

Massachusetts Institute of Technology

Shoumen Palit Austin Datta

Research Scientist, Engineering Systems

Co-Founder and Research Director

**MIT Forum for Supply Chain
Innovation**

RFID Systems Integration Laboratory

School of Engineering

**Department of Civil and
Environmental Engineering**

Building 1-179

77 Massachusetts Avenue (Rm 1-179)
Cambridge, Massachusetts 02139

Phone 617-452-3211

Fax 617-324-2546

Email shoumen@mit.edu

<http://supplychain.mit.edu/shoumen>



The MIT Forum for Supply Chain Innovation was co-founded by Dr Shoumen Datta (see cv, bio¹) following his role as a Member of the Technology Board of the MIT Auto ID Center. The Forum asks, in principle: how to extract value from data. Hence, the Forum is at the center of one of the pivotal areas of decision making that includes business operations, security, manufacturing, healthcare, e-government and almost any field one can imagine. Formed in 2002, the Forum provides a unique collaborative environment of experts, harnessing the global excellence and capabilities of MIT. The Forum brings together academics, researchers, and practitioners to develop ideas, practical principles and critical thinking. Through its research, the Forum affects, among other things, supply chain management and decision support systems. It is dedicated to pursuing innovative solutions, education and providing members with R&D guidance, driving new ideas and assisting with the implementation of strategic technology-based solutions. The Forum helps members imagine, understand, manage and catalyse convergence of innovation. It was co-founded by Dr Shoumen Datta (School of Engineering, MIT), Professor David Simchi-Levi (School of Engineering, MIT) and Professor Charles Fine (Sloan School of Management, MIT).

¹ CV and brief bio enclosed.

DR SHOUMEN PALIT AUSTIN DATTA

Massachusetts Institute of Technology

School of Engineering, Room 1-179, MIT, Cambridge, Massachusetts 02139 shoumen@mit.edu Tel: +1.617.452.3211

<http://supplychain.mit.edu/shoumen> <http://dspace.mit.edu/handle/1721.1/41894> <http://groups.google.com/group/shoumen/files?hl=en>

PROFESSIONAL APPOINTMENTS

2001 – Present

Research Scientist, Engineering Systems Division and Department of Civil and Environmental Engineering, MIT
Co-Founder & Executive / Research Director, MIT Forum for Supply Chain Innovation, School of Engineering, MIT

- ✦ Innovation in Decision Systems; Forecasting; Real-time technologies; Sensors and Auto-Id; AI Agents
- ✦ Academia-Industry-Government Liaison; RFID Systems; <http://dspace.mit.edu/handle/1721.1/41894>
- ✦ <http://supplychain.mit.edu/shoumen>; <http://supplychain.mit.edu/library/sd-papers.aspx>
- ✦ MIT Sloan School of Management Executive Education Program in Strategy & Management
- ✦ <http://mitsloan.mit.edu/execed/epp/courses/supply-chain.php>; <http://supplychain.mit.edu/about/datta.aspx>

1999 - 2001

Principal Investigator, Strategic Innovation Projects, Global Strategic Initiative and Global Management
SAP AG, Walldorf, Germany and SAP Labs, Palo Alto, California

- ✦ Supply Chain Management; E-commerce; Semiconductor Industry; Strategic Technology Advice
- ✦ Executive Consulting; Innovation in Adaptable Business Networks via Agents & RFID Technology

1996 - 1999

President and Co-Founder, Associated Scientists

Founder & Executive Director, Glenn T Seaborg Endowment for Excellence in Education

- ✦ Association for rigorous mathematics and science standards; Foundation to improve teacher training
- ✦ <http://www.edexcellence.net/standards/science.html>
- ✦ http://www.house.gov/science/metzenberg_07-23.htm
- ✦ <http://teamweb.lbl.gov/seaborg/> and <http://groups.google.com/group/shoumen/files?hl=en> (#25 to #37)
- ✦ Seaborg, Glenn T (Archives - Library of Congress) <http://hdl.loc.gov/loc/mss/eadmss.ms006039> (Box 276)

1998 - 1999

Director, Office of Public Understanding of Science; Member, Senior Advisory Council, Eagle Alliance
Department of Nuclear Engineering, Texas A&M University, College Station, Texas

- ✦ Public literacy of the looming energy crisis and the under-utilization of safe nuclear energy
- ✦ <http://wid.tamu.edu/travel/opening.html>, <http://tti.tamu.edu/conferences/wid/program.stm>

1998 - 1999

Advisor, Institute of Information Technology and Computer Science

- ✦ Global IT training development partnership planning in SE Asia and Eastern Europe

1997 - 1998

Visiting Fellow, Cisco Systems

Cisco Networking Academy, Cisco Systems Inc, San Jose, California

- ✦ IT workforce development and US government programs [#26](http://groups.google.com/group/shoumen)
- ✦ <http://www.lgca.org/ciscoacademy/Documentation/netacad.pdf>

1997 - 1998

Chairman, National Information Technology Task Force

US Departments of Commerce; Labor; Education; White House Council of Economic Advisors and ITAA

- ✦ Policy advisory task force; global economic impact of IT; US initiatives for workforce development
- ✦ <http://www.ita.org/workforce/studies/math.htm>

1995 - 1997

Special Assistant [Title XV], Superintendent of Schools, City & County of San Francisco

Director of Development and Strategic Technology, San Francisco Unified School District, San Francisco, California

- ✦ Management and administration of technology infrastructure, hiring, curriculum and grants

PROFESSIONAL APPOINTMENTS (continued)

1994 - 1995

Research Scientist, University of California at Berkeley and UCSF School of Medicine (San Francisco, California)
UCSF - UC Berkeley Program in Molecular Parasitology and Infectious Diseases (<http://tetrad.ucsf.edu/faculty.php?ID=74>)
✚ Research in infectious diseases (<http://agabian.ucsf.edu/>)
✚ Instructor in Human Genetics, UCSF School of Medicine

