

## **PARVEEN F. WAHID**

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Electrical Engineering Department  
University of Central Florida  
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### **EDUCATIONAL QUALIFICATIONS**

1979 Ph.D., Electrical Communication Engineering, Indian Institute of Science, Bangalore, India  
1971 M.Sc., Physics, University of Mysore, India  
1969 B.Sc., Physics, Mathematics (Majors); Chemistry (Minor), University of Mysore, India.

### **WORK EXPERIENCE**

Aug 1999 - Professor, Electrical and Computer Engineering Department, University of Central Florida, Orlando Florida  
Aug 1991–Jul 1999: Associate Professor, Electrical and Computer Engineering Department, University of Central Florida, Orlando Florida  
Aug 1985 - Jul 1991: Assistant Professor, Electrical Engineering Department, University of Central Florida, Orlando, Florida.  
Aug 1984 - Jul 1985: Visiting Assistant Professor, Electrical Engineering Department, University of Central Florida, Orlando, Florida.  
Sep 1982 - Aug 1983: Research Associate, Electrical Engineering Department, University of Nebraska, Lincoln, Nebraska.  
Oct 1980 - Jun 1982: Research Associate, Electrical Engineering Department, University of Utah, Utah.  
Nov 1979 - Sep 1980: Postdoctoral Research Associate, Electrical Communication Engineering Department, Indian Institute of Science, Bangalore, India.  
Jan 1976 - Sep 1979: Research Student, Electrical Communication Engineering Department, Indian Institute of Science, Bangalore, India.  
Dec 1972 - Dec 1975: CSIR Junior Research Fellow, Electrical and Communication Engineering, Indian Institute of Science, Bangalore, India.

### **PROFESSIONAL AFFILIATIONS**

Senior Member: Institute of Electrical and Electronics Engineers (IEEE)  
Member: IEEE Antennas and Propagation Society  
IEEE Microwave Theory and Techniques Society  
Engineering Honor Societies, Tau Beta Pi and Eta Kappa Nu  
Member American Society of Engineering Education  
Elected Member: International URSI, Commission B  
Elected Member: International URSI, Commission K  
Senior Member: Society of Women Engineers (SWE) 1995-2001  
Elected Member: IEEE Antennas and Propagation AD-COM, 2000 - 2003  
Associate Editor, IEEE Transaction on Antennas and Propagation, 2001-2004

Associate Editor, IEEE AP Magazine  
Associate Editor, International Journal of Antennas and Propagation  
Associate Editor, Computer Applications in Engineering Education

## HONORS AND AWARDS

- 2013 Provost Faculty Fellow
- 2012 Women of Distinction: Excellence in Mentoring Award, UCF Center for Success of Women Faculty**
- 2011 Provost Teaching Faculty Fellow
- 2010 Teaching Incentive Program (TIP), College of Engineering Excellence in Teaching Award**
- 2010 Excellence in Professional Service Award, College of Engineering and Computer Science
- 2006 IEEE Orlando Section, Outstanding Engineer of the Year
- 2004 Teaching Incentive Program (TIP), College of Engineering Excellence in Teaching Award**
- 2000 IEEE Region 3, Joseph M. Beidenbach Outstanding Engineering Educator Award**
- 2000 IEEE Florida Council, Outstanding Engineering Educator Award
- 2000 IEEE Third Millennium Award for Outstanding Service**
- 1999 Teaching Incentive Program (TIP), College of Engineering Excellence in Teaching Award**
- 1999 IEEE Orlando Section, Engineering Educator Award
- 1998 IEEE Orlando Section, Outstanding Service Award
- 1997 University of Central Florida, Excellence in Professional Service Award**
- 1997 College of Engineering, Excellence in Professional Service Award
- 1997 Nominated, IEEE Orlando Section Engineering Educator Award
- 1996 Honorable Mention, University Faculty Leadership Award
- 1995 Society of Women Engineers, Award for Outstanding Contributions as Faculty Advisor
- 1994 Society of Women Engineers Outstanding Faculty Advisor
- 1994 Teaching Incentive Program (TIP), College of Engineering Excellence in Teaching Award**
- 1991 University of Central Florida, Excellence in Advising Award**
- 1990 Nominated, Electrical Engineering Teacher of the Year
- 1990 Nominated, College of Engineering Excellence in Teaching
- 1989 Electrical Engineering Outstanding Teacher
- 1989 Tau Beta Pi Professor of the Year**

## ADMINISTRATIVE EXPERIENCE

- May 2004 – Jan 2005 Expert Appointment, ECS Division, National Science Foundation
- 1997 - 1998: Graduate Coordinator, ECE Department
- 1990 - 1993: Assistant Chair, Electrical Engineering Department
- 1990 - 2001: Director of Women in Engineering Programs
- 1992 Summer: Acting Chair, Electrical and Computer Engineering Department

