ADDENDUM TO RESUME

Refereed Journal Articles


"Do Common Carriage, Special Infrastructure, and General Purpose Technology Rationales Justify Regulating Communications Networks?" Journal of Competition Law and Economics doi: 10.1093/joclec/nhu001 [with Janice Hauge].


**Non-Refereed Journal Articles**


**Books**


**Chapters in Books**


“The Usefulness of Marginal and Incremental Costs in Telephone Regulation.” In *Proceedings of the NRRI Symposium on Telephone Cost of Service*, Columbus: National Regulatory Research Institute, 1990 [with Dennis Nagel].


**Book Reviews**


**Working Papers**


Editorials and Blog Posts


“What Happened to Independence and Transparency at the FCC?” InsideSources February 24, 2015; Austin American-Statesman February 27, 2015.


"Perhaps we could learn a broadband policy lesson from the Aussies.” *TechPolicyDaily.com* September 25, 2014.

"A Leadership Deficit.” Published in The Gainesville Sun, 2011 [with Araceli Castañeda].


**Case Studies**


*Analyzing Telecommunications Finances in Brazil – Parts A and B*, December 2010 [Part A with Amanda Bowe and Part B with Krittipohn Sriyabhandha].


*The Nigerian Auction of the 2G Spectrum — Parts A, B, and C*, August 2007 [with Andrew Nahlik].

*Disbanding the Maryland PSC*, July 2006 [with Robert Gee, Robert Rowe, and Brett Perlman].

*Governor Calls for State and Federal Investigation into Recent Spikes in Natural Gas Prices*, January 2006 [with Brett Perlman and Robert Rowe].


*The Terminating Traffic Dispute* (English) and *Un Conflicto acerca de la Finalización de Tráfico* (Spanish), March 2001 [with David Brevitz and Tahio Mendez de Requena].


Methods of Incentive Regulation: Principles of Rate of Return Regulation, January 1997 (revised 2005).

Teaching Engagements


Management 6636, Global Strategic Management, University of Florida, 2011.
Taught international business strategy to students seeking a Master of Arts in International Business.


University of Florida 2007 International Educator of the Year Award, November 2007.
Received the award in recognition of outstanding international endeavors in support of UF’s strategic goal to internationalize the campus and curriculum.

Taught UF undergraduates as part of a UF-sponsored Study Abroad Program at the Paris Research Center, Paris, France.

Graduate course on Research in Infrastructure Regulation, 2005 - 2013.
Taught doctoral students in economics most recent trends in research in utility regulation.

Curriculum development for University of West Indies, 2004.
Developed courses on telecommunications interconnection regulation and pricing.

Curriculum development for NetTel@Africa, 2001-2004.
Assisted the University of Botswana, African Advanced Level Telecommunications Institute (AFRALTI), University of Dar es Salaam, University of Fort Hare, University of South Africa, University of Western Cape, University of Witwatersrand, and University of Zambia in writing post-baccalaureate and master’s degree curricula on telecommunications policy. Developed interactive spreadsheets to simulate alternative forms of regulation.

Developed and taught this senior-level class for business and non-business majors. Used case studies and projects to examine international business strategies for communications businesses. Student evaluations rated my teaching at 4.74 on a scale from 1 (lowest) to 5 (highest). My undergraduate students received four of the six awards in an international business competition against MBA students from two other Florida universities.

