RICHARD C. LARSON: brief bio

Updated March 1, 2010

Dr. Larson received his Ph.D. from MIT where he is Mitsui Professor in the Engineering Systems Division (ESD). He is currently founding director of the new Center for Engineering System Fundamentals. The majority of his career has focused on operations research as applied to services industries, He is author, co-author or editor of six books and author of over 85 scientific articles, primarily in the fields of urban service systems (esp. emergency response systems), queueing, logistics, disaster management, disease dynamics, dynamic pricing of critical infrastructures, education and workforce planning. His first book, Urban Police Patrol Analysis (MIT Press, 1972) was awarded the Lanchester Prize of the Operations Research Society of America (ORSA). He is co-author, with Amedeo Odoni, of *Urban Operations Research*, Prentice Hall, 1981 (republished in 2007). He served as President of ORSA, (1993-4), and INFORMS (2005), INstitute for Operations Research and the Management Sciences. He has served as consultant to the World Bank, United Nations, Rand Corp., Kuwait Foundation for the Advancement of Science, Hibernia College in Ireland, Hong Kong University, the U.S. Department of Justice, American Airlines and various other corporations. With Structured Decisions Corporation (and its precedent companies – Q.E.D., ENFORTH and Public Systems Evaluation), Dr. Larson has undertaken major projects with the U.S. Postal Service, Citibank, American Airlines, the City of New York, Jenny Craig, Conagra, Diebold, BOC and other firms and organizations. Dr. Larson's research on queues has not only resulted in new computational techniques (e.g., the Queue Inference Engine and the Hypercube Queueing Model), but has also been covered extensively in national media (e.g., ABC TV's ***20/20***, NPR, CNN.com, the *Los Angeles Times* and the *New York Times*). Dr. Larson served as Co-Director of the MIT Operations Research Center (over 15 years in that post). Dr. Larson was first listed in *Who's Who in America* in 1982. He is a member of the National Academy of Engineering and is an INFORMS Founding Fellow. He has been honored with the INFORMS President's Award and the Kimball Medal. Recognizing his research on pandemic influenza and health care systems analysis, upon invitation he recently joined the Board on Health Sciences Policy of the Institute of Medicine (IOM).

From 1995 to mid 2003, Dr. Larson served as Director of MIT's CAES, Center for Advanced Educational Services. Dr. Larson's position at CAES focused on bringing technology-enabled learning to students living on the traditional campus and to those living and working far from the university, perhaps on different continents. During the years 1995 – 1999 he built the center from two to seven business units, encompassing MIT's production and R&D capabilities in educational technologies and its two major lifelong learning academic programs. He has been invited to give lectures on the future of technology-enabled education in testimony before the House Committee on Science (Washington, D.C.) and in North and South America, Asia, Africa and Europe. He served as Principal Investigator of several of MIT's most ambitious technology-enabled learning programs, including PIVoT -- the web-based the **P**hysics **I**nteractive **V**ide**o** **T**utor. He was founder, with Glenn Strehle, of ***MIT World***. http://mitworld.mit.edu. He is founding Director of LINC, http://linc.mit.edu Learning International Networks Consortium, an MIT-based international project that has held four international symposia and sponsored a number of initiatives in Africa, China and the Middle East. He recently started LINC's newest and largest initiative, BLOSSOMS, *Blended Learning Open Source Science or Math Studies* http://blossoms.mit.edu -- sponsored by the Hewlett Foundation with additional support from the Sloan Foundation, the Lord Foundation and the Lounsbery Foundation. On behalf of LINC, his recent foreign trips have been to China, Japan, Senegal, Iran, Indonesia, Algeria, Pakistan, Jordan, Kuwait and the UAE. From 1999 through 2004, Dr. Larson served as founding co-director of the *Forum the Internet and the University* -- a not-for-profit organization affiliated with the *Forum for the Future of Higher Education*.

Curriculum Vitae (Revised: 3/1/2010)

Richard C. Larson
<rclarson@mit.edu>

TITLE: Mitsui Professor, Massachusetts Institute of Technology.
Engineering Systems Division

EDUCATION: SB (1965), SM (1967), PhD (1969), Electrical Engineering from MIT

CITIZENSHIP: Citizen of the United States of America

PRINCIPAL FIELDS OF INTEREST: Advanced technology and pedagogy for distance and local learning; operations research applied to private and public service systems; transportation and logistics; psychology of queueing; queueing theory, disease dynamics.

AWARDS AND HONORS:

- 1972 Lanchester Prize of the Operations Research Society of America (ORSA) for *Urban Police Patrol Analysis*.
- Twice selected as US national contributor to meetings of IFORS (International Federation of Operational Research Societies).
- *Who's Who in America* (1982).
- American Men and Women in Science, 1994.
- "1991 Distinguished Lecturer," Decision Sciences Department, Wharton School of the University of Pennsylvania.
- 1991 Cecil T. Holmes Mathematics Lecturer, Bowdoin College.
- Elected to National Academy of Engineering (1993).
- Philip M. Morse Lectureship, Institute for Operations Research and the Management Sciences (INFORMS), 1997-9.
- Omega Rho Lectureship, 1999. Honorary Member, Omega Rho.
- Invited testimony before the U.S. Congress, House Committee on Science, 2000.
- Sir Edward Youde Memorial Fund Visiting Professor, University of Hong Kong, 2002.
- Invited contributor to 50th Anniversary issue of *Operations Research*, 2002.
- INFORMS Fellow (2002).
- Kimball Medal of INFORMS (2002).
- INFORMS Presidents Award (2003)
- Harold Larnder Prize in Operations Research, Canada (2004)
- Mitsui Professorship, MIT (2004 -)
- Franz Edelman Laureate, May 2006
- IBM Research Award, Sept. 2006
- Invited member, Institute of Medicine, Board on Health Sciences Policy. 2008-2010.

- Invited member, Institute of Medicine, Standing Committee on Emergency Management and Medical Response Integration. 2009 - .

OF SPECIAL INTEREST: Founder and President of Public Systems Evaluation, Inc., a non-profit technical services corporation (1974-1985). Co-founder and Chairman of ENFORTH Corporation (1980-1990). Chairman of Queues Enforth Development, Inc. (1990-2000). Chairman, Structured Decisions Corporation (2000-present). Co-founder and co-director, Forum for the Internet and the University.

ACADEMIC APPOINTMENTS: Assistant Professor, Electrical Engineering (7/1/69 – 6/30/71). Assistant Professor, Urban Studies & Planning and Electrical Engineering (7/1/71 – 6/30/72). Assoc. Professor, Urban Studies & Planning and Elec. Engineering & Computer Sci. (7/1/72 – 6/30/79). Professor, Elec. Eng. and Urban Studies & Planning (7/1/79 – 6/30/88). Professor, Elec. Eng., (7/1/88 – 6/30/03). Professor in Department of Civil and Environmental Engineering and in the Engineering Systems Division (7/1/03 – 8/31/09). Professor in the Engineering Systems Division (9/1/09 – present. Mitsui Professorship awarded in 2004. Visiting Assoc. Professor of Operations Research, Depart. Industrial Engineering & Operations Research, University of Cal. at Berkeley (2/1/76 – 12/15/76). Visiting Professor of Operations Research, Technical University of Denmark, Lyngby, Denmark (1/1/81 – 6/30/81). Co-director, Operations Research Center, MIT (7/1/77 – 9/1/86, 9/1/91 – 8/31/95). Director, Center for Advanced Educational Services (9/1/95 – 6/30/03). Founder and Director, LINC, 2001 – present. Founding Director, Center for Engineering Systems Fundamentals, 2005 – present.

GOVERNMENT COMMITTEES, SERVICE, ETC.

2009	Invited MIT delegate, WISE, ***World Innovation Summit of Education***, Doha, Qatar, November 15 – 18, 2009. (1,000 delegates from approximately 50 different countries)
2009	Invited MIT representative: White House Meeting (with HHS) on Strategies for Responding to the H1N1 Flu Pandemic, September 2, 3, 2009, Washington, D.C.
2009	k-12, Commonwealth of Massachusetts. Invited member, panel to review the Science and Technology/Engineering Curriculum Framework for k-12.
2008-2010	Institute of Medicine, Member, Board on Health Sciences Policy.

2009	Invited member, Institute of Medicine, Standing Committee on Emergency Management and Medical Response Integration. 2009 - .
2008	National Science Foundation, Panelist Reviewer.
2007-2008	Institute of Medicine and National Academy of Sciences, invited speaker, *Engineering a Learning Healthcare System: A Look at the Future* on April 29-30, 2008.
2007-2008	Institute of Medicine and National Academy of Sciences, invited committee member for fast-track study on "Research Priorities in Emergency Preparedness and Response for Public Health Systems." To create new Public Health Preparedness Centers at Schools of Public Health, funded by the CDC.
2007-2008	Invited USA delegate, NAS and NAE, meeting of academies of science in the Middle East (with Jordan, Israel, and Palestine), designated group leader on Open Source e-learning, Dead Sea, Jordan. (Dec. 2007, Jan. 2008)
2005-present	External Advisory Board, SSE – School of Science and Engineering, LUMS, Lahore (Pakistan) University of Management Science. Chair, 2010 - .
2002	National Science Foundation, invited speaker, group leader and report co-author, workshop on "Responding to the Unexpected," a focus on homeland security. <http://www.isi.edu/crue/>
2000-2005	National Academy of Engineering, Peer Review Committee Member, Section 8: Industrial, Manufacturing and Operational Systems Engineering (2001- Vice Chair and Chair, Sec. 8 Search Committee, 2002-2003, Chair). Member, Membership Committee 2002-2005.
2001-2005	National Academy of Engineering, Member, Draper Prize Selection Committee.
2001	National Academy of Sciences. Speaker at two-day invited Workshop on Impacts of IT on the Future of the Research University (January)
2002	FIPSE, U.S. Department of Education, evaluator of proposals,, LAAP (Learning Anytime Anywhere Program)

2001	National Academy of Sciences, NRC. Invited plenary speaker at workshop on the future of technology-enabled education and the research university.
1999	National Science Foundation, invited participant in workshop focusing on technology-enabled learning for Science, Math and Engineering.
1998	National Academy of Engineering, Invited Panelist on National Transportation Policy (related to inter-modal transportation)
1989	Invited Panel Participant: National Institute of Justice, US Department of Justice. The use of technology in fighting drugs in cities.
1989	Invited Panel Reviewer: National Science Foundation. Research initiation grants in engineering.
1987-1988	National Academy of Engineering, contributor to program on "Technology and Services Industries."
1984-1991	Invited Faculty Participant: National Police Executive Sessions on Community Policy, Harvard University.
1980-1982	Federal Judicial Center: Advisory Panel for Drug Aftercare Program.
1971-1975	Technical Advisory Committee on Science and Technology of the Governor's Committee on Law Enforcement and Administration of Criminal Justice (Massachusetts).
1972-1973	Law Enforcement Advisory Panel of the National Commission of Productivity.
1966	Science and Technology Task Force of the President's Commission on Law Enforcement and Administration of Justice at the Institute for Defense Analyses.

CURRENT ORGANIZATION MEMBERSHIPS

National Academy of Engineering; American Association for the Advancement of Science; Institute for Operations Research and the Management Sciences (INFORMS); Production and Operations Management Society; Eta Kappa Nu; Tau Beta Pi; Sigma XI.

EDITORIAL BOARDS

Service Science, *American Journal of Disaster Management*, *Journal of Industrial and Systems Engineering* (JISE), *International Journal of Health Management and Information* (IJHMI), *American Journal of Disaster Medicine*.

REFEREE FOR MAJOR PUBLICATIONS

Management Science, Naval Research Logistics, American Journal of Disaster Medicine, Operations Research, INFORMS Transactions on Education, Computer-Aided Civil and Infrastructure Engineering, Computers & Operations Research, IBM Systems Journal, Asynchronous Learning Networks (JALN), Education Research and Reviews, The Lancet Infectious Diseases, Interfaces, Medical Decision Making, IIE Transactions.

PROFESSIONAL SOCIETIES

INFORMS (INstitute For Operations Research and the Management Sciences)

2005	President, INFORMS
2001-2003	Chair, Philip M. Morse Lectureship Selection Committee
2000-present	Member, Public Information Committee
1997-1999	Chair, Public Information Committee
1995	Director at Large
1994	Founding director

Operations Research Society of America (ORSA)

1993-1994	President of ORSA
1989-1992	Chairman, the ORSA Prize Committee, 1991, 1992
1989-1993	Member, ORSA NSF Liaison Committee.
1988-1993	Area Editor for *Operations Research* (Services)
1988-2000	Area Editor for *Interfaces* (Services)
1987	Committee on the Future of Operations Research
1985-1988	Member ORSA Council

1984-1985	General Chairman, TIMS/ORSA Boston '85 National Meeting
1984-1987	Area Editor for *Operations Research* (Social Systems and the Public Sector)
1978-1981	Liaison Officer to *IEEE*
1977-1978	Member, ORSA Committee on the future of the *Journal of Operations Research*
1975	Chairman, Lanchester Prize Committee
1974-present	Visiting Lecturers Program in Operations Research

The Institute of Electrical and Electronics Engineering (IEEE)

1974	Program Chairman for Public Systems Applications, National Meeting of SMC Group
1972-1973	Chairman of the Boston Chapter of the Systems, Man and Cybernetics (SMC) Section

FUNDED MIT RESEARCH

2010	Lounsbery Foundation, "BLOSSOMS, Blended Learning Open Source Math or Science Studies." $75,000. 1 year. (For adding Lebanon as a country partner.)
2009-	Lord Foundation of Massachusetts, "BLOSSOMS, Blended Learning Open Source Math or Science Studies." $40,000. 1 year. (For creating five new BLOSSOMS modules focused on engineering)
2008-	Hewlett Foundation, $300,000. BLOSSOMS, Blended Learning Open Source Science or Math Studies.
2008-	Sloan Foundation, $45,000. BLOSSOMS, Blended Learning Open Source Science or Math Studies.
2008-	CDC, with Harvard School of Public Health, $1,500,000. "Linking Assessment and Measurement to Public Health Emergency Preparedness (PHEP) through Engineering Systems Analysis," 5 years. (Stan Finkelstein, PI, R. C. Larson, Co-PI)

2007-	Sloan Foundation, $350,000. Decision-Oriented Analysis of Pandemic Flu Preparedness & Response.
2007-	MIT-Portugal Program. $250,000. Energy Focus Area, Fundamentals in Engineering Systems.
2006	Cordell Hull grant, $100,000. Strategies To Overcome Network Congestion In Infrastructure Systems.
2006	IBM Faculty Research Award. Modeling pandemic influenza. $40,000.
2006	Research in Engineering Fundamentals. MIT ESD Portugal Project. $100,000.
2003	Ministry of Information and Communication, Institute of Information Technology Assessment (IITA), Republic of Korea, $250,000 contract, "A Planning Process for Building IT Excellence in Korea: An MIT/IITA Collaboration."
2002-2003	Hoffman-LaRoche, $500,000 education grant to design and create freely available education web site on human organ transplant infection risks.
2000-2003	Lord Foundation of Mass., $70,000 grant to support ***MIT World.*** Additional Lord Foundation grants for PIVoT completion and for videotaping Profesor Gil Strang's 18.06 Linear Algebra subject (now on OCW).
2002-2003	LINC, Learning International Networks Consortium, $50,000 seed grant from the Lounsbery Foundation and additional $50,000 grant from the Morningside Foundation.
1997-2002	Consortium of Funders, over $1,300,000, PIVoT Project, "Physics Interactive VideO Tutor," Principal Investigator
1999-2002	Masters Voices, $600K, funded by Ford Motor Company
1999-2001	Inventing the Global Classroom, $180K, funded by Microsoft Corp.
2000-2002	Good Clinical Practices, $600K, funded by Pfizer Corp.
2001-2002	Fungal Infections, $600K,funded by Pfizer Corporation

1996-1999	Sloan Foundation Grant, Asynchronous Learning Networks, $200K
1995-1997	Co-Principal Investigator (with Professor Steven Lerman), a grant in excess of $1,000,000 from the National Science Foundation,), NMIS Project ("Network Multimedia Information Services").
1992-1995	Principal Investigator of a $242,072 grant from the National Science Found., "Inferring Queue Performance from Transactional Data."
1991-1993	Principal Investigator of two $63,500 grants from the MIT Center for Transportation Studies and the U.S. Department of Transportation, "National Cost Effectiveness of Smartest Traffic Lights" and "Real Time Strategies for Intelligent Traffic Signal Networks"
1988-1991	Principal Investigator of a $219,710 grant from the National Science Foundation, "Design & Control of Integrated Logistics Distribution Systems."
1987-1990	Principal Investigator of a $223,410 grant from the National Science Foundation, "A Decision Analysis of Multi-Attributed Queueing Systems."
1985-1987	Principal Investigator of a $120,000 grant from the US Department of Justice/National Institute of Justice, "PRACTICE: A User-Oriented Tool for Deploying Scarce Police Patrol Resources."
1984-1987	Principal Investigator or a $328,908 grant from the National Science Foundation. "A Decision Theoretic Analysis of Queueing Delays and Environments."
1984-1985	Principal Investigator of a $11,000 grant from the US Department of Justice/National Institute of Justice, "A Priority Queueing Multi-Unit Dispatch Model with Server Cutoffs for Police Patrol Dispatching."
1983-1985	Principal Investigator of a $119,121 grant from the US Department of Justice/National Institute of Justice, "Proactive Real-Time Management of Scarce Police Patrol Resources."
1982-1985	Co-principal Investigator of a $120,000 grant from the National Science Foundation, "Locational Decisions in a Stochastic Environment."
1980-1982	Principal Investigator of a $98,872 grant from U.S. Department of Justice/National Institute of Justice, "Adaptive Evaluation Designs."

1977-1979 Principal Investigator of a $164,759 grant from U.S. Department of Justice/LEAA, "An Empirical Study of Methods Used in Criminal Justice Evaluations."

1973-1976 Principal Investigator of $840,000 grant from National Science Foundation, "Innovative Resource Planning in Urban Public Safety Systems."

LINC: Learning International Networks Consortium (2001 – present)

Supporting gifts secured from Saudi Aramco ($50,000), Babar Ali Foundation ($10,000), Global Investment of Lebanon ($10,000), the Lounsbery Foundation ($175,000), the Morningside Foundation ($50,000) , the Lord Foundation of Massachusetts ($100,000), Pfizer Corporation ($40,000), AMSI Dubai ($25,000), Alpha Creative of Amman, Jordan ($35,000), Jordan Telecom ($15,000), the Sloan Foundation ($15,000) and from Universal Knowledge Solutions of Dubai and Kuwait ($100,000).

ACADEMIC COURSES

ESD.86 Models, Data and Inference for Socio-Technical Systems, new in 2007
Mining Data, Modeling Systems, Making Impact (Subject ESD.934)
Logistical and Transportation Planning Methods (1.203J)
Discrete Stochastic Processes (6.262)
Queueing Theory with Applications (6.264)
Circuits, Signals, and Systems (6.003)
Operations Management in the Services Industries, a non-credit one-week summer program for managers of services.
Probabilistic Models in Engineering (6.939)
Applied Probability (6.041/6.431)
Operations Research Practicum (6.972)

INVITED FOREIGN LECTURES

2009 The MIT BLOSSOMS Project. Lahore, Pakistan, January 2009.

2008 *Porto, Portugal, Universidade do Porto.* "Congestion Pricing: A Parking Queue Model", Jan. 17, 2008.
http://ww1.rtp.pt/noticias/index.php?headline=98&visual=25&article=320914&tema=1&pagina=&palavra=estacionamento&ver=1

2008 *Lisbon, Portugal, Instituto Superior Tecnico,* "Service Science: At the Intersection of Management, Social and Engineering Sciences." Jan. 18, 2008.

2008 *Amman, Jordan, University of Jordan*, "Operational Research: Applying Math and Physics to Everyday Real Problems," November 12, 2008.

2008 *Irbid, Jordan, Jordan University of Science and Technology*, "Operational Research: Applying Math and Physics to Everyday Real Problems," November 13, 2008.

2006 Shanghai, China. . ***Services: The Other 75% of the Economy!*** 2006 IEEE International Conference on Service Operations and Logistics, and Informatics. June.

2006 Lahore, Pakistan. Operations Research: A use of mathematics for everyday problems. A special lecture presented at the studios of the Virtual University of Pakistan and to be broadcast nationwide. (Jan.)

2006 Amman, Jordan. April 19, 2006. "MIT: E-Reaching Out via LINC, OCW And I-Labs." Invited plenary lecture to International Conference on Interactive Mobile and Computer Aided Learning. (co-sponsored by the IEEE)

2005 Paris, France. November 18, 2005. Operations Research: The Value Proposition. Invited plenary lecture to EURO, The Association of European Operations Research Societies, celebrating their 30th anniversary.

2005 Beijing, China. June 23, 2005. Invited plenary lecture, "Distance Learning as a Tool for Poverty Reduction: A Focus on Two Countries, China and Mexico." *International Conference on Promotion of Distance Learning and Service Networks for Development in China and Other Countries.*

2005 Paris France. February 22, 23, 2005. As founder of MIT LINC, invited participant in a Two-Day Roundtable for UNESCO, on Restarting Higher Education in Iraq.

2004 Jakarta, Indonesia. November 29, 30. Invited speaker (two presentations) at Conference on Information and Communication Technology (ICT) in Education for the Knowledge Economy in Indonesia.

2004 Nagoya, Japan. *Urban Operations Research and More: An Update*, Dept. of Mathematical Sciences, Nanzan University, October 4, 2004

2004 Beijing, China. "*e-Learning: A Perspective from the Massachusetts Institute of Technology,"* APRU *Distance Learning and the Internet*, Tsinghua University, October 12, 2004. (APRU = Association of Pacific Rim Universities)

2004 Qingdao, China. *Operations Research -- the Science of Better*, invited plenary presentation before the national meeting of ORSC, the Operations Research Society of China. October 17, 2004

2004 Beijing, China. *On The Role of Distance Learning and the Learning International Network Consortium (LINC) in Creating an International Learning Cooperation.* Special Symposium Launching MIT LINC web site for Clinical Researchers, *Good Clinical Practices*, hosted by the State Food and Drug Administration of the Peoples Republic of China. April 12, 2004.

2004 Banff, Alberta, Canada. *Emerging Opportunities for Operations Research in Educational Services*, Harold Larnder Memorial Lecture. Joint International Symposium of CORS and INFORMS.

2004 Dakar, Senegal, Invited lecture, *The Future of e-Learning.* "Institut Supérieur de Management" ISM-DAKAR (Graduate School of Management).

2004 Tehran, Iran. Operations Research: *The Science of Better - For Urban Managers, too!* Amirkabir University of Technology (AUT) Iran Institute of Industrial Engineering (IIIE) International Industrial Engineering Conference IIEC-2004. (July 13)

2003 Bangalore, India, Invited lecture, *Urban Operations Research,* The Indian Institute of Management

2003 Shanghai, China, Invited lecture, *The Future of Distance Learning Networks*, Tongji University.

2003 Shanghai, China, Invited lecture, *Urban Operations Research*, Tongji University.

2002 Beijing, China, Invited lecture, *Some New Work in Queues in Retailing*, Chinese Academy of Sciences.

2002 Beijing, China, Invited lecture, *Global Learning Networks*, Peking University.

2002 Cairo, Egypt, Invited lecture, *Global Learning Networks*, First International Internet – Education / Training Conference (via videoconference)

2002 Dublin, Ireland. Invited presentation. "State of the Art in Global Distance Learning," on behalf of Hibernia College.

2002 Algiers, Algeria. Invited plenary speaker in international conference on distance learning, 2nd. International Conference on the Virtual University under the theme :

Internet : a Pedagogical Tool for Distance Learning. Ministry of Higher Education and Scientific Research, The "Université de la Formation Continue."

2002 Hong Kong. As Sir Edward Youde Memorial Fund Visiting Professor, a series of six invited lectures at the University of Hong Kong, Hong Kong Chinese University and the Hong Kong University of Science and Technology.2002

2001 Iran: Tehran. A series of invited plenary lectures on industrial engineering and operations research and on technology-enabled education and distance learning. Sharif University of Science and Technology and Iran's First National Conference on Industrial Engineering. (May-June)

2001 Berlin, Germany. Invited plenary speaker at Online Educa Berlin

2000 Vienna, Austria. Invited lecture to Austrian college students of AIESEC, Association Internationale des Etudiantes en Sciences Economiques et Commerciales (The International Association of Students in Economics and Business Management). "The Future of Technology-Enabled Teaching and Learning."

1999 The Philip M. Morse Lecture, Beijing, China, "Technology-Enabled OR Education: What it may do for Professors & Practitioners http://curricula.mit.edu/Beijing/

1998 The Omega Rho Honorary Lecture, Montreal, Quebec, Canada, "Beyond the Physics of Queueing" http://caes.mit.edu/About/people/larson/MontrealINFORMS1/sld001.htm

1993 "Operations Research: A Knowledge Profession," invited plenary talk, Universidad de las Americas-Puebla, 13th International Congress on Industrial Engineering, Puebla, MEXICO

1983-1985 By invitation of Simon Bolivar University, taught two three-day courses in Caracas, Venezuela.

1982 By invitation of the Italian Government, co-taught a one-week seminar in Rome, Italy, with Professor Amedeo Odoni and Mr. Michael Cahn.

1981 By invitation of the Technical University of Denmark, conducted a series of seminars in Copenhagen, Denmark.

Current and Recent Outside Professional Affiliations

Chairman, Structured Decisions Corporation, 2000 – present

Consultant, The World Bank, 2002 – present

Consultant, United Nations, 2005 – present (United Nations Economic and Social Commission for Asia and the Pacific)

Founding Co-Director (with Joel Meyerson), Forum on the Internet and the University (1999- 2004)

Member Technical Advisory Board – WebCT. (1999 – 2002)

External Advisor, University of Hong Kong.

Selected Recent Media Coverage (queues in services)

***Retail Therapy*, *The Boston Globe*, Nov. 22, 2009**
http://www.boston.com/bostonglobe/magazine/articles/2009/11/22/retail_therapy/

'Dr. Queue' Helps You Avoid Rage In Line, NPR ***Talk of the Nation***, Nov. 24, 2009.
http://www.npr.org/templates/story/story.php?storyId=120769732

Surviving holiday shopping lines, Fox 25 TV, Boston, Dec.10, 2009.
http://www.myfoxboston.com/dpp/news/special_reports/surviving-holiday-shopping-lines

The year of waiting, and waiting and waiting, Do you get the feeling we spent most of 2009 fuming in long lines? *Toronto Star*, December 29, 2009.
http://www.thestar.com/news/gta/article/743542--the-year-of-waiting-and-waiting-and-waiting

CONSULTANT (Since 1980)

2003 (present)	World Bank
2001-present	Hibernia Virtual University, Dublin, Ireland
1999-2000	Predictive Networks
1993-1998	American Airlines
1993	Johnson Controls
1993	United Artists
1991-1992	Coca-Cola Corporation
1989	Kuwait Foundation for the Advancement of Science
1987-1988	First Boston Corporation
1983-1985	Union Carbide Corporation, LINDE Division
1985-1989	Harvard University
1980-1993	National Institute of Justice

PRESENTATIONS AND INVITED LECTURES

Invited lectures at Algiers, Algeria (2nd International Conference on the Virtual University), American Association for Advancement Science, Amherst College, University of Arhus (Denmark), University of Arizona, Arizona State University, AT&T Bell Laboratories, BankBoston, Bates College, BOC (London), Bowdoin College, University of Buffalo, University of Caracus (Venez.), Chinese Academy of Science, Citicorp/Citibank (New York), University of Connecticut, University of Delaware, eduventures.com national meeting, EPOCH Foundation (Taipai), Universidad Gabriela Mistral (Santiago, Chile), Harvard University, Harvey Mudd College, Hibernia College (Dublin, Ireland), University of Hong Kong, Hong Kong Chinese University, Hong Kong University of Science and Technology, University of Indiana, University of Iowa, Laval University, Lehigh University, University of Massachusetts, University of Massachusetts/Boston, University of Maryland, University of Minnesota, MIT Industrial Liaison Program, MIT Transportation Systems Center, University of North Carolina at Chapel Hill, National Academy of Engineering, National Science Foundation, National University of Singapore, New York University, Northeastern University, Northwestern University, Universidad de Oviedo -- Gijon SPAIN, Peking University, University of Pennsylvania (Wharton School), Princeton University, Providence College in Rhode Island, RAND Corporation, Rensselaer Polytechnic Institute, Rhode Island College, Rutgers University, Sharif Univerity of Science and Technology (Tehran, Iran), SIAM Cement and SIAM Commercial Bank (Bangkok), University of New York at Buffalo, University of Southern California, University of Southern Maine, SOVRAN Financial Corporation in Richmond (Virginia), Stanford University, University of Toronto, Tufts University, Wellesley College, Worcester Polytechnic Institute, Yale University.

Numerous other presentations at misc. educational technology Meetings, ORSA/TIMS and INFORMS Meetings, CORS/ORSA/TIMS Meetings, IFORS Meetings, International TIMS Meetings, and ISOLDE (International Symposium on Locational Decisions) Meetings.

PUBLICATIONS

Books and Book Chapters

2009 Larson, R. C., and Karima R. Nigmatulina, "Engineering Responses to Pandemics," chapter in book, "Engineering Healthcare," William Rouse, Denis Cortese, eds, *to appear*. Posted on web site, http://esd.mit.edu/WPS/2009/esd-wp-2009-14.pdf

2007-8 Larson, R. C., "Holistic Trinity of Services Sciences: Management, Social, & Engineering Sciences," chapter in book, "Service Science, Management, and Engineering (SSME): Education for the 21st Century." Posted on IBM web site, http://www.almaden.ibm.com/asr/summit/papers/mitlarson.pdf

2006 Larson, R. C. *Looking Backwards, Looking Forwards; Reflections on Definitions of Operations Research by Morse and Kimball*, a chapter in *Perspectives in Operations Research: Papers in Honor of Saul Gass' 80th Birthday,* Bruce Golden, ed., Springer.

2005 Larson, R. C. *Decision Models for Emergency Response Planning*, a chapter in *The McGraw-Hill Handbook of Homeland Security*, David Kamien, editor.

2005 Devlin, Maureen, Richard Larson and Joel Meyerson (eds.), *The Internet and the University 2004 Forum*, EDUCAUSE, Boulder, CO.

2004 Devlin, Maureen, Richard Larson and Joel Meyerson (eds.), *The Internet and the University 2003 Forum*, EDUCAUSE, Boulder, CO.

2003 Devlin, Maureen, Richard Larson and Joel Meyerson (eds.), *The Internet and the University 2002 Forum*, EDUCAUSE, Boulder, CO.

2002 Devlin, Maureen, Richard Larson and Joel Meyerson (eds.), *The Internet and the University 2001 Forum*, EDUCAUSE, Boulder, CO.

2002 Larson, Richard C., "The Future of Global Learning Networks," preface in *The Internet and the University 2001 Forum.*

2002 Larson, Richard C. and Joel W. Meyerson, "We've Got the Steam Locomotive – Now Let's Design the Railroad Cars!" Preface in *The Internet and the University 2000 Forum.*

2001 Devlin, Maureen, Richard Larson and Joel Meyerson (eds.), *The Internet and the University 2000 Forum*, EDUCAUSE, Boulder, CO.

2001 Larson, Richard C., QUEUE INFERENCE ENGINE, chapter in *Encyclopedia of Operations Research and Management Science*, Centennial Edition, Saul I. Gass and Carl M. Harris (eds.), Kluwer, Boston, 2001, pp.674-679.

2001 Larson, Richard C., HYPERCUBE QUEUEING MODEL, chapter in *Encyclopedia of Operations Research and Management Science*, Centennial Edition, Saul I. Gass and Carl M. Harris (eds.), Kluwer, Boston, 2001, pp.373-377.

2001 Larson, Richard C. and Glenn P. Strehle, "Edu-Tech: What's a President to Do?" An invited book chapter in *Technology Enhanced Learning: Opportunities for Change,* edited by Paul Goodman, Mahwah, NJ, Lawrence Erlbaum, 2001. pp. 21-59.

2001 Gross, Donald and Richard C. Larson, "Queuing Systems," in *International Encyclopedia of Business and Management* (IEBM), 2nd edition, 8-volume set, Malcolm Warner, ed., Thomson Learning, London, U.K., 2001, pp. 5502-5513.

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