1991 Summer: Acting Chair, Electrical Engineering Department

## TEACHING

2010 Teaching Incentive Program (TIP), College of Engineering Excellence in Teaching Award  
2000 IEEE Region 3, Joseph M. Beidenbach Outstanding Engineering Educator Award  
2000 IEEE Florida Council, Outstanding Engineering Educator Award  
1999 Teaching Incentive Program (TIP), College of Engineering Excellence in Teaching Award  
1999 IEEE Orlando Section, Engineering Educator Award  
1997 Nominated, IEEE Orlando Section Engineering Educator Award  
1994 Teaching Incentive Program (TIP), College of Engineering Excellence in Teaching Award  
1990 Nominated, Electrical Engineering Teacher of the Year  
1990 Nominated, College of Engineering Excellence in Teaching  
1989 Electrical Engineering Outstanding Teacher  
1989 Tau Beta Pi Professor of the Year

## **COURSES TAUGHT**

EGN 3373 Principles of Electrical Engineering  
EGN 1006 Introduction to Engineering  
EEL 3470 Engineering Electromagnetics  
EEL 3122 Electrical Networks  
EEL 3123 Electric Networks and Systems  
EEL 3552 Signals and Communication Systems  
EEL 4436 Microwave Engineering  
EEL 5434 Microwave Circuits and Devices  
EEL 5462 Antenna Theory and Design  
EEL 5937 Biomedical Effects and Applications of Electromagnetic Energy  
EEL 6488 Advanced Electromagnetics  
EEL 6463 Advanced Antenna Theory

## **MASTER'S THESIS SUPERVISED**

- **Tripti Luintel**, Modified Sierpinski fractal antenna, Fall 2004
- **Anand Arumugam** Design of a dual frequency tuneable patch antenna, Spring 2004
- **Ravishankar Palaniappan** Ultrawide-band signal propagation analysis in indoor environments, Fall 2002
- **Mohammed Wafaa** Electronically scanning phased arrays, Fall 2002
- **Mohammed. Rohel** Design of a conformal UHF antenna, Summer 2001
- **Christopher Johnson** Analysis of bodies of revolution using the finite difference time domain method with application to corrugated horns, Fall 2000
- **Douglas Rodriguez** FDTD analysis of cavity backed circular patch antennas, Summer 2000

- **Mahfuzul. Haque** Design of a low loss microstrip antenna array for radiometric applications, Summer 2000
- **Mir Faiz** Design of an L band high efficiency microstrip antenna, Spring 1999
- **Mohua Kar** FDTD analysis of microstrip lines and antennas, Summer 1997
- **Marko Rubelj** Microstrip antenna array for direct broadcast satellite reception, Summer 1996
- **Daniel Meeks** Wrap-around microstrip antenna on a conical surface, Fall 1994
- **Hyden Pham** Effects of mutual coupling between antennas on various platforms, Summer 1994
- **Thomas Voor** Mutual impedance of skewed patch antennas, Fall 1991
- **Georgeanne Radloff** Analysis of unbalanced striplines, Fall 1991
- **Patrick Sisk** Characterization and optimization of cerium dioxide thin films fabricated using RF sputtering, Summer 1991
- **Laurie Dunn** Mutual coupling between skewed microstrip patch antennas, Spring 1990
- **Jeffrey Rollman** Ka band monolithic GaAs MESFET amplifier design, Fall 1989
- **Ronald Turner** Surface acoustic wave variable delay lines, Summer 1989
- **Natalie Day** Data association using Munkre's algorithm for a multiple target tracking system, Summer 1988
- **Khalil Almaalouf** The time slot interchange in a digital central office, Spring 1988
- **Golie Pourparviz** Design and implementation of a interdigitated directional coupler for use in microwave mixers, Fall 1987
- **Rachel Albritton** Implementation of a 35 GHz microstrip antenna system, Summer 1987.

#### **Ph.D. DISSERTATIONS SUPERVISED**

- **Weishu Zhou** Analysis of microstrip antennas on finite ground planes, Fall 1996
- **Phillip Tang** Fractal antennas, Spring 2002
- **Mohua Kar** Diversity schemes for wireless communications, Spring 2003
- **Maha Ali** Design of reconfigurable and adaptive antennas for wireless communications, Spring 2004
- **Rajesh Paryani** A Wideband dual-polarized, substrate integrated cavity-backed slot antennas, Co-Advisor - Dr. Nader Behdad, Spring 2010;
- **Ravishankar Palaniappan** A self-organizing hybrid sensor system with distributed data fusion for intruder tracking and surveillance, Summer 2010
- **Dawn Trout** Electromagnetic environment in payload fairing cavities, Spring 2012
- **Ya Shen**, BST-Inspired smart flexible electronics; Co-Advisor - Dr. Xun Gong, Fall 2012
- **Chen Li**, Investigations on the nonlinear characteristics of SAW duplexers, Co-Advisor, Dr. Don Malocha, Summer 2013.
- **Maryory Urdenata** Pre-PhD
- **Sreekala Papali** Pre-PhD

