

Appendix I
Section C. Faculty and Other Instructor's CV's

The Physics, EE and ME Departments use a slightly different format to present their CV's. All CV's contain the information required by ABET.

Jaime Ramírez-Angulo
Professor

Education	Ph.D. Electrical & Computer Engineering, University of Stuttgart, Germany, 1982. MSEE. Center for Research and Advanced Studies (CINVESTAV) <i>National Polytechnic Institute</i> , Mexico. 1976. BSEE. <i>National Polytechnic Institute</i> , Mexico. 1974.
Years of Service	12 years at New Mexico State University, 1990-2002 Professor, Klipsch School of Electrical and Computer Engineering, 1995-2000. Associate Professor, Klipsch School of Electrical and Computer Engineering, 1990-94.
Other Experience	Consulting: NASA/ACE, Texas Instruments. Oak Ridge National Labs Research Supported by: Agilent, National Science Foundation, Sandia National Labs, Engineering Foundation, NASA/ACE Assistant Professor, Texas A&M University, 1985-1990 Researcher, National Institute for Astrophysics Optics and Electronics 1982-84 Courses Taught: Electronic Devices and Circuits, Operational Amplifiers, Active Filters, Analog Microelectronics, Computer Aided Circuit Design, Digital VLSI System Design, Fuzzy Processors, RF Microelectronics, A/D and D/A conversion techniques.
Consulting, Patents	Consulting Engineer, NASA/ACE Las Vegas, NM, 1997-1999. Texas Instruments Summer 2000, Oak Ridge National Labs: Summer 1997 Design Analog Microelectronics Fuzzy Hardware. Patent: iDD pulse response test method for analog and digital VLSI systems
States of Registration	None.
Journal Publications 2006	“A Compact Low-Voltage Class AB Analogue Buffer,” Antonio Torralba, Ramón G. Carvajal, Mariano Jiménez, Fernando Muñoz, and Jaime Ramírez-Angulo, <i>IEE Electronics Letters</i> , vol. 42, No. 3, Feb. 3, 2006 “Compact Power-Efficient Class AB CMOS Exponential Voltage to Voltage Converter,” De La Cruz-Blas, C. A., López-Martín, A. J., and Ramirez-Angulo, J., <i>Electronics Letters</i> , “ <i>IEE Electronics Letters</i> , vol. 42, No. 3, Feb. 3, 2006. “New Low-Voltage Class AB/AB CMOS Op-Amp with Rail-to-Rail Input/Output Swing, J. Ramírez-Angulo, Milind S. Sawant, S. Thoutam A. J. López-Martín and R. G. Carvajal, <i>IEEE Transactions on Circuits and Systems II</i> , Volume 53, Issue 4, April 2006 Page(s):289 - 293 “The Universal Op-Amp and Applications in Continuous-time Linear weighted Voltage addition,” J. Ramirez-Angulo and F, Ledesma, <i>IEEE Transactions on Circuits and Systems II</i> , Volume 53, Issue 5, May 2006 Page(s):283 - 285 “Highly Linear Programmable Balanced Current Scaling Technique in Moderate Inversion,” A. J. López-Martin, J. Ramírez-Angulo, C. Durbha, and R. G. Carvajal, <i>IEEE Transactions on Circuits and Systems II</i> , Volume 53, Issue 4, April 2006 Page(s):283 - 285. <i>Jaime Ramírez-Angulo, Annajirao Garimella, Lalitha Mohana Kalyani Garimella, Antonio J. Lopez-Martin and Ramon G. Carvajal</i> “New Input Offset Compensation Scheme with Reduced Sensitivity to Charge Injection and Leakage,” <i>Electronics Letters</i> , Volume 42, Issue 6, 16 March 2006 Page(s):340 - 341) J. Ramírez-Angulo, A. J. Lopez-Martin, A. Garimella, L. Garimella, and R. G. Carvajal , “New Gain Programmable Current Mirrors Based on Current Steering,” <i>Electronics Letters</i> , (in print)

Scientific & Professional Societies	Institute of Electrical and Electronics Engineers (IEEE)
Honors and Awards	<p>IEEE Fellow for contributions to design methodologies for analog signal processing integrated circuits(January 2000)</p> <p>General Chairman of the 42nd Midwest Symposium on Circuits and Systems (August 1999)</p> <p>Numerous Keynote Presentations</p> <p>Numerous workshops</p> <p><u>URC University Research Council Award for exceptional achievements in creative scholarly activities: March 2002 (awarded yearly to four NMSU researchers)</u></p> <p>Westhafer award for Excellence in Research and Creativity: May 2002 (highest faculty award at New Mexico State University awarded every two years for research and creative activities). Paul and Valerie Klipsch Distinguished Professor October 2002. Two papers in list of 100m most downloaded papers of IEEE. NMSU Most outstanding Ph.D. Student 2004 (Gladys Omayra Ducoudray) was my student, NMSU Most outstanding MS. Student 2006 was my student (Lalitha Garimella)</p>
Institutional & Professional Service Last Five Years	<p>NMSU ECE Graduate Studies Committee, and Promotion and Tenure Committee 1998-present.</p> <p>Project evaluator for Spanish Science Ministerium, and for MexicianScience Council CONACYT-INAOE Tenure and Promotion committee</p> <p>NMSU ECE Tenure and Promotion review Committee, 1998-99. 2002-2006</p> <p>NMSU ECE Ph.D. Qualifying Exam Committee, 1990-1991.</p> <p>Steering Committee, Midwest Symposium on Circuits and Systems, 1993-present.</p> <p>Reviewer, IEEE Transactions on Circuits and Systems I and II, IEEE Journal of Solid State Circuits, 1992- present.</p> <p>IEEE Analog Signal Processing Committee</p> <p>Technical Chairman, 1983 Midwest Symposium on Circuits and Systems</p>
Professional Development Last Five Years	<p>Presenter, Midwest Symposium on Circuits and Systems, 1983-2002.</p> <p>Presenter, IEEE International Symposium on Circuits and Systems 1983-2003.</p> <p>Presenter, DCIS 1997-2003.</p> <p>Presenter, International Symposium on Circuits and Systems, 1996.</p> <p>Workshop, "FPGAs Xilinx," Mexico City, November 1999, 2001 "Sigma Delta Converters," Monterrey CA, 1997</p>

Dr. Deva K. Borah (Assistant Professor)

[1] Education

- Ph.D. in Telecommunication Engineering, Australian National University, May 2000.
- M.E. in Electrical Communication Engineering, Indian Institute of Science, Bangalore, India, March 1992.
- B.E. in Electronics and Communications Engineering, Indian Institute of Science, Bangalore, India, September 1987.

