of Central Lancashire, Preston, United Kingdom.
2008	University of Iowa, Iowa City, IA National Breast Cancer Coalition – Project Lead, Denver, CO.
2009	International Society for Environmental Epidemiology, Dublin, Ireland. National Breast Cancer Coalition, San Diego, CA Medizinische Hochschule Hannover (MHH), Hannover, Germany
2010	University of Rochester, Rochester, NY Cambridge University, Cambridge, United Kingdom Mayo Clinic, Rochester, MN Deutsches Krebsforschungszentrum (DKFZ), Heidelberg, Germany
2011	Karolinska Institute, Stockholm Sweden Ovarian Cancer Association Consortium, Stockholm Sweden National Breast Cancer Coalition – Project Lead, Los Angeles, CA University of Iowa, Iowa City, IA
2012	Department of Immunology, Roswell Park Cancer Institute, Buffalo, NY Division of Cancer Prevention and Population Sciences, Roswell Park Cancer Institute, Buffalo, NY Ovarian Cancer: Prevention, Detection and Treatment of the Disease and its Recurrence, Pittsburgh, PA
2013	Medizinische Hochschule Hannover (MHH), Hannover, Germany

TEACHING EXPERIENCE

Courses

1995 - 1996	<u>Biostatistics, Epidemiology, and Preventive Medicine</u> (SPM 600) Small Group Instructor
1998 –	<u>Cancer Epidemiology</u> (PTR 525)
1999	<u>Investigation of Cancer Clusters</u> (SPM 599)
2004	Environmental Epidemiology Core Segment in <u>Epidemiologic Applications to Environmental Health</u> (SPM 551)
2013 -	Cancer Prevention and Control (PTR 500)

Lectures

1996 – 1997	<u>Descriptive Epidemiology</u> , SPM 501 Principles of Epidemiology
1996 - 1997	<u>Breast Cancer Epidemiology</u> , RPN 525 Cancer Epidemiology.
1999 -	<u>Epidemiologic Methods in Cancer Research</u> , RPN Oncology for Scientists
1999 –	<u>Authorship</u> , RPN Ethics Seminar
1999	<u>Gene-Environment Interactions</u> , SPM 501 Principles of Epidemiology
1999 –	<u>Epidemiological Study Designs</u> , RPN Research Methods Seminar.
2000 – 2003	<u>Environmental Effects on Health</u> , PTR 535 Pathophysiology
2001	<u>Oncogenesis</u> , PMR 515 - Principles of Cancer Chemotherapy

2003-	<u>Basic Cancer Biology</u> , SPM 560 - Biological Basis of Public Health
2005 -	<u>Authorship</u> , RPN 602 - Analysis of Health Related Data
2005	<u>Health Effects of Radiation</u> , SPM 551 - Epidemiologic Applications to Environmental Health
2005 -	<u>Molecular Epidemiology</u> , PTR 500 - Cancer Control and Prevention
2005 -	<u>Cancer – Magnitude of the Problem</u> , RPN 500 – Oncology for Scientists
2005 -	<u>Cancer Epidemiology</u> - RPN 500 – Oncology for Scientists

MENTORING ACTIVITIES

Postdoctoral Fellows

2000 – 2002	Helen Swede, Ph.D.
2006 – 2007	Jun Yong, MD, Ph.D
2007 - 2009	Ji-Yeab Chai, Ph.D.
2008 - 2012	Mary Platek, Ph.D.