1991 - 1994

Research Associate, Whitehead Institute, Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts
✚ Molecular genetics of transcriptional regulation in yeast; cancer research (<http://web.wi.mit.edu/young/>)
✚ Human Genome Project; artificial chromosomes (<http://www.broad.mit.edu/about/bios/bio-lander.html>)
✚ RNA Polymerase II dependent gene expression in vitro (www.hms.harvard.edu/dms/bbs/fac/buratowski.html)

1990 - 1993

Instructor in Medicine, Harvard Medical School, Boston, Massachusetts
✚ Teaching medical (MD) students [molecular medicine; biochemical physiology; metabolic regulation]

1989 - 1991

Research Fellow, Harvard University, Cambridge, Massachusetts
Research Fellow in Medicine, Harvard Medical School, Massachusetts General Hospital, Boston, Massachusetts
✚ Molecular endocrinology; endocrine tumors; molecular medicine; transcriptional regulation by thyroid hormone
✚ www.jamesonlab.northwestern.edu and #5 to #9 on <http://groups.google.com/group/shoumen/files?hl=en>

EDUCATION

- 1995 University of California, Berkeley
Communications Network [Audit], Department of Electrical Engineering and Computer Science
- 1989 Ph.D. [Molecular Biology, Biochemistry, Molecular Genetics, Virology-Microbiology]
Rutgers University School of Medicine – UMDNJ, New Jersey
www.case.edu/med/biochemistry/faculty/harter.html
Collaboration: Department of Molecular Biology, Princeton University, Princeton, NJ
www.molbio.princeton.edu/index.php?option=content&task=view&id=233
<http://proquest.umi.com/pqdweb?did=745340361&sid=1&Fmt=2&clientId=15403&ROT=309&VName=POD&cfc=1>
- 1986 Visiting Student, University of Cambridge, Cambridge, UK (Program in DNA Tumour Viruses)
- 1983 Visiting Student, University of Paris VI, France (Institut de Cancerologie et Immunogenetique)
- 1980 B.Sc. [Honours] Medical Physiology and Biochemistry; [Minors] Physics and Chemistry
Presidency College, University of Calcutta, Calcutta, India
- 1976 Indian School Leaving Certificate [Mathematics, Science, Arts, Languages and Humanities]
University of Cambridge (Local Examinations Syndicate) Cambridge, England

RESEARCH SUPERVISION and ADVISING

Year	Student	Purpose	Institution
1987-88	M. Losada	Junior Thesis	Rutgers University
1989	S. Saha	Research	Harvard University
1990-91	S. Magge	Senior Thesis	Harvard University
1992	T. Galvao	Advising	M I T / University of Cambridge
1992	N. Tang	Advising	M I T / Yale University
1993	S. Magge	Advising	Harvard University
1993	A. Mukherjee	Advising	Harvard University
1994	L. O'Brien	PhD Research	UCSF Medical School
1997	A. Pritikin	Advising	Harvard University
1998	H. Fu	Advising	M I T / Harvard University
2001	Y. Soga	Internship	Oxford University
2001	A. Vora	Advising	Harvard University
2004	H. Fu	Sponsor	British Parliament
2004	T. Shean	Advising	University of Cambridge
2004	D. Graham	PhD thesis	Institute for Defense Analysis
2005	K. Phillip	Research	Trinity College Dublin (Ireland)
2007	K. Zukova	MS Thesis	Chalmers University (Sweden)

PAPERS & ARTICLES in TECHNOLOGY, BUSINESS, MANAGEMENT, SCIENCE, ENERGY, ECONOMETRICS and ICT

See <http://dspace.mit.edu/handle/1721.1/41896/browse-date> & <http://groups.google.com/group/shoumen/files?hl=en>

Datta, S., Granger, C.W.J. and Hilmola, O-P. (2008) Advances in Forecasting and Risk Analytic Methods in Global Supply Chain Management (*in preparation*)

Datta, S. (2008) Convergence: Innovation Strategies & Ideas (MIT Library <http://dspace.mit.edu/handle/1721.1/41911>)

Datta, S. (2008) Will Nano-Butlers Work for Micro-payments? Innovation in Business Services Model may Reduce Cost of Delivering Global Healthcare Services. MIT Engineering Systems Division Working Paper Series (ESD WP) <http://esd.mit.edu/WPS/2008/esd-wp-2008-17.pdf> and <http://dspace.mit.edu/handle/1721.1/41901>

Datta, S. (2008) WiFi Meet Fufi: Disruptive Innovation in Logistics Catalysed by Energy (in press) *International Journal of Electronic Business Management* <http://dspace.mit.edu/handle/1721.1/41897> #80 <http://groups.google.com/group/shoumen/files?hl=en>)

Datta, S. (2008) Identification of Information in Decision Systems (CIDS) <http://dspace.mit.edu/handle/1721.1/41910>

Datta, S. (2008) Auto ID Paradigm Shifts from Internet of Things to Unique Identification of Individual Decisions in System of Systems. MIT Engineering Systems Division Working Paper <http://esd.mit.edu/WPS/2008/esd-wp-2008-09.pdf> *Supply Chain Europe*, May-June 2008 (*in press*) <http://dspace.mit.edu/handle/1721.1/41900>

Hilmola, O-P, Ma, H. and **Datta, S.** (2008) A Portfolio Approach for Purchasing Systems: Impact of Switching Point. MIT ESD WP <http://esd.mit.edu/WPS/2008/esd-wp-2008-07.pdf> and <http://dspace.mit.edu/handle/1721.1/41918>

Datta, S., Lyu, J. and Chen, P-S. (2007) Decision Support and Systems Interoperability in Global Business Management. *International Journal of Electronic Business Management* **5** 255-265 <http://esd.mit.edu/WPS/2007/esd-wp-2007-24.pdf> http://140.114.54.215/IJEBM/IJEBM_static/Paper-V5_N4/A01.pdf & <http://dspace.mit.edu/handle/1721.1/41917>

Datta, S. (2007) Globalization Demands Innovation: The Future of Automatic Identification. *Supply Chain Europe Digital* <http://www.scemagazine.com/auto/pdf/The%20Future%20of%20Automatic%20Identification.pdf>

Datta, S. (2007) Unified Theory of Relativistic Identification of Information in a Systems Age: *Convergence of Unique Identification with Syntax and Semantics through Internet Protocol version 6 (IPv6)*. MIT Engineering Systems Division Working Paper Series <http://esd.mit.edu/WPS/2007/esd-wp-2007-17.pdf> & <http://dspace.mit.edu/handle/1721.1/41902>

Datta, S., Granger, C. W. J., Barari, M. and Gibbs, T. (2007) Management of Supply Chain: an alternative modeling technique for forecasting. *Journal of the Operational Research Society* **58** 1459-1469 [doi:10.1057/palgrave.jors.2602419] <http://dspace.mit.edu/handle/1721.1/41906>

Datta, S. and Granger, C.W.J. (2006) Advances in SCM Decision Support Systems: Potential to Improve Forecasting Accuracy. MIT ESD WPS <http://esd.mit.edu/WPS/esd-wp-2006-11.pdf> & <http://dspace.mit.edu/handle/1721.1/41905>

Datta, S. (2006) Advances in SCM Decision Support Systems: Semantic Interoperability between Systems. MIT ESD WPS <http://esd.mit.edu/WPS/esd-wp-2006-10.pdf> and MIT Libraries <http://dspace.mit.edu/handle/1721.1/41903>

Datta, S. (2006) Why Standards May Not Be The Standard Solution (#12 <http://groups.google.com/group/shoumen>)

Datta, S. (2006) Elusive Quest for Interoperability (MIT Libraries <http://dspace.mit.edu/handle/1721.1/41916>)

- Datta, S.** (2006) Risk in the Global Supply Chain (MIT Libraries <http://dspace.mit.edu/handle/1721.1/419162>)
- Datta, S.** (2006) *Charlie's Skypeout Strategy: The Chocolate Factory Relocates to Tallinn* TEKES Technology Review **196** 196/2006 pg 41-52 (Published by TEKES Government of Finland, Funding Agency for Technology and Innovation, Helsinki http://www.tekes.fi/julkaisut/E_Business.pdf and #16 <http://groups.google.com/group/shoumen/files?hl=en>)
- Datta, S.** (2006) Global Public Goods (MIT Libraries <http://dspace.mit.edu/handle/1721.1/419109>)
- Datta, S.** (2005) UWB and UWB+NB with SDR as an LPS Solution (<http://supplychain.mit.edu/library/sd-papers.aspx>)
- Datta, S.** (2004) Adapter, optimiser, prévoir - La convergence des concepts, des outils, des technologies et des normes peut-elle accélérer l'innovation ? Logistique and Management **12** n°2 (<http://dspace.mit.edu/handle/1721.1/419107>)
- Datta, S.** (2004) Academic Reverse Outsourcing (#57 <http://groups.google.com/group/shoumen/files?hl=en>)
- Datta, S.** (2004) Hydrogen Economy: Power in Every Garage? <<http://esd.mit.edu/WPS/esd-wp-2006-10.pdf>>
- Datta, S.** (2004) Adapting Decisions, Optimizing Facts, Predicting Figures (*Can Confluence of Concepts, Tools, Technologies and Standards Catalyze Innovation?*) <http://supplychain.mit.edu/library/sd-papers.aspx>
- Datta, S., et al** (2003) Adaptive Value Network (Chapter One in *Evolution of Supply Chain Management: Symbiosis of Adaptive Value Networks and ICT* (Information Communication Technology). Kluwer Academic Publishers (2004) www.wkap.nl/prod/b/1-4020-7812-9?a=1 and <http://supplychain.mit.edu/library/sd-papers.aspx>)
- Datta, S.** (2002) Agents Where Artificial Intelligence Meets Natural Stupidity <http://dspace.mit.edu/handle/1721.1/41914>
- Datta, S.** (2001) RFID: An Incomplete Saga (MIT Libraries <http://dspace.mit.edu/handle/1721.1/41915>)
- Datta, S.** (2000) Aging @ Speed of Internet (#43 <http://groups.google.com/group/shoumen/files?hl=en>)
- Datta, S.** (2000) Why Supply Chain (MIT Libraries <http://dspace.mit.edu/handle/1721.1/41919>)
- Datta, S.** (1999) Challenges for the Sages of Software (#24 <http://groups.google.com/group/shoumen/files?hl=en>)

ARTICLES on SCIENCE and MATHEMATICS in PRE-COLLEGE EDUCATION

Datta S. 1999. Microarray (#38 <http://groups.google.com/group/shoumen/files?hl=en>)

Waltar AE, Beaumont P, Earl B, Peddicord KL, **Datta S.** 1999. What The Public Wants to Know. Proceedings of the American Nuclear Society. Long Beach, CA.

Datta S. 1998. National Task Force (US) Report. US Department of Commerce & ITAA, Washington, DC
www.ita.org/workforce/studies/math.htm and #65 <http://groups.google.com/group/shoumen/files?hl=en>

Datta S. 1998. Community Colleges as Catalysts for Economic Growth through IT Centers

Datta S. 1997. Integrated Network for Education [Web-Based Education Commission, US Senate, 1999]

Datta S. 1997. Science Education and Economic Growth www.intres.com/math/datta.htm

Datta S. 1997. Public Education [Interview] #25 <http://groups.google.com/group/shoumen/files?hl=en>

Datta S. 1996. Good Teaching [Letter] Science **271** 1789

Datta S. 1996. Retrofit Public Education: Science and Technology Education Partnership for Schools

Datta S. 1996. Standards: The Widening Gulf Between Concepts and Implementation

Datta S. 1995. Partnership for International Public Health: Molecular Diagnostics and Public Issues

Datta S. 1995. Art and Education: Value of Public Museums to Science Education

Datta S. 1995. Interactive Mathematics Program: An Experimental Concept Gone Awry
www.math.nyu.edu/mfdd/braams/links/imp.html

COMMUNICATION

Seaborg, Glenn Theodore (Archives, US Library of Congress) <http://hdl.loc.gov/loc/mss/eadmss.ms006039> (Box 276)
See (#37) <http://groups.google.com/group/shoumen>

TEACHING

1985 - 1988 Instructor in Molecular Biology and Microbiology, School of Medicine, Rutgers University

1990 – 1993 Instructor in Molecular Medicine, Harvard Medical School, Harvard University

2002 – 2004 Supply Chain Strategy and Management, MIT Sloan School of Management, MIT
<http://mitsloan.mit.edu/execed/epp/courses/supply-chain.php>

2006 Supply and Demand Chain Design and Management, Chalmers University of Technology (Goteborg)
http://www.student.chalmers.se/ka/hp/hp?hp_id=3013

TEACHING (other)

2000 Visiting Lecturer, MBA Program, Haas School of Business, University of California, Berkeley

2000 Visiting Lecturer, MBA Program, ESSEC, Paris

2001 Visiting Lecturer, School of Engineering, University of Cambridge, UK

2002-2004 Guest Lecturer, Logistics and Supply Chain (Graduate Course 1.270/ESD.273), MIT

2003-2004 Team Lecturer, Advanced Logistics and SCM Strategies, MIT-Singapore Alliance, MIT

2004 Guest Lecturer, Strategic Innovation, MIT Sloan Fellows Program, MIT Sloan School of Management

2005-2008 Visiting Lecturer, MBA Program, Trinity College, Dublin

2007-2008 Visiting Lecturer, Institut Supérieur de Logistique Industrielle, Bordeaux Ecole de Management, France

BIOMEDICAL RESEARCH PUBLICATIONS and PRESENTATIONS (MP)

Please review uploaded papers (serial numbers 05 through 09 on <http://groups.google.com/group/shoumen/files?hl=en>)

0. **Datta, S.** (1989) Transcriptional Activities of the 289 amino acid Adenovirus 2 E1A Protein in vitro (PhD thesis)

1. **Datta S**, Soong CJ, Wang DM, Harter ML. 1991. Purified Adenovirus 289R E1A Protein Stimulates Pol III Transcription in vitro by altering transcription factor III C. J. Virology 65: 5297-5304 (<http://jvi.asm.org/cgi/reprint/65/10/5297>)

2. **Datta S**, Magge S, Madison L, Jameson JL. 1992. Thyroid Hormone Receptor Mediates Transcriptional Activation and Repression of Different Promoters. Molecular Endocrinology 6: 815-825 (http://www.jamesonlab.northwestern.edu/Bibliography/Jameson_1992_MolEndo_6_815.pdf)

3. Putlitz J, **Datta S**, Madison L, Jameson JL. 1991. Human Thyroid Hormone Receptor Produced in Recombinant Baculovirus-infected Insect Cells. Biochem & Biophys Res Communications 175: 285-290 (http://www.jamesonlab.northwestern.edu/Bibliography/Jameson_1991_BBRC_175_285.pdf)

4. Chatterjee VKK, Nagaya T, **Datta S**, Madison L, Rentoumis A, Jameson JL. 1991. Thyroid Hormone Resistance Syndrome: Inhibition of Normal Receptor Function by Mutant Thyroid Hormone Receptors. J. of Clinical Investigation 87: 1977-1984 (http://www.jamesonlab.northwestern.edu/Bibliography/Jameson_1991_JCI_87_1977.pdf)

5. Rentoumis A, Chatterjee VKK, Madison L, **Datta S**, Gallagher G, DeGroot LJ, Jameson JL. 1990. Negative and Positive Transcriptional Regulation by Thyroid Hormone Receptor Isoforms. Molecular Endocrinology 4: 1522-1531 (http://www.jamesonlab.northwestern.edu/Bibliography/Jameson_1990_MolEndo_4_1522.pdf)

MP1. **Datta S**, Spangler R, Bruner M, Harter ML. Activation of viral and non-viral promoters by the Adenovirus 289R E1A protein in cell-free extracts. ICRF Tumor Virus Meeting, 1987. Cambridge, UK.

MP2. **Datta S**, Chatterjee P, Losada MC, Flint SJ, Harter ML. An E. coli produced E1A 289R protein and a synthetic E1A 49R peptide variably regulates Pol II and Pol III transcription in vitro. CSH Tumor Virus Meeting, 1988. Cold Spring Harbor Laboratory, NY.

MP3. **Datta S**, Wang DM, McGrath M, Westerdahl C, Harter ML. Bacterially produced E1A 289R activates Pol III transcription through TFIIC. ICRF Tumor Virus Meeting, 1989. Cambridge, UK.

MP4. Chatterjee VKK, Madison L, Rentoumis A, **Datta S**, Gallagher G, Jameson JL. Negative regulation by thyroid hormone receptors. American Association for Cancer Research, 1990. San Diego, CA.

MP5. Jameson JL, Nagaya T, Madison L, Chatterjee VKK, **Datta S**. Transcriptional activation and repression by thyroid hormone receptors. Abstract. ICN-UCLA Symposia, 1991. Keystone, CO.

MP6. Nagaya T, Chatterjee VKK, Madison L, **Datta S**, Rentoumis A, Jameson JL. Generalized Thyroid Hormone Resistance. MGH Symposium, 1991. Boston.

MP7. **Datta S**, Magge S, Putlitz J, Jameson JL. Transcriptional activation and repression by thyroid hormone receptors: Development of an in vitro transcription assay. MGH Symposium, 1991. Boston, MA.

MP8. **Datta S**, Magge S, Putlitz J, Jameson JL. Repression of a-TSH promoter activity by thyroid hormone receptor in an in vitro transcription assay. Endocrine Society Meetings, 1991. Washington, DC.

MP9. Nagaya T, **Datta S**, Madison L, Ahlquist JAO, Magge S, Hwang YT, Jameson JL. Structural determinants of thyroid receptor interactions with DNA. American Thyroid Association 1991. Boston.

Unpublished Ideas in Molecular Medicine (MIT Libraries <http://dspace.mit.edu/handle/1721.1/41898>)

Transcription Reconstitution *in vitro* (#63 <http://groups.google.com/group/shoumen/files?hl=en>)

Transcription Targets in Molecular Parasitology (#64 <http://groups.google.com/group/shoumen/files?hl=en>)

INVITED TALKS, ACADEMIC PARTICIPATION, GUEST LECTURES, INDUSTRY BRIEFINGS and MISCELLANEOUS

1976-1979 Volunteer with Mother Teresa, Missionaries of Charity, Calcutta

1980 National Post-Graduate Scholarship, University Grants Commission

1983 Fellowship, Association pour le Developpement de la Recherche sur le Cancer, Paris

1989-1991 Member, Educational Outreach Program, Harvard Medical School, Harvard University

1991-1992 Member, Pre-College Education Committee, Whitehead Institute, M I T

1991-1993 Mentor, Boston Latin School, Boston, Massachusetts

1992 Rowland Foundation Grant [1992-1998] Boston Latin School Foundation

1992-1993 Distinguished Speakers Series at Boston Latin School, Boston, Massachusetts

1994 Steering Committee, Science & Health Education Partnership, University of California (UCSF)

1994 Steering Committee, Biotechnology Alliance for Science Education, San Francisco

1994 Mentor, National Institutes of Health [Minority Research Initiative], UCSF

1995 Berkeley Pledge Steering Committee, Education Outreach, UC Berkeley

1996 National Net Day Organizing Committee

1996 Medal, Centenaire de la Decouverte de la Radioactivite, Paris, France

1996-2000 Eagle Alliance (<http://cnts.wpi.edu/ea/EagleBrochure.pdf>) Advisory Board

1999 Information Technology Workforce Project, Academia Romana, Bucharest, Romania

2000 Women in Discovery <http://tti.tamu.edu/conferences/wid/program.stm>

2000 Guest Lecturer, Haas School of Business, University of California at Berkeley

2000 Guest Lecturer, MBA Program, ESSEC, University of Paris, Paris, France

2001-2002 Technology Board Member, Auto ID Center, MIT

2001 Guest Lecturer, University of Cambridge School of Engineering, Cambridge, UK

2002-2004 Lecturer, Supply Chain Management Executive Programs, M I T Sloan School
<http://mitsloan.mit.edu/execed/epp/courses/supply-chain.php>

2002-2004 Guest Lecturer, Logistics & Supply Chain (Graduate Course # 1.270/ESD.273), M I T

2002 Keynote Address, Supply Chain Council (SCOR), Mexico City, Mexico

2002 Keynote Address, Supply Chain Summit, Montreux, Switzerland

2002 Executive Program (Future of SCM), Saint Gobain (www.saint-gobain.com)

2003 Chairman, Executive Advisory Board, Telecommunication Summits

2003 Keynote Address, IP Summit, The Hague, The Netherlands

2003 Plenary Address, LogiChem, Frankfurt, Germany

2003 Invited Address, Supply-Chain World of North America, Atlanta, Georgia, USA

2003 Chairman, European Supply Chain Summit, Luzern, Switzerland

2003 Session Chair & Invited Speaker, InterLog Conference, Dusseldorf, Germany

continued (INVITED TALKS)

2003 Chairman, Retail Revolution Europe Conference, The Hague, Netherlands

2003 Panelist, 3rd INTEL Executive Summit, San Francisco, California, USA

2003 Invited Seminar, GE Global Research, New York

2003 Chair and Keynote Speaker, Logicon Interactive Conference, Barcelona, Spain

2003 Invited Keynote Speaker, LogicaCMG Forum, Amsterdam, The Netherlands

2003 Invited Keynote Speaker, Forum on Automation Technologies, Government of Taiwan

2003-2004 Team Lecturer, MIT-Singapore Alliance (Advanced Logistics & SCM Strategies), MIT

2004 Board of Overseers, MIT-Chile Project (MIT alliance with Government of Valparaiso, Chile)

2004 Keynote Address, Electronics Manufacturers Association, San Jose, California

2004 Keynote Address, Govt of Finland Science and Technology Council, TEKES (Helsinki, Finland)

2004 Invited Panelist (AAIA), Technical Excellence in Aviation, Missiles and Space (TEAMS), Huntsville

2004 Invited Speaker, Redstone Arsenal-Huntsville Military Operations Research Section (ORSA), AL

2004 Invited Speaker, MIT-INFORMS Practice Conference, Cambridge, Massachusetts

2004 Invited Panelist, CIO Roundtable, Airline Transportation and Retail Industries, Dallas (TX, USA)

2004 Invited Speaker, National Economic and Social Development Board, Government of Thailand

2004 Invited Keynote Speaker, E-Business Forum, Ministry of Economic Affairs, Government of Taiwan

2004 Keynote Speaker, Fourth SCM Forum (Helsinki, Finland)

2004 Executive Workshop, KONE Corporation (Espoo, Finland)

2004 Keynote Speaker, 4th SCM CEO Summit, Hong Kong Article Nomenclature Association, GS1 Hong Kong

2004 Guest Speaker, MIT Sloan Fellows Program

2004 Executive Workshop, PoweredCom Inc (Tokyo, Japan)

2004 Advisor, TagArray Inc

2005 Keynote Speaker, ICT-RFID Summit, California Polytechnic State University, San Luis Obispo, California

2005 Invited Speaker, École des Hautes Etudes Commerciales of Montreal (HEC, Montreal)

2005 Keynote Speaker, World Customs Organization IT Conference, Istanbul (Turkey)

2005 UN-UNDP Mission to China (Invited Expert Group for South-South Technical Cooperation)

2005 Invited Member, President of Taiwan Science and Technology Advisory Group, Taiwan (ROC)

2005 Visiting Scholar, IIIS, Trinity College, Dublin (Ireland)

2005 Advisor, SandLinks Inc

2005 Seminar, Transparency in the Supply Chain, US Department of Homeland Security, Washington DC

2005 Invited Speaker and Co-Organiser, SCM Forum, Helsinki (Finland)

2005 Invited Speaker, Council of Members, World Customs Organization, Brussels (Belgium)

2005-2006 Advisor to the Secretary General, World Customs Organization, Brussels (Belgium)

continued**(INVITED TALKS)**

- 2006 Keynote Speaker, Chalmers University Executive Education Program, Gothenberg, Sweden
- 2006 Invited Speaker, Innovation in Logistics, Ministry of Transport and Communication, Helsinki, Finland
- 2006 Co-organizer, WCO Education Series in Globalisation and Interoperability, Brussels, Belgium
- 2006 Invited Speaker, 6th Agribusiness Summit, Lexington (Kentucky, USA)
- 2006 Member, Advisory Committee, California Agricultural Leadership Foundation (Sacramento, California)
- 2006 Advisor, State Board, California Department of Agriculture (Advisory Committee)
- 2006 Keynote Speaker, World Customs Organization IT Conference, Bangalore, India
- 2006 Co-Organiser, SCM Forum, Helsinki, Finland
- 2006 Invited Speaker, IIIS-Intel Conference, Trinity College Dublin, Ireland
- 2006 Lecturer, Dept of Technology Management & Economics, Chalmers University, Goteborg, Sweden
- 2006-2007 Co-Investigator, SMART Project (Funded by European Commission, EU), Trinity College Dublin, Ireland
- 2007 Visiting Lecturer, MBA Program, Trinity College Dublin, Ireland
- 2007 Invited Speaker, Indian Institute of Management, Ahmedabad, India
- 2007 Invited Keynote Speaker, ELTRUN Supply Chain Innovation and RFID Symposium, Athens, Greece
- 2007 Visiting Lecturer, Athens University of Economics and Business, Athens, Greece
- 2007 Invited Speaker and Research Paper, NOFOMA Annual Conference, Reykjavik, Iceland
- 2007 Guest Speaker, Educator's Day, University of Iceland and Reykjavik University, Iceland
- 2007 Advising, Pervasive Decisioning Systems Laboratory, GE Global Research, New York
- 2007 Invited Speaker & Visiting Faculty, Lappeenranta University of Technology (Kouvola Research Unit), Finland
- 2007 Visiting Lecturer, Institut Supérieur de Logistique Industrielle, Bordeaux Ecole de Management, France
- 2007 Seminar, US Department of Homeland Security, Washington DC
- 2008 Member, Editorial Board, International Journal of Electronic Business Management (IJEEM)
- 2008 Invited Speaker, DRIVE for Growth Conference (Killarney, Ireland)
- 2008- Research Advising and Consulting, ITT (Institute of Technology, Tralee, Ireland)
- 2008 Co-Founder, Centre for Innovation in Distributed Systems (CIDS) at ITT (www.cids.ie)
- 2008 Co-Organizer, *Is Connecting Bits to Atoms Sufficient?* Centre for Innovation in Distributed Systems, ITT
- 2008 Visiting Lecturer, Institut Supérieur de Logistique Industrielle, Bordeaux Ecole de Management, France
- 2008 Visiting Lecturer, Executive MBA Program, Beijing Jiao Tong University (Beijing, China)
- 2008 Visiting Lecturer in International Business, School of Business Studies, Trinity College Dublin, Ireland
- 2008 Co-Organizer, *Is Forecasting Necessary?* Centre for Innovation in Distributed Systems www.cids.ie

PARTIAL LIST of ACTIVITIES in PRE-COLLEGE PUBLIC EDUCATION in CALIFORNIA [1995 - 1998]

[1] Helped plan Thurgood Marshall Academic HS with mandatory four year requirements in language, science and mathematics. An instructional success at this school was the cover story of US News & World Report [2nd December 1996] and this pre-engineering program segued to evolve as the first hands-on Cisco Networking Academy, that became a national and international model for IT education (www.lgca.org/ciscoacademy/Documentation/netacad.pdf). Also review:

www.lgca.org/ciscoacademy/Documentation/netacad.pdf
www.convergemag.com/Publications/CNVGOct98/innovpartnering/innovpartnering.shtm
www.cisco.com/warp/public/779/edu/media/pdf/cisco_paper.pdf
www.georgeharveycollegiate.ca/depts/cisco.htm
www.theatlantic.com/issues/97jul/computer.htm
www.edbriefs.com/usa96-97/usa12.02.96.html
www.ac.wvu.edu/~spleena/The%20computer%20Delusions.htm
www.mhs.mrp.k12.ca.us/academies/cisco/overview.htm
www.cnn.com/TECH/computing/9902/25/schoolwork.idg/
<http://engineering.dartmouth.edu/~teps/images/NEWSLETTER.3.1.pdf>

[2] Instituted mentorship and internship program for students and teachers with UC Berkeley and Stanford University (www.jozie.net/JF/chemclass/Chemistry/curielec.htm). Recruited highly qualified teachers in language arts, mathematics, science and technology to uphold academic excellence. Partial funding from Silicon Graphics. Unique professional development partnership to enable teachers to take courses for credit at UC Berkeley at no cost to teacher or SFUSD. Josephine Miles Fellowship founded and sponsored by Carol Christ, Vice-Chancellor and Provost, UC Berkeley. Funding for teachers to attend UC Berkeley.

[3] Pacific Bell upgraded network infrastructure [about \$2.5 million]. Detwiler Foundation donated 1000 computers for home computer program. Established joint venture with UC Berkeley Interactive University Program to benefit students and teachers from UC resources. Received NTIA-TIIAP award [\$650,000] from US Department of Commerce for Interactive University Program with UC Berkeley.

[4] Worked with UC Berkeley Chancellor Chang Lin Tien and Vice Chancellor & Provost Carol Christ [see news] to shape Berkeley Pledge activities to help Bay Area students (SFUSD) to gain broader access to advanced academic opportunities.

[5] Nominated by US Department of Commerce and Information Technology Association of America to Chair Task Force. 1997 National Information Technology Convocation. Strategic planning for IT skills and economic impact of IT workforce.

