

CURRICULUM VITAE

Revised, February 18, 2019

NAME

David P. Shattuck

BIRTHDATE

February 19, 1954

EDUCATION

Ph.D. Duke University 1982 Biomedical Engineering
Durham, NC (Acoustic Imaging)

B.S. SUNY at Buffalo 1976 Engineering Science
Buffalo, NY

Honors: B.S. granted Magna Cum Laude, Dean's List
New York State Regents Scholarship
National Merit Scholarship
National Institute of Health Traineeship
Honorary Member Duke University BME Society

PROFESSIONAL EXPERIENCE

1988-pres. Associate Professor, Department of Electrical and Computer Engineering,
University of Houston, Houston, Texas

2003-pres. Honors College Faculty, University of Houston, Houston, Texas

2016-pres. Director of Evaluation, Planning and Assessment, Honors College, University of
Houston, Houston, TX

1992-1997, 2008-2015 Associate Dean for Undergraduate Programs, Cullen College of Engineering, University
of Houston, Houston, Texas

2010-2013 Director of the Honors Engineering Program, University of Houston, Houston, Texas

1987-1998 Adjunct Assistant Professor of Radiology, University of Texas Health Science Center at
Houston

1982-1988 Assistant Professor, Department of Electrical Engineering, University of Houston,
Houston, Texas

RECOGNITION OF TEACHINGAwards and Honors

1. Career Teaching Award, Cullen College of Engineering, 2017
2. Distinguished Service Award, Honors College Student Governing Board, 2013
3. Career Teaching Award, University of Houston, 2013
4. IEEE/HKN Outstanding Teacher Award, Department of Electrical and Computer Engineering, 2007
5. W.T. Kittinger Outstanding Teacher Award, Cullen College of Engineering, 2006
6. IEEE/HKN Outstanding Teacher Award, Department of Electrical and Computer Engineering, 2006
7. IEEE/HKN Outstanding Teacher Award, Department of Electrical and Computer Engineering, 2004
8. IEEE Region 5 Outstanding Engineering Educator Award, 2003
9. El Paso Corporation Faculty Achievement Award, University of Houston, 2003
10. IEEE/HKN Outstanding Teacher Award, Department of Electrical and Computer Engineering, 2002
11. A.E. Dukler Distinguished Faculty Award, 2001
12. Outstanding Teacher Award, College of Engineering, 2001
13. Houston Alumni Organization's Outstanding Faculty Award, 1999
14. Enron Teaching Excellence Award, University of Houston System, 1999
15. Outstanding Teacher Award, College of Engineering, 1999
16. IEEE/HKN Outstanding Teacher Award, Department of Electrical and Computer Engineering, 1998-99
17. Runner-up, W.T. Kittinger Outstanding Teacher Award, Cullen College of Engineering, 1996-97
18. W.T. Kittinger Outstanding Teacher Award, Cullen College of Engineering, 1990-91
19. IEEE/HKN Outstanding Teacher Award, Department of Electrical Engineering, 1990-91
20. Outstanding Educator, Mortar Board National Honor Society, 1989-90

TEACHINGCourses Taught

ENGI	1331	Computers in Engineering	1994
ECE	1331	Computers and Problem Solving	2007-2008
ECE	1100	Intro. to ECE	2000-2003
ECE	2100	Circuit Analysis Lab	1999-2003, 2005-2008, 2016-2018
ECE	2201	Circuit Analysis I	2016
ECE	2202	Circuit Analysis II	2017-2019
ECE	2300	Circuit Analysis	1985-1987, 1989-1993, 1995, 1997-2016
ECE	2336	Intro. to Electric Cir. and Sys.	1996
ECE	3336	Intro. to Circuits and Electronics	2001, 2004, 2005, 2008, 2011
ECE	3355	Electronics	2011-2012, 2015-2019
ECE	3455	Electronics	1982-85, 1988-91, 1994-96, 1998-2001, 2004-2007, 2009-2010
ECE	3456	Analog Electronics	1984-85, 1997
ECE	4436	Microprocessors	1988-89
ECE	4458	BioInstrumentation	2008 (originated)
ECE	5364/6356	Electronic Circuit Design I	1997, 1999
ECE	5376	Signals & Comm. Theory	1983
ECE	6338	Topics in Optic.&Ult. Imaging	1990 (originated)

RECOGNITION OF SERVICE

Awards and Honors

George Magner Faculty Advisor Award, University of Houston, 1996
Selected to ODK Leadership Honorary Society, 1996
Member of Phi Kappa Phi, 1989.