[2] Years of Service

- Assistant Professor: New Mexico State University, January 2000 – present.
- Lecturer: Gauhati University, India, November 1993 – January 1996.
- Lecturer: Assam Engineering College, India, 1988-1990, 1992-1993.

[3] Other Experience

Trainee, Indian Telephone Industries, Bangalore, India, Summer 1987.

[4] Consulting, Patents

- D. K. Borah, “Smooth Phase Interpolated Keying,” a patent filed in July 2004 in US Patent and Trademark Office.
- D. K. Borah and P. DeLeon, “Speaker Identification in the Presence of Packet Losses,” a patent filed in July 2004 in US Patent and Trademark Office.

[5] States of Registration

[6] Principal Publications Last Five Years

- D. K. Borah and D. Voelz, “Cramer-Rao Lower Bounds on Estimation of Laser System Pointing Parameters by Use of the Return Photon Signal,” *Optics Letters*, Vol.31, pp.1029-1031, April 2006.
- D. K. Borah, D. Voelz and S. Basu, “Maximum Likelihood Estimation of a Laser System Pointing Parameters by Use of Return Photon Counts,” *Applied Optics*, vol. 45, pp.2504-2509, April 2006
- D. K. Borah “Estimation of Frequency-Selective CDMA Channels with Large Possible Delay and Doppler Spreads,” *IEEE Transactions on Vehicular Technology*, 2006 (to appear).
- Y. Liu and D. K. Borah, “Estimation of Fading Channels with Large Possible Delay Spreads,” *IEEE Electronics Letters*, vol.39, pp.130-131, Jan. 2003.
- D. K. Borah, “Smooth Phase Interpolated Modulations for Nonlinear

Channels,” Proc. IEEE Globecom 2004, Dallas, Nov. 2004.

[7] Scientific & Professional Societies

- Member of the Institute of Electrical and Electronics Engineers (IEEE), 1996-present
- Member of the American Society for Engineering Education (ASEE).

[8] Honors & Awards

**[9] Institutional & Professional Service
Las Five Years**

- Reviewed more than 50 journal papers and numerous conference papers for international journals and conferences
- NSF panel review, 2004.
- Program committee member/Editor-cum-reviewer for IEEE WCNC 2006, Las Vegas, IEEE ISSSTA 2004, Sydney etc.
- MS and Ph.D. thesis examiner for overseas universities.

**[10] Professional Development
Last Five Years**

Attended more than seven international conferences during the last five years and gave oral/poster presentations.

Charles D. Creusere
(associate professor.)

[11] Education	<p>1980-1985: University of California at Davis, B.S. in Electrical and Computer Engineering.</p> <p>1989-1990: University of California at Santa Barbara, M.S. in Electrical and Computer Engineering.</p> <p>1990-1993: University of California at Santa Barbara, Ph.D. in Electrical and Computer Engineering.</p>
[12] Years of Service	<ul style="list-style-type: none"> • 5 years as a professor at New Mexico State University. • 6 years as a researcher at the Naval Air Warfare Center China Lake, CA • 4 years as a design engineer at the Navel Weapons Center China Lake, CA
[13] Other Experience	<ul style="list-style-type: none"> • Spring, 1999: Taught ECE 258B (Multirate DSP) at the University of California Santa Barbara as a visiting lecturer. • Summer 1992: Worked at Bell Labs in the DSP group.
[14] Consulting, Patents	<ul style="list-style-type: none"> •2001-2003: Expert witness in the case of Laser Technology Inc. v. Nikon. •Patents: 2 patents (Patent Numbers 6,148,111 and 6,466,698) and a classified patent (awarded 1991). •None.
[15] States of Registration	
[16] Principle Publications Last Five Years	<p>C.D. Creusere, "Motion compensated video compression with reduced complexity encoding for remote transmission," <i>Signal Processing: Image Communications</i>, Vol. 16, pp. 627-42, April 2000.</p> <p>C.D. Creusere, "Understanding perceptual distortion in MPEG scalable audio coding," <i>IEEE Trans. on Speech and Audio Processing</i>, Vol. 13, No. 3, pp. 422-431, May 2005.</p> <p>L. E. Boucheron and C.D. Creusere, "Lossless wavelet-based compression of digital elevation maps for fast and efficient search and retrieval," <i>IEEE Trans. on Geoscience and Remote Sensing</i>, Vol. 43, No. 5, pp. 1210-1214, May 2005.</p>
[17] Scientific & Professional Societies	<ul style="list-style-type: none"> •Institute of Electrical and Electronic Engineers. •IEEE Signal Processing Society •IEEE Geoscience and Remote Sensing Society
[18] Honors & Awards	<ul style="list-style-type: none"> •Received competitively-awarded Department of Defense graduate Fellowship. •Certificate of Merit for the outstanding technical paper awarded

at the AIAA Missile Sciences Conference for the paper
“Automatic target recognition directed image compression,”
Nov. 1998.

**[19] Institutional &
Professional Service
Las Five Years**

- Associate Editor, IEEE Transactions on Image Processing, 2002-2005.

- Co-general chair for the 2004 IEEE Digital Signal
Processing Workshop.

**[20] Professional
Development
Last Five Years**

- Participated in an NSF Career Grant writing workshop for faculty at
NMSU, May 2005.

Paul M. Furth
(Associate Professor and Associate Department Head)

[21] Education	<p>Ph.D. 1996, Johns Hopkins University, Electrical and Computer Engineering, Baltimore MD</p> <p>M.S. 1991, Johns Hopkins University, Electrical and Computer Engineering, Baltimore MD</p> <p>B.S. 1985, California Institute of Technology, Engineering (Electrical), Pasadena CA</p> <p>B.A. 1984, Grinnell College, French, Grinnell IA</p>
[22] Years of Service	<p>1995-present NMSU Electrical and Computer Engineering</p> <ul style="list-style-type: none"> • Associate Department Head, 2002-present • Associate Professor, 2000-present • Assistant Professor, 1995-2000
[23] Other Experience	<p>1992-1995 JHU Applied Physics Lab Columbia, MD</p> <ul style="list-style-type: none"> • Member of Associate Staff • develop a real-time computer-controlled analog cochlear model for use in underwater acoustic discrimination experiments. <p>1985-1989 TRW Technar Irwindale, CA</p> <ul style="list-style-type: none"> • Project Engineer • Designed, developed, documented, and maintained automated shock test equipment for the manufacture of crash sensors for automobile airbag systems. Designed electronic diagnostic module for airbag systems.
[24] Consulting, Patents	<p>Summer 2001-03 Motorola Phoenix, AZ</p> <ul style="list-style-type: none"> • Consulting IC Designer • Design, simulation, and layout of switched-capacitor circuits for mixed-signal image processor. Design and simulation of audio amplifiers, power management circuits, linear regulators, and bandgap voltage references for a portable game player. <p>Summer 2000 JTA Research Seal Beach, CA</p> <ul style="list-style-type: none"> • Consulting IC Designer • Designed, simulated, and laid out modules for a static RAM using CADENCE tools.

[25] States of Registration	None	
[26] Principle Publications Last Five Years		<ul style="list-style-type: none"> • “High-Speed Centroid Circuits Implemented in Analog VLSI,” A. Bashyam, P.M. Furth, and M.K. Giles, IEEE International Symposium on Circuits and Systems 2004, Vancouver, WA, May, 2004. • “Test Setup for Static and Dynamic Measurements of an Image Centroid in an Adaptive Optics Integrated Circuit with Pixel Array,” A. Bashyam, M.K. Giles, and P.M. Furth, SPIE Optoelectronics 2004, San Jose, CA, January 2004. • “Fully Integrated Current-Mode Subaperture Centroid Circuits and Phase Reconstructor,” A.J. Ambundo and P.M. Furth, 10th NASA Symp. VLSI Design, Albuquerque, NM, March 2002. • “Career development activities in a required engineering course,” P.M. Furth, 2001 ASEE Annual Conference, Albuquerque, NM, June 2001.
[27] Scientific & Professional Societies		<ul style="list-style-type: none"> • IEEE (Institute for Electrical and Electronic Engineers) • NMSU Teaching Academy
[28] Honors & Awards	None	
[29] Institutional & Professional Service Last Five Years		<ul style="list-style-type: none"> • Professional Service: reviewer for IEEE Symposium on Circuits and Systems, IEEE Transactions on Circuits and Systems, IEEE Transactions on Biomedical Engineering, IEEE Transactions on Engineering Education • Department Committees: Graduate Studies Committee (Chair), 2002-present, Faculty Search Committee for Computer Area (Member), 2001-02 • College Committee: Engineering Physics ABET 2006 Committee (ECE Representative), 2005-present, ABET 2006 Committee (ECE Representative), 2004 – 2005
[30] Professional Development Last Five Years		<ul style="list-style-type: none"> • Conference participant at IEEE International Symposium on Circuits and Systems, Vancouver, WA, May, 2004 • Conference participant at ASEE Annual Conference, Albuquerque, NM, June 2001 • Conference participant at NMSU Science, Engineering, and Technology Education Conferences, Las Cruces, NM, January 2001-2005. • Workshop participant in NMSU Instructional Peer Coaching Workshops, Las Cruces, NM, Spring Semester, 2004 & 2006.

Gary S. Geyer

Adjunct Instructor

[31] Education

MSEE University of Southern California 1971

MSAE University of Southern California 1971

BSEE Ohio State University 1966

NMSU Electrical Engineering Department 2001-Present

[32] Years of Service

[33] Other Experience

1966-1992 Space Development/ Program Management USAF

1992-1999 Program Management Lockheed Martin.

1999- Present Various Aerospace and Commercial Companies

[34] Consulting, Patents

[35] States of Registration

[36] Principle Publications Last Fived Years

[37] Scientific & Professional Societies

[38] Honors & Awards

[39] Institutional & Procfessional Service Las Five Years

[40] Professional Development Last Five Years

Michael K. Giles

Professor

[41] Education

Ph.D. in Optical Sciences, University of Arizona 1976

MSEE Brigham Young University 1971

BSEE Brigham Young University 1971

NMSU Department of Electrical and Computer Engineering 1982-Present

[42] Years of Service

1971-1977 Electronics Engineer/ Michelson Laboratory, US Navy

[43] Other Experience

1977-1980 Research Electronics Engineer/ White Sands Missile Range, US Army

1980-1982 Research Physicist (Optics), Air Force Weapons Lab, USAF.

1982-Present Consulted for various government agencies

[44] Consulting, Patents

Photoparametric Amplifying Upconverter, U.S. Patent No. 3,937,979, 1976.

Photoparamp Array Multiplexer, U.S. Patent No. 4,051,364, 1977.

Kalman Filter Preprocessor, U.S. Patent No. 4,512,119, June 14, 1985

Adaptive Optics Wavefront Measurement and Correction System, U.S. Patent No. 5,684,545, Nov. 4, 1997.

Characterization of Collimation and Beam Alignment, U.S. Patent No. 5,978,053, Nov. 2, 1999.

Passive Coherence Reduction, Patent Application, Serial No. 60/704,780, Filed Aug. 1, 2005.

[45] States of Registration

J. Rha, D. G. Voelz, and M. K. Giles, "Reconfigurable Shack-Hartmann wavefront sensor," *Optical Engineering*, Volume 43, pp. 251-256, January 2004.

[46] Principle Publications Last Fived Years

C. Ting, D. G. Voelz, and M. K. Giles, "Effectiveness of High-Order Adaptive Optics in Ground-Based Stellar Interferometry," *Optical Engineering*, Volume 45, pp. 026001-1 to 026001-6, February 2006.

[47] Scientific & Professional Societies

Optical Society of America

SPIE, The International Society for Optical Engineering

[48] Honors &

Paul and Valerie Klipsch Distinguished Professorship, The Klipsch School of

Awards

Electrical and Computer Engineering, New Mexico State University, 2002 to present.

Fellow of SPIE, Elected in Dec. 2004

**[49] Institutional &
Professional Service
Last Five Years**

Co-chair of the SPIE International Conference on Advanced Wavefront Control 2004-2005

Chairman of the SPIE International Conference on Advanced Wavefront Control 2006

**[50] Professional
Development
Last Five Years**

Sabbatical work with FGAN/FOM in Ettlingen, Germany, Aug 2003-Jan 2004

Sheila B. Horan

College Associate Professor

Education	Ph.D. (E.E.), New Mexico State University, May 1985. M.S.E.E., New Mexico State University, May 1978. B.A. Franklin and Marshall College, May 1976. Majors: Mathematics and Physics Minor: Education
Years of Service	20 years at New Mexico State University College Associate Professor, Klipsch School of Electrical and Computer Engineering, 1998. College Assistant Professor, Klipsch School of Electrical and Computer Engineering, 1986.
Other Experience	Academy for Understanding Research Opportunities, Robotics & Aerospace (AURORA) NSF grant 2005 - 2008 Bridges for Engineering Education (BEE) NSF research grant, 2002-2004 Research Projects: AFOSR: Work entails investigation of bandwidth efficient modulation techniques in a multipath environment and looking at data compression as a viable technique to achieve smaller bandwidth. Funded for 2 years, \$100K Science Analyst, Science and Technology Corp., Sept 1986 - Dec. 1986. Responsibilities included verifying and/or correcting rain effects on radar signals. Science Analyst, Physical Science Laboratory, January 1986 - June 1986. Responsibilities included investigation of databases for applications to data base systems at White Sands Missile Range. ASEE Summer Faculty Research Fellow, Navy Research Laboratory, summer 1981. Responsibilities included work on image compression technique for sparse matrices.
Consulting, Patents	None.
States of Registration	None.
Principle Publications of Last Five Years	S. Horan and S.B. Horan, "Application of Data Compression to Frame and Packet Telemetry", International Conference for Telemetry, October 2003 Compression of Telemetry in Lossless Compression Handbook, Khalid Sayood, published 2002. S. Horan, "The BEST way to recruit and retain students", 2001 NMSU Science, Engineering, & Technology Education Conference, NMSU, January 2001
Scientific & Professional Societies	Institute of Electrical and Electronics Engineers (IEEE) American Society of Engineering Education (ASEE)
Honors and Awards	Eta Kappa Nu (HKN), 1977. Tau Beta Pi, 1999 . Klipsch School of Electrical and Computer Engineering outstanding service award, Dec. 2001.

SCIAD of the Year award, May 2001.
Decade of Dedicated Service Award, Tombaugh Elementary School, 2000
Phi Delta Kappa Certificate of Recognition for the Science Intern Program being a service to education, May 1996
Dr. Sheila Horan Science Room named at Clyde W. Tombaugh Elementary School, 1994
Las Cruces Association of Classroom Teachers Certificate of Appreciation, May 1994.

**Institutional
and
Professional
Service Last
Five Years**

NM BEST (Boosting Engineering, Science and Technology – robot competition) director, Jan 2001 – present.
Freshman advisor for the Klipsch School, 1998 - present.
NMSU ECE Undergraduate Studies Committee, 1998-present.
Vice-Chair of the Telemetering Standards Coordination Committee (2005)
Chair of the Coding and Data Compression committee for the Telemetering Standards Coordination Committee (TSCC)
NSF proposal evaluator July 2004, 2003
Chaired committee to design the Engineering Design competition for MESA, 2002
Gamma Beta Phi Honor Society advisor, 2000- 2002.
Electrical Engineering Presentations for Mayfield HS (2 presentations each semester)
Tutoring Math at Las Cruces High School (Thursday mornings)
SCIAD (Science Advisor) for Las Cruces Public schools, currently assigned to Tombaugh Elementary school.
Alameda Science day demos (yearly in April/May)
Southern NM Science Fair Judge
“Girls Can” workshop presenter. Participated in presenting basic concepts of communications/signal processing and circuits to mid-school girls.

**Professional
Development
Last Five Years**

Attended several Teachers Center workshops:
Teaching for critical thinking May 25, 2006
Peer Coaching semester activity Spring 2006
Critical Thinking Jan 10, 2005
Responding to diversity Jan 10, 2005
Student learning Jun 29, 2005
Active Learning July 19, 2005
Designing for ABET July 20, 2005
Attended Writing Across the Curriculum Workshop, May 2002.

Attended the Science, Engineering, & Technology Education Conference at NMSU,
January each year
Attended Satellite Teleconferences on Teaching, Assessing, and Critical Thinking, 2002

Stephen Horan
(Professor and Department Head)

[51] Education	1984, PhD Engineering, New Mexico State University, Las Cruces, NM 1981, MSEE, New Mexico State University, Las Cruces, NM 1979, MS Astronomy, New Mexico State University, Las Cruces, NM 1976, AB Physics, Franklin & Marshall College, Lancaster, PA 2005 – present, Department Head
[52] Years of Service	1996 – 2005, Professor of Electrical and Computer Engineering 1991 – 1996, Associate Professor 1986 – 1991, Assistant Professor
[53] Other Experience	1984 – 1986, Space Communications Co., White Sands Ground Terminal, NM
[54] Consulting, Patents	Patent with T. Shay et. al, U.S. Patent Office Patent no. 6,778,779 covering the “Full-Duplex Optical Communication System” issued on August 17, 2004.
[55] States of Registration	Not registered.
[56] Principle Publications Last Five Years	S. Horan, “Telemetry,” in <i>The Electrical Engineering Handbook</i> 3rd ed., R. Dorf, ed. Boca Raton: CRC Press, in press. R. Wang, B. Gutha, S. Horan, Y. Xiao, and B. Sun, “Which Transmission Mechanism is Best for Space Internet: Window-Based, Rate-Based, or a Hybrid of the Two?,” <i>IEEE Wireless Communications</i> , Dec. 2005, p. 2 – 9. S. Horan, “Telemetry Systems,” in <i>The Engineering Handbook</i> 2nd ed., R. Dorf, ed., Boca Raton: CRC Press, 2004, pp 154-1 – 154-6. C. Force and S. Horan, “Earth Orbiting Satellites, Data Receiving and Handling Facilities,” in <i>Encyclopedia of Space Science and Technology</i> , Hans Mark, ed., New York: Wiley, 2003. S. Horan, <i>Introduction to PCM Telemetry Systems</i> , 2nd ed., Boca Raton: CRC Press, 2002. R. Wang and S. Horan, “Impact of Van Jacobson Header Compression on TCP/IP Throughput Performance over Lossy Space Channels,” <i>IEEE Trans. on Aerospace & Electronic Systems</i> , Vol. 41, No. 2, April 2005, p. 681 - 692. V. Chukkala, P. De Leon, S. Horan, and V. Velusamy, “Radio Frequency Channel Modeling for Proximity Networks on the Martian Surface,” <i>Computer Networks</i> , Vol. 47, Issue 5, April 2005, p 751-763. S. Horan, A. Chakraborti, S. Muddasani, and S. Narina, “Testing MDP in a Simulated Space Channel Environment,” <i>Computer Networks</i> , Vol. 46, No. 3, 22 October 2004, p. 363-374. S. Horan, “Non-Tracking Antenna Performance for Inertially Controlled Spacecraft Using TDRSS,” <i>IEEE Trans. on Aerospace & Electronic Systems</i> ,

Vol. 39, No. 4, October 2003, p 1263 - 1269.

S. Horan, "The Potential for Using LEO Telecommunications Constellations to Support Nanosatellite Formation Flying," *International Journal of Satellite Communications*, **20**, 2002, p. 347 - 361.

S. Horan and R. Wang, "Design of a Space Channel Simulator Using Virtual Instrumentation Software," *IEEE Trans. Instrument and Measurements*, Vol. 51, No. 5, October 2002, p. 912-916.

[57] Scientific & Professional Societies

American Institute for Aeronautics and Astronautics (Senior Member)
Institute of Electrical and Electronics Engineers (Senior Member)
American Society for Engineering Education
American Association for the Advancement of Science

[58] Honors & Awards

El Paso Corporation Foundation Award for Teaching Excellence, April 2003
University Research Council Award for Exceptional Achievements in Creative Scholarly Activity, August 2005

[59] Institutional & Professional Service Las Five Years

General Chairman, International Telemetry Conference, 2002.
Technical Committee, Space Internet Workshop III, June 2003.
Technical Committee, Space Internet Workshop IV, June 2004.
Faculty representative to the Federal Demonstration Partnership, 2002 - present; "Minority University/Emerging Research Institution" working group co-chair.
Universities Space Research Association Science and Engineering Education Council, 2003 – present; member of "Access to Space" working group.
Department Promotion and Tenure Committee, 1999 - 2005
Member, Engineering Research Center Advisory Committee, 1999 - 2004.
College Promotion and Tenure Committee, 1999 - 2005; Chair, 2000 - 2001
Member, Dean of Engineering Search Committee, 2003 - 2004.
University Research Council, member 2000 - 2005, Executive Committee 2001-2005, Chair 2002 - 2003; Interim Chair 2004.
Chair, Overhead Committee, 2001-2002.
Member, Disclosure Statement Committee, 2002.
Member, PI Certification Committee, 2002-2003.
PI Certification Training, 2003 – present
ITAR Training, 2003 – present.
Member, Vice Provost for Research and Economic Development Search Committee, 2004.
Member, Conflict of Interest Committee, 2004
Member, Conflict of Interest Policy Committee, 2004
Member, Faculty Senate IDC Special Committee, 2004

[60] Professional Development Last Five Years

Hong Huang

Assistant professor

[61] Education	[62] Ph.D., EE, Georgia Institute of Technology, 2002 [63] M.S., EE, Georgia Institute of Technology, 2000 [64] B.Engr. Engineering Physics, Tsinghua University, China, 1985
[65] Years of Service	<ul style="list-style-type: none">• 2003-now, Assistant Professor, Klipsch School of Electrical and Computer Engineering, New Mexico State University
[66] Other Experience	<ul style="list-style-type: none">• 1998-2002 Research Assistant, Elec. and Comp. Engr., Georgia Tech• 1996-1998 Lecturer, Chengdu Institute of Information Technology, Chengdu, China• 1985-1996 Engineer and Project Manager, Junda Instruments, Inc., Chengdu, China
[67] Consulting, Patents	<ul style="list-style-type: none">•
[68] States of Registration	<ul style="list-style-type: none">•
[69] Principle Publications Last Five Years	<p><i>Peer-reviewed journal publications:</i></p> <ul style="list-style-type: none">• H. Huang, "Mechanisms to Mitigate Inefficiency in Greedy Geographical Routing in Wireless Ad-hoc Networks," to appear in <i>IEEE Communications Letters</i>• H. Huang and J. A. Copeland, "Optical networks with hybrid routing," in <i>IEEE Journal of Selected Areas in Communication</i>, Vol. 21, No. 7, 2003.• H. Huang and J. A. Copeland, "A series of Hamiltonian cycle based solutions to provide simple and scale mesh optical network resilience," in <i>IEEE Communications</i>, Vol. 40, No. 11, 2002.
	<p><i>Peer-reviewed conference publications:</i></p> <ul style="list-style-type: none">• H. Huang, "An agent-based method for sampling distributed phenomena in a sensor net," to appear in <i>Proc. IEEE Vehicular Technology Conference (VTC)</i>, 2005.• G. Mokashi, H. Huang, B. Kuppireddy, and S. Varghese, "A Robust Scheme to Track Moving Targets in Sensor Nets Using Amorphous Clustering and Kalman Filtering," to appear in <i>Proc. IEEE Milcom</i>, 2005.• J. Mullen and H. Huang, "Impact of Multipath Fading in Wireless Ad Hoc Networks," to appear in <i>Proc. ACM International Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (PE-WASUN)</i>, 2005.

- H. Huang, "Adaptive Geographical Routing in Wireless Ad-hoc Networks," in *Proc. IEEE Vehicular Technology Conference (VTC)*, 2004.
- S. Ramakrishnan, H. Huang, J. Mullen and M. Balakrishnan, "Impact of Sleep in Wireless Sensor MAC Protocol," in *Proc. IEEE Vehicular Technology Conference (VTC)*, 2004.
- M. Balakrishnan, S. Ramakrishnan, and H. Huang, "Energy-aware sensor MAC protocols," in the *Prof. International Telemetry Conference (ITC)*, 2004.
- J. Mullen, Hong Huang, and Smriti Rangan, "Efficient Models of Fine-Grain Variations in Signal Strength," in the *Prof. OPNETWORK*, 2004.
- H. Huang, "Composable Geographical Routing," in *Proc. IEEE Vehicular Technology Conference (VTC)*, 2003.
- H. Huang, "Dynamic Hybrid Optical Network Routing Based on Transport Cost," in *Proc. International Conference on Communication, Internet, and Information Technology (CIIT)*, 2003.
- H. Huang and J. A. Copeland, "Multi-domain mesh optical network protection using Hamiltonian cycles," in *Proc IEEE HPSR*, 2002, selected as **Best Papers**.
- H. Huang and J. A. Copeland, "Open optimization of mesh WDM optical networks with bandwidth from exchange market," in *Proc. IEEE International Conferences on Telecommunications (ICT)*, 2001.
- H. Huang and J. A. Copeland, "Hamiltonian cycle protection: a novel approach to mesh WDM optical network protection," in *Proc. IEEE High Performance Switching and Routing (HPSR)*, 2001.
- H. Huang and J. A. Copeland, "Hybrid wavelength and sub-wavelength routed optical networks," in *Proc. IEEE Globecom*, 2001.
- Member, IEEE, Computer Society

[70] Scientific & Professional Societies

[71] Honors & Awards

- Best Papers Award, IEEE High Performance Switching and Routing Conference, 2002
- Amelio Prize, for Excellent Academic performance, Georgia Tech, 1999
- Excellent Graduates, for Ranked 1st in Class of 20 on graduation, Tsinghua Univ. 1985

[72] Institutional & Professional Service Las Five Years

- Reviewer of: IEEE Journal of Selected Areas in Communication, IEEE Communications Letters, OSA Journal of Optical Networks, Journal of Computer Communications
- Committee member of: 2 Ph.D exams, 4 MS exams

[73] Professional Development Last Five Years

Kwong T. Ng

Professor

[74] Education

Ph.D., Electrical Engineering, The Ohio State University, Columbus, OH, 1985.

M.S., Electrical Engineering, The Ohio State University, Columbus, OH, 1981.

B.Eng. (Hons.), Electrical Engineering, McGill University, Montreal, Canada, 1979.

[75] Years of Service

- 16 years at New Mexico State University, 1990-2006
- Professor, Klipsch School of Electrical and Computer Engineering, 1995.
- Associate Professor, Klipsch School of Electrical and Computer Engineering, 1990.

[76] Other Experience

- PI, "Integrated EEG and Brain Mapping for Brain-Machine Interfaces in Security Monitoring," Los Alamos National Laboratory, 2005-2007.
Integrate electroencephalography with brain mapping in order to identify the mental functions and corresponding brain activity regions most effective for brain-machine interfaces.
- PI, "Electrical Defibrillation Analysis," American Heart Association, 2003-2006.
Combine numerical modeling with experimental studies to analyze electrical defibrillation.
- PI, "Parallel Computer Modeling of Defibrillation," National Institutes of Health, 1998-2002.
Use massively parallel computers to perform large-scale simulations that will elucidate the mechanisms of defibrillation.
- PI, "Undergraduate Computer-Aided Electromagnetics and Microwave Laboratory," National Science Foundation, 1992-1995.
Upgrade an existing microwave laboratory to enhance the students' learning experience in the electromagnetics and microwave area.
- PI, "Electromagnetic Modeling of Cavity-Backed Conformal Slot Antennas," Sandia National Laboratories," 1990-1992.
Use the Finite-Difference-Time-Domain technique to model cavity-backed slot antennas.
- PI, "Numerical Analysis of Defibrillation," National Institutes of Health Subgrant, 1989-1996.
Perform numerical analysis of defibrillation and integrate the numerical results with experimental data.

- Assistant Professor, University of Virginia, Charlottesville, VA, 1985-1989. Perform teaching and research in the electromagnetics and microwave area.

[77] Consulting, Patents

- None

[78] States of Registration

- None

[79] Principle Publications Last Five Years

- O.C. Deale, K.T. Ng, and B.B. Lerman, "Calibrated current divider network for precision current delivery during high-voltage transthoracic defibrillation," IEEE Trans. Biomed. Eng., vol. 52, pp. 1970-1973, 2005.
- K.T. Ng and R. Yan, "Three-dimensional pseudospectral modelling of cardiac propagation in an inhomogeneous anisotropic tissue," Med. & Biol. Eng. & Comput., vol. 41, pp. 618-624, 2003.
- O.C. Deale, K.T. Ng, E.J. Kim-Van Housen, and B.B. Lerman, "Simplified calibration of single-plunge bipolar electrode array for field measurement during defibrillation," IEEE Trans. Biomed. Eng., vol. 49, pp. 1211-1214, 2002.
- O.C. Deale, K.T. Ng, E.J. Kim-Van Housen, and B.B. Lerman, "Calibrated single-plunge bipolar electrode array for mapping myocardial vector fields in three dimensions during high-voltage transthoracic defibrillation," IEEE Trans. Biomed. Eng., vol. 48, pp. 898-910, 2001.
- Z. Zhan and K.T. Ng, "Two-dimensional Chebyshev pseudospectral modelling of cardiac propagation," Med. & Biol. Eng. & Comput., vol. 38, pp. 311-318, 2000.

[80] Scientific & Professional Societies

- Institute of Electrical and Electronics Engineers (IEEE)
- American Society for Engineering Education (ASEE)

[81] Honors & Awards

- Paul W. and Valerie Klipsch Distinguished Professor
- Who's Who Among America's Teachers

[82] Institutional & Professional Service Last Five Years

- Who's Who in Science and Engineering
- NMSU ECE Undergraduate Studies Committee
- NMSU ECE Graduate Studies Committee
- NMSU ECE Promotion and Tenure Committee
- NMSU ECE Department Head Search Committee
- NMSU ECE Faculty Search Committee
- Reviewer, IEEE Transactions, Med. & Biol. Eng. & Comput., Review of Scientific Instruments

[83] Professional Development Last Five Years

- Presenter, IEEE EMBS Society Annual Conference
- Presenter, Biomedical Engineering Society Annual Meeting

Robert Paz

Associate Professor

[84] Education	<p>Ph.D, Electrical Engineering, May 1991, University of Illinois</p> <p>M.S., Electrical Engineering, May 1987, University of Illinois</p> <p>B.S., Electrical Engineering, May 1985, New Mexico State University</p>
[85] Years of Service	<ul style="list-style-type: none">• Associate Professor, New Mexico State University, 7.5 years• Assistant Professor, New Mexico State University, 7.5 years• Teaching Assistant, University of Illinois, 2 years
[86] Other Experience	<ul style="list-style-type: none">• 1984-1987, Summer Intern, Eastman Kodak Company, Rochester, NY• 1988-1990, Summer Research Assistant, Coordinated Science Laboratory, University of Illinois.
[87] Consulting, Patents	<ul style="list-style-type: none">• none.
[88] States of Registration	<ul style="list-style-type: none">• none.
[89] Principle Publications Last Five Years	<ul style="list-style-type: none">• R.A. Paz (2006), "Robust Ripple-Free Deadbeat Tracking," submitted for consideration at the 2006 Automatic Control Conference.R.A. Paz (2005), "Control Design for Undergraduate Students I: Practical System Identification" submitted to IEEE Transactions on Education.• R.A. Paz (2005), "Control Design for Undergraduate Students II: Practical Tracking" submitted to IEEE Transactions on Education.• R.A. Paz (2005), "Deadbeat Tracking with Robustness I: Performance" submitted to International Journal of Controls for consideration.• R.A. Paz (2005), "Deadbeat Tracking with Robustness II: Robustness" submitted to International Journal of Controls for consideration.• R.A. Paz (2000), "Simple Computational Methods for Frequency Domain Robustness Measures" Proceedings of the American Controls Conference 2000, Chicago, pp 3360-3364• R.A. Paz (2000), "Simple Computational Methods for Polynomial Interpolations" Proceedings of the American Controls Conference 2000, Chicago, pp 3365-3369.
[90] Scientific & Professional Societies	<ul style="list-style-type: none">• Institute of Electrical and Electronic Engineers (IEEE)• Control Systems Society of the IEEE, Member of the Technical Committee on Robust Control (TCRC), and the Technical

Committee on Education

- Eta Kappa Nu, Gamma Chi Chapter Advisor
- Tau Beta Pi, Engineering Honor Fraternity
- Sigma Xi, The Scientific Research Society

[91] Honors & Awards

- none.

[92] Institutional & Professional Service Las Five Years

- Westhafer Award Selection Committee (3yrs)
- HKN Chapter Advisor (7 years)
- Klipsch School Undergraduate Studies Committee (member, 2yrs and Chair, 2yrs)

[93] Professional Development Last Five Years

- none

Satish J. Ranade

Professor

Education	Ph.D., University of Florida, July 1981. MSEE, New Mexico State University, August 1977. B. E., Indian Institute of Science, Bangalore (India), August 1976. B.Sc., Saugar University, Sagar (India), September 1973.
Years of Service	1981- (25 Years)
Other Experience Consulting, Patents	Public Service Company of New Mexico(Temporary, Summer/Winter 1984) EMA, Inc., Optimization of Pumping in Water Systems EDSA, Power system analysis software Sandia National Laboratories, Inverters for Renewable Energy and Storage Method to enhance transient loadability of inverters” (2 patents applied for in 2004)
States of Registration	None
Principle Publications Last Five Years	“Extending Transient Loadability of Distributed Energy Resources using Electro-chemical Capacitors”, Electric Energy Storage and Applications (EESAT), San Francisco, CA, March 2002 “Directed Mentoring: A program of Industry-University Collaboration to Revitalize Electric Power Engineering Education”, with H.A. Smolleck, Proc. ASEE 2003 annual conference, Nashville, TN, June 2003 Grady, Liu, Marz, Ranade Ribeiro and Xu “Impact of Aggregate Linear Load Modeling on Harmonic Analysis A Comparison of Common Practice and Analytical Models” IEEE Transactions on Power Delivery, Vol.18, NO. 2, April 2003, pp.625-630 “Directed Mentoring Program and Power Laboratory” with H.A. Smolleck, and J. Mitra Proc. ASEE 2003 annual conference, Nashville, TN, June 2004 “Extending Transient Loadability of Distributed Energy Resources using Electro-chemical Capacitors”, Electric Energy Storage and Applications (EESAT), San Francisco, CA, March 2003 Mechenbier, Ellis, Curtner, Ranade, “Design of An Under Voltage Load Shedding Scheme”, Proc. IEEE Power Engineering Society General Meeting, Denver, June 2004 S. J. Ranade, R. Kolluru, J. Mitra, “Identification of chains of events leading to catastrophic failures of power systems,” International Symposium on Circuits and Systems, Kobe, Japan, May 23-26, 2005. Joydeep Mitra, Shashi B. Patra, Satish J. Ranade, "Microgrid Architecture: A Reliability Constrained Approach", IEEE Power Engineering Society General Meeting June 12-16 2005, San Francisco. Joydeep Mitra, Shashi B. Patra, Satish J. Ranade, "A Dynamic Programming Based Approach for Developing Optimal Microgrid Architectures", PSCC 2005, June 2005, Leige, Belgium Deepak R. Sagi, Satish J. Ranade and Abraham Ellis, "Physically Based Load Composition Estimation", Proceedings of the 37th annual North American Power Symposium, Ames, IA, Oct 2005.

S. A. Al-Askari , S. J. Ranade, J. Mitra, “Optimal Allocation of Shunt Capacitors Placed in a Microgrid Operating in the Islanded Mode,” Proceedings of the 37th annual North American Power Symposium, Ames, IA, Oct 2005.

J. Mitra, S. B. Patra and S. J. Ranade, “Reliability Stipulated Microgrid Architecture Using Particle Swarm Optimization,” to be presented at the 9th International Conference on Probabilistic Methods Applied to Power Systems, Stockholm, Sweden, June 2006.

J.Mitra , S.J. Ranade, “A Self-Supporting Microgrid Architecture Achievable with Today’s Technology,” Panel Paper to be presented at the Transmission and Distribution Conference and Exposition, Dallas, TX, May 2006.

S. Ranade, D. Sagi, A. Ellis, “Identifying Load Inventory from Measurements”, to be presented at the IEEE-PES Transmission and Distribution Conference and Exposition, Dallas, TX, May 2006.

S. Ranade, “Load Understanding and Model Development” to be presented at the IEEE-PES Transmission and Distribution Conference and Exposition, Dallas, TX, May 2006.

S. A. Al-Askari, S. J. Ranade, J. Mitra “Designing a Sufficient Reactive Power Supply Scheme to Multi-Islands in a Microgrid,” to be presented at the IEEE-PES Annual General Meeting, Montreal, Canada, June 2006.

Scientific &
Professional Societies
Honors & Awards

IEEE Senior Member

IEEE PES T&D Committee Distinguished Service Award, 2006

PNM Chair in Utility Management, NMSU, 2004

Klipsch Distinguished Professor, NMSU, 2002

Institute of Electrical and Electronics Engineers, Power Engineering Society Working Group Recognition award for the Task Force tutorial on "Harmonics Modeling and Simulation",

Institute of Electrical and Electronics Engineers, T. Burke Hayes/Power Engineering Society, Faculty Recognition Award, 1996.

Institute of Electrical and Electronics Engineers, T. Burke Hayes/Power Engineering Society, Faculty Recognition Award, 1990

Public Service Company of New Mexico Foundation, Inc., Distinguished Educator Award, 1989.

Public Service Company of New Mexico Foundation, Inc., Distinguished Educator Award, 1988,

Institutional &
Professional Service
Las Five Years

NMSU Faculty Senate

Klipsch P&T Committee.

IEEE Power Engineering Society

Technical Program Chair 2005-2006 T&D Conference and Exposition

Program Coordinator T&D Committee

Elected Secretary T&D Committee for 2007-2009

Professional
Development
Last Five Years

NMSU GRASP for teaching improvement

Attended or Taught in five short courses.

Howard A. Smolleck

Professor

- Education** PhD, University of Texas at Arlington, 1975
 MSEE, University of Texas at Arlington, 1970
 BSEE, University of Texas at Arlington, 1969
- Years of** 27 years at New Mexico State University, 1979-2006
- Service** (Professor, Klipsch School, 1990-present)
 (Associate Professor, 1979-1990)
 5 years at Old Dominion University (Assistant Professor), 1974-1979
- Other** Adjunct Professor, Old Dominion University, 1995-present
- Experience**
- Consulting,** Consultant, power quality, Los Alamos National Laboratory (1993-1998)
- Patents** Consultant to numerous legal firms on electric safety cases and issues
- States of** New Mexico (PE), and Virginia (PE)
- Registration** First-class FCC radiotelephone license with ship radar endorsement

Principal Publications of Last Five Years

In 2004, I was contracted by Engineering Press/Dearborn/Kaplan to rewrite the book **EIT Electrical Review**, originally by Lincoln D. Jones. The new work was published in early 2005 by AEC Kaplan Education and carries my name as “Contributing Author”.