[6] Formed **ASSOCIATED SCIENTISTS** (Founder & President) that catalyzed the change of K-12 science standards for State of California. These standards received a perfect score from the American Federation of Teachers [AFT] in their 1998 report **Making Standards Matter** [www.aft.org]. Review standards by ASSOCIATED SCIENTISTS for California (www.cde.ca.gov/standards/science/). Also see #25 to #37 on <http://groups.google.com/group/shoumen/files?hl=en> and CALIFORNIA STANDARDS in MATHS and SCIENCE (see 66, 67 & 68 <http://groups.google.com/group/shoumen/files?hl=en>)

<http://www.edexcellence.net/standards/science.html>
http://www.house.gov/science/metzenberg_07-23.htm
<http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1998/01/29/MN13700.DTL>
<http://www.mathematicallycorrect.com/stanmetz.htm>
<http://www.mathematicallycorrect.com/science.htm#latimes>
<http://www.mathematicallycorrect.com/science.htm#ibd>
<http://www.mathematicallycorrect.com/science.htm#mckeown>
<http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/11/24/ED28030.DTL>
<http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/12/02/ED9488.DTL>
<http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/12/02/MN36524.DTL>
<http://www.mathematicallycorrect.com/sjmn.htm>
<http://www.mathematicallycorrect.com/scistd.htm>
www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1998/07/05/ED95249.DTL&type=printable
http://coke.physics.ucla.edu/laptag/Standards/fake_endorsements.html
<http://sacramento.bizjournals.com/sacramento/stories/1998/10/12/focus2.html>

Seaborg, Glenn T (2001) *Adventures in The Atomic Age*, pages 293-294 (ISBN 0-374-29991-9)

Seaborg, Glenn T (Archives) Library of Congress **Box 276** <http://hdl.loc.gov/loc.mss/eadmss.ms006039>

SELECT LINKS TO ARCHIVED ARTICLES (relevant to Shoumen Datta but mostly in the last Century)

1. http://ilp.mit.edu/ilp/Members/MITReport/MITR_Feb2003.pdf
2. <http://akseli.tekes.fi/Resource.phx/tuma/elo/en/datta220502engl.htx>
3. <http://www.ucsf.edu/sep/newslett/news25.pdf>
4. http://www.supplychainworld.org/la2002/la_2002_tracks.htm
5. http://web.mit.edu/civenv/html/people/postdocs_visitors.html
6. <http://www.ita.org/workforce/studies/task.htm>
7. <http://cba.mit.edu/events/02.07.IP/participants.html>
8. <http://web.wi.mit.edu/young/pub/personnel.html>
9. <http://eaglealliance.tamu.edu/structure/newstructure.htm>
10. <http://www.math.nyu.edu/mfdd/braams/links/imp.html>
11. <http://teachmath.net/MathFads.html>
12. <http://www.sfusd.k12.ca.us/news/curie.html>
13. <http://www.thelowell.org/breaking/news/oct4-languageLab.html>
14. <http://www.wccta.net/gallery/fwr/loop/9605/l6052101.htm>
15. <http://www.lbl.gov/Publications/Currents/Archive/Feb-9-1996.html>
16. <http://sfchildnet.org/statistics/other.html>
17. <http://www.eetimes.com/news/97/974news/commerce.html>
18. <http://trinity.tamu.edu/links/ASEE%202001%20Paper%20submitted%201-8-01.doc>
19. <http://www.youngmath.org/archive/V4/vol4.12.html>
20. www.physics.uiuc.edu/General_Info/ysn/httpd/htdocs/ysnarchive/issuefiles/authorlist.html
21. <http://www.internetwk.com/cwil/pages/698exec2.html>
22. <http://ans.ep.wisc.edu/pipermail/rad-sci-l/2001-April/000317.html>
23. <http://www.vanderbilt.edu/radsafe/0001/msg00342.html>
24. <http://www.mathematicallycorrect.com/links.htm>
25. <http://www.mathematicallycorrect.com/impsf.htm>
26. <http://www.math.nyu.edu/mfdd/braams/links/imp.html>
27. <http://www.cnn.com/TECH/computing/9902/25/schoolwork.idg/>
28. <http://www.ucsf.sep/newslett/news22.pdf>
29. <http://www.ita.org/workforce/studies/math.html>
30. <http://www.ita.org/workforce/studies/task.html>
31. <http://www.techweb.com/wire/news/1997/10/1002techjobs.html>
32. <http://washington.bizjournals.com/washington/stories/1997/10/06/editorial3.html>
33. http://www.findarticles.com/cf_dls/m0FWK/n4_v19/21260637/p1/article.jhtml
34. <http://www.lbl.gov/Education/Genome/directory.html>
35. http://www.supply-chain.org/News/Newsletters/10-02/SCW_LA_conference.htm
36. <http://sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1995/12/25/MN23732.DTL>
37. <http://sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1996/01/02/ED31620.DTL>
38. <http://sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1996/02/05/MN46432.DTL>
39. <http://sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/07/04/ED29841.DTL>
40. <http://sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/09/06/MN12794.DTL>
41. <http://www.cde.ca.gov/standards/science/>
42. http://www.essec.fr/eme/us/emba/docs/Faculty_List_2002-03.pdf
43. <http://www.dal.ca/~ktrust/lectures/lec98/98.pdf>
44. <http://www.dal.ca/~ktrust/lectures/lec98/sources.htm>
45. <http://www-hoover.stanford.edu/publications/books/reform.html>
46. <http://www-hoover.stanford.edu/publications/books/fulltext/schoolreform/205.pdf>
47. <http://www-hoover.stanford.edu/publications/books/fulltext/schoolreform/413.pdf>
48. <http://www.edletter.org/current/index.shtml>
49. <http://www.edletter.org/past/issues/1997-nd/technology.shtml>
50. <http://www.lgca.org/ciscoacademy/Documentation/netacad.pdf>
51. http://www.house.gov/science/metzenberg_07-23.htm
52. <http://www.mathematicallycorrect.com/science.htm#latimes>
53. <http://www.mathematicallycorrect.com/science.htm#ibd>
54. <http://www.mathematicallycorrect.com/science.htm#mckeown>
55. <http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/11/24/ED28030.DTL>

SELECT LINKS TO ARCHIVED ARTICLES (CONTINUED)

56. www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/12/02/ED9488.DTL
57. <http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1997/12/02/MN36524.DTL>
58. <http://www.mathematicallycorrect.com/sjmn.htm>
59. <http://www.mathematicallycorrect.com/scistd.htm>
60. www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/1998/07/05/ED95249.DTL&type=printable
61. <http://sacramento.bizjournals.com/sacramento/stories/1998/10/12/focus2.html>
62. <http://www.nsf.gov/od/lpa/congress/105/hsssi.htm>
63. http://www.dac.neu.edu/physics/a.cromer/standards_update.html
64. <http://www.cims.nyu.edu/~braams/nychold/>
65. <http://www.jozie.net/JF/chemclass/Chemistry/curielec.htm>
66. <http://www.edexcellence.net/standards/science.html>
67. <http://wid.tamu.edu/travel/opening.html>
68. <http://wid.tamu.edu/travel/Helen%20Langevin%20Joliot%20speaks%20to%20nuen%20students.htm>
69. <http://best.me.berkeley.edu/~aagogino/e24/curie.html>
70. <http://sundial.csun.edu/sun/97s/021797ne3.htm>
71. http://www.northwestern.edu/univ-relations/media/news-releases/*_archives96-97/*_events/curie.html
72. www.northwestern.edu/univ-relations/media/observer/1996-97observer/science-medicine/curie-scimed.html
73. <http://www.rtis.com/touchstone/april00/09CURIE.HTM>
74. <http://tti.tamu.edu/conferences/wid/program.stm>
75. <http://tti.tamu.edu/conferences/wid/speakers.stm>
76. http://www.oakridger.com/stories/032901/new_0329010021.html
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78. <http://www.me.gatech.edu/me/curie/legacy.html>
79. <http://cnts.wpi.edu/ea/EagleBrochure.pdf>
80. <http://www-library.lbl.gov/photo/gallery/clients/Seaborg/index.html>
81. <http://www.wkap.nl/prod/b/1-4020-7812-9?a=1>
82. http://www.supplychainforum.com/shoumen_datta.htm
83. http://proj.moeaidb.gov.tw/iaeb/htm/01-news/news_speaker.htm
84. <http://www.cast.itri.org.tw/enews/enews9308/massage.htm>
85. http://www.st-pioneer.org.tw/modules.php?name=St_Seminar&pa=Show_Seminar&tid=280
86. http://proj.moeaidb.gov.tw/iaeb/htm/03-fabricant/event_1.htm (see #92)
87. http://www.epoch.org.tw/activity_2003.php
88. <http://www.cmgt.ntut.edu.tw/cimct/news.htm>
89. [#9](http://adc.cm.nsysu.edu.tw/seminar_web/eng/speech1.asp?speech_year=92&speech_semester=Fall)
90. http://www.eantaiwan.org.tw/2003-12_4.htm
91. <http://groups.google.com/group/shoumen/files?hl=en>

<http://supplychain.mit.edu/shoumen>

<http://dspace.mit.edu/handle/1721.1/41894>

<http://supplychain.mit.edu/about/datta.aspx>

<http://supplychain.mit.edu/library/sd-papers.aspx>

<http://groups.google.com/group/shoumen/files?hl=en>



Dr Shoumen Palit Austin Datta
Massachusetts Institute of Technology
www.mit.edu

Dr Datta is a scientist in Engineering Systems Division and the Department of Civil and Environmental Engineering at the School of Engineering, MIT. He is also the Co-founder and currently the Research Director (formerly Executive Director) of the MIT Forum for Supply Chain Innovation, which is a joint endeavour at MIT between faculty at the School of Engineering and the MIT Sloan School of Management. The MIT Forum, since 2001, is a global consortium of industry, governments, organizations and academia. Dr Datta acts in a research and innovation strategic advisory capacity to major industries, governments and global agencies. He has been a visiting lecturer at Trinity College in Dublin, HEC in Montreal, ESSEC Business School in Paris and Chalmers University in Goteborg, Sweden. He is a past-member of the Technology Board of the Auto ID Center at MIT and formerly the Director for Process Systems and Biomedical Applications at the MIT Data Center which aims to address semantic systems, interoperability and effective use of high volume data acquired through automatic identification technologies (for example, radio frequency identification or RFID). Dr Datta is interested to explore innovative concepts, tools, technologies and standards, the confluence of which may impact decision systems in fields as diverse as medicine, healthcare, security and any time oriented enterprise (TOE). Such convergence may shape the evolution of interoperable "intelligent" decision support systems. His current interests include (0) use of advances in econometrics to improve forecasting accuracy and risk management in a broad spectrum of decision support systems in business operations, supply chain and security planning, (1) next generation auto-id tools such as ultrawideband (UWB) and software defined radio (SDR) that are frequency agnostic but multi-standard compliant, (2) contextual numbering of numbers and semantic convergence through use of IPv6, (3) systems interoperability using semantic tools integrated with Web X.0 and (SOA) service oriented architecture, (4) use of (nano) sensors in healthcare for better management and to reduce service cost, (5) energy supply chain with focus on biofuels, (6) global educational programs and executive training to stimulate convergence of disciplines in order to catalyse innovation. In 2008, he co-founded Centre for Innovation in Distributed Systems (www.cids.ie) to further convergence of ideas. Please see MIT Libraries <http://dspace.mit.edu/handle/1721.1/41896/browse-date> Prior to developing his interest in innovative engineering and systems, such as supply chain management, he was involved for five years with global industry (USA, Europe, Japan), information technology and public education in US Federal Government and State of California. Dr Datta earned his PhD in molecular biology, biochemistry and genetics from Rutgers University School of Medicine (NJ) in collaboration with Department of Molecular Biology at Princeton University (NJ). He has spent 15 years as a biomedical research scientist and instructor in molecular medicine with a focus on transcriptional regulation in DNA tumour viruses, yeast genetics, neuro-endocrine cancers and the human genome project. He has been a student and/or researcher and/or scientist and/or instructor at various institutions including Presidency College, University of Calcutta, University of Cambridge, Université de Paris VII, University of Pittsburgh, Princeton University, Harvard University, Harvard Medical School, Massachusetts General Hospital (Fellow in Medicine), Massachusetts Institute of Technology (Whitehead Institute and Human Genome Center at MIT), University of California School of Medicine at San Francisco and University of California at Berkeley. He is concerned about and involved in K-12 public education activities in Cambridge-Boston community and with outreach efforts at the Massachusetts Institute of Technology (MIT) program for public K-12 schools.