Clinical Fellows

2006	Jeannine Villella, DO
2009 - 2010	Stacey Akers, MD
2012 -	Nicole Hinchey, DDS

Committee Chair

Doctoral Students

1998 – 2000	<u>Helen Swede</u> (Ph.D. in Epidemiology and Community Health, University at Buffalo) -HER2/neu expression and epidemiological risk factors as prognostic factors in primary breast cancer.
1998 - 2002	<u>Jun Yang</u> (Ph.D. in Epidemiology and Community Health, University at Buffalo) – Gelsolin expression, epidemiological risk factors and lung cancer.
2001 - 2005	<u>Julie Baker</u> (Ph.D. in Epidemiology and Community Health, University at Buffalo) Adverse birth outcomes in the offspring of adults exposed to radiation in utero.
2000 - 2007	<u>Ravi Menezes</u> (Ph.D. in Epidemiology and Community Health, University at Buffalo) – DNA methylation patterns as marker of exposure to carcinogens.
2000 - 2007	<u>Joli Weiss</u> (Ph.D. in Epidemiology and Community Health, University at Buffalo) - Genetic variability in response to treatment among adult leukemia patients.
2004 - 2006	<u>Beth Heovy</u> (Ph.D. in Epidemiology and Community Health, University at Buffalo) - Adolescent Pregnancies: Racial Disparities in Reproductive Decision-Making.
2009 - 2012	<u>Shalaka Hampras</u> (Ph.D. in Cancer Pathology and Prevention, University at Buffalo)
2009 - 2011	<u>Raj Chennamaneni</u> (Ph.D. in Epidemiology and Community Health, University at Buffalo)

Master's Students

1998 - 2000	<u>Chi Hung Wong</u> (Masters in Natural Sciences, University at Buffalo) - A retrospective cohort study evaluating the role of allogeneic blood or marrow transplantation for Hodgkin's disease.
1998 – 2000	<u>Claudia Leiras</u> (Masters in Natural Sciences, University at Buffalo) - Active and passive smoking in relation to breast cancer risk.

- 1999 - 2002 Alicia Wiggins (Masters in Natural Sciences, University at Buffalo) – Methods of Contraception and risk of ovarian cancer.
- 2003 - 2004 Soro Lawrence (Masters in Epidemiology, University at Buffalo) Quality of sleep indicators among individuals affected by the Chernobyl nuclear power plant accident.
- 2006 - 2007 Jane Rotterman (Masters in Epidemiology, University at Buffalo) – Body mass index and risk of adult AML.
- 2007 - 2009 Melanie Ruszczyk (Masters in Epidemiology, University at Buffalo) – Genetic Variability in DNA Repair Capacity and Ovarian Cancer Prognosis.
- 2011 - Martha Critelli (Masters in Natural Sciences, University at Buffalo) – Regulatory T Cells in Multiple Myeloma.

Committee Member

Doctoral Students

- 1998 - 2003 Kimberly Perez (Ph.D. in Epidemiology and Community Health, University at Buffalo) Reproductive outcomes in men prenatally exposed to diethylstilbestrol.
- 2001 - 2004 Michael Bloom (Ph.D. in Epidemiology and Community Health, University at Buffalo) The association between serum levels of hexachlorobenzene and thyroxine in a sample of New York State sportsmen; the New York State Angler Cohort Study.
- 1999 - 2004 Chaoan Chen (Ph.D. in Epidemiology and Community Health, University at Buffalo) Reproductive Factors and Risk of Ovarian Cancer - Are Controls Really Controls?
- 2004 - 2006 Gregory Beehler (Ph.D. in Counseling Psychology, University at Buffalo)
- 2004 - 2007 Luke Peppone Tobacco Exposure over Five decades and Colorectal Cancer risk. (Ph.D. in Epidemiology and Community Health, University at Buffalo)
- 2006 - 2009 Chunqiao Tian (Ph.D. in Epidemiology and Community Health, University at Buffalo) – Pharmacogenetics in Ovarian Cancer.
- 2006 - 2009 Vijayvel Jayaprakash Ph.D. in Epidemiology and Community Health, University at Buffalo) Bimodality Screening for Lung and Oral Cancers.
- 2007 - 2010 Theodor Brodsky (Ph.D. in Epidemiology and Community Health, University at Buffalo) – Dietary Exposures and Breast Cancer
- 2008 - 2009 Nataliya Kuptsova (Ph.D. in Cancer Pathology and Prevention, University at Buffalo) - Genetic Variability in DNA Repair Capacity and AML.
- 2012 - Ngozi Nwizu (Ph.D. in Cancer Pathology and Prevention, University at Buffalo) – Periodontal Disease and Cancer Risk.

Master's Students

- 1997 - 1999 Jennifer Norton (Masters in Epidemiology, University at Buffalo) - Residential proximity to sources of polycyclic aromatic hydrocarbons (PAHs) and breast cancer risk.
- 1998 - 2000 James Thrasher (Masters in Epidemiology, University at Buffalo) - Does family history of colorectal cancer influence the return of fecal occult blood tests in a mass screening campaign?
- 1998 - 2000 Julie Boker (Masters in Epidemiology, University at Buffalo) - Fertility patterns prior to testicular cancer diagnosis.
- 2001 - 2002 Christina Kuo (Masters in Epidemiology, University at Buffalo) – The potential impact of physical activity counseling by western New York physicians.