Training/Workshop Engagements

2014 Delivered workshop “Cost of Service Training Course for the Nation of Curacao” in Curacao.

2014 Delivered seminar on assessing competition in telecommunications markets in Bangkok, Thailand.
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>2013</td>
<td>Delivered workshop “Training Program on Broadcasting Competition – A Course for the NBTC of Thailand” in Gainesville, Florida.</td>
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<tr>
<td>2013</td>
<td>Delivered seminars on leadership and on utility regulatory reforms at Garter Group symposium, Orlando, Florida.</td>
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<tr>
<td>2013</td>
<td>Delivered training videos on utility regulation and strategy for the Florida Public Service Commission, Tallahassee, Florida.</td>
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<tr>
<td>2013</td>
<td>Delivered workshop “Telecom Policy and Regulation for Next Generation Networks for OFCA” in Hong Kong.</td>
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<tr>
<td>2012</td>
<td>Delivered workshop “ARSESP Training Program on Regulating Utility Markets, Finances, Prices, and Services” in Sao Paulo, Brazil.</td>
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<tr>
<td>2011 to present</td>
<td>Co-direct PURC Advanced International Practices Program courses.</td>
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<tr>
<td>2008 to present</td>
<td>Co-direct PURC Leadership Workshops: One-day intensive training for emerging leaders in utility policy. Provide two workshops per year.</td>
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<tr>
<td>1997 to present</td>
<td>Co-direct PURC/World Bank International Training Program on Utility Regulation and Strategy, which has educated over 2,800 government and industry officials from 151 nations.</td>
</tr>
<tr>
<td>2008 to 2011</td>
<td>Collaborate with CTIA – the Wireless Association® and the National Conference of State Legislatures (NCSL) to provide the Wireless U. Communications Policy Seminar for state policymakers in Tampa, Florida (2008), San Diego, California (2009), and San Francisco, California (2010).</td>
</tr>
</tbody>
</table>
2010 Delivered workshop “Executive Leadership, Strategic Planning, and Organizational Development in Utilities Regulation” in Kampala, Uganda.


2010 Delivered workshop “Regional Forum and Workshop on Regulatory Reform in the Electricity Sector of the Caribbean” for CARILEC in St. Lucia.


2009 Taught seminar “International Leader or International Leadership: The Art of Finding Your Role” in the International Affairs and the Public Sphere program at the Paris Research Center, University of Florida.

2009 Led sessions in Advanced Methods in Regulatory Pricing and Industry Analysis, Miami, Florida, co-sponsored by the Organisation of Caribbean Utility Regulators (OOCUR) and PURC.


2009 Served as a discussant for the paper “Understanding International Broadband Comparisons” by Scott Wallsten at the Allied Social Science Associations/Transportation and Public Utilities Group Annual Convention in San Francisco, California.


2008 Led a workshop titled Basic Course on Regulatory Economics for Telecommunications for ANACOM to provide the National Communications Authority (ICP-ANACOM) staff with training on network economics and regulation in Lisbon, Portugal.

2005 to 2008 Collaborate with the Cambridge Leadership Associates to provide workshop modules as part of the Executive Development Series for Utility Commissioners for regulators from Caribbean, United States, and Bangladesh. Provided up to three workshops per year.

2007 Delivered a two-day workshop in the Turks and Caicos titled Basic Telecommunications Regulatory Training for regulatory and telecommunications professionals representing four telecommunications operators, the newly formed regulatory agency, and the government.
2007  Led sessions in Pricing and Analysis: An Advanced Course in Utilities Management and Regulation, Nassau, Bahamas, co-sponsored by the Organisation of Caribbean Utility Regulators (OOCUR) and PURC.

2007  Provided a two-week training program titled Advanced Methods in Radio Spectrum Planning and Management for senior executives and leading staff members of the Thailand National Telecommunications Commission in Gainesville, Florida.

2007  Provided a one-week training program for the Thailand National Telecommunications Commission in Cha Am, Thailand titled Basic Methods in Radio Spectrum Planning and Management.

2006  Conducted the PURC Fall Roundtable Apples-Apples or Apples-Oranges? Asymmetric Policies in Telecommunications.

2006  Delivered a training workshop Basic Course on Regulation for senior staff of the Telecommunications Authority of Trinidad and Tobago.

2006  Led sessions in Utility Ratemaking and Analysis: An Advanced Course in Regulation, Ocho Rios, Jamaica, co-sponsored by the Organisation of Caribbean Utility Regulators (OOCUR) and PURC.

2005  Conducted the PURC Fall Roundtable Who Should Regulate Telecommunications? Markets, Regulators, or Antitrust.

2005  Participated in executive team development for Bahamas Telecom Company.

2005  Provided training on price cap regulation, benchmarking, telecommunications interconnection, and dispute resolution for members of the Organization of Caribbean Utility Regulators at a program co-sponsored by the National Association of Regulatory Utility Commissioners and the United States Agency for International Development.

2004  Conducted seminar on utility regulation for the United States Agency for International Development.

2004  Conducted seminar on infrastructure investments for the World Bank.

2004  Conducted the PURC Fall Roundtable Is the Tail Wagging the Dog in Communications Policy?

2004  Wrote and provided seminar on telecommunications interconnection disputes for students of the University of West Indies.

2004  Developed and conducted workshop on telecommunications pricing and interconnection for the Uganda Communications Commission, as well as invited representatives from Nigeria, Rwanda, and Zambia.

2004  Developed and presented workshop on regulatory and telecommunications economics for the Nigerian Communications Commission.

2004  Joined with Cambridge Leadership Associates to provide a one-day workshop for the Florida City and County Managers Foundation on the dangers of leadership, developing leadership skills, and staying alive during adaptive work.

2002 Provided workshop on telecommunications policy for the Agency for Telecommunications, Republic of Montenegro.

2001 Provided case study seminar on telecommunications competition for the Caribbean Association of National Telecommunication Organizations.

2001 Led two case studies for European telecommunications regulators and businesses in collaboration with the International Telecommunications Society in Ireland.

2001 Conducted workshop for telecommunications regulators and industry in Hong Kong in collaboration with the Hong Kong Office of Telecommunications Authority, Hong Kong University of Science and Technology, and Delft University of Technology.

2001, 1997 Conducted training program on principles of utility regulation, pricing, and cost measurement for the Florida Public Service Commission.

2000 - 2002 Developed training on economic regulation and institutional development for the Regulated Industries Commission of Trinidad and Tobago.

2000 - 2001 Provided distance learning on regulation of telecommunications for the National Regulatory Agency for Telecommunications and Informatics of Moldova.

2000 - 2001 Provided seminars on economic regulation and spectrum management for Ente Regulador de los Servicios Públicos of Panama.

2000 Conducted Latin American Forum on Communications for 28 communications ministers, deputy ministers, and regulatory commissioners from Latin America, in collaboration with Nortel Networks and itFlorida, with financial support from the Communications Competitiveness Research Initiative, InfoDev at the World Bank, USAID, Baker & McKenzie, Bell Canada, Western Wireless, Tel Pan/LatinNet, the Center for International Business Education and Research, and the Public Utility Research Center.

1999 Provided training on telecommunications globalization, network interconnection, competition, pricing, and universal service for the Massachusetts Department of Telecommunications and Energy.

1999 Conducted Caribbean Forum for Telecom Policy and Regulation for 30 government policy makers from the Caribbean, in collaboration with the Caribbean Telecommunications Union and the United States Agency for International Development.

1997 Organized and conducted workshop on universal service for the Florida House of Representatives, Utilities and Communications Committee.

1997 Provided training on utility regulation, pricing, incentive regulation, and competition for the Australian Competition and Consumer Commission.

1996 - 1997 Conducted two training programs on telecommunications interconnection pricing and cost studies for the Alabama Public Service Commission.
Presentations at Research Conferences


“Mobile Voice and Data: Déjà Vu or Brave New World?” Presented at the 19th International Telecommunications Society Biennial Conference 2012, Bangkok, Thailand.


“Mobile Broadband Adoption, Uses, and Effects.” Presented at the National Communications Authority (ANACOM) and Organisation of Economic Co-operation and Development (OECD) Workshop, 2009, Lisbon, Portugal [with Janice Hauge and Mircea Marcu].


“Competition in Networking: Research Results and Implications for Further Reform.” Presented at Rethinking Access, Quello Center Conference, 2002, Washington, DC.


Other Selected Presentations

"Why Doesn't the Sunshine State have more Solar?" Presented at the University of Florida Levin College of Law 21st Annual Public Interest Environmental Conference, February 12 - 14, 2015, Gainesville, Florida.


"The Economics of Best Practice Regulation." Presented at a meeting of the Caribbean Electric Utility Service Corporation, September 2013, Barbados.

"Consumer Engagement in Regulation: Panacea or Paralysis?" Presented at Customer Involvement and Pricing, ACCC/AER Regulatory Conference 2013, July 2013, Brisbane, Australia.


"What is a Natural Monopoly in Regulation?" Presented at Forum 2012, Office of Utilities Regulation, November 2012, Kingston, Jamaica.


"Identification of Challenges (from today’s changing regulatory environment)." Presented at The Challenges of a Changing Regulatory Environment, Critical Consumer Issues Forum, NARUC Annual Convention, November 2011, St. Louis, Missouri.


"Can We Get This Right? Power, Influence, and Motivations for Coherence.” Presented at Reviewing the Global Experience on Economic Regulation – A Forward Looking Perspective, 2nd CUTS-CIRC International Conference, April 2011, New Delhi, India.

"A Tale of Two Broadband Strategies." Presented at the Florida Bar Association’s symposium, September 2010, Tallahassee, Florida.

"Leadership and the Independent Regulator." Presented at Thammasat University, September 2010, Bangkok, Thailand.


"Net Neutrality and Innovation at the Edges." Presented at a seminar for Telecom Italia, October 2009, Rome, Italy.


"Reset for Regulation." Presented at Università degli Studi di Napoli Federico II, September 2009, Naples, Italy.

"Broadband and Economic Growth." Presented at the Annual Florida Association of Telecommunications Officers and Advisors Conference, June 2009, Tampa, Florida.


"U.S. Experiences with Business Separation in Telecommunications." Presented main points of the paper to the Australian Competition and Consumer Commission; Australian Services Roundtable; Department of Innovation, Industry and Regional Development; Ovum; and the Office of Senator Stephen Conroy, Minister for Broadband, Communications, and the Digital Economy, 2008, Australia.


"Too Successful to Succeed Toward an Adaptive Model of Firm Survival." Presented at a Department of Economics Seminar, University of North Texas, 2008, Dallas, TX.


"An ICT Driven World: Is This Reality Or Just Our Imaginations?" Presented keynote speech at Telecom Environment Management (TEM 2008) hosted by AOTMP, 2008, Orlando, FL.

“Royal Dutch/Shell in Transition.” Presented at the UF Center for International Business Education and Research, Multidisciplinary Research Workshop and to the UF International Business Society, 2007, Gainesville, FL.

“The Importance of Telecommunications Development.” Presented as the keynote address at the 1st Academic Conference on the Auspicious Occasion of His Majesty King Bhumibol Adulyadej’s 80th Birthday Anniversary, 2007, Bangkok, Thailand.

“Hurricane Hardening Research.” Presented at the Louisiana Public Service Commission Distinguished Speaker Series, 2007, Baton Rouge, LA.

“Regulation for Next Generation Networks.” Presented at the International Telecommunications Union Telecom World 2006 convention, 2006, Hong Kong, China.

“Discounting Telephone Service: An Examination of Participation in Florida’s Lifeline Program Using Panel Data.” Presented at Lingnan University, 2006, Hong Kong, China.

“Update on Lifeline Research in Florida.” Presented at a Florida Public Service Commission workshop, 2006, Tallahassee, FL.


“Competition in Mobile Communications.” Presented at the Committee on Consumer Affairs of the National Association of Regulatory Utility Commissioners, 2005, Washington, DC.


“Where Would Darwin Place His Bet?” Keynote address at the Florida Telecommunications Industry Association Annual Meeting, 2002, Ponte Vedra, FL.

“E-Business in Latin America and Developing Regions.” Presented at the International Institute of Communications, 2000, Tampa, FL.


“Competition and Technology.” Presented at the Florida Communications Policy Symposium, 2000, Tallahassee, FL.


“Other States’ Programs for Enhancing Technology Business.” Presented at itFlorida meeting, 1999, Coral Gables, FL.

“Technology Research Centers at Florida SUS Universities.” Presented at itFlorida meeting, 1999, Orlando, FL.


**Professional Service**

Present: Serve on Advisory Board of the Regulatory Policy Institute, Oxford University, Oxford, United Kingdom.

Present: Serve on Advisory Board for the journal *Competition and Regulation in Network Industries*.


2012  Served on Review Committee for papers at the International Telecommunications Society Biennial Conference, Bangkok, Thailand.


2010  Served on Search Committee for Executive Director for the David F. Miller Retailing Education and Research Center, Warrington College of Business Administration, University of Florida.

2009  Served as guest editor for the *Journal of Management and Governance*.

2008  Served on the Scientific Committee for the Public/Private Interplay Next Generation Communications Conference.


2004 - 2005  Member of International Program Committee for the Hong Kong Mobility Roundtable.


2003 - 2005  Collaborated with Université de Toulouse and Pontificia Universidad Católica del Perú to develop for the World Bank a defined body of knowledge on the regulation of energy, telecommunications, and water sectors.

2003  Presented at workshops on telecommunications history and regulation for the Florida House Subcommittee on Telecommunications and Florida Senate Committee on Communications and Public Utilities.

2002 - 2005  Co-sponsored workshops on the economics of communications policy involving the Federal Communications Commission and Department of Justice staff. Other sponsors were the University of Florida’s Public Policy Research Center and Michigan State University’s Quello Center.


2002 - 2003  Session organizer for the Transportation and Public Utility Group sessions on utility policy at the American Economic Association Annual Meetings.


2002  Presented at workshops on telecommunications competition for the Florida House of Representatives Utilities and Communications Committee and the Florida Senate Committee on Regulated Industries.


2001  Served as delegate in People to People Ambassador Program on business, economics, and trade with the People’s Republic of China.
2001 Conducted research conference Corporate Control and Industry Structure in Global Communications with London Business School.


2000 - 2001 Served on Advisory Board for WebBridge, an Internet company.


1999 - 2001 Served as Special Academic Advisor to the Chair of the Florida Governor’s Information Services Technology Development Task Force.

**Grants**

2014 Florida Energy Systems Consortium to develop course on economics of energy sustainability.

2013 International Cooperation Study Center (ICSC) at Thammasat University, Thailand for joint research to study updating of competitive analysis in telecommunications markets.

2012 - 2016 National Science Foundation for Sustainable Energy Pathways to investigate barriers to adoption of solar technologies in developing countries.


2010 - 2011 Florida Department of Management Services on governmental procurement of broadband services.

2009 - 2011 Florida Energy Systems Consortium for research on energy policies and job creation.

2006 - 2009 Florida’s electric utilities for coordination of research in the area of hardening the electric infrastructure to better withstand and recover from hurricanes. Current projects in this effort include (1) research on undergrounding existing electric distribution facilities by surveying the current literature, performing case analyses of Florida underground projects, and developing a model for projecting the benefits and costs of converting overhead facilities to underground; (2) data gathering and analyses of hurricane winds in Florida and the possible expansion of a hurricane simulator that can be used to test hardening approaches; and (3) an investigation of effective approaches for vegetation management.

2003 - 2009 The World Bank for development of the Body of Knowledge on Infrastructure Regulation.


2008 AT&T and Embarq for a study of low-income households’ enrollment in the Lifeline program and how low-income households use communications services.
2007 - 2008  International Cooperation Study Center (ICSC) at Thammasat University, Thailand for joint research to study competition monitoring in the telecommunication market.

2005  BellSouth and Sprint for research on universal service subsidy system in Florida.

2005  The World Bank for a literature review on risk mitigation.

2004  Net Institute for research on network operators’ choices of network and interconnection quality.

**Personal Development**


**Consulting**

Google on essential facilities, 2011-2012

Northwestern Energy on leadership development, 2010.

ANACOM on broadband penetration, 2009.

BATELCO on leadership development, 2005.


**Other Professional Affiliations and Activities**