SUPERVISION OF RESEARCH

Theses Completed

Jamil Nouhi, "Focusing Ultrasound Waves with Opto-Acoustic Transducers," M.S. Thesis, December 1985.

Gong Li, "Physical Modelling of Induction Logging in Dipping Bed with Large Borehole," M.S. Thesis, December 1985, Co-Chairman.

Courtney Duncan, "Precise Edge Measurement in Micrometrology, Senior Honors Thesis, May 1985.

Kobina Eshun, "A New Design for the Well Logging Laboratory Induction Logging Model Facility," Senior Honors Thesis, October 1986.

Michel Bittar, "Laterolog Scale Modelling Experiments," M.S. Thesis, December 1986.

Muhammad Ansari, "Effect of Dissimilar Scale Factors for Length and Diameter on Shallow Laterolog Scale Model Tool Response," M.S. Thesis, May 1988.

Kobina Eshun, "A Laboratory Model of the Focused Induction Logging Sonde," M.S. Thesis, August 1988.

Michel Bittar, "Study of Resistivity Sondes by Scale Modelling and Three-Dimensional Finite Element Method," Ph.D. Dissertation, May 1990.

Nitin Sahasrabudhe, "An Experimental Verification of the Modified Beam Tracking Method," M.S. Thesis, May 1992.

Chao-Hsu Fu, "Beam Tracking Method to Measure the Speed of Sound," M.S. Thesis, August 1992.

Yi-Ren Su, "Ultrasonic Imaging Using the Beam Tracking Method," M.S. Thesis, August 1993.

Di Lan, "Ground Penetrating Radar Research: Transmitter and Data Acquisition," M.S. Thesis, August, 1994. (co-advised with Richard Liu)

Jin Wang, "Ground Penetrating Radar Graphic User Interface Design," M.S. Thesis, December, 1994. (co-advised with Richard Liu)

Feng Gao, "A Scale Model of the Through-Casing Resistivity Measurement," M.S. Thesis, May, 1996.

Rohit Gaikwad, "Scale Modeling of the Through-Casing Resistivity Tool," M.S. Thesis, August, 1996.

Keith Lancaster, "Scale Modeling of the Through Casing Resistivity Tool," M.S. Thesis, December, 1997.

Huage Zheng, "Physical Modeling of an Automated Through-Casing Resistivity Measurement System," M.S. Thesis, August, 1999.

Students Currently Being Advised

None

RESEARCH

Areas of Interest

- Development of computer-based tools, programs, and textbooks for effective instruction in circuit analysis and electronics

PUBLICATIONS

Refereed Journals

1. Shattuck, D.P., and O.T. von Ramm, "Compound Scanning with a Phased Array," Ultrasonic Imaging, Vol. 4, p. 93-107, April 1982.
2. Shattuck, D.P., M.D. Weinshenker, S.W. Smith, and O.T. von Ramm, "Explososcan: A Parallel Processing Technique for High Speed Ultrasound Imaging with Linear Phased Arrays," Journal of Acoustical Society of America, Vol. 75, No. 4, pp. 1273-1282, April, 1984.
3. Shattuck, D.P., M.D. Weinshenker, S.W. Smith, and O.T. von Ramm, "Explososcan: A Parallel Processing Technique for High Speed Ultrasound Imaging With Linear Phased Arrays," Proceedings of the Society of Photo- Optical Instrumentation Engineers, Vol. 535, pp. 247-260, 1985. (This paper was considered by the editors to be of sufficient interest to be reprinted in this journal as a new article.)
4. Shattuck, D.P., M. Bittar and L.C. Shen, "Scale Modelling of the Laterolog Using Synthetic Focusing Methods," The Log Analyst, Vol. 28, No. 4, pp. 357-369, July-August, 1987.
5. Shattuck, D.P. and J. Nouhi, "Focusing with an Optoacoustic Transducer," IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, in Vol. UFFC-35, No. 4, pp. 445-449, July, 1988.
6. Ophir, J., Y. Yazdi, T. Lin and D.P. Shattuck, "Optimization of Speed of Sound Estimation in Noisy Ultrasonic Signals," Vol. UFFC-36, No. 1, pp. 16-24, IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, January, 1989.
7. Ophir, J., G.W. Johnson, Y. Yazdi, D. Shattuck and D. Mehta, "Correlation Artifacts in Speed of Sound Estimation in Scattering Media," Ultrasound in Medicine and Biology, Vol. 15, No. 4, pp. 341-353, 1989.
8. Shattuck, D.P., J. Ophir, G.W. Johnson, Y. Yazdi and D. Mehta, "Correction of Refraction and Other Angle Errors in Beam Tracking Speed of Sound Estimations Using Multiple Tracking Transducers," Ultrasound in Medicine and Biology, Vol. 15, No. 7, pp. 673-681, 1989.
9. Bittar, M.S., D.P. Shattuck and L.C. Shen, "Laboratory Study of the Shallow Laterolog in High and Low Contrast Zones," Log Analyst, Vol. 31, July-August, pp. 189-197, 1990.
10. Huang, M., C. Liu, L.C. Shen and D.P. Shattuck, "Laboratory Conductivity Measurement Using a Contactless Coil-Type Probe," Log Analyst, Vol. 36, No. 3, pp. 82-90, May-June, 1995.
11. Huang, M., C. Liu, L.C. Shen and D.P. Shattuck, "Monitoring Soil Contaminations Using a Contactless Conductivity Probe," Geophysical Prospecting, Vol. 43, Issue 6, pp. 759-778, August, 1995.
12. Bittar, M.S., D.P. Shattuck and L.C. Shen, "Finite Element Modeling of the Normal Resistivity Tool in Azimuthally Inhomogeneous Formations," Journal of Petroleum Science and Engineering, Vol. 14, pp. 59-63, December, 1995.
13. Darayan, S., D.P. Shattuck, L.C. Shen and C. Liu, "Measurement of Dielectric Constant and Conductivity of Samples Using a Guarded Electrode," Radio Science, Vol. 31, No. 6, pp. 1417-1426, November-December, 1996.

14. Darayan, S., C. Liu, L.C. Shen and D.P. Shattuck, "Measurement of Electrical Properties of Contaminated Soil," Geophysical Prospecting, Vol. 46, No. 5, pp. 477-488, 1998.

Chapters in Textbook

Rewrote Chapters 8 and 9, and made other contributions to Electric Circuits, 4th Edition, by James W. Nilsson, Addison-Wesley Publishing Company, 1993.

Technical Reports

1. Guo, H.X.J., G. Li, L.C. Shen, and D.P. Shattuck, "Induction Logs in Dipping Beds," Well Logging Laboratory Technical Report No. 4, pp. 1.1-1.31, October 1983.
2. Li, G. and D.P. Shattuck, "Induction Log Modelling Experiments in Dipping Beds and in Large Boreholes," Well Logging Laboratory Technical Report No. 5, pp. 1.1-1.15, October 1984.
3. Li, G., M. Bittar, and D.P. Shattuck, "Induction Log Modelling Experiments in Dipping Beds and in Large Boreholes," Well Logging Laboratory Technical Report No. 6, pp. 1.1-1.38, October 1985.
4. Eshun, K., and D.P. Shattuck, "Model Induction Sonde Instrumentation," Well Logging Laboratory Technical Report No. 6, pp. 2.1-2.17, October 1985.
5. Bittar, M., D.P. Shattuck, Q. Hu, and L.C. Shen, "Design of Laterolog Modelling Experiment," Well Logging Laboratory Technical Report No. 6, pp. 8.1-8.14, October 1985.
6. Shattuck, D.P., M. Bittar and L.C. Shen, "Scale Modelling of the Laterolog Using Synthetic Focusing Methods," Well Logging Technical Report No. 7, pp. 2.1-2.30, October 1986.
7. Eshun, K., and D.P. Shattuck, "Induction Log Modelling Project: Final Development and Verification," Well Logging Technical Report No. 8, pp. 1.1-1.24, October 1987.
8. Eshun, K., D.P. Shattuck, and L.C. Shen, "A New System for Scaled Modelling of Induction Logs," Well Logging Laboratory Technical Report No. 9, pp. 1.1-1.27, October 1988.
9. Bittar, M.S., D.P. Shattuck, and L.C. Shen, "Laboratory Study of the Shallow Laterolog in High and Low Resistivity Zones," Well Logging Laboratory Technical Report No. 9, pp. 2.1-2.26, October 1988.
10. Bittar, M.S., D.P. Shattuck, and L.C. Shen, "Shallow Laterolog Response in Dipping Beds Using Scale Modelling," Well Logging Laboratory Technical Report No. 10, pp. 1.1-1.25, October 1989.
11. Bittar, M.S., and D.P. Shattuck, "Three-Dimensional Modeling of Electrode-Type Resistivity Logging Tools by the Finite-Element Method," Well Logging Laboratory Technical Report No. 11, pp. 4.1-4.26, November 1990.
12. Gaikwad, R., F. Gao, D.P. Shattuck, and K. Lancaster, "Scale Modeling of the Through Casing Resistivity Measurement," Well Logging Laboratory Technical Report No. 16, pp. 3.1-3.13, November 1995.
13. Gaikwad, R., D.P. Shattuck, F. Gao and K. Lancaster, "Scale Modeling of the Through Casing Resistivity Measurement," Well Logging Laboratory Technical Report No. 17, pp. 3.1-3.31, November, 1996.
14. Zheng, Huage, D.P. Shattuck, and L.C. Shen, "Physical Modeling of an Automated Through-Casing Resistivity Measurement System," Well Logging Laboratory Technical Report No. 20, pp. 3.1-3.17, November, 1999.

Patents

J. Ophir and D. Shattuck, Multi-Beam Tracking for Angle Error Correction in Speed of Sound Estimations, Patent #4,878,500, Nov. 7, 1989.

RESEARCH PRESENTATIONS

Papers Presented at Technical Meetings

1. Thurstone, F.L., O.T. von Ramm, J.G. Abbott, H.B. Butts, and D.P. Shattuck, "On Producing Compound B-Scans at High Image Frame Rates," American Institute of Ultrasound in Medicine Conference, San Diego, Nov. 1978.
2. von Ramm, O.T., D.P. Shattuck, B.J. Bauer, and F.L. Thurstone, "Phased Array Compound Scanning," American Institute of Ultrasound in Medicine Conference, Montreal, Aug. 1979.
3. Shattuck, D.P., O.T. von Ramm, and M.D. Weinshenker, "Increased Data Acquisition Rate Through Parallel Processing," 7th International Symposium on Ultrasound Imaging and Tissue Characterization, Washington, D.C., June 1982.
4. von Ramm, O.T., and D.P. Shattuck, "Explososcan - A Parallel Processed Array Scanner", 3rd Meeting of the World Federation of Ultrasound in Medicine and Biology, Brighton, England, July 1982.
5. von Ramm, O.T., D.P. Shattuck and M.D. Weinshenker, "A Parallel Processed Phased Array Echocardiographic Imaging System," American College of Cardiology Meeting, New Orleans, La., March, 1983.
6. Shattuck, D.P. and Nouhi, J., "Optoacoustic Transducers: Focusing Ultrasound Under Optical Control," Fifth Annual Conference on Biomedical Engineering Research in Houston, Houston, March 1987.
7. Shattuck, D.P., "Using Ultrasound to Image Plastics in Soft Tissue," Medical Imaging on the Modern Battlefield, San Francisco, April 1987. Invited Speaker.
8. Shattuck, D.P. and Nouhi, J., "Optoacoustic Transducers: Focusing Ultrasound Under Optical Control," Twelfth International Symposium on Ultrasonic Imaging and Tissue Characterization, Washington, D.C., June 1987.
9. Shattuck, D.P., J. Ophir, G.W. Johnson, Y. Yazdi, and D. Mehta, "Beam Tracking for Speed of Sound Estimation in the Presence of Angle Uncertainties," at American Institute of Ultrasound in Medicine/World Federation of Ultrasound in Medicine and Biology Meeting, Washington, D.C., October 1988.
10. Shattuck, D.P., J. Ophir, G.W. Johnson, Y. Yazdi, and D. Mehta, "Refraction Correction in Beam Tracking Speed of Sound Estimations Using Multiple Tracking Transducers," Seventh Annual Conference on Biomedical Engineering Research in Houston, February 1989.
11. Shattuck, D.P., J. Ophir, G.W. Johnson, Y. Yazdi, and D. Mehta, "Refraction Correction in Beam Tracking Speed of Sound Estimations Using Multiple Tracking Transducers," 14th International Symposium on Ultrasonic Imaging and Tissue Characterization, Washington, D.C., June 1989.
12. Huang, M., C. Liu, L.C. Shen, and D.P. Shattuck, "Laboratory Conductivity Measurement Using a Contactless Coil-type Probe," Society of Professional Well Log Analysts Annual Symposium, Calgary, Canada, June, 1993.
13. Xie, S.Q., D. Lan, J. Wang, Y.M. Zhang, C. Liu and D.P. Shattuck, "The Development of an Advanced GPR System at the University of Houston," Ground Penetrating Radar 94, Kitchener, Ontario, June, 1994.

14. Shattuck, D.P., Claydon, F.J., Long, S.A., Barr, B.J., Ruchhoeft, J.L. and L.I. Basilio, "Summer Camp and Course Workshops for Sophomore Level Electrical and Computer Engineers", ASEE Annual Conference, Session 1432, Nashville, Tennessee, June, 2003 (no page numbers available, electronic copies only)
15. Shattuck, D.P., B.J. Barr, J.L. Ruchhoeft, J.M. Trenor, S.A. Long, and F.J. Claydon, "Collaborative Learning as a Tool for Retention of Engineering Students: An Update on the Success of Engineering 'Redshirt' Camps and Collaborative Learning Workshops at the University of Houston Cullen College of Engineering", ASEE Annual Conference, Portland, Oregon, June, 2005 (no page numbers available, electronic copies only)

OTHER PRESENTATIONS

Invited Talks

To Be or Not To Be An Engineer, Presentation at the Cullen College of Engineering Leadership Recognition Day, March 2001, March 2002

Presentations on An Electronic Textbook Supplement, Presentation to the Univ. of Houston Faculty, April 20, 2001

Presentation on Presentations, Presentation to Research Experience for Undergraduates Group, Summer 2001, Summer 2002, Summer 2003, Summer 2004, Summer 2006

Engineering and Design, Presentation to University of Houston Academic Advisors, December 4, 2001

Computer-Related Majors, Cougar Preview, November 2001, March 2002, November 2002

Technology in the Classroom, Presentation to the Fall Innovative Teaching Expo, December 9, 2002

Invited Talk on Plagiarism and How to Avoid It, Language and Culture Center, September 30, 2008

Cougar Preview Talk on Engineering Undergraduate Program, Fall 2009, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014

Engineers Day Keynote Speaker, San Jacinto College, November 17, 2011

Invited Talk for the HCC NSF STEM Banquet, at HCC Central, April 5, 2013

Invited Keynote Speaker, T-STEM Challenge Scholarship Program, Southwest College of HCC, March 5, 2014

Panel member for Grand Challenges Seminar on the book "The Rise", Organized by the Honors College, September 25, 2015

Invited Keynote Speaker, Dulles High School Math and Science Academy, May 20, 2016

Panel Member for New Faculty Orientation, University of Houston, August 18, 2016

Invited Speaker, UH BME Society Meeting, September 18, 2018

GRANTS RECEIVED

D.P. Shattuck, and S.A. Long, Opto-Acoustic Transducers, NSF, Completion of grant left behind by Dr. Noorbehesht, August 1983 - January 1985, \$20,000.

L.C. Shen and D.P. Shattuck, Well-Logging Research Projects, Consortium of 17 Oil and Service Companies, \$171,000, 40% responsible (\$68,400), 1983-1984.

L.C. Shen and D.P. Shattuck, Well Logging Research Projects, Consortium of 18 Oil and Service Companies, \$174,000, 40% responsible (\$69,600), 1984-1985.

L.C. Shen and D.P. Shattuck, Well Logging Research Projects, Consortium of 19 Oil and Service Companies, \$198,000, 40% responsible (\$79,200), 1985-1986.

L.C. Shen, D.P. Shattuck and W. Hoyer, Well Logging Research Projects, Consortium of 18 Oil and Service Companies, \$206,000, 40% responsible, (\$82,400), 1986-1987.

D.P. Shattuck, Subcontract with University of Texas Health Science Center to work on project entitled: "Speed of Sound Estimation in Liver Disease", funded by the National Institute of Health, Amt. of subcontract = \$51,153. This is a part of a grant totaling \$496,000 at UTHSC, with Jon Ophir as Principal Investigator. August 1987 - July 1990.

L.C. Shen and D.P. Shattuck, Well Logging Research Projects, Consortium of 18 Oil and Service Companies, \$196,000, 40% responsible (\$78,400), 1987-1988.

L.C. Shen and D.P. Shattuck, Well Logging Research Projects, Consortium of 19 Oil and Service Companies, \$195,000, 40% responsible (\$78,000), 1988-1989.

L.C. Shen and D.P. Shattuck, Well Logging Research Projects, Consortium of 14 Oil + Service Cost, \$140,000, 40% responsible (\$56,000), 1989-1990.

D.P. Shattuck, "Speed of Sound in Liver Disease," BRSG grant, University of Houston, \$4,000, April 1990 through March 1991.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 oil and Service Companies, \$165,480, 20% responsible (\$33,096), 1990-1991.

L.C. Shen, C. Liu and D.P. Shattuck, Electromagnetic Subsurface Sensing, Texas Advanced Research Program, \$50,000, 10% responsible (\$5,000), 1990-1991.

L.C. Shen, C. Liu and D.P. Shattuck, Electromagnetic Subsurface Sensing, Consortium of Oil Companies, \$45,000, 10% responsible (\$4,500), 1990-1992.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 Oil and Service Companies, \$180,000, 20% responsible, (\$36,000), 1991-1992.

L.C. Shen, C. Liu and D.P. Shattuck, Electromagnetic Subsurface Sensing Projects, Consortium of Oil Companies, \$45,000, 10% responsible, (\$4,500), 1992-1993.

L.C. Shen, C. Liu, and D.P. Shattuck, Well Logging Research Projects, Consortium of 17 Oil and Service Companies, \$205,000, 20% responsible, (\$41,000), 1992-1993.

L.C. Shen, C. Liu and D.P. Shattuck, Electromagnetic Subsurface Sensing Projects, Consortium of Oil Companies, \$15,000, 10% responsible, (\$1,500) 1993-1994.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 Oil and Service Companies, \$168,000, 20% responsible, (\$33,600), 1993-1994.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 Oil and Service Companies, \$162,650, 20% responsible, (\$32,530), 1994-1995.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 Oil and Service Companies, \$155,000, 20% responsible, (\$31,000), 1995-1996.

C. Liu and D.P. Shattuck, Texas Higher Education Coordinating Board, ATP program, Development of a Sewage Pipe Inspection System, January, 1996, \$116,000, 2 years.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 Oil and Service Companies, \$165,000, 20% responsible, (\$33,000), 1996-1997.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 Oil and Service Companies, \$145,000, 20% responsible, (\$29,000), 1997-1998.

L.C. Shen, C. Liu and D.P. Shattuck, Well Logging Research Projects, Consortium of 15 Oil and Service Companies, \$180,000, 20% responsible, (\$36,000), 1998-1999.

S.A. Long and D.P. Shattuck, Dielectric Resonator Antenna Applications in Wireless Communications, Texas Advanced Research Program, \$160,000, 50% responsible, (\$80,000), 2002-2003.

F. Claydon (co-PI), S. Long (co-PI), B. Barr, D. Shattuck, and J. Glover, Undergraduate Retention and Recruiting of ECE Students at the University of Houston, Texas Technology Workforce Development Grant Program, \$326,511, 10% responsible, (\$32,651), March 2002 - August 2003.

GRANT PROPOSALS SUBMITTED

Research Initiation Grant Program, University of Houston Central Campus, October 1982, \$7,934.44.

NSF, Research Initiation Grant, January 1983, \$47,800.

Grant proposal, submitted to NIH by University of Texas Medical School, November 1989, for Speed of Sound Estimation in Liver Disease, 5 years, total costs \$2,024,933. PI is Jonathan Ophir, D.P. Shattuck is named consultant through subcontract with UH. Subcontract between University of Texas Medical School and UH, submitted November 1989, 5 yrs, total costs \$146,930. 100% involvement.

Grant Proposal to NIH by U.T. Med. as above, modified and resubmitted, 4 years; Subcontract total costs \$150,000. Resubmitted July 1990.

BRSR Proposal University of Houston, April 1990, \$4,000.

Texas Higher Education Coordinating Board, Subsurface Environmental Sensing, L.C. Shen and D.P. Shattuck, June 1993, \$168,760 over 2 years.

Texas Higher Education Coordinating Board, ATP program, Development of a Sewage Pipe Inspection System, R.C. Liu and D.P. Shattuck, June, 1995, \$116,000 over 2 years.

Conoco/Dupont, Development of Partnership with local Community Colleges, D.P. Shattuck, Sara Freedman and Vita Como and Development Office, July, 1996, \$250,000 over 3 years.

Amoco Foundation, Development of Partnership with Alvin and Houston Community Colleges, D.P. Shattuck with Vita Como and Development Office, November, 1996, \$250,000 over 3 years.

Amoco Foundation, Development of Amoco Technical Communications Center, D.P. Shattuck with Vita Como and Development Office, November, 1996, \$265,000 over 3 years.

Texas Higher Education Coordinating Board, ARP program, Development of Distributed Leaky-Wave Antenna Systems for Indoor Wireless Local Area Networks, J.T. Williams and D.P. Shattuck, June, 1997, \$283,623 over 2 years.

Consortium of Oil and Service Companies, "Well Logging Research Projects," L.C. Shen, R.C. Liu and D. P. Shattuck, August 1997, 1 year.

Informal Proposal to Schlumberger Well Services Company, "Acoustics Projects," R. Finch, D.P. Shattuck, and other faculty in Mechanical Engineering, October, 1997, time period indefinite.

Consortium of Oil and Service Companies, "Well Logging Research Projects," L.C. Shen, R.C. Liu and D. P. Shattuck, August 1998, 1 year.

President's Advisory Council on Energy, Research and Education (PACERE), Matching of Energy Industry Needs with UH Programs, Flow meter proposals, September, 1998 and December, 1998, University of Houston

Consortium of Oil and Service Companies, "Well Logging Research Projects," L.C. Shen, R.C. Liu and D. P. Shattuck, August 1999, 1 year.