- 2003 – 2004 Luke Peppone (Masters in Epidemiology, University at Buffalo) – Cigarette Smoking and Risk of Colorectal Cancer
- 2002 - 2006 Jill Schoefer (Masters in Natural Sciences, University at Buffalo) Tea consumption and colon cancer risk.
- 2006 – 2007 Michael Yeh (Masters in Epidemiology, University at Buffalo) – Diet and Endometrial Cancer Risk.
- 2007 – 2008 Kellie Demack Masters in Natural Sciences, University at Buffalo) – The role of hypoxia inducible factor and vascular endothelial growth factor receptors in acute myeloid leukemia.
- 2007 -2008 Patricia Marshall (Masters in Epidemiology, University at Buffalo) – Analysis of a Corporate Compliance Survey at Roswell Park Cancer Institute.
- 2013 - Jordan Rabey (Masters in Epidemiology, University at Buffalo) The association between alcohol consumption, supplement intake, physical activity and renal cell carcinoma.

MPH Student Fieldwork Supervisor

- 2003 – 2005 Abhishek C Sawant
- 2003 - 2005 Kwabena Boakye
- 2004 – 2005 Hyungsun Kim
- 2004 - 2005 Sarah Klein

Summer Students

- 1999 Fang Zhou (Graduate Student; University of Massachusetts) – Project: Gelsolin expression in breast cancer.
- 2000 Adrienne Ronsani (Graduate Student; University of Massachusetts) – Project: Regular aspirin use and lung cancer risk.
Christina Costa (Undergraduate Student, University at Buffalo) – Project: Exogenous and endogenous hormones in relation to lung cancer among women.
- 2001 Kenneth Huber (Graduate Student; University of Massachusetts) – Project: Regular aspirin use and pancreatic cancer risk.
Laura Warlow (Undergraduate Student, Perdue University) – Project: Tubal ligation and breast cancer risk.
- 2004 Athul Seshadri (High School Senior - Williamsville East High School) – Project: Vitamin D and Prostate Cancer Risk.
Benjamin Morrison (High School Junior – Brooklyn Friends School) – Project: Inflammation and Ovarian Cancer.
- 2005 Robert Niles (High School Senior – Williamsville High School) – Project: Effect of Self-Reported Drug and Alcohol Use on School Performance among High School Students.
Benjamin Morrison (High School Senior – Brooklyn Friends School) – Project: Aspirin and Bladder Cancer Risk.
Elizabeth Livingstone (High School Senior – Stuyvesant High School) – Project: Acetaminophen and Bladder Cancer Risk.
- 2009 Nickolas Furlani (Case Western University) – Project: Epidemiological Predictors of Regulatory T Cells in Women.

Student Awards

- 1999 Julie Baker – *International Society for Environmental Epidemiology* Student Travel Award.
Julie Baker - Roswell Park Cancer Institute Graduate Student Research Forum Poster Award.
- 2000 Helen Swede – *American Association for Cancer Research* Young Investigator Award.
James Thrasher – *New York State Public Health Association* Graduate Student Research Award.
- 2001 Julie Baker - NNEMS Fellowship, *Environmental Protection Agency*.
Cloudia Leiras - *Congress of Epidemiology* Student Travel Award.
- 2002 Cloudio Leiras - *American Association for Cancer Research* Minority Scholar Award in Cancer Research
Joli Weiss – Invited participant of the *American Association for Cancer Research* Pathobiology of Cancer Workshop.
Joli Weiss – Invited participant of the *International Agency for Research on Cancer* Molecular Epidemiology Workshop.
- 2003 Julie Baker – Summer Research Fellowship – *Notional Institute for Child Health and Human Development*
- 2004 Julie Baker – Woodrow Wilson-Johnson & Johnson Dissertation Grant in Women's Health
Julie Baker - Francis V Hanavan Award for Students with Great Potential for Future Contributions in the Health Related Professions. State University of New York at Buffalo, School of Public Health and Health Professions.
Julie Baker - Association of Schools of Allied Health Professions Scholarship for Excellence Award
- 2005 Athul Seshadri - Invited participant to the *Young Epidemiology Scholars Conference* and Regional Semi-Finalist Award - *Robert Wood Johnson Foundation and the College Board*.
Julie Baker - Invited participant to the 1st Annual *NICHD-IHDCYH* Summer Institute in Reproductive and Perinatal Epidemiology, Woods Hole, MA.
Julie Baker - LGBT HEART Scholar: National award for students committed to affecting change in the LGBT community through education and work in the health professions.
Beth Heavy - Mark Diamond Research Fund grant for research expenses related to conduct of dissertations. State University of New York at Buffalo
- 2006 Ravi Menezes - Invited participant to the *American Association for Cancer Research* Edward A. Smuckler Memorial Pathobiology of Cancer Workshop
- 2007 Julie Baker - Dr. Louis Sklaraw/Maimonides Medical Society Award
Melanie Ruszczyk - Kosciuszko Foundation Scholarship
- 2008 Ravi Menezes – Saxon Graham Award for Excellence in Epidemiology and Community Health. State University of New York at Buffalo, School of Public Health and Health Professions
- 2009 Shalaka Hampras – Invited participant to the *UCLA Statistical Genetics Course*
Raj Chennamaneni – Invited participant to the *UCLA Statistical Genetics Course*