#### **Ph.D. Committee Member**

- Robert Mertens, Characterization, morphology, oxidation and recession of silicon nanowires grown by electroless process, Summer 2012

- Justin Luther, Microstrip patch electrically steerable parasitic array radiators, Spring 2013
- Abdullah Zakariya, Monolithically integrated broadly tunable light emitters based on selectively intermixed quantum wells, Summer 2013
- Shaohua Lin, Multi-physics modeling of key components in high efficiency vehicle drive, Spring 2013
- Sayak Biswas, Brightness temperature calibration of SAC-IV Aquarius microwave radiometer, Fall 2011
- Ruba Amarin, Hurricane wind speed and rain rate measurements using the airborne hurricane imaging radiometer, Spring 2010
- James Ginn III, Phase shaping in the infrared by planar quasi-periodic surfaces comprised of sub-wavelength elements, Spring 2009
- Salem Fawwaz El-Nimri, Development of an improved microwave ocean surface emissivity radiative transfer model, Fall 2009
- Xiaomin Yang, Physical properties of wave scattering by chiral periodic structures, Fall 2009
- Kaisar Khan – Numerical modeling of wave propagation in nonlinear photonic crystal fiber, Summer 2008
- Zhibing Ge, Modeling of liquid crystal display and photonic devices, Fall 2007
- Khalil Ahmad, Oceanic rain rate estimates from QuickSat radiometer, Fall 2007
- Robert Bernath High-intensity ultra-fast laser interaction technologies, Fall 2007
- Xiangyi Nie, Anchoring energy and pretilt angle effects on liquid crystal response time, Fall 2007
- Thakara Dissanayake, Ultra wideband antennas for wireless communication, Macquarie University, Sydney Australia, External Examiner, Spring 2007
- Yanxia Wang, High speed turbo TCM OFDM for UWB and powerline systems, Spring 2006
- Qi Hong, Wide viewing angle liquid crystals displays, Fall 2006
- Binu Paul, Cochin University of Science and Technology, India, Development and analysis of microstrip antennas for dual band microwave communications, Summer 2006
- Wendell Brokaw, Solution of electromagnetic scattering parameters and radiation patterns of arbitrary body of revolution radiators, Fall 2005
- Hao Dong, Advanced analysis and design of miniaturized RF SAW duplexer package, Summer 2005
- Pu Su, QoS in cognitive packet networks: Adaptive routing, flow and congestion control, Fall 2005
- Zahid Yaqoob, Grating based real-time smart optics for bio-medicine and communications, Fall 2003
- Michael Gritz, Fabrication of infrared antennas, Spring 2003
- Ricardo Lent, On the design and performance of cognitive packets over wired networks and mobile Ad Hoc networks, Spring 2003
- Xiaomin Yang, Advanced RF IC design for wireless communications, Candidacy, Spring 2001
- Javier Gonzalez, Antenna-coupled infrared focal plane arrays, Candidacy, Spring 2002
- Maurice Nabritt, Simulation and performance analysis of a wireless local area network, Spring 2002
- Irina Puscasu, Analysis of reflection, transmission and absorption of frequency selective surfaces in the infrared, Spring 2002
- Julian Codreanu, Microstrip antenna coupled infrared detectors, Fall 2001
- Don Jacob, Analysis and design of resonant grating filters and devices, Fall 2001
- Mohammed Al-Mumin, Two section gain-coupled DFB lasers and their applications for wireless networks, Summer 2001

- Hala Elaarag, Transport control protocols for the success of the internet, Fall 2000
- Javier Gomez, Active impedance of a stacked microstrip antenna array, Spring 1999
- Josko Zec, NASA scatterometer beam balance using homogeneous land targets, Summer 1998
- Ahmed Zoogby, Neural network based adaptive array antennas for mobile communications, Fall 1999
- Anita Kotha, Scattering effects of machined optical surfaces, Fall 1997
- Toni Ivanov, Quasi optical microwave power amplifiers, Summer 1997
- Gregory Turner, Analysis of multilayer phased array antennas using FDTD method, 1998
- Youcheng Liu, Frequency selective surfaces on ferrite substrates, Spring 1996
- Timothy Durham, Integral equation analysis of composite bodies of revolution and arbitrary surfaces with application to cavity backed antennas, Fall 1992.
- Cam Nguyen, Computer aided non-linear analysis of microwave and millimeter wave amplifiers, Fall 1990

32 **Independent Study** students and 2 **Undergraduate Honor's thesis** supervised.