Texas Higher Education Coordinating Board, ARP program, Dielectric Resonator Antenna Applications in Wireless Communications, S.A. Long and D.P. Shattuck, June, 2001, \$198,230 over 2 years.

Texas Technology Workforce Development Grant Program, Undergraduate Retention and Recruiting of ECE Students at the University of Houston, Fritz Claydon, Stuart Long, Betty Barr and David Shattuck, Submitted in Fall 2001, \$604,450.

SERVICE ACTIVITIES

Professional Organizations

- Vice President of Duke Biomedical Engineering Society, 1981
- Publications Chairman, IEEE Region V Conference, 1983
- Faculty Advisor, IEEE Student Chapter, 1983-1991
- Member of Society of Professional Well Logging Analysts, 1985-2001
- Member of American Institute of Ultrasound in Medicine, 1987-90
- Member of Sigma Xi, 1988-1998
- Meeting Planning Committee, Houston Section SPWLA, 1988-1989
- Member of the Society of Core Analysts, 1993-1999.
- SPWLA Technological Committee, 1996-1999
- Greater Houston Community Foundation Scholarship Committee, 2006-2009
- ABET Mock Visitor, major university in southeastern part of the United States, 2015
- Member of IEEE, 1982-present
- Member of American Society for Engineering Education, 1991-present
- ABET Program Evaluator, 2012-present, site visits as PEV in 2018, 2017, 2016, 2015, 2014, 2012

Department Service

- Biomedical Engineering Course Committee, 1982
- Linear Electronics Course Committee, 1982-present, Chairman, 1983-1987
- Signals and Systems Course Committee, 1982-1986
- Recruiting Trips: Lamar Consolidated High School, Nov. 29, 1982
- Hearing Officer, Academic Honesty Committee, 1982-1983
- Academic Standards Committee, 1983-1984
- Electrical Engineering Dept. Presentations & Tours Organizer, 1984-1987, 1989, 1991
- Networks Sequence Committee, 1985-1986
- Reorganization of Student Laboratories for ELEE 3455 and 3456, 1985

- Organized and developed laboratory for ELEE 2335, 1985
- Co wrote (with Bill Richards) Electrical Engineering Formal Laboratory Report Format, 1985
- Arranged the donation of \$17,000 worth of DEC computers and Complot Plotters from Flo-Petrol Johnston, 1986
- Submitted proposal for and arranged reception of Fluke Donation for Undergraduate Electronics Laboratory, value = \$15,000, 1986.
- Developed videotaped laboratory lectures to assist in teaching of Networks I, Electronics I and II laboratories, 1988, 1990, 1991.
- Organized Departmental Laboratory Equipment requests, 1989-1991
- Department of ECE Recruiting, 2006 – 2008
- Department of ECE Effective Teaching Committee, 2007 – 2009, Chair 2007-2008
- Coordinator of ECE 2300 Circuit Analysis Workshop, 2001-2008
- Advisor to BSEE and BSCpE Honors Students, including mandatory advising twice a year, 2003-2011
- Search Committee, Instructional Faculty Position, 2016
- Department of ECE ABET committee, 2002-2006, 2015-present; co chair, 1998-1999, Coordinator 2002-2005, Chair 2016-present
- Department of ECE Post-Tenure Review Committee, 1998-1999, 2000-2003, 2005-2008, 2016-2018; Chair 2006-2008
- Department of Electrical and Computer Engineering Curriculum Committee, 1996-99; 2002 – 2008, 2015-2019; chair, 1998-99
- Department of ECE Shared Governance Committee, 2016-2018, Chair 2017-2018
- Department Concentration Area Presentations, twice per year, 2015-2018