UNIVERSITY SERVICE

- 1999 – 2002 Member of Graduate Education Committee - Social and Preventive Medicine, University at Buffalo.
- 1999 – Member of the Graduate School Faculty, School of Biomedical Sciences, University at Buffalo

- 1999 – 2007 Member of Preliminary Exam Committee - Social and Preventive Medicine, University at Buffalo.
- 1999 – 2004 Member of the NCI Training Grant Steering Committee, Social and Preventive Medicine, University at Buffalo - Roswell Park Cancer Institute.
- 2002 – Faculty member of the Medical Scientist Training Program, School of Medicine and Biomedical Sciences, University at Buffalo
- 2003 – Member of Executive Education Committee; Department of Cancer Pathology and Prevention, University at Buffalo, Roswell Park Cancer Institute Graduate Division
- 2003 - Member of Graduate Education Committee - Social and Preventive Medicine, University at Buffalo.
- 2004 - Member of the Admissions Committee for the Department of Cancer Pathology and Prevention, University at Buffalo, Roswell Park Cancer Institute Graduate Division
- 2006 Member of Search Committee: Director of Division of Environmental Epidemiology; Social and Preventive Medicine, University at Buffalo.
- 2009 Member of Search Committee: Environmental Health Faculty; Social and Preventive Medicine, University at Buffalo.

ROSWELL PARK CANCER INSTITUTE SERVICE

- 1999 – 2002 Council Member of the Association of Scientists
- 2003 – Member, Institutional Review Board
- 2007 - Member, Gilda Radner Familial Ovarian Cancer Registry Executive Committee
- 2008 Member, Clinical Research Service Advisory Committee
- 2008 Member, Information Technology Advisory Committee
- 2008 - Member, Roswell Park Alliance Foundation Grant Review Panel (Epidemiology)
- 2009 - Member, Ethics Task Force
- 2009 - Member, Diversity Council
- 2010 - Co-Leader, Gilda Radner Familial Ovarian Cancer Registry
- 2010 - Co-Leader, Disease Site Research Group – Gynecological Oncology
- 2011 - Member, IT Advisory Committee
- 2011 - Member, Graduate Education Leadership Committee
- 2012 - Member (ad hoc), Scientific Review Committee
- 2012 - Member, Roswell Park Alliance Foundation Grant Review Panel (Immunology)
- 2013 - Member, Roswell Park Alliance Foundation Grant Review Panel (Health Behavior)
- 2013 - Chair, Data Bank and Biorepository Advisory Committee

COMMUNITY SERVICE

- 2000 Environmental Exposures and Health Effects among Women and Children, Invited Lecture, Jewish Women on the Threshold of the 21st Century, The Jewish Federation, Buffalo, NY
Pesticides and Breast Cancer, Invited Lecture, Bosom Buddies Lecture Series, East Aurora, NY
Risk Factors for Breast Cancer, Walk and Talk Tour, Roswell Park Cancer Institute Community Outreach Event
- 2001 Expert reviewer of the Cornell University Program on Breast Cancer and Environmental Risk Factors (BCERF) Environmental Chemicals Fact Sheets