David L. McKinnon and Howard A. Smolleck, “Influence of rotor residual flux on the measurement of inductance and its possible use as an impending fault indicator”, presented at the Electrical Manufacturing Expo (EMCW2004 Technical Conference) Sept 20-22, 2004, Indianapolis, Indiana.

H. A. Smolleck, N. R. Prasad, B. Powell, B. Jayanti, S. Manshad, S. Divakarla, “Development and use of a software learning tool for instruction in alternating-current fundamentals”, Sixth Interamerican Conf. on Engr. and Tech. Educ. (Intertech 2000), June 14-16, 2000, Cincinnati, Ohio.

H. A. Smolleck and S. J. Ranade, “Directed Mentoring: A program of industry-university collaboration to revitalize electric power engineering education”, Proc. Of the ASEE Annual Conference and Exposition, Nashville, TN, June 22-25, 2003.

H. A. Smolleck and S. J. Ranade, "Recent Experience with Directed Mentoring and Laboratory Development in the Electric Power Area", Proc. Of the ASEE Annual Conference and Exposition, Salt Lake City, UT, June 20-23, 2004.

Scientific & Institute of Electrical and Electronics Engineers (IEEE) (Senior Member)

Professional American Society of Engineering Education (ASEE)

Societies National Society of Professional Engineers

American Guild of Organists (Past Dean)

Tau Beta Pi, Eta Kappa Nu, Alpha Chi (honor societies)

Honors and

Awards Ralph R. Teetor Educational Award, presented in Detroit by the Society of Automotive Engineers (1982)

Second-place winner in Zenith Data Systems Masters of Innovation national competition (1992). Awarded two Zenith MastersPort 386 notebook computers.

Elected from regular to honor membership in Alpha Chi National Honor Scholarship Society in recognition of services at the local and regional levels of Alpha Chi (1979).

Institutional

and Chair, Working Group, T. Burke Hayes Student Prize Paper Award,

Professional IEEE Power Engineering Society

Service Last Member, Technical Sessions Subcommittee, Power Systems Education Committee, IEEE Power Engineering Society

Five Years Editorial staff, Electric Power Systems Research Journal

Reviewer for several IEEE Transactions and

for Electric Power System Research Journal

Received award at the final plenary session of the Alpha Chi National Conference in Washington, DC in Spring 2004 for 25 years of service as sponsor on two college campuses and for national committee work.

Professional Attended ASEE and IEEE/PES national meetings, at least one or two per year, and

Development presented papers at these meetings and at FIE.

Last Taught short courses at LANL, Jefferson Labs, NMSU, Old Dominion University,

Five years Naval surface Warfare Center, Farmington Electric Utilities, etc.

Steve Stochaj Professor

Education

B.A. Physics & Mathematics, Franklin and Marshall College, Lancaster, PA (1983)

Ph.D. Physics, University of Maryland, College Park, MD (1990)

Years of Service

- Professor, New Mexico State University, 2005 - present.
- Associate Professor: New Mexico State University, 2001 – 2005.
- Director of the Particle Astrophysics Lab: New Mexico State University, 1996 - present.
- Assistant Professor: New Mexico State University, 1996 - 2001.
- College Assistant Professor: New Mexico State University, 1990 - 1996

Other Experience

- NASA Graduate Research Fellow: Goddard Space Flight Center / University of Maryland, 1987 - 1990.

Consulting, Patents

- none

States of Registration

- none

Principle Publications Last Five Years

- NIGHTGLOW: an instrument to measure the Earth's nighttime ultraviolet glow—results from the first engineering flight, Barbier, L. M., et al., *Astroparticle Physics*, 22 (2005) 439.
- High-Energy Deuteron Measurement with the CAPRICE98 Experiment}, Papini, P., et al., *Astrophysical Journal* 615 (2004) 259.
- PAMELA: a satellite experiment for antiparticles measurement in cosmic rays} Bongi, M., et al., *IEEE Transactions on Nuclear Science* 51 (2004) 854.
- Simulation study of the silicon-tungsten calorimeter for ACCESS, Bravar, U., et al., *Astroparticle Physics*, 19, (2003) 463.
- Energy spectra of atmospheric muons measured with the CAPRICE98 balloon experiment}, Boezio, M., et al., *Physical Review D*, 67, (2003) 072003.
- Measurements of the absolute energy spectra of cosmic-ray positrons and electrons above 7 GeV, Grimani, C., et al., *Astronomy and Astrophysics*, 392, (2002) 287..

**Scientific &
Professional
Societies**

- American Physical Society
- IEEE
- ASEE

Honors & Awards

- Donald C. Roush Excellence in Teaching Awards 2004
- Bromilow Award for Research Excellence 2005

**Institutional &
Professional
Service Las Five
Years**

- Undergraduate Studies Committee
- Departmental P&T Committee
- College P&T Committee
- ABET Departmental Coordinator

**Professional
Development
Last Five Years**

- Teaching Academy Seminary and Talks.

Javin M. Taylor

Professor Emeritus

[94] Education

PhD, University of Wyoming, 1970

MSEE, University of Southern California, 1962

BSEE, University of Illinois, 1957

[95] Years of Service

- 2002–Present -- Professor Emeritus, Klipsch School
- 1987–1989 – Head, Klipsch School
- 1983–2002 -- Professor, Klipsch School.
- 1977–1983 – Associate Professor, Klipsch School.
- 1976-1977 – Visiting Associate Professor, Klipsch School
- 1970 – 1976 -- Associate Professor, University of Missouri – Rolla.
- 1970 – Lecturer and Assistant Professor, California State College at Los Angeles
- 1969-1970 – Research Engineer, Rockwell.
- 1966-1969 – Instructor and Research Engineer, University of Wyoming.
- 1962-1966 – Engineering Specialist, Litton Industries.
- 1959-1962 – Engineer, TRW
- 1957-1959 – Field Engineer, Hughes Aircraft Company

[96] Other Experience

[97] Consulting, Patents

- Consultant, White Sands Missile Range, 1976--1979
- Lecturer and Program Reviewer, Electrical and Computer Engineering Department, Kuwait, University, 1989.
- ABET Program Evaluator, EE and Comp. Eng. ,1988-1994.
- Internal Review, Computer Science and Engineering, University of Quebec at Hull.
- Internal Review, Electrical and Computer Engineering, University of Texas at Arlington.

[98] States of Registration

- None.

[99] Principle Publications Last Five Years

- None since retirement.

[100] Scientific & Professional Societies

- IEEE, Senior Member.

[101] Honors & Awards

- None since retirement.

**[102] Institutional & Professional Service
Las Five Years**

- Occasional Teaching, Active in University and Klipsch School Advancement.

**[103] Professional Development
Last Five Years**

- None since retirement.