

# **Lucius J. Riccio, Ph.D., P.E.**

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## **Education**

Ph.D. Industrial Engineering, Lehigh University, 1973  
M.S. Industrial Engineering, Lehigh University, 1970  
B.S. Industrial Engineering, Lehigh University, 1969

## **Registrations**

P.E. NY 063329-1, 1986

## **Career History**

Lecturer in Discipline, 2004-2011, 2013-Present School of International and Public Affairs  
Senior Lecturer in Discipline, 2011-2013, Columbia Business School  
Adjunct Professor, 1995-2004 Columbia Business School and College of Engineering and Applied Science  
Gedeon GRC Consulting, 2004 to Present, Partner and Executive Vice President  
Clean Vehicle Solutions, 2007-2013, Senior Partner

### **Previous:**

Urbitran Associates, 1996-2004, Partner and Senior Vice President  
Manuel Elkin Company, 1994-1995, Vice President  
New York City Department of Transportation, 1990-1993, Commissioner  
New York City Department of Transportation, 1986-1990, Deputy Commissioner  
New York City Department of Sanitation, 1981-1986, Assistant Commissioner  
New York City Board of Education, 1979-1981, Director-Mgmt Services  
Police Foundation (Washington D.C.), 1975-1979, Ass't Director Research  
Lehigh University, 1974-1975, Ass't Professor Industrial Engineering

## **Adjunct Teaching Positions**

Columbia University College of Engineering, 1997-2004  
Columbia University Business School, 1995-2004  
Columbia University School of International and Public Affairs, 2000-2004  
New York University Wagner Graduate School of Public Admin, 1983-85, 1994  
George Washington University, Dept. of Operations Research, 1976-1979

## **Board Memberships**

Metropolitan (NYC) Golf Association, Executive Committee, 1999-2006  
Community Medical Transport Inc. (NASDAQ-CMTI) Board of Directors, 1995-2000  
Metropolitan (NYC) Transportation Authority, Board of Directors, 1990-1993  
315 East 69<sup>th</sup> Street Owners Corp., President, Board of Directors, 1986-89, 1994  
OPERATIONS RESEARCH JOURNAL, Editorial Board, 1982-1990

## **Consulting Positions of Note**

Pratt Industries, Paper Recycling, 2018-2021  
Golf Digest, 2015-2019

Trillium USA Natural Gas Fueling System, Special Consultant, 1997-2012, 2015-2020  
Douglas Elliman, Managing Director Special Projects, 1994-1995  
Trump Organization, Special Consultant Golf Course Development, 1996  
Handicap Research Team, United States Golf Association, 1979-Present  
President's Commission on Productivity, Law Enforcement Task Force, 1973  
Supreme Court of the United States, Federal Judicial Center, 1974-1975  
U.S. Department of Justice, LEAA, 1975  
New York City Department of Investigation, 1975  
New York City Police Department, 1974-1975  
National Legal Aid and Defender Association, Washington D.C., 1978  
New York City Urban Fellow, 1971-1972

### **Awards**

Finalist in the Institute of Management Science's Edelman Prize, 1985  
City Club's Earthling Award for Outstanding Public Service, 1991  
March of Dimes Service to Humanity Award, 1992  
ORSA (Now INFORMS) President's Award for Lifetime Achievement  
Elected to Alpha Pi Mu and Sigma Xi Honoraries  
Teacher of the Year, SIPA, Columbia University, 2006, 2017  
Winner Inaugural PGA Tour Intelligence Prize

### **List of Publications**

#### **Criminal Justice**

Opportunities for Improving Productivity in Police Services, with others, Report of Advisory Group on Productivity in Law Enforcement, The President's Commission on Productivity, Washington, D.C., 1973

"Simulation of New York City's Felony Adjudicatory System", Proceedings: Winter Simulation Conference, San Francisco, California, January, 1973.

"Measuring and Improving the Productivity and Police Patrol", with Gary B. Hirsch, Journal of Police Science and Administration, June 1974.

Direct Deterrence—An Analysis of the Effectiveness of Police Patrol and other Crime Prevention Technologies", Journal of Criminal Justice, Vol. 2, No.3, Fall 1974

Proceedings of the Criminal Justice Symposium Focusing on Police Productivity, Editor, Department of Industrial Engineering, Lehigh University, July 19, 1974

"Police Productivity—The Management Analyst's Viewpoint", Lehigh University, July 19, 1974

“A Model for Court Resource Planning”, The Justice System Journal, Vol. 1, No. 2, March 1975

“Optimal Integrated Offensive Patrol Strategy”, Proceedings:1975 Carnahan Conference on Crime Countermeasures, University of Kentucky, Lexington, Kentucky, May 7-9, 1975

Evaluation of LEAA Grant No. 73-NI-99-0030-G, “Computer Simulation of Police Patrol and Dispatching Function”, with Dr. Michael Maltz, 1975

“Simulation of Arrest Processing in the New York City Police Department”, with William P. Mann, Proceedings, Summer Computer Simulation Conference, Washington, D.C., July 1976

“Productivity in the Public Sector: Its Measurement and Improvement”, Proceedings, AIIE Systems Engineering Conference, Boston, Mass., December 1976

Evaluation of “Queens Central Booking”, Division of Criminal Justice Services, New York State, Grant DCJS-1209, with William P. Mann, February, 1976

“Apprehension Productivity of Large United States Cities”, with John Heaphy, Journal of Criminal Justice , Winter 1977

“Data as a Guide to Measuring Police Productivity”, A chapter in The Future of Policing, Sage Publications, Beverly Hills, California, 1978

“Productivity of Detectives” A study of the Investigations Function of Police Juvenile Units”, with Barry Glick, Journal of Police Science and Administration, June 1979

“Just How Good are Those Reported Crime Figures?”, with John Eck, Newsletter of the Crime and Justice Special Interest Group, ORSA, Vol. 2, No. 1, April 1979

“Relationship Between Reported Crime Rates and Victimization Survey Results: An Empirical and Analytical Study”, with John Eck, Journal of Criminal Justice, Vol. 7, No. 4, Winter 1979

Arrest Productivity: Studying the Factors Influencing the Apprehension of /Criminal Offenders, with Dr. Lee Sechrest and Barry Click, Police Foundation, Washington, DC, January, 1983

“Using Police Data to Estimate the Number of Burglars Operating in a Suburban County”, with Robert Finkelstein, accepted for publication by Journal of Criminal Justice, 1984.

## **Sanitation**

“Management Science in New York’s Department of Sanitation”, Interfaces, March-April, 1984

“To the Litter of the Law: Cleaning New York City”, Journal of Resource Management and Technology, University of Pennsylvania, October, 1985

“How Management Science Has Helped Make New York Streets Cleaner”, with Joseph Miller and Ann Litke, Interfaces, January-February, 1986

“Making A Clean Sweep: Simulating the Effects of Illegally Parked Cars on New York City’s Mechanical Street-Cleaning Efforts”, with Ann Litke, Operations Research, Vol. 34, No. 5, September-October 1986, and included in Cases and Readings in Quantitative Analysis, Second Edition. Barry Render and Ralph Stair, Allyn and Bazon, 1989

“Sweeping Change at NYC Sanitation”, Management Review, American Management Association, May 1987

“Polishing the Big Apple: Models of How Manpower Utilization Affects Street Cleanliness in New York City”, with Joseph Miller and Gautam Bose, Waste Management and Research, No. 6, 1988

### **Housing**

Development of Methodology for Neighborhood Indicators, with Gary E. Whitehouse and James R. Brown Allentown Urban Observatory (HUD Grant), Allentown, PA., January, 1976

### **Highways**

Street Smart: A Plan to Improve and Equalize the Smoothness of Conditions in New York City Streets, with others, NYC Dept. of Transportation, March 1988

“Why New York’s Streets are so Mean”, Op-ed New York Newsday, August 2, 1988

“S.O.S- Save our Streets: An Open Letter to the Civil Engineering Community, NYC Chapter of ASCE, MET Section News, January, 1989

Smooth Road Ahead: Making New York City’s Arterial Highway System the Smoothest in the Country, with others, NYC Dept. of Transportation, 1988

Road with Cypress and Star: A Plan for Clean and Beautiful Highways in New York City, with others, NYC Dept. of Transportation, 1988

## **Golf**

Handicap Report, Volume I, Issues and Findings, with others, United States Golf Association, Far Hills, New Jersey, January, 1981

“How Jack (Nicklaus) Did It” (won the US Open), Golf Magazine, June, 1981

“Greatest Golf Shot Ever”, with Al Barkow, Golf Magazine, February, 1983

“The One Thing You Need to Work on Most”, Golf Digest, April, 1987

“What’s Wrong with Tom Watson”, Golf Magazine, June 1987

“What’s Your Fast Play Handicap?”, Golf Digest, July 1987

“Statistical Analysis of the Average Golfer”, Proceedings of the World Scientific Congress of Gold, A.J. Cochran and M.R. Farrally, St Andrews, Scotland, 1990

“The Ageing of a Great Play-Tom Watson’s Play in the US Open”, Science and Golf II, A.J. Cochran and M.R. Farrally, St. Andrews, Scotland, 1994

“What it Takes to Break 80”, Golf the Scientific Way, Alastair Cochran, Editor, Aston Publishers, Hertfordshire, U.K., 1995

“Going for the Green”, Breaking 90, Johnny Miller, Editor, Callaway Editions, New York, 2000

“Badge of Honor”, Senior Golfer Magazine, February, 1999

“Charting your Goals”, Golf Digest, February, 2001

## **OP Eds**

“Here’s How to Reduce Trips and Falls”, Daily News, July 25, 2002

“Make no Small Plans”, New York Times, June 23, 2002

“Throwing First Pitch for 10 New Subways”, Daily News, April 1, 2002

“No More Money for Terrorism”, Natural Gas Fuels Magazine, January 2002

“Cheap Oil Helps Fuel Terrorism”, Daily News, October 18, 2001

“Missing In Action: Yellow Cabs”, Daily News, September 18, 2000

“Radical Steps to “End Gridlock”, Daily News, August 26, 1999

“Get Creative-Solutions to Jam City”, Daily News, June 28, 1998

“Breaking Barriers in Transit Thinking”, Daily News, December 30, 1997

“Get Police Off the Traffic Beat”, New York Times, December, 3 1995

“Dust Off New York’s Buses”, New York Times, September 1, 1994

## **Select Working Papers/Presentations/Citations**

### **Criminal Justice**

“Allocation of Patrol Force—A work Unit Approach”, working paper prepared for Chief Donald Crawley, NYCPD, 1971

“Simulation of Brooklyn’s Pre-Arrest Processing”, prepared for New York City’s CJCC, 1971

“A Model for the Study of Crime Control Administration”, Lehigh University, 1971

“Modeling Court Systems”, a presentation to the Federal Judicial Center of the Supreme Court of the United States, Washington, D.C., December 6, 1974

“Police Management Science—The Effective Utilization of Police Resources”, prepared for the Police Foundation, 1975

“Crime in New York—A Systems Analysis”, presented at ORSA-TIMS Joint National Meeting in Chicago, April 30-May 2, 1975

“Developing a Science of Crime Control”, a presentation to LEAA, Washington, D.C., April 6, 1976

“Productivity Measurement: New Directions for Police Management Information Systems:, presented at the Pre-Conference Workshop on Law Enforcement and Criminal Justice Information Systems of the Urban and Regional Information Systems Association National Meeting, Atlanta, Georgia, August, 1976

“Improving Criminal Justice Policy: Can Management Science Play a Role?, a presentation to the Wharton Public Policy Club, University of Pennsylvania, September 29, 1976

“Applications of Industrial Engineering and Operations Research Methods to Law Enforcement and Criminal Justice Problems”, a presentation at the Operations Research Seminar, Rutgers University, November 17, 1977

“Productivity Measurement and the Budgetary Process”, presentations at the FBI’s National Police Academy, Quantico, Virginia, January 31, 1978 and May 8, 1978

“OR/MS Applications in Law and Justice” a presentation to the Washington Operations Research/Management Science Council, December 11, 1979

### **Sanitation**

“Allocating Street Cleaners in New York City: A Clean Sweep for Equity, Optimality, and Political Interests”, wit Sheldon Mann, presented at the March 1985 ASPA National Conference, Indianapolis, Indiana

### **Housing**

“Neighborhood Dynamics and Neighborhood Indicators”, with James R. Brown, presented at the ORSA-TIMS Joint National Meeting, Miami, Florida, November, 1975

### **Highways**

Session Chairperson:

“OR/MS is Alive and Well in New York City Government, “ORSA/TIMS Joint National Meeting, New York City, October, 1989

### **Golf**

“Optimal Strategies in Stroke Allocation”, report to the USGA Handicap Research Team, March 1980

“Why Arnie (Palmer) hasn’t been winning”, unpublished manuscript cited in Golf Digest, 1982

### **Other**

“Fault Detection of Electronic Microcircuits Using GERTS”, with Gary E. Whitehouse, presented at the 36<sup>th</sup> National ORSA Conference, October, 1969

“Productivity Measurement: A Revolution in our Government”, a presentation at the AIIE-Region II Annual Conference, Valley Forge, Pennsylvania, October 22, 1976

“Putting Government on a Profit and Loss Basis”, unpublished manuscript, with Roger Liwer, March, 1983