- 2002 Contributing writer to The Ribbon – a lay publication on research and on the role of the environment in the risk of breast cancer.
Contributing writer to MAMM magazine – a consumer publication targeted to the needs of women diagnosed with breast and reproductive cancer.
Epidemiology of Blood-Related Cancers, Invited Lecture, Leukemia and Lymphoma Family Support Group, Buffalo, NY.
- 2003 Taking Steps to Reduce your Risk of Breast Cancer, Invited lecture at the Buffalo Seminary School, Buffalo, NY.
Cancer 101, Invited lecture, Alpha Kappa Alpha Buffalo Chapter, Buffalo, NY.
- 2004- Scientific adviser for *Residents for Responsible Government, Inc*; Lewiston, NY
Ovarian Cancer, Invited lecture at Temple Beth Zion, Buffalo, NY
Environmental Factors and Breast Cancer, Invited lecture at the Buffalo Seminary School, Buffalo, NY.
- 2005 Ovarian Cancer 101, Invited lecture at the Western New York Gilda's Club, Buffalo, NY.
Project Lead Faculty Member, National Breast Cancer Coalition.
Breast Cancer 101, Invited lecture at the Breast Cancer Network of WNY, Amherst, NY.
- 2005- Scientific Advisor for the *Lewiston-Porter School District Teachers Association*, Lewiston, NY
- 2006- Member of the Healthcare Advisory Council – Gilda's Club Western New York
- 2006 New Developments in Breast Cancer, Invited lecture for the WNY Susan K. Komen Foundation Chapter, Buffalo, NY.
Risk Factors for Breast and Ovarian Cancer, Invited lecture at the Gilda's Club Capital Region New York, Albany, NY
- 2006- Member of the Tobacco-Free-School Policy Committee – Kadimah School of Buffalo, Amherst, NY
- 2007 Breast Cancer 101, Invited lecture at the *Buffalo Executives Association*, Buffalo, NY
- 2008 Breast Cancer 101, Invited lecture at the *Buffalo Seminary School*, Buffalo, NY.
Epidemiology 101, Invited lecture at the *Lewiston-Porter School District*, Youngstown, NY.
- 2009 Project Lead Faculty Member, National Breast Cancer Coalition.
- 2010 Project Lead Faculty Member, National Breast Cancer Coalition.
- 2011 Project Lead Faculty Member, National Breast Cancer Coalition.

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BOOK CHAPTERS

1. **Moysich KB**. Environmental Exposure to Polychlorinated Biphenyls and Breast Cancer Risk. In: PCBs: Recent Advances in Environmental Toxicology and Health Effects. LW Robertson and LG Hansen (Eds). University Press of Kentucky, Lexington, KY, pp.119-126.
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LAY PUBLICATIONS

1. **Moysich KB**. Research Commentary: Thoughts on Recent Findings Regarding Organochlorines and Breast Cancer Risk. The Ribbon 2001; 6 (3): 5-6.
2. **Moysich KB**. Unbalanced Reports. Media Bias: Industrial By-Products and Breast Cancer Risk. MAMM Magazine 2002; 5:34.

EXHIBIT 13

School of Integrative Plant Science

Crop and Soil Sciences Section

[About Us](#) [Undergraduate](#) [Graduate](#) [People](#) [Extension & Outreach](#) [Research](#) [News & Events](#)

People

Faculty and Academic Staff

Adjunct and Emeritus Faculty

Associates and Fellows

Graduate Students

Support Staff

[Home](#) / [People](#) / Murray McBride

Murray McBride



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My long-term interests focus on understanding the behavior of contaminants at the soil-water interface in the environment, with particular emphasis on the phytotoxic and zootoxic trace and heavy metals. In order to understand adsorption and degradation processes mechanistically, I use numerous methods such as spectroscopy to investigate speciation and bonding of metal ions and organic molecules at surfaces and in soil solution. I have interest in the issue of soil health, as it is impacted by the contamination of soils by various waste materials, commercial fertilizers and manures.

Research Focus

The focus of my research at present is the bioavailability of toxic and trace metals in soils to crops, animals, and humans, considering all of the properties of soils that modify this bioavailability. Ultimately, this research has several goals, protecting food crops from toxic metal contaminants, minimizing trace element deficiencies, and developing methods for testing and remediating contaminated soils.

Outreach and Extension Focus

As part of my outreach activities, I am involved in working with extension staff at Cornell in developing guidelines and publications on the management of toxic metals that may be found at elevated concentrations in some farm and garden soils. Practical methods of remediating contaminated soils are being investigated, and recommendations are being conveyed to growers based on these

Departments

- Crop and Soil Sciences

Concentrations

- Organic Residuals
- Heavy Metals
- Lead (Pb)
- Urban Gardening
- Soil Tests
- Chemistry Of Trace And Toxic Metals In Soils
- Surface Chemistry Of Minerals
- Soil Health
- Soil Chemistry
- Environmental Chemistry
- Pollution
- Biosphere
- Hydrosphere
- Lithosphere

Graduate Fields

- Environmental Toxicology
- Soil and Crop Sciences

Education

- Doctorate
Michigan State University
1974
- Master of Science
Michigan State University
1972
- Bachelor of Science
University of Guelph
1971

findings. For example, methods of testing soil for toxic metals such as lead, zinc, cadmium, arsenic and copper, and interpreting these tests, is also a focus of my outreach effort. The goal is to provide farmers and gardeners with science-based information to minimize their exposure to toxic metals and other contaminants in soils as well as improve crop quality.

Teaching Focus

My teaching attempts to explain to students the chemical processes that go on in the complex environment of soils by using simple physical chemical principles.

I teach an undergraduate course in Environmental Chemistry, which covers important environmental topics in soils, the atmosphere, and the hydrosphere. This course uses case studies of pollution in the biosphere and considers the potential effects on soil, plant, animal and human health. Because new environmental issues are emerging every year as more is learned, lectures evolve in response to this dynamic situation.

I also teach an advanced soil chemistry course, intended primarily for graduate students with a strong background in physical chemistry. This course covers the basic chemistry of clay mineralogy, soil organic matter, soil acidity, cation exchange, chemisorption of metal cations and oxyanions, redox processes and soil salinity.

Selected Publications

Journal Publications

- Xiao, X., Sun, S. P., McBride, M. B., & Lemley, A. T. (2012). Degradation of ciprofloxacin by cryptomelane-type manganese (III/IV) oxides. *Environmental Science and Pollution Research*. 20:10-21.
- Udovic, M., & McBride, M. B. (2012). Influence of compost addition on lead and arsenic bioavailability in reclaimed orchard soil assessed using *Porcellio scaber* bioaccumulation test. *Journal of Hazardous Materials*. 205-206:144-149.
- McBride, M. B., Simon, T., Tam, G., & Wharton, S. (2012). Lead and arsenic uptake by leafy vegetables grown on contaminated soils: Effects of mineral and organic amendments. *Water, Air, and Soil Pollution*. 224:1378.
- Wharton, S. E., Shayler, H. A., Spliethoff, H. M., Marquez-Bravo, L. G., Rihaudo, L., & McBride, M. B. (2012). A comparison of screening tests for soil Pb. *Soil Science Journal*. 177:650-654.
- McBride, M. B. (2011). A comparison of reliability of soil cadmium determination by standard spectrometric methods. *Journal of Environmental Quality*. 40:1863-1869.
- McBride, M. B., X C Chen, G C Chen, L G Chen, Y X Chen, Lehmann, J., & Hay, A. G. (2011). Adsorption of copper and zinc by biochars produced from pyrolysis of hardwood and corn straw in aqueous solution. *Bioresource Technology*. 102:8877-8884.
- McBride, M. B., B J Kim, Y S Kim, B M Kim, & Hay, A. G. (2011). Effect of soil metal contamination on glyphosate mineralization:

- McBride, M. B., Pitiranggon, M., & Kim, B. (2009). A Comparison of Tests for Extractable Copper and Zinc in Metal-Spiked and Field-Contaminated Soil. Soil Science Journal. 174:439-444.
- McBride, M. B., Richards, B. K., Steenhuis, T. S., Russo, J. J., & Suave, S. (1997). Mobility and solubility of toxic metals and nutrients in soil fifteen years after sludge application. Soil Science. 162:487-500.

Other

- Harrison, E. Z., & McBride, M. B. (2009). Case for Caution Revisited: Health and Environmental Impacts of Application of Sewage Sludges to Agricultural Land. p. 1-28 Cornell Waste Management Institute, Ithaca, NY

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