

Curriculum Vita

Ladimer Stadner Nagurney

University: Department of Electrical Engineering
College of Engineering, Technology and
Architecture
University of Hartford
West Hartford, CT 06117
860-768-4866
860-768-5073 (fax)
email: nagurney@hartford.edu

Home: 73 Blackberry Lane
Amherst, MA 01002

413-549-6984

Education

June 1986 Ph.D., Brown University, Providence, RI
Thesis Title: "Measurement of the Density of Dilute Solutions of He³ in He⁴"

June 1974 Sc.M., Brown University, Providence, RI

June 1972 B.S. (with Honors), Lafayette College, Easton, PA

Professional Registration

P.E., State of Connecticut, License Number 15527

Employment

September 1986 to present
Associate Professor of Electrical Engineering (with Tenure since 9/92)
Assistant Professor of Electrical Engineering
Department of Electrical and Computer Engineering
University of Hartford, West Hartford, CT

March 1995 - December 1998
Consortium Director - Connecticut Space Grant College Consortium

September 1983 to August 1986
Associate Professor of Electronic Technology
Springfield Technical Community College, Springfield, MA

September 1982 to June 1983
Instructor of Computer Science (PT) - Rhode Island College, Providence, RI

September 1979 to May 1980
Special Instructor of Physics - University of Rhode Island, Kingston, RI

September 1972 to August 1981
Teaching and Research Assistant - Brown University, Providence, RI

Additional Appointments

November 2001 – present

Center Associate and Webmaster - Virtual Center for Supernetworks
Isenberg School of Management
University of Massachusetts, Amherst, MA

September 1992 to May 1994

Member Faculty Committee on Mathematics, Science, and Technology
Charter Oak College, Farmington, CT

Visiting Appointments

July 2002 to August 2002

Visiting Associate Professor
Department of Electrical and Computer Engineering
University of Massachusetts, Amherst, MA

March 2002 to July 2002

Visiting Professor
Institute of Computer Science
University of Innsbruck, Innsbruck, Austria

September 2001 to February 2002

Visiting Associate Professor
Department of Electrical and Computer Engineering
University of Massachusetts, Amherst, MA

June 2001 to August 2001

Visiting Scientist
Electronic System Design Laboratory
Royal Institute of Technology (KTH), Stockholm, Sweden

June 1999 to August 1999

Visiting Scientist
Electronic System Design Laboratory
Royal Institute of Technology (KTH), Stockholm, Sweden

June 1996 to December 1996

Visiting Professor
Electronic System Design Laboratory
Royal Institute of Technology (KTH), Stockholm, Sweden

September 1993 to August 1994

Visiting Associate Professor
Department of Electrical and Computer Engineering,
University of Massachusetts, Amherst, MA

July 1993 to August 1993

Visiting Scientist
Communications Projects Branch, Space Electronics Division
NASA Lewis Research Center, Cleveland, OH

February 1992 to August 1992

Visiting Scientist

Laboratory for Engineering Man-Machine Systems
Division of Engineering
Brown University, Providence, RI

May 1992 to August 1992

JOVE Fellow

Communications Projects Branch, Space Electronics Division
NASA Lewis Research Center, Cleveland, OH

Grants

Packet Communication, Intel Corporation, 1985

Development of a Multi-Emission Frequency Domain Modulator
Coffin Grant, University of Hartford, March 1988

UHF, SHF, and Spread Spectrum Communication
Coffin Grant, University of Hartford, May 1990

Laboratory Automation
Academic Computing Advisory Committee, University of Hartford, May 1990

Travel grant for National Communications Forum,
National Electronics Consortium, October 1990

JOVE Research Grant,
NASA, June 1992 - June 1996 \$110,000

CT Space Grant College Consortium
NASA, March 1, 1995 - February 28, 2000 - \$850,000 (plus supplements)

EPSCoR Travel Grant, NASA, May 1, 1995 - May 31, 1996, \$50,000

Telecommunications and Network Engineering Technology Education Project,
NSF, October 1996 - December 1998, (with S.T.C.C. and University of
Connecticut) Co-PI

CT NASA Educational Collaborative: Satellite ERC Kickoff, May 1998- June 1999
Aerospace States Association, \$10,000

Integrating Engineering Design with Humanities, Social Sciences, Science, and
Mathematics, NSF, November 1, 1998 - October 31, 2001, \$600,000 (Co-PI)

NASA EPSCoR Preparation Grant, June 1, 1999 - May 31, 2000 \$4,500

NASA EPSCoR Preparation Grant (Year 2), June 1, 2000 - May 31, 2001 \$4,500

The Technology Innovation Program, Faculty Center for Learning Development,
University of Hartford, 2003-2004 (Part of a Grant to the University from Davis
Educational Foundation)

Laser Manufacturing, Connecticut Center for Advanced Technology through

National Aerospace Leadership Center, \$1,030,000, September 2005 - present
(Co-PI)

International Travel Grant, University of Hartford, Office of the Provost
Academic Year 2008-2009, \$3,000

Honors and Awards

Barge Mathematical Prize, Lafayette College, 1970
W.W. Eddy Fellow of the A.A.U.P., 1972
NATO Fellow at University of St. Andrews, Scotland, 1974
Society of Sigma Xi, Full Membership, 1979
Eta Kappa Nu, Elected to Professional Membership, December 1989
Senior Membership in IEEE, August 1991

Courses Taught at the University of Hartford

ECE 211 Electric Circuits Analysis I (with lab)
ECE 231 Digital System Logic (with lab)
ECE 360 Circuits and Electronics (with lab)
ECE 335 Digital Computer Organization
ECE 336 Digital Devices Laboratory
ECE 341 Discrete and Continuous Systems
ECE 351 Electromagnetics
ECE 360 Circuits and Electronics (with lab)
ECE 361 Electronics Fundamentals (with lab)
ECE 362 Electronics Circuits (with lab)
ECE 382 Design I - Professional Practice
ECE 423 Communication Engineering
ECE 424 Communication System Engineering
ECE 440/441 Digital Signal Processing (with lab)
ECE 463 Electronic Devices and Applications
ECE 483 Design II (Senior Capstone Design)
ECE 521 Communication Theory
ECE 591 Topics in Wireless Communications
ECE 640 Digital Signal Processing
BE 401 Biomedical Instrumentation
ES 142 Engineering Design
ES 115 Engineering Computer Applications
ES 342 Professional Practice

Courses taught at the University of Massachusetts at Amherst

ECE 565 Communication Engineering I
ECE 566 Communication Engineering II

Courses taught at the Royal Institute of Technology (KTH)

Topics in Personal Communications

Publications

Measurement of Density of He³-He⁴ Solutions, BAPS 20, 617 (1975), (with H.N. Hanson, J.E.Berthold and G. Seidel)

A BCD Code Conversion, EDN 23,19,112 (October 20, 1978)

Positive Ions in Cryogenic He⁴ Vapor, Proceedings of the 12th International Symposium on Rarefied Gas Dynamics, Progress in Astronautics and Aeronautics Vol. 74, p.1145 July 1980, (with G. Akinci and J.A. Northby)

Packet Networks using the AX.25 Protocol: Tools for Teaching, Proceedings of the Second Eastern Small College Computer Conference, p.79 October, 1986

Using Spread Sheets for Engineering Design - An Example of "Cheap CAD", Proceedings of the Third Eastern Small College Computing Conference, p.35, October 1987.

A General Purpose Facility for Electromechanical Testing, Proceedings of ASYST'88 Conference, p.181, October 1988 (with G. A. Baker)

A Cordless Drill Life Test System using ASYST, Proceedings of ASYST'88 Conference, p.195, October 1988 (with G. A. Baker)

Using A Spreadsheet in Receiver Design, ASEE Journal of Computers in Engineering CoED, Vol. VIII, #4, p.51, October 1988

Developing an Advanced Laboratory Course in Computer Hardware, Journal of Computing in Small Colleges, Vol. 4, #2, p.141, October 1988

A Multi-Emission Frequency Domain Modulator, Proceedings 40th IEEE-VTS, IEEE, New York, 1990, p.71.

A Graduated Approach to Computer-Aided Design and Analysis, Proceeding F.I.E.'90, Leuchtturm-Verlag, Munich, 1990, p.522

Using Optimization Modeling Software, Journal of Computing in Small Colleges, Vol. 6, #2, p.55, 1990

Why Teach Engineering Design? in Teaching Design in Electrical Engineering, John G. Webster, ed., Educational Activities Board, IEEE, 1990, p.1, (with J.L. Mason, F. Mesa, R. Pallas-Areny, and E. Salt)

Product Development - A Classical Design Problem, in Teaching Design in Electrical Engineering, John G. Webster, ed., Educational Activities Board, IEEE, 1990, p.11 (with J.L. Mason, F. Mesa, R. Pallas-Areny, and E. Salt)

Intra-building Digital Communication at 460 and 1300 MHz, Proceedings 41st IEEE- VTC, IEEE, NY, 1991, p.209

Networked Circuits/Electronics Laboratories, Proceedings FIE 1991, IEEE, NY, 1991, p.360

Simulation of Socio-Economic Systems Using Electronic Circuit Analysis Packages, Proceedings of the 23rd Modeling and Simulation Conference, Pittsburgh, PA, May 1992, p. 731

Simulation of Dynamic Adjustment Processes for Network Equilibrium Problems using Electronic Circuit Analysis Software, Proceedings 1992 IEEE Systems, Man, and Cybernetics Conference, Chicago, October 1992, p. 848

Hardware Description Languages, Journal of Computing in Small Colleges, Vol. 8, #2, 1992, p 86

The Computer as the Rest of the System, Proceedings FIE 1992, Nashville, TN, November 1992, p. 850

Energy Efficient Pilot Lamp, in Electrical Engineering Design Compendium, Robert L. McConnell, Wils L. Cooley, and Nigel F. Middleton, eds., Addison Wesley, 1993, (Problem 8.03, p. 226)

Suppression and IMD Generation in a Hard Limiter Transponder, Proceedings of 1993 VTC, IEEE, May 1993

Signal Suppression, IMD Generation and Phase Noise Analysis for Small Terminals, Proceedings Malaysian International Conference on Communications, IEEE, Kuala Lumpur, November 1993

Phase Noise in Low Bit Rate Transportable Ka Band Satellite Terminals, Proceedings VTC'94, IEEE, Stockholm, Sweden, June 1994

Impact on JOVE on Senior Design Projects, Proceedings FIE'94, IEEE, San Jose, November 1994

Personal and Wireless Communications and the BSEE Curriculum, Proceedings FIE 1995, Atlanta, November 1995

Telecommunications Engineering and Technology: The Final Two Years, Proceedings FIE 1998, November 1998

The Virtual Prototyping of an AM Chip Using Grammar Based Approach, Proceedings of NORCHIP '99, Oslo, Norway, November 8-9, 1999. pp 283-290 (with Abhijit K. Deb, Ahmed Hemani, and Adam Postula)

A Junior Course in Engineering Design and Society, Proceedings of FIE 2000, IEEE, Kansas City, October 2000 (with R. Adrezin and S. Keshawarz)

Integrating Engineering Design with Humanities, Sciences, and Social Sciences using Integrative Learning Blocks, ASEE National Conference & Exposition, Albuquerque, NM, July, 2001 (with D. Shetty, D. Leone, H. Alnajjar, S. Keshawarz, and L. Smith)

Teaching Introductory Programming for Engineers in an Interactive Classroom, Proceedings FIE 2001, Reno, NV, October 2001

Integrated Engineering Curriculum, ASEE Zone 1 Meeting Proceedings, ASME Zone 1 Meeting, West Point, NY, April 5-6, 2002 (with D. Shetty, D. Leone, H. Alnajjar, S. Keshawarz, and L. Smith)

Multimedia Demonstrations and Exercises for Communication Engineering, Proceedings FIE 2002, IEEE, Boston, MA, November 2002

A Junior Course in Electrical Engineering Practice to Prepare Students for the Senior Design Experience, Proceedings FIE 2003, IEEE, Boulder, CO, 2003

WIP: Remote Lecture Demonstrations and Experiments for Communication Engineering, Proceedings FIE 2004, IEEE, Savannah, GA, 004

A Course in Professional Practice for Juniors, Proceedings FIE 2005, IEEE, Indianapolis, IN, 2005 (with Ron Adrezin)

Integrating the RF Characteristics of RFID into Undergraduate EE Courses Proceedings FIE 2006, IEEE, San Diego, CA, 2006

The Evolution of a Bioinstrumentation Course, Proceedings FIE 2007 IEEE Milwaukee, WI, 2007

Work in Progress: The Five Paragraph Essay in Junior/Senior Electrical Engineering Courses, to appear in Proceedings of FIE 2008, October 2008

Practitioner-Oriented Publications

ROM to Input Port, Kilobaud/Microcomputing, September, 1982

Review of "Land Mobile Communications Engineering," QEX, September, 1984

Review of "Digital Signal Processing in Communication Systems," QEX, December 1994

Other Publications

Buying Trains Around the World, Model Railroader February 1990, p.136

Amazing Eyeball QSO, in "10 Best" Contest Results: My Best Eyeball QSO, QST, Volume 91, Number 3, p.47 (March 2007)

Conference Presentations

Execution Error Processing, 1971 Spring Joint Computer Conference, Atlantic City, NJ.

A Simple NMR Spectrometer, Society of Physics Students, Williamsport, PA, 1972

Spreadsheets in Engineering Design, Conference on Academic Computing and Liberal Arts Colleges: The University Connection, Skidmore College, June 1987

Computer Aided Design/Analysis in Communication Engineering/RF Design Courses, New England Section ASEE, West Hartford, CT, October 1988

Using Optimization Modelling Software for Engineering Problems, New England Section ASEE, Burlington, VT, October 1989

Interactions Among Harmonically Related Vertical Antennas in the Mobile Environment, URSI-90, Dallas, TX, May 1990 (with W.A. Shaheen)

Dynamic Adjustment Processes of Network Equilibrium Problems, ANZRSA Meeting, University College, Ballarat, Australia, December 1992

Adventures in Mobile Multimedia, University of Hartford, March 1997

Use of Cell Site Design to Introduce Students to a Broad Range of Issues Regarding Design, National Center for Telecommunications Technologies, ICT Curriculum Workshop, Springfield, MA, July 10-13, 2006

Environmental Impact Assessment of Transportation Networks with Degradable Links in an Era of Climate, Third International Conference on Funding Transportation Infrastructure Change, Paris, France, June 19-20, 2008 (with Anna Nagurney and Qiang "Patrick" Qiang)

Technical Reports

A General Purpose Facility for Electro-mechanical Testing, Engineering Applications Center of the University of Hartford Report EAC-8806, October 11, 1988 (with G. A. Baker)

A Cordless Drill Life Test System Using ASYST, Engineering Applications Center of the University of Hartford Report EAC-8807, October 11, 1988 (with G. A. Baker)

Wiremold Corporation Roll Development Project Camber Control System, Engineering Applications Center of the University of Hartford Report EAC-8910, July 27, 1989 (with E.L. Friedman)

Professional Societies

IEEE (Senior Member)

IEEE Communications Society

IEEE Computer Society

IEEE Education Society

IEEE Microwave Theory and Techniques Society

IEEE Vehicular Technology Society

Radio Club of America

American Physical Society

ASEE

Society of Sigma Xi (Treasurer - University of Hartford Chapter 2003- present)

Shevchenko Scientific Society

Ukrainian American Association of University Professors

Consulting

Dyno Nobel, Simsbury, CT
Stanley Tools, Division of Stanley Works, New Britain, CT
The Wiremold Company, Newington, CT
NEPEX, New England Electric System, Southington, CT
Charter Oak College, Farmington, CT
Educational Testing Service, Princeton, NJ

Seminars

Density of Dilute Solutions of He3 in He4, Department of Physics, University of Rhode Island, February 1986

Spreadsheets in Science and Engineering, Society of Sigma Xi, University of Hartford Chapter, February 1988

Data Acquisition in the Development and Production of Battery Powered Products, Department of Engineering Transfer, Springfield Technical Community College, November 1989

Basic TeX and LaTeX, Computer Center Minicourse, February 1992

Phase Noise in Small Terminals, NASA Lewis Research Center, August 1993

Adventures in Mobile Multimedia, University of Hartford, March 1997

Digital Generation of AM Modulation, Western New England College, February 2000

Engineering Education, Department of Engineering Fundamentals, Virginia Polytechnic Institute and State University, May 2004

Workshop Attendance

ASEE Continuing Education for Faculty, Computer Organization and Design, University of Illinois, Urbana/Champaign July-August 1987

ASEE Continuing Education for Faculty, Power Electronics, MIT, Cambridge, MA, July 1990

Teaching Design in Electrical Engineering, University of Wisconsin, Madison, August 1990

Electronic Design Automation, University of Notre Dame, Notre Dame, IN, July 1991

NAPLA Pre-Law Advisors Workshop. University of Pennsylvania, Philadelphia, PA, June 2007

Proposal Reviewing

US Department of Education Minority Science Improvement Program 2003
US Department of Education Graduate Assistance for National Needs 2004
US Department of Education Minority Science Improvement Program 2004
US Department of Education Graduate Assistance for National Needs 2006
US Department of Education Graduate Assistance for National Needs 2007
US Department of Education Graduate Assistance for National Needs 2007
US Department of Education FIPSE - Atlantis Program 2008

Refereeing

IEEE Transactions on Vehicular Technology
IEEE Transactions on Education
Networks
ASEE Annual Meeting 2000, 2001, 2004, 2007, 2008
FIE Conferences 1995, 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2005,
2006, 2007, 2008
NESCO 2002

Manuscript Reviewing

Macmillan Publishing
Oxford University Press
Prentice Hall
Scott Jones Publishers

Test Reviewing

Member of the Educational Testing Service Review Reviewing Committee for the DANTE Exam in Communications Engineering 1991

NCEES P.E. Exam Problem, May 1991

Faculty Committees

Advisory Committee on Academic Computing, 1988 - 1993

Graduate Council, 1990 - 1994

University Judicial Board, 1994 - 2003

Faculty Senate, 1994 - 1996

Promotion and Tenure Appeals Committee
Member appointed by the University President
1997, 2001

University Assessment Committee, 1999 - 2000

University Pre-law Committee, 2003- present

University Committee on Standards for Online Scholarship 2004 - 2005

Committee on Academic Standards and Procedures, 1999 - 2000

Senate Computer Committee, 2003 - 2005

Chief Marshall, College of Engineering 2000 – present

College of Engineering - Commencement Committee, 2000 - present

College of Engineering P&T Committee, 2002-2003, 2003-2004, 2004-2008

College of Engineering P&T Committee Chair 2005-2006 and 2007-2008

College of Engineering, Technology, and Architecture
Mission, Vision, and Strategic Plan Committee, 2003 - 2004

College of Engineering, Technology and Architecture
Teaching Load Committee, 2003 - present

School of Engineering - Freshman Course Redesign Committee, 2004 - 2006

College of Engineering, Computer Committee, 1986 - 1993

College of Engineering, Future Curriculum Committee, 1990 - 1992

College of Engineering, Freshman Computing Committee, 1992 - 1993

Electrical Engineering Department, Curriculum Committee, 1991 - present

Audio Engineering Technology Faculty Search, Chair 2005-2006

Communications Engineering Faculty Search Committee, 2005-2006

Electrical and Computer Engineering Faculty Search Committee, 2006-2007

Mechanical Engineering (Acoustics) Faculty Search Committee, 2006-2007

Student Activities

IEEE Branch Counselor, September 1990 - 1993

Eta Kappa Nu Chapter Advisor, 1994 - present

Trustee, University of Hartford Amateur Radio Club License, WA1OBY

Discussion Leader and Orientation Advisor, Summers: 1989 - 1995, 1998 -
2001, 2003-2005, 2007