College of Engineering Service

- Science Fair, head judge, 1984-1988
- Alumni Committee, 1986-1987
- College of Engineering Base Year Enrollment Committee, Chairman, 1988
- Geophysical Applications Faculty Search Committee, Chairman, 1990-1991
- College of Engineering Scholarship Committee, chair, 1992-1997, member 2000-2001
- College of Engineering Undergraduate Curriculum Committee, 1992-1997
- College of Engineering Governance Committee, 1992-1997
- College of Engineering Computer Courses Committee, 1992-1994, chair 1993-1994
- College of Engineering Recruiting Committee, 1993-1997
- College of Engineering Honors Program Liaison, 1992-1997
- College Task Force on the Core Curriculum, chair, 1994-1995
- College Computer Policy Committee, 1995-1997
- College of Engineering Grievance Committee, 1998-2001
- College of Engineering Teaching Excellence Committee, 2007, Chair, 2007
- College of Engineering Recruiting Committee, 2006-2007
- College of Engineering GRADE camp instructor, 2005-2008
- College Executive Committee, 1992-1997, 2008-2015
- College Cougar Paw (Student Organizations) Organizer, 1992-1997, 2008-2014
- College of Engineering Effective Instruction Committee, 1990-1997, 2007-2016, Chair, 1990-1994
- College of Engineering ABET Steering Committee, 2000-2006, 2008-2015
- College of Engineering Academic Honesty Hearing Officer, 2008-2015
- College of Engineering Undergraduate Curriculum Committee, 2008-2015
- College of Engineering Scholarship Committee, 2011-2015, chair, 2011-2015
- College of Engineering Teaching Awards Committee, 2016
- College of Engineering Convocation Marshall, 2000-2009, 2016
- College of Engineering Academic Honesty Pool Member, 2016-present
- Assisted in meeting with donors through the Engineering Dean's Office, including an endowment donation of \$1,000,000 for the Brookshire Teaching Excellence Award, in 2016

- College of Engineering Brookshire Teaching Award Committee, 2018, Chair, 2018

Honors College Service

- Honors Engineering Program Task Force, chair, 2009
- Honors College Dean Search Committee, 2008-2009
- Ad Hoc Committee on Honors College Bylaws, 2017, chair
- Honors College Academic Honesty Hearing Officer, 2012-present
- Honors College Senior Honors Theses, Honors Reader, 2003-present
- Organizer of Student Softball Game at Honors Retreat, 1995–present
- Leader of table at Great Conversation event, 2010-present
- Tier One Scholarship Invitational, January 2016, January 2018
- Honors College Personnel Committee, 2010-11, 2012-13, 2016 - present; chair, 2012-13, 2016 - present
- Director of Evaluation, Planning and Assessment, 2016-present
- Tier One Reading Day, December 2, 2017

University Service

- University of Houston Retention Committee, 1988-1989
- University of Houston Core Curriculum Committee, 1990-1991
- University of Houston Bridge Committee, 1991
- Undergraduate Council, Fall 1992
- University Transfer Admissions Task Force, 1993-94
- Search Committee for Executive Director for Affirmative Action, 1994
- Adhoc Committee on the Core Curriculum, chair, 1995-1996
- University Committee to Review Academic Procedures Manual, 1997
- Adhoc Committee on Core and Degree Requirements, 1997-98
- Scholars Community Advisory Board, 1998
- Writing Proficiency Exam Reading, 1998
- Adhoc Committee on the Communication Skills Initiative, 1998-2000
- University Grievance Committee, 1998-2001
- Faculty Senate, At-large member of Executive Committee, 2002, 2003
- Rhodes Scholarship Committee, 1998-2006
- University of Houston Undergraduate Research Advisory Committee, 2006-2009
- University of Houston Athletics Committee, 2007-2011
- Time Band Subcommittee, Chair, 2012
- University Recreation Center Advisory Committee, 2011-2013
- Associate Deans Committee, 1992-1997, 2008-2015
- University of Houston Academic Honesty Task Force, 2003-2004, 2009-2014
- University Scholarship Committee, 1992-1997, 2007-2014, chair, 1994-1996, 2011-2014
- Counselor for UH Habitat for Humanity Student Chapter, 2011-2017
- University of Houston Admissions Appeals Committee, 2015-2017
- University of Houston Farfel Award Committee, 2003-2004, 2007-2011, 2017-2018
- University of Houston Undergraduate Committee, 2016-present, subcommittee chair 2018-present
- Faculty Senate, 2001-2003, 2012-2014, 2015-present
- University of Houston Teaching Excellence Award Committee, 2002-2011, 2016-2019, Chair 2007-2011, 2017-2018

Reviewing Activities

- Reviewer for IEEE Transactions on Biomedical Engineering, 1982
- Reviewer for Ultrasound in Medicine and Biology, 1989

- Reviewer for Research in Nondestructive Evaluation, 1991
- Reviewer for Log Analyst, 1998
- Textbook Reviewer for Holt, Rinehart and Winston, 1984-1985
- Textbook Reviewer for Prentice-Hall, 1986-87, 1989, 1990
- Textbook Reviewer for Addison-Wesley, 1988-91, 1998-99
- Textbook Reviewer for West Publishing, 1994
- Textbook Reviewer for McGraw-Hill, 1998, 1999
- Textbook Reviewer for Brooks/Cole, 1999

Continuing Education

- Attended Workshop on Turnitin.com, led by Dr. Chad Wilson, January 11, 2017
- Attended Workshop on Blackboard Collaborate, led by Dr. Yash Kulkarni, January 12, 2017