## **OTHER SCHOLARLY WORK**

Associate Editor, IEEE Transactions on Antennas and Propagation, 2001-2004

Associate Editor, Antennas and Propagation Magazine

Associate Editor, International Journal of Antennas and Propagation

NSF Panel Reviewer

Reviewer: IEEE Transactions on Antennas and Propagation

IEEE Transactions on Microwave Theory and Techniques

IEEE International Conference on Antennas and Propagation

IEEE Antennas and Wireless Propagation Letters

IEEE Transactions on Vehicular Technology

Radio Science

- Book – “Fundamentals of Antennas”, C. Christodoulou and Parveen Wahid, published by SPIE, September 2001
- C. G. Christodoulou and P. F. Wahid, Chapter “Antennas”, John Wiley Encyclopedia of RF and Microwave Engineering, 2004
- C. G. Christodoulou and P. F. Wahid, Chapter on "Antennas" for the Encyclopedia of Electrical and Electronics Engineering, John Wiley and Sons, 1999.
- P. F. Wahid, C. G. Christodoulou and F. Ayoub, “Experiments in Microwaves" Lab manual for the Microwave Engineering Course, 1985.
- P. Wahid and Y. Shen, “Networks and Systems”, Lab Manual for the Electrical Networks and Systems Course, 2011
- Book Review: Antennas, John Seybold, 2004
- Book Review: Mathematics for Fields, M. Maxum, SPIE Press
- Book Review: 2 Chapters of "Numerical Methods in Electromagnetics" by M. N. O. Sadiku, CRC Press, 1992.
- Book Review: "Elements of Microwave Engineering", R. Chatterjee, EWP Press, India, 1983.

## RESEARCH

Areas of Interest: Electromagnetics, Antenna Design and Analysis

### **FUNDED RESEARCH PROJECTS**

- Department of Defense, **(\$201,500)** Hardware assisted large scale neuroevolution for multiagent learning, Co-PI: Wahid (\$14,100), 2013
- Harris Corporation, **(\$40,000)**, Compact low profile antennas, P.I. P. Wahid, Co-PIs: Nader Behdad and Xun Gong, Nov 07-Jul 08
- UCF/I-4 Match, **(\$20,000)**, Compact low profile antennas, P. Wahid P.I., Co-PIs: Nader Behdad and Xun Gong, , Nov 07-Jul 08, \$40,000
- NSF REU site: Advances in machine learning in theory and applications Co-P.I.
- NSF MRI, **(\$100,475)**, Acquisition of a universal wireless communications systems emulator, P.I: L. Wei, P. Wahid and M. Georgiopoulos .
- NSF-ADVANCE Collaborative Proposal, Program for women engineering faculty leadership development, NSF, Co-PI, **(\$119, 000)** Multi-University proposal, Nov 2002
- STRICOM/UCF, **(\$325,000)**, Ultra-wideband position location and tracking in live simulation for training in emergency response and homeland security, Fall 2002-Spring 2003, P.I: G. Shiavone, P.F. Wahid and A. Cortes
- Lockheed-Martin and UCF I-4 Grant, **(\$70,000)**, Analysis of electronically scanned array of high gain elements , Jan 2001- Dec. 2001, P.I: P. F. Wahid
- Harris (Intersil) and UCF I-4 Grant, **(\$ 772,000)**, Antennas to Bits, Jan 1999 – Dec. 2003, P.I: W. Mikhael, J. Liou, P. F. Wahid
- Florida Space Grant Consortium Fellowship, **(\$36,000)**, Polarization schemes for wireless communications, Fall 2000-Spring 2003, Student Mohua Kar
- Raytheon/E-Systems, **(\$35,000)**, Design of a UHF conformal antenna, Aug 2000 – Aug 2001, P.I: P. F. Wahid .
- Raytheon/E-Systems, **(\$11,000)**, Active Impedance of a Stacked Microstrip Antenna Array, May 1999- Dec. 1999, P.I: P. F. Wahid
- National Science Foundation, **(\$10,000)** Special Session on Wireless Technology and Information Systems at The IEEE International Conference on Antennas and Propagation, July 1999, P.I: P. F. Wahid
- UCF I-4 Technology Grant, **(\$45,000)** Smart Antennas for Wireless Communications, January 1999- December 1999, P.I: P. F. Wahid.
- E-Systems/Raytheon, **(\$25,000)**, Active Impedance Simulation for Stacked Microstrip Antenna Arrays, January 1999- April 1999, P.I: P. F. Wahid.
- NASA Langley Research Center, **(\$75,000)**, A Low Loss Microstrip Antenna for Radiometric Applications, January 1999 – December 1999, P.I: P. F. Wahid.
- E-Systems/Raytheon, **(\$50,000)**, Active Impedance Simulation for Stacked Microstrip Antenna Arrays, March 1997 - December 1998, P.I.s: C. Christodoulou and P. F. Wahid
- Florida Space Grant Consortium, **(\$20,000)** ), including \$10,000 Industry Match, Natural Disaster Assessment using SAR Remote Sensing, May 1998 - April 1999, P.I: P. Wahid and L. Jones.
- Florida Space Grant Consortium, **(\$20,000)**, Investigations on a Microstrip Antenna Array for a

Direct Broadcast Satellite Receiver, May 1996 - May 1997, P.I.s: Drs. P. Wahid and C. Christodoulou.

- Florida Space Grant Consortium, **(\$8,000)**, Visualization of Electromagnetic Fields using MATLAB,, Summer 1998, P. Wahid
- Florida Space Grant Consortium, **(\$6,000)**, Academic Year Undergraduate Program, Investigations on Antennas for Space Applications, Fall 1996 - Spring 1997
- Florida Space Grant Consortium, **(\$6,000)**, Undergraduate Research Program, Analysis of Square Spiral Conformal Microstrip Antennas for Space Vehicles, Summer 1996.
- NASA/ASEE Summer Faculty Fellowship, **(\$10,000)**, Kennedy Space Center, Cape Canaveral, Lightning Electromagnetics, Summer 1995.
- Florida Space Grant Consortium, **(\$20,000)**, Design of a Microstrip Antenna Array for a Direct Broadcast Satellite receiver, Summer 1994 – Summer 1995, P.I.s: P. Wahid and C. Christodoulou
- Florida Space Grant Consortium, **(\$ 4,000)**, Undergraduate Research Participation Program, "Square Spiral Conformal Microstrip Antennas for Space Vehicles", Summer 1995.
- Navy Grant, **(\$460,000)**, Tactical Electronics Test Simulation System Project, Phase I, Fall 1990 - Spring 1990, Co-P.I.
- EIES Grant, UCF **(\$17,810)**, , Analysis of skewed microstrip patch antennas, Spring 1990 - Summer 1990, P.I.s: P. F. Wahid and C. Christodoulou.
- Division of Sponsored Research, UCF **(\$9,000)**, A study of Cerium Dioxide Thin Films Optical Waveguides, Summer 1989 - Summer 1990, P.I.s: P. F. Wahid and K. Sundaram.
- Florida High Technology Council, **(\$195,540)**, High Frequency Surface Acoustic Wave Devices", March 1988 - March 1989, P.I.s: D. Malocha, M. Belkerdid and P. Wahid.
- Martin Marietta Aerospace **(\$40,000)**, Very High Speed Technology Study II, Summer 1987 - Fall 1987, P.I.s: M. Belkerdid, P. Wahid and D. Malocha.
- Martin Marietta Aerospace **(\$50,000)**, Very High Speed Technology Study, Spring 1986 - Summer 1986, P.I.s: D. Malocha, M. Belkerdid and P. Wahid.
- Division of Sponsored Research, UCF, **(\$10,000)**, SAW Delay Lines for Microstrip Phased Array Antennas, Summer 1986 , P.I.s: P. Wahid and D. Malocha.
- CREOL, UCF **(\$7,000)**, Proof of Concept for a Hybrid Optical Computer for Phased Array Antennas, Spring 1987, P.I.s: C. Christodoulou and P. Wahid
- EIES Grant, UCF **(\$5,000)**, Design and Fabrication of Microstrip Phased Array Antennas, Spring 1986, P.I: P. Wahid.

## REFEREED JOURNAL PUBLICATIONS

- Evaluation of lightning induced effects in composite fairing structure, D. H. Trout, J. E. Stanley, and P. F. Wahid, Applied Computational Electromagnetics Society, Vol. 26, No. 12, pp. 981-988, December 2011
- Electromagnetic launch vehicle fairing and acoustic blanket model of received power using FEKO, D. H. Trout, J. E. Stanley, and P. F. Wahid, *Applied Computational Electromagnetics Journal*, Vol. 26, No. 12, pp. 973-980, December 2011.
- Analysis of multi-layer composite cavity using FEKO, J. Stanley, D. Trout, S. Earles, I. Kostanic and P. Wahid, *ACES Journal*, Vol. 25, pp. 69-74, 2010.



- A Wideband, Dual-Polarized, Differentially-Fed Cavity-Backed Slot Antenna, R. Paryani, P. Wahid and N. Behdad, IEEE Antennas and Wireless Propagation Letters, Vol. 9, pp. 645-648, 2010.
- Hexagonal multiband fractal antenna, Phillip Tang and Parveen F. Wahid, IEEE Antennas and Wireless Propagation Letters, Volume 3, pp 111-112, September 2004
- A reconfigurable Yagi antenna for wireless communications, P. F. Wahid, M. A. Ali and B. C. DeLoach, Jr., Microwave and Optical Technology Letters, Vol. 38, pp. 140-141, July 2003
- Analysis of ultra-wide band signal propagation in an indoor environment”, Guy Schiavone, Ravi Palaniappan, Judd Tracy and Parveen Wahid, Microwave and Optical Technology Letters, pp 13-17, January 2003
- Evaluation of polarization diversity schemes using dipole antennas”, M. Kar and P.F. Wahid, Microwave and Optical Technology Letters, Vol. 33, no. 4, pp. 277-284, 2002
- FDTD analysis of finite phased arrays of stacked microstrip antennas, J. Gomez-Tagle, P. Wahid, M.T. Chryssomallis and C. Christodoulou, IEEE Transactions on Antennas and Propagation, Vol. 51, No. 8, pp. 2057-2062, August 2003.
- Effects of mutual coupling effect in adaptive arrays, Maha Ali and P. F. Wahid, Microwave and Optical Technology Letters, Vol. 35, pp. 270-274, November 2002
- Evaluation of polarization diversity schemes using dipole antennas , Mohua Kar and P. F. Wahid, Microwave and Optical Technology Letters, Vol. 33, No. 4, , May 2002, pp. 277-284.
- Analysis of a corrugated horn using the BOR-FDTD method, Christopher Johnson and P. F. Wahid, Microwave and Optical Technology Letters, Vol. 33, No. 6, June 2002, pp. 452-457.
- Design of a low-loss series fed foldable microstrip array antenna, C. Christodoulou, P. Wahid and M.C. Bailey, IEEE Transactions on Antennas and Propagation, August 2000.
- Dyadic Green's function for a microstrip antenna with the patch and ground plane of the same size, Journal of Electromagnetic Waves and Applications, W. Zhou and P. F. Wahid Vol. 12, July 1998, 589-603.
- Analysis of microstrip antennas on finite ground planes, W. Zhou and P. F. Wahid, Microwave and Optical Technology Letters, Vol. 15, No. 4, July 1997, pp. 204-207.
- Design of a microstrip antenna array design for direct broadcast satellite receivers, M. Rubelj, P. Wahid and C. G. Christodoulou, Microwave and Optical Technology Letters, Vol. 15, No. 2, June 1997, pp. 68-72.
- Deposition and x-ray photoelectron spectroscopy studies on sputtered cerium dioxide thin films, K. B. Sundaram, P. Wahid and O. Melendez, Journal of Vacuum Science Technology, Jan-Feb 1997, pp. 52-57
- Mutual coupling between skewed microstrip antennas, P. Wahid and T. Voor, IEEE Transactions on Antennas and Propagation, Vol. AP 42, No. 5, May 1994, pp. 754-756.
- A microwave gaussian beam launcher with an active aperture blockage to control the spot size of the beam, C. Gu, P. S. Neelakanta, V. Ungvichian and P. F. Wahid, IEEE Transactions on Microwave Theory and Techniques, Vol. MTT 94, No. 3, March 1994, pp. 520-522.
- Radiation characteristics of an aperture on the surface of a composite medium, C. Gu, P. Neelakanta, and P. F. Wahid, AEU, International Journal of Electronics and Communication, Vol. 47, No. 1, January 1993, pp. 60-61.
- Cerium dioxide thin film optical waveguides, P. F. Wahid, K. B. Sundaram and P. Sisk, Optics and Laser Technology, Vol. 24, No. 5, October 1992, pp. 263-266.
- Characterization and optimization of cerium dioxide films deposited using RF magnetron

- sputtering, K. B. Sundaram, P. F. Wahid and P. Sisk, *Thin Solid Films*, Vol. 221, 1992, pp. 13-16.
- Measurement of the permittivity of a dielectric/film at microwave frequencies using the test sample as a radiator, P. Neelakanta, C. Gu and P. F. Wahid, *Institution of Electronics and Telecommunications Engineers Technical Review, India*, Vol. 8, No. 6, Nov.-Dec. 1991, pp. 339-343.
  - Radiated fields of microstrip patches at arbitrary angular positions, P. Wahid, C. Christodoulou and K. Rutkowski, *Microwave and Optical Technology Letters*, Vol. 5, No. 1, January 1992, pp. 7-10.
  - Mutual coupling between skewed microstrip patch antennas, P. Wahid, G. L. Dunn and D. Dunn, *Microwave and Optical Technology Letters*, Vol. 4, No. 7, June 1991, pp. 258-264.
  - Electromagnetic field above the earth's surface due to a buried three-phase high voltage power line, P. Neelakanta, R. Lordan, V. Ungvichian and P. Wahid, *European Transactions on Electrical Power Engineering*, Vol. 1, No. 2, March/April 1991, pp. 103-106.
  - Ka band monolithic MESFET amplifier design, J. Rollman and P. F. Wahid, *Microwave and Optical Technology Letters*, Vol. 3, No. 8, August 1990, pp. 273-276.
  - The fabrication of MOS transistors using cerium dioxide as a gate oxide material, A. Frangoul, K. Sundaram and P. Wahid, *Journal of Vacuum Science and Technology*, January 1991.
  - Optical absorption in cerium dioxide thin films, K. Sundaram and P. Wahid, *Phys. Stat. Sol. (b)*, Vol. 161, K63-K6, September 1990.
  - Electromagnetic scattering from stacked gratings, C. G. Christodoulou, R. Middleveen, P. K. Kwan and P. F. Wahid, *IEEE Transactions on Antennas and Propagation*, October 1988, pp. 1435-1442.
  - Electromagnetic applicators for regional and whole body hyperthermia, P. F. Wahid, M. J. Hagmann and O. P. Gandhi, *Physics in Medicine and Biology*, Vol. 38, No. 3, March 1983, pp. 301-307.
  - Multidipole applicators for regional and whole body hyperthermia, P. F. Wahid, M. J. Hagmann and O. P. Gandhi, *Proceedings IEEE*, Vol. 70, No. 3, March 1982, pp. 311-313.
  - The dielectric coated conducting sphere excited in the symmetric transverse magnetic mode resonant characteristics, P. Wahid and R. Chatterjee, *J. I. I. Sc.*, Vol. 61, Sep. 1979, pp. 195-205.
  - The truncated dielectric coated conducting sphere - radiation and gain characteristics, P. Wahid and R. Chatterjee, *J. I. I. Sc.* Vol. 61, Sep 1979, pp. 175-194.
  - The dielectric coated conducting sphere - modal and near field characteristics, P. Wahid and R. Chatterjee, Vol. 61, No. 7, July 1979, pp. 105-125.
  - Truncated dielectric coated conducting sphere excited in the tm symmetric mode as an antenna, R. Chatterjee and P. Wahid, *Proc. IEE-IERE (India)*, Vol. 15, No. 5, Sep-Oct 1977, pp.195-204.
  - Dielectric coated metal spherical antennas excited in the symmetric tm mode at microwave frequencies, R. Chatterjee, T. S. Vedavathy, P. Wahid and B. K. Nagesh, *Proc. IEE-IERE (India)*, Vol. 12, No. 3, May-June 1976, pp. 88-94.

## REFEREED CONFERENCE PROCEEDINGS

- Enhancing hyperthermia treatment for breast cancer using nanoparticles, Maryory Urdaneta and Parveen Wahid *IEEE International Symposium, Antennas and Propagation, URSI-USNC, Orlando, FL, July 7-13, 2103.*
- A catheter antenna for cardiac ablation, Sreekala Suseela, Parveen Wahid, Mohanan Pezholil, *IEEE International Symposium, Antennas and Propagation URSI-USNC, Orlando, FL, July 7-13, 2013.*
- A study of UWB imaging for bone cancer detection”, Maryory Urdaneta and P. F. Wahid

ICUWB2012, International Conference on Ultra Wideband Imaging, pp 197-201, 2012 Syracuse, USA.

- *Ka*-band tunable reflectarray unit cell using BST technology, Ya Shen, Siamak Ebadi, Parveen Wahid, and Xun Gong, IEEE International Symposium, Antennas and Propagation URSI-USNC, Chicago, July 8-13, 2012.
- Tunable and flexible barium strontium (BST) varactors on liquid crystal polymer (LCP) substrates, Ya Shen, Siamak Ebadi, Parveen Wahid, and Xun Gong IEEE International Symposium, Microwave theory and Techniques, Montreal, Canada June 2012.
- A nonlinear Mason model for 3rd order harmonics and intermodulation simulations of SAW duplexers, L. Chen, M. Solal, J. Briot, S. Hester, P. Girard, D. Malocha and P. Wahid," 2012 IEEE International Ultrasonics Symposium, Dresden, Germany, October 7-10, 2012.
- Evaluation of lightning induced effects in a graphite fairing composite structure (Part 1 – Frequency Domain), D. H. Trout, J. E. Stanley, and P. F. Wahid, International Applied Computational Electromagnetics Society, ACES Conference, Williamsburg, Virginia, pp. 849-854, March 27-31, 2011.
- Evaluation of lightning induced effects in a graphite fairing composite structure (Part 2 – Time Domain), D. H. Trout, J. E. Stanley, and P. F. Wahid, International Applied Computational Electromagnetics Society, ACES Conference, pp. 855-860, March 27-31, 2011, Williamsburg, Virginia.
- Tunable Reflectarray Unit Cell Element Using BST Technology, Ya Shen, Siamak Ebadi, Parveen Wahid, and Xun Gong, IEEE Radio and Wireless Symposium RWS 2012, pp. 43-46, Jan 15-19, 2012, Santa Clara, CA.
- Third Order Nonlinear Distortion of SAW Duplexers in UMTS System, L. Chen, J. Briot, P. Girard, C. Ledesma, M. Solal, K. Cheema, D. Malocha and P. Wahid, 2010 IEEE International Ultrasonics Symposium, pp. 283-286, San Diego, USA
- Target location and tracking using hybrid sensor networks, Ravi Palaniappan and Parveen Wahid European Conference on Antennas and Propagation, 2010, pp. 1-4, April 12-16, 2010, Barcelona, Spain
- Electromagnetic Cavity Effects from Transmitters inside a Launch Vehicle Faring, J. Stanley, D. Trout\* and P. Wahid, IEEE EMC Symposium, 2009
- Analysis of a Multi-layer Composite Cavity using FEKO, J. Stanley, D. Trout, S. Earles, I. Kostanic and P. Wahid, ACES conference , 2009.
- "A Self-Organizing Hybrid Sensor System with Distributed Data Fusion for Intruder Tracking and Surveillance" R. Palaniappan, T. Clarke, P. Wahid, N. Behdad and P. Kincaid, IEEE Antennas and Propagation Society International Symposium, San Diego, July 2008.
- A Wideband, Dual-Polarized, Differentially-Fed Cavity-Backed Slot Antenna, R. Paryani, Wahid and N. Behdad , URSI General Assembly, August 2008.
- A Wideband, Dual-Polarized, Differentially-Fed Cavity-Backed Slot Antenna, R. Paryani, P. Wahid and N. Behdad, Thirty Second Annual Antenna Applications Symposium, Illinois, September 2008 (*Student Paper Contest Winner*)
- Concept mapping approach for teaching transmission line theory, Rajesh C. Paryani, K.C. Gupta, and Parveen F. Wahid, International URSI conference, Albuquerque, New Mexico, June 2006.
- Analyses of small internal diversity antennas for 1900 MHz mobile phones, M. F. Abedin, M. Ali, L. Chen, P. F. Wahid, *Invited paper*, Special Session on Wireless Communications – Antennas, Propagation and Component Technologies, ICEAA

'05, 9<sup>th</sup> International Conference on Electromagnetics in Advanced Applications, Torino, Italy, Sep 12-16, 2005

- Design of a dual frequency tunable patch antenna, Parveen F. Wahid, Anand Arumugam and Bernard C. DeLoach, *Invited Paper*, Special Session on Advances in Platform Integrated Antennas for Mobile Wireless Applications, IEEE Antennas and Propagation Conference, Washington D.C., July 2005.
- Modified Sierpinski fractal antenna, Tripti Luintel and Parveen Wahid, 2005 IEEE/ACES Wireless Communications and Applied Computational Electromagnetics Conference, Honolulu, Hawaii, International, *Invited Paper* for the Special Session on Communications Antenna Analysis and Design, April 2005.
- Analysis of ultra wideband signal propagation in urban environments, Guy Schiavone, Parveen Wahid, Ravishankar Palaniappan, IEEE International AP/URSI Symposium Monterey, California, July 2004.
- Diversity Analysis antennas for wireless communications, Mohua Kar and Parveen Wahid, *Invited Paper*, PIERS conference, Nanjing, China, August 2004.
- Design of a tuneable UHF conformal antenna, Parveen Wahid, Md. Rohel Ahmed and B. C. DeLoach, Jr, URSI conference, Pisa, Italy, May 2004.
- Polarization diversity antennas for wireless communications, Mohua Kar and Parveen Wahid, 7<sup>th</sup> World Multiconference on Systemics, Cybernetics and Informatics (SCI 2003), Orlando, FL, July 27-30, 2003 – selected as the ‘*Best Paper*’ in the session Antennas and Wireless Propagation Technologies.
- Outdoor propagation analysis of ultra-wide band signal propagation,, Guy Schiavone, Parveen Wahid, Ravi Palaniappan, Judd Tracy, Eric Vandoom and Benjamin Lonske, SPIE Conference April 2003, Orlando, FL.
- Performance of the  $\pm 45^\circ$  Slanted Polarization Scheme in a WLAN, Mohua Kar and Parveen Wahid, IEEE International AP conference, Columbus, OH, June 2003
- Generalized fractal multiband antenna, Philip Tang and Parveen Wahid, International AP conference, Columbus, OH, June 2003.
- Study of ultra-wide band signal propagation in outdoor environment Guy Schiavone, Parveen Wahid, Ