

## CURRICULUM VITAE

### MICHAEL ANTHONY CREW

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**Marital Status:** Married

**Citizenship:** United States of America

#### **Schools and University:**

Dudley Grammar School:	1953-1960, General Certificate
University of Birmingham:	1960-1963, B. Com. II (i)
University of Bradford:	1965-1972, Ph.D.

#### **Present Position:**

Professor II, (with tenure) Rutgers Business School – Newark and New Brunswick,  
Rutgers University, July 1, 1987-  
CRRR Scholar Rutgers Business School – January 1, 2005- June 30, 2008  
CRRR Professor of Regulatory Economics – July 1, 2008-

#### **Faculty Appointments:**

Visiting Professor of Economics, University of Texas at Arlington, January 14,  
1984-May 31, 1984

Professor I (with tenure), Graduate School of Management, Rutgers University,  
July 1, 1980-June 30, 1987

Associate Professor of Business Administration (with tenure), Rutgers University,  
January 1, 1977-June 30, 1980

Visiting Professor of Economics, Wesleyan University, spring 1976

Visiting Faculty Member in Economics, Harvard University, summer 1975

Senior Lecturer in Economics, University of Strathclyde, 1974-1977

Associate Head of Department of Social Studies, Paisley College of Technology,  
1972-1974

Lecturer in Economics, University of Southampton, 1971-1972

Lecturer in Economics, London Graduate School of Business Studies, 1970-1971

Lecturer in Economics, University of Kent at Canterbury, 1969-1970

Visiting Lecturer/Visiting Assistant Professor of Economics, Carnegie-Mellon University, 1968-1969

Assistant Lecturer/Lecturer in Management Studies, University of Bradford, 1965-1969

Assistant Lecturer in Business Economics, University of Strathclyde, 1964-1965

### **Administrative Appointments:**

Chairman of the Department of Finance and Economics, School of Management, Rutgers University, July 1, 1994-June 30, 1996 (25 faculty; Ph.D., MBA, and undergraduate programs)

Chairman of Finance and Economics Area, Graduate School of Management, Rutgers University, August 1, 1988-September 30, 1991(20 faculty, Ph.D. and MBA programs)

Director of Center for Research in Regulated Industries, Rutgers Business School, Rutgers University, July 1, 1984- (Providing administrative direction, fund-raising, program development, publications, editorial duties, and research: funds raised are in excess of \$500,000 per year)

Director of Business Research Center, Graduate School of Management, Rutgers University, June 1, 1977-June 30, 1984

Chairman of Economics, Paisley College of Technology, 1973-1974

### **Other Appointments:**

Chairman of Appointments and Promotions committee, Rutgers Business School, Rutgers University, 2001–2002, 2005-2006.

Member of Editorial Board, *Utilities Policy*, 1990–1994

Editor and founder of *Journal of Regulatory Economics*, 1988–

Editor of Kluwer Series of books *Topics in Regulatory Economics and Policy*, 1986–

Member of Editorial Board, *Journal of Economics and Business*, 1980–1986

Member of Editorial Advisory Board, *Journal of Industrial Affairs*, 1976–1986

Advisor in Business Studies of the Mathematical Sciences and Applications Board, and a member of the Mathematics and Statistics Board and Panel of the Council for the National Academic Awards from December 1973 to March 1977

One of the founders of *Applied Economics* and Executive Editor, Joint Editor and Editor 1968–1972

**Ph.D. Thesis:**

“Peak Load Pricing and its Application,” Unpublished, University of Bradford, 1971

**Books:**

*Theory of the Firm*, Longman, 1975; translated into Portuguese, *Teoria da Empresa*

*Paying By Degrees*, Institute of Economic Affairs, 1977 (with Alistair Young)

*Public Utility Economics*, Macmillan Press, St. Martin's Press, 1979 (with P.R. Kleindorfer)

*Problems in Public Utility Economics and Regulation*, (Ed.), Lexington Books, 1979

*Issues in Public Utility Pricing and Regulation*, (Ed.), Lexington Books, 1980

*Regulatory Reform and Public Utilities*, (Ed.), Lexington Books, 1982

*Analyzing the Impact of Regulatory Change*, (Ed.), Lexington Books, 1985

*The Economics of Public Utility Regulation*, Macmillan Press, M.I.T. Press, 1986 (with P.R. Kleindorfer)

*Regulating Utilities in an Era of Deregulation*, (Ed.), Macmillan Press, 1987

*Deregulation and Diversification of Utilities*, (Ed.), Kluwer Academic Publishers, 1989

*Competition and the Regulation of Utilities*, (Ed.), Kluwer Academic Publishers, 1991

*Competition and Innovation in Postal Services*, (Ed.), Kluwer Academic Publishers, 1991 (with P.R. Kleindorfer)

*Economic Innovations in Public Utility Regulation*, (Ed.), Kluwer Academic Publishers, 1992

*The Economics of Postal Service*, Kluwer Academic Publishers, 1992 (with P.R. Kleindorfer)

*Regulation and the Evolving Nature of Postal and Delivery Services*, (Ed.), Kluwer Academic Publishers, 1992 (with P.R. Kleindorfer)

*Incentive Regulation for Public Utilities*, (Ed.), Kluwer Academic Publishers, 1994

*Commercialization of Postal and Delivery Services: National and International Perspectives*, (Ed.), Kluwer Academic Publishers, 1994 (with P.R. Kleindorfer)

*Pricing and Regulatory Innovations Under Increasing Competition*, (Ed.), Kluwer Academic Publishers, 1996

*Managing Change in the Postal and Delivery Industries*, (Ed.), Kluwer Academic Publishers, 1997 (with P.R. Kleindorfer)

*Regulation Under Increasing Competition*, (Ed.), Kluwer Academic Publishers, 1999

*Emerging Competition in the Postal and Delivery Sectors*, (Ed.), Kluwer Academic Publishers, 1999 (with P.R. Kleindorfer)

*Current Directions in Postal Reform*, (Ed.), Kluwer Academic Publishers, 2000 (with P.R. Kleindorfer)

*Expanding Competition in Regulated Industries*, (Ed.), Kluwer Academic Publishers, 2000.

*Future Directions in Postal Reform*, (Ed.), Kluwer Academic Publishers, 2001 (with P.R. Kleindorfer).

*Postal and Delivery Services: Pricing, Productivity, Regulation and Strategy*, (Ed.), Kluwer Academic Publishers, 2002 (with P.R. Kleindorfer).

*Postal and Delivery Services: Delivering on Competition*, (Ed.), Kluwer Academic Publishers, 2002 (with P.R. Kleindorfer).

*Markets, Pricing, and Deregulation of Utilities*, (Ed.), Kluwer Academic Publishers, 2003 (with J.C. Schuh).

*Competitive Transformation of the Postal and Delivery Sector*, (Ed.), Kluwer Academic Publishers, 2003 (with P.R. Kleindorfer).

*Obtaining the Best from Regulation and Competition*, (Ed.), Kluwer Academic Publishers, 2004 (with M. Spiegel).

*Regulatory and Economics Change in the Postal and Delivery Sector*, (Ed.), Kluwer Academic Publishers, 2005 (with P.R. Kleindorfer).

*Progress toward Liberalization of the Postal and Delivery Sector*, (Ed.), Springer Science + Business Media, Inc., 2006 (with P.R. Kleindorfer).

*International Handbook On Economic Regulation* (Ed) Edward Elgar, 2006. (with D. Parker).

*Liberalization of the Postal and Delivery Sector*, (Ed.), Edward Elgar, 2006 (with P.R. Kleindorfer).

*Competition and Regulation in the Postal and Delivery Sector*, (Ed.), Edward Elgar, 2008 (with P.R. Kleindorfer).

*Postal Reform*, (Ed.), Edward Elgar, 2008 (with J.I. Campbell and P.R. Kleindorfer)

*Economics of Privatization and Regulation*, (Ed) 2008 (with David Parker)

*Progress in the Competitive Agenda in the Postal and Delivery Sector*, (Ed.), Edward Elgar, 2009 (with P.R. Kleindorfer).

*Heightening Competition in the Postal and Delivery Sector* (Ed), Edward Elgar, forthcoming 2010 with P.R. Kleindorfer)

### **Professional Papers:**

“Pennine Electricity Board,” Nelson, 1966; reprinted in Ralph Turvey, (Ed.), *Public Enterprise*, Penguin, 1969

“Capital Costs and the Peak Problem in Electricity Supply: Comment,” Manchester School, May 1966

“Pricing for Efficiency in Electricity Supply,” in *Essays in the Theory and Practice of Pricing*, Institute of Economic Affairs, 1967

“Peak Load Pricing and Optimal Capacity: Comment,” *American Economic Review*, March 1968

“The Optimality of Pure Competition in the Capacity Problem: Further Comment,” *Quarterly Journal of Economics*, May 1969

“Coinsurance and the Welfare Economics of Medical Care,” *American Economic Review*, December 1969

“Mr. Tipping on Road Pricing,” *Economic Journal*, December 1969

- “A Note on Peak Loads and Non-Uniform Costs”, (with P.R. Kleindorfer), *Economic Journal*, June 1970
- “Antitrust: Economics versus Management Science”, (with C.K. Rowley), *Moorgate and Wall Street*, Autumn 1970; reprinted in C.K. Rowley, (Ed.), *Industrial Economics*, Macmillan, 1972
- “Some Problems of Pricing Under Stochastic Supply Conditions: The Case of Seasonal Pricing for Water Supply,” (with G. Roberts), *Water Resources Research*, October 1970
- “On Allocative Efficiency, X-Efficiency and the Measurement of Welfare ‘Losses’,” (with C.K. Rowley), *Economica*, May 1971
- “X-Theory versus Behavioral Theory,” (with C.K. Rowley and M. Jones-Lee), *Southern Economic Journal*, November-December 1971
- “Marshall and Turvey on Peak Load or Joint Product Pricing,” (with P.R. Kleindorfer), *Journal of Political Economy*, November-December 1971, reprinted in Ray Rees (Ed.) *The Economics of Public Utilities*, Edward Elgar, (forthcoming 2006)
- “Recent Contributions to the Theory of Marginal Cost Pricing: The Problem of Peak Loads,” (with P.R. Kleindorfer), *Economic Journal*, December 1971
- “Antitrust Policy: The Application of Rules,” (with C.K. Rowley), *Moorgate and Wall Street*, Autumn 1971
- “A Note on X-Efficiency,” (with C.K. Rowley), *Economic Journal*, December 1972
- “On Off-Peak Pricing: An Alternative Technological Solution,” (with P.R. Kleindorfer), *Kyklos*, 1975
- “Optimal Plant Mix and Peak Load Pricing,” (with P.R. Kleindorfer), *Scottish Journal of Political Economy*, November 1975
- “Peak Load Pricing with a Diverse Technology,” (with P.R. Kleindorfer), *Bell Journal of Economics*, Spring 1976, reprinted in Ray Rees (Ed.) *The Economics of Public Utilities*, Edward Elgar, (forthcoming 2006)
- “Reliability and Public Utility Pricing,” (with P.R. Kleindorfer), *American Economic Review*, March 1978
- “Public Utility Regulation and Managerial Discretion,” (with P.R. Kleindorfer), *Southern Economic Journal*, January 1979

“An Introduction to Current Problems in Public Utility Pricing and Regulation,” (with P.R. Kleindorfer), in M.A. Crew, (Ed.), *Problems in Public Utility Economics and Regulation*, 1979

“Some Elementary Considerations of Reliability and Regulation,” (with P.R. Kleindorfer), in M.A. Crew, (Ed.), *Problems in Public Utility Economics and Regulation*, 1979; translated as “Einige Grundlegende Überlegungen für Versorgungssicherheit bei öffentlichen Unternehmen” in C.B. Blankart and M. Faber, (Eds.), *Regulierung öffentlicher Unternehmen*, Anton Hain, 1982

“Incentives for Efficiency in the Nationalized Industries: Beyond the 1978 White Paper,” (with P.R. Kleindorfer and E.F. Sudit), *Journal of Industrial Affairs*, Autumn 1979

“Has the 1970 Act been fair to mailers? Commentary,” in R. Sherman, (Ed.), *Perspectives on Postal Service Issues*, American Enterprise Institute, 1980

“Introduction to Issues in Public Utility Pricing and Regulation,” in M.A. Crew, (Ed.), *Issues in Public Utility Pricing and Regulation*, 1980

“Public Utility Regulation and Reliability with Applications to Public Utilities,” (with P.R. Kleindorfer), in M.A. Crew, (Ed.), *Issues in Public Utility Pricing and Regulation*, 1980

“Regulation and Diverse Technology in the Peak Load Problem,” (with P.R. Kleindorfer), *Southern Economic Journal*, October 1981

“Introduction to Regulatory Reform in Public Utilities,” in M.A. Crew, (Ed.), *Regulatory Reform and Public Utilities*, 1982

“A Cost Benefit Analysis of Local Measured Service,” (with R.E. Dansby), in M.A. Crew, (Ed.), *Regulatory Reform and Public Utilities*, 1982

“Electricity Pricing and Plant Mix under Supply and Demand Uncertainty,” (with P.R. Kleindorfer), in M.A. Crew, (Ed.), *Regulatory Reform and Public Utilities*, 1982

“Efficiency and Regulation: a Basis for Reform,” *Managerial and Decision Economics*, December 1982

“Comments on Peak Load Pricing of Public Utilities,” (with P.R. Kleindorfer), *Energy Economics*, April 1983

“A Note on Regulatory Influences on Managerial Incentives,” (with P.R. Kleindorfer), *Southern Economic Journal*, July 1983

“Royalty Contracts: an Efficient Form of Contracting?” *Southern Economic Journal*, January 1984

- “Local Measured Service Assumes a New Role,” (with C.D. Hammelman), *Telephony*, April 16, 1984
- “Opportunities for Regulation and Rate Design of Innovative Metering Technology in Water Utilities,” (with D.L. Schlenger), in M.A. Crew, (Ed.), *Analyzing the Impact of Regulatory Change*, 1985
- “Governance Costs and Rate of Return Regulation,” (with P.R. Kleindorfer), *Journal of Institutional and Theoretical Economics*, March 1985
- “Governance Structures for Natural Monopoly: A Comparative Institutional Assessment,” (with P.R. Kleindorfer), *Journal of Behavioral Economics*, Winter 1985
- “Deregulation as an Instrument of Industrial Policy,” (with C.K. Rowley), *Journal of Institutional and Theoretical Economics*, March 1986; to be reprinted in Spanish in *Boletin de Informacion Comercial Espanola*
- “Some Questions on the Costs and Benefits of Rate of Return Regulation: A Survey of U.S. Water Companies,” (with D.L. Schlenger and F. Gradilone III), *Water*, Summer 1986
- “Vertically Integrated Governance Structures and Optimal Institutional Arrangements for Cogeneration,” (with K.J. Crocker), *Journal of Institutional and Theoretical Economics*, June 1986
- “Dispelling the Disinterest in Deregulation,” (with C.K. Rowley), in C.K. Rowley, R.D. Tollison and G. Tullock, (Eds.), *The Political Economy of Rent Seeking*, Kluwer, 1987
- “Productivity Incentives and Rate-of-Return Regulation,” (with P.R. Kleindorfer), in M.A. Crew, (Ed.), *Regulating Utilities in an Era of Deregulation*, Macmillan Press, 1987, reprinted in L. Prosperetti (Ed.), *Productivita e Competitivita*, Nomisma, 1988
- “Equity, Opportunism and the Design of Contractual Relations: Comment,” *Journal of Institutional and Theoretical Economics*, February 1987
- “Governance Costs of Regulation for Water Supply,” (with P.R. Kleindorfer and D.L. Schlenger), in M.A. Crew, (Ed.), *Regulating Utilities in an Era of Deregulation*, Macmillan Press, 1987
- “Rent Seeking is Here to Stay,” in C.K. Rowley, (Ed.), *Democracy and Public Choice: Essays in Honor of Gordon Tullock*, Basil Blackwell, 1987
- “Landfill Tipping Fees Should Be Much Higher,” (with P.R. Kleindorfer), *Waste Age*, February 1988

- “Equity, Opportunism and the Design of Contractual Relations: Comments,” *Journal of Institutional and Theoretical Economics*, March 1988
- “Toward a Public Choice Theory of Monopoly Regulation,” (with C.K. Rowley), *Public Choice*, March 1988
- “Competition, Diversification, and Disintegration in Regulated Utilities,” in M.A. Crew, (Ed.), *Deregulation and Diversification of Utilities*, Kluwer Academic Publishers, 1989
- “Feasibility of Deregulation: A Public Choice Analysis,” (with C.K. Rowley), in M.A. Crew, (Ed.), *Deregulation and Diversification of Utilities*, Kluwer Academic Publishers, 1989
- “Competition, Diversification and Disintegration in Electric Utilities,” (with K.J. Crocker), in *Retrofit Opportunities for Energy Management and Cogeneration: Proceedings of the 11th World Energy Engineering Congress*, Association of Energy Engineers, 1989
- “On the Efficiency of Law: A Public Choice Perspective,” (with C. Twight), *Public Choice*, September 1990
- “Peak-Load Pricing in Postal Services,” (with P.R. Kleindorfer and M.A. Smith), *Economic Journal*, September 1990
- “Diversification and Regulated Monopoly,” (with K.J. Crocker), in M.A. Crew, (Ed.), *Competition and the Regulation of Utilities*, Kluwer Academic Publishers, 1991
- “Information Economics and New Forms of Regulation,” (with M.R. Frierman), in M.A. Crew, (Ed.), *Competition and the Regulation of Utilities*, Kluwer Academic Publishers, 1991
- “Alternatives to Rate of Return Regulation Including Franchise Bidding as Deregulation,” (with M. Zupan), in M.A. Crew, (Ed.), *Competition and the Regulation of Utilities*, Kluwer Academic Publishers, 1991
- “The Economics of Rowland Hill,” (with P.R. Kleindorfer) in M.A. Crew and P.R. Kleindorfer, (Eds.), *Competition and Innovation in Postal Services*, Kluwer Academic Publishers, 1991
- “Peak Loads and Postal Services,” (with P.R. Kleindorfer) in M.A. Crew and P.R. Kleindorfer, (Eds.), *Competition and Innovation in Postal Services*, Kluwer Academic Publishers, 1991
- “Quality and Price Differentiation in Postal Service,” in Walpurga Speckbacher (ed.), *Die Zukunft der Postdienste in Europa*, Springer-Verlag, Berlin, 1991, pp. 49-67.( P. R. Kleindorfer)

“Economic Depreciation and the Regulated Firm under Competition and Technological Change,” (with P.R. Kleindorfer), *Journal of Regulatory Economics*, March 1992

“Incentive Regulation, Capital Recovery and Technological Change in Public Utilities,” (with P.R. Kleindorfer), in M.A. Crew (Ed.), *Economic Innovations in Public Utility Regulation*, Kluwer Academic Publishers, 1992

“The Franchise Rebidding Problem and Public Utility Regulation,” (with R. Harstad), in M.A. Crew (Ed.), *Economic Innovations in Public Utility Regulation*, Kluwer Academic Publishers, 1992

“Contracts for Independent Power Producers: Economic Analysis and Regulatory Implications,” (with K.J. Crocker), in M.A. Crew (Ed.), *Economic Innovations in Public Utility Regulation*, Kluwer Academic Publishers, 1992

"Qualite et Differentiation des Prix dans les Services Postaux", *Les Cahiers de l'Institut de Recherche d'Etudes et de Prospective Postales*, Vol. 12, September 1992, pp. 132-145. (P. R. Kleindorfer)

“Dynamic Pricing under Static Regulation: The Case of UBP,” (with T.A. Abbott) in M.A. Crew (Ed.), *Incentive Regulation for Public Utilities*, (Ed.), Kluwer Academic Publishers, 1994

“Pricing Priority Service: Theory versus Utility Practice,” (with C. Fernando) in M.A. Crew (Ed.), *Incentive Regulation for Public Utilities*, Kluwer Academic Publishers, 1994

“Pricing in Postal Service under Competitive Entry,” (with P.R. Kleindorfer), in M.A. Crew and P.R. Kleindorfer (Ed.), *Commercialization of Postal and Delivery Services: National and International Perspectives*, Kluwer Academic Publishers, 1994

“Pricing, Entry, Service Quality and Innovation Under a “Commercialized” Postal Service,” (with P.R. Kleindorfer), in *Governing the Postal Service*, American Enterprise Institute, 1994

“Lessons from Public Utility Regulation for the Economic Regulation of Health Care Markets: An Overview,” (with T.A. Abbott) in T.A. Abbott (Ed.), *Health Care Policy and Regulation*, Kluwer Academic Publishers, 1994

“Postal Service in the Nineties,” (with J.S. Boronico and P.R. Kleindorfer), in P. Harker (Ed.), *The Service Productivity and Quality Challenge*, Kluwer Academic Publishers, 1995

“The Theory of Peak-Load Pricing: A Survey,” (with C.S. Fernando and P.R. Kleindorfer), *Journal of Regulatory Economics*, November 1995. Reprinted in Robert B. Ekelund, Jr. (ed). *The Foundations of Regulatory Economics*. Edward Elgar, 1998.

“Incentive Regulation in the United Kingdom and the United States: Some Lessons,” (with P.R. Kleindorfer), *Journal of Regulatory Economics*, May 1996

“Competition in Postal Service: International Perspectives,” in E.L. Hudgins (Ed.), *The Last Monopoly*, CATO Institute, Washington, DC, 1996.

“Price Caps and Revenue Caps: Incentives and Disincentives for Efficiency,” (with P.R. Kleindorfer) in M.A. Crew (Ed.), *Pricing and Regulatory Innovations Under Increasing Competition*, Kluwer Academic Publishers, 1996.

“Utilities Under Competition: An Options-Based Market Approach,” (with C. Fernando and P.R. Kleindorfer) in M.A. Crew (Ed.), *Pricing and Regulatory Innovations Under Increasing Competition*, Kluwer Academic Publishers, 1996.

“Peak Loads and Postal Services: Some Implications of Multi-State Production,” (with P.R. Kleindorfer and M. Smith), in M.A. Crew and P.R. Kleindorfer (Ed.), *Pricing and Regulatory Innovations Under Increasing Competition*, Kluwer Academic Publishers, 1997.

“Efficient Entry, Monopoly, and the Universal Service Obligation in Postal Service,” (with P.R. Kleindorfer), *Journal of Regulatory Economics*, September 1998.

“Stranded Assets in Network Industries in Transition,” (with P.R. Kleindorfer) in M.A. Crew (Ed.), *Regulation Under Increasing Competition*, Kluwer Academic Publishers, 1999.

“Regulatory Governance and Competitive Entry,” (with P.R. Kleindorfer), in M.A. Crew and P.R. Kleindorfer (Ed.), *Regulation Under Increasing Competition*, Kluwer Academic Publishers, 1999.

“Franchise Bidding Without Holdups,” (with R. Harstad), *Journal of Regulatory Economics*, March 1999.

“Cost Estimation and Economically Efficient Prices: Some Consequences of Error,” (with P.R. Kleindorfer), in M.A. Crew and P.R. Kleindorfer, (Ed.), *Current Directions in Postal Reform*, (Ed.), Kluwer Academic Publishers, 2000.

“Liberalization and the Universal Service Obligation in Postal Service,” (with P.R. Kleindorfer) in M.A. Crew and P.R. Kleindorfer, (Ed.), *Current Directions in Postal Reform*, (Ed.), Kluwer Academic Publishers, 2000.

“Transmission – Enabler of Wholesale Competition” (with S. Awerbuch and P.R. Kleindorfer) in M.A. Crew, (Ed.), *Expanding Competition in Regulated Industries*, (Ed.), Kluwer Academic Publishers, 2000.

“Privatizing the U.S. Postal Service,” (with P.R. Kleindorfer) in E.L. Hudgins, (Ed.), *Mail @ the Millennium: Will the Postal Service Go Private*, (Ed.), CATO Institute, Washington, DC, 2000 .

“A Critique of the Theory of Incentive Regulation,” (with P.R. Kleindorfer) in M.A. Crew and P.R. Kleindorfer, (Ed.), *Future Directions in Postal Reform*, (Ed.), Kluwer Academic Publishers, 2001.

“Whither the USO under Competitive Entry: A Microstructure Approach,” (with P.R. Kleindorfer) in M.A. Crew and P.R. Kleindorfer, (Ed.), *Future Directions in Postal Reform*, (Ed.), Kluwer Academic Publishers, 2001.

“Postal Services,” *World Book Online American Edition*, (with Paul R. Kleindorfer) <http://www.worldbookonline.com/wbol/wbPage/na/ar/co/716192>, July 3, 2001

“Regulatory Economics: Twenty Years of Progress,” (with Paul R. Kleindorfer), *Journal of Regulatory Economics*, January 2002.

“Putty-Putty, Putty-Clay or Humpty-Dumpty? Universal Service Under Entry,” (with P.R. Kleindorfer) in *Postal and Delivery Services: Pricing, Productivity, Regulation and Strategy*, edited by M.A. Crew and P.R. Kleindorfer, Kluwer Academic Publishers, 2002.

“Two-Tier Pricing under Liberalization,” (with P.R. Kleindorfer) in *Postal and Delivery Services: Pricing, Productivity, Regulation and Strategy*, edited by M.A. Crew and P.R. Kleindorfer, Kluwer Academic Publishers, 2002.

“Balancing Access and Universal Service Obligations” (with P.R. Kleindorfer) In *Postal and Delivery Services: Delivering on Competition*, edited by M.A. Crew and P.R. Kleindorfer, Kluwer Academic Publishers, 2002.

“Regulation Redux,” (with P.R. Kleindorfer) in *Markets, Pricing, and Deregulation of Utilities*, edited by M.A. Crew and J.C. Schuh, Kluwer Academic Publishers, 2003.

“Postal Privatization: in General and for the United States Postal Service?” (with P.R. Kleindorfer) in *Handbook of Privatization*, edited by David Parker and David Saal , Edward Elgar, 2003.

“Public Utility Regulation,”(with P.R. Kleindorfer) in *An Encyclopedia of Public Choice*, edited by Charles K. Rowley and Fritz Schneider, Kluwer Academic Publishers, 2003.

“Deregulation of Postal Service,” (with P.R. Kleindorfer) in *An Encyclopedia of Public Choice*, edited by Charles K. Rowley and Fritz Schneider Kluwer Academic Publishers, 2003.

“Access and the USO for Letters and Parcels” (with P.R. Kleindorfer) In *Competitive Transformation of the Postal and Delivery Sector*, edited by M.A. Crew and P.R. Kleindorfer, Kluwer Academic Publishers, 2003.

“Developing Policies for the Future of the United States Postal Service” (with P.R. Kleindorfer) In *Competitive Transformation of the Postal and Delivery Sector*, edited by M.A. Crew and P.R. Kleindorfer, Kluwer Academic Publishers, 2003.

“Bringing Competition to Telecommunications by Divesting the RBOCs” (with P.R. Kleindorfer and J. Sumpter) In *Obtaining the Best from Regulation and Competition*, edited by M.A. Crew and M. Spiegel, Kluwer Academic Publishers, 2004.

“Competition, Universal Service and the Graveyard Spiral” (with P.R. Kleindorfer) In *Regulatory and Economics Changes in the Postal and Delivery Sector*, edited by M.A. Crew and P.R. Kleindorfer, Kluwer Academic Publishers, 2005.

“The Welfare Effects of Entry and Strategies for Maintaining the USO in the Postal Sector” (with P.R. Kleindorfer) In *Progress toward Liberalization of the Postal and Delivery Sector*, edited by M.A. Crew and P.R. Kleindorfer, Springer Science + Business Media, Inc., 2006.

“Developments in the Theory and Practice of Regulatory Economics,”(with David Parker) In *International Handbook On Economic Regulation*, edited by M.A. Crew and D. Parker, Edward Elgar, 2006.

“Regulation, Pricing and Social Welfare” (with P.R. Kleindorfer) In *International Handbook On Economic Regulation*, edited by M.A. Crew and D. Parker, Edward Elgar, 2006.

“Approaches to the USO under Entry” (with P.R. Kleindorfer) In *Liberalization of the Postal and Delivery Sector*, edited by M.A. Crew and P.R. Kleindorfer, Edward Elgar, 2006

“Multi-National Policies for the Universal Service Obligation in the Postal Sector under Entry,” (with P.R. Kleindorfer) *Review of Network Economics*, 2008.

“Regulation and the USO under Entry” (with P.R. Kleindorfer) In *Competition and Regulation in the Postal and Delivery Sector*, edited by M.A. Crew and P.R. Kleindorfer, Edward Elgar, 2008.

“Postal reform: introduction” (with P.R. Kleindorfer and J.I. Campbell) in *Postal Reform*, Edward Elgar, edited by P.R. Kleindorfer and J.I. Campbell, 2008

“Pricing for postal access and worksharing,” (with P.R. Kleindorfer) in *Postal Reform*, Edward Elgar, edited by P.R. Kleindorfer and J.I. Campbell, 2008

“Reform of the United States Postal Service: an unfinished task,” (with P.R. Kleindorfer) in *Postal Reform*, Edward Elgar, edited by P.R. Kleindorfer and J.I. Campbell, 2008

“Economic factors underlying postal reform in the European Union, (with, G. d’Alcantara, P.R. Kleindorfer, P. Claeys and B. Kuypers) in *Postal Reform*, Edward Elgar, edited by P.R. Kleindorfer and J.I. Campbell, 2008

“Service Quality, Price Caps and the USO under Entry” (with P.R. Kleindorfer) in *In Progress in the Competitive Agenda in the Postal and Delivery Sector*, (Ed.), Edward Elgar, 2009 (with P.R. Kleindorfer).

### **Book Reviews:**

“Optimal Pricing and Investment in Electricity Supply,” (Review), *Applied Economics*, January 1970

“Introduction to Contemporary Microeconomics,” (Review), *Applied Economics*, December 1970

“Economies of Scale,” (Review), *Journal of Economic Literature*, December 1972

“Take-Overs: Their Relevance to the Theory of the Firm,” (Review), *Journal of Economic Literature*, June 1973

“The Prediction of Profitability,” (Review), *Journal of Economic Literature*, June 1973

“Microeconomics: The Theory of Economic Allocation,” (Review), *Economic Journal*, December 1973

“The Service Industries: Strategy, Structure and Financial Performance,” (Review), *Journal of Economic Literature*, December 1979

“Britain’s Economic Performance,” (Review), *Southern Economic Journal*, April 1982

“Public Enterprise Economics: Theory and Application,” (Review), *Public Choice*, 1988

“‘Natural Monopoly Regulation’ and ‘The Regulation of Natural Monopoly’,” (Review), *Journal of Regulatory Economics*, December 1989

### **Honors and Awards:**

Recipient with Paul Kleindorfer, on behalf of the Center for Research in Regulated Industries, of the Hermes Award, 1992, presented by the European Express Organization, Munich, Germany, June 22, 1992

Recipient of the 2002 Distinguished Service Award, Public Utility Research Center, University of Florida, Gainesville, FL, February 21, 2002

### **Other Professional Activities:**

Referee, including the following journals: *American Economic Review*, *Bell Journal of Economics*, *Economica*, *Economic Journal*, *Economic Inquiry*, *Journal of Economic Studies*, *Journal of Institutional and Theoretical Economics*, *Journal of Political Economy*, *Journal of Public Economics*, *Operations Research*, *Quarterly Journal of Economics*, *Quarterly Review of Economics and Business*, *Review of Economic Studies*, *Review of Economics and Statistics*, *Southern Economic Journal*, *Swedish Journal of Political Economy*, and *Zeitschrift fur Nationalokonomie*

Referee of proposals submitted to National Science Foundation

Discussant, International Symposium on Public Policy for Regulated Monopolies and Public Enterprise, Brussels, June 1979

Chairman of session on Public Utility Regulation, South Western Economic Association, Houston 1980

Discussant, Telecommunications Policy Conference, Annapolis, April 1980

Chairman of session, Econometric Society Meetings, Denver, September 1980

Director, Rutgers University Workshop on Advanced Public Utility Economics, 1980-81 (monthly meeting of sixteen professional economists engaged in research in regional utilities and regulatory bodies)

Chairman of session and discussant, Southern Economic Association, New Orleans, November 1981

Discussant, American Economic Association, New York, December 1982

Participant, Emory University Law and Economics Center's Legal Institute for Economists, Dartmouth College, June 1983

Presenter of Paper, "Transactions Costs of Rate of Return Regulation," Conference on New Institutional Economics, Metlach, West Germany, June 26-29, 1984

Presenter of Paper, "Competition, Diversification and Regulation of Telecommunications," New Jersey Bar Association Conference, New Brunswick, NJ, March 24, 1987

Discussant/Chair, Public Choice Society, Tucson, AZ, March 26-28, 1987

Presenter of Paper, "Capital Recovery and Productivity Problems Under Price Caps," Pacific Telecommunications Council, Honolulu, HI, January 14-20, 1989

Presenter of Paper, "Diversification and Regulated Monopoly," Current Issues Challenging the Regulatory Process, Santa Fe, NM, March 7-10, 1989

Presenter of Paper, "On the Efficiency of Law: A Public Choice Perspective," Public Choice Society, Orlando, FL, March 16-19, 1989

Discussant, Bellcore/Bell Canada Cost Forum, San Diego, CA, April 4-8, 1989

Presenter of Paper, "Peak-Load Pricing in Postal Services," Public Choice Society, Tucson, AZ, March 16-19, 1990

Director, Rutgers University Research Seminars in Public Utility Economics and Regulation, (28 one-day conferences held over the period May 1977 to May 2004)

Director, Rutgers University Advanced Workshop in Regulation and Competition, 1981–Present (three meetings per year of currently 70 professional economists)

Director, Rutgers University Annual Eastern Conference in Regulation and Competition, 1982–Present

Director, Rutgers University Annual Western Conference in Regulation and Competition, 1988–Present

Director, Rutgers University Workshops and Conferences on Postal Delivery Economics, 3 Workshops and 13 Conferences, 1990–Present

### **Testimony Before Congress:**

Testimony before the House of Representatives Sub Committee on Postal Service on H.R. 22, "The Postal Reform Act," April 16, 1997

### **Testimony Before President's Commission:**

Testimony before the President's Commission on the United States Postal Service, "Unique Attributes of the Postal Service Business Model: Prepared Statement to the President's Commission On The United States Postal Service," April 14, 2003

**Consultancy:**

American Telephone and Telegraph (local measured service, access, depreciation, testimony)

U.S. Department of Energy/Argonne National Laboratory/New Jersey Energy Research Institute (community energy planning)

City of Trenton (integrated community energy systems)

New Jersey Board of Public Utilities/Jersey Central Power and Light Company (strategic options for JCP&L arising out of the Three Mile Island accident)

Glitterex Inc. (pre-trial economic analysis for an antitrust case)

National Right to Work Legal Defense Foundation (agency shop in universities)

Stevens Institute of Technology (conference preparation)

Northwestern Bell (competitive pricing policies)

Hackensack Water Company (software development for regulated companies)

New York Telephone Company (capital recovery problems, executive education, price caps)

Manchester Township, N.J. (litigation support for host community benefit)

Niagara Mohawk Power Corporation (maximum demand rates)

United States Postal Service (preparation of testimony on marginal costs according to service level, research on service quality and marginal costs, incentive regulation, conference preparation)

New Jersey Bell Telephone (regulation of competitive and monopoly services)

Michigan Bell Telephone (regulation of competitive and monopoly services)

BellSouth Telecommunications (usage-based pricing)

Royal Mail, United Kingdom (pricing and entry, USO)

United States Department of State (peak-load pricing, conference preparation)

PSE&G (economic depreciation)

U.S. Energy Information Administration (electric system reliability)

Sithe Energies, Inc. (testimony on back-up charges and revenue caps)

Independent Power Producers of New York, Inc. (testimony on incentive regulation and back-up charges)

Washington Utilities and Transportation Commission (testimony on depreciation)

A.T. Kearney (LINX) (postal cost study)

Deutsche Post (price caps and USO)

Entergy (incentive regulation)

New Zealand Commerce Commission (incentive regulation)

Board of Airline Representatives of Australia (BARA) (airport fees)

Canada Post Corporation (USO, regulation, testimony)

Government of Canada (Testimony on USO)

Federal Trade Commission (Postal Service)

New Zealand Post (regulation)

Australian Competition and Consumer Commission (postal discounts)

European Commission (member, PriceWaterhouseCoopers team on the USO and full market opening of postal markets)

US Treasury (member, Grant Thornton team on costing for USPS competitive products)

Australia Post Corporation (Access)

**Board Membership:**

Energy Initiatives Inc., Morristown, New Jersey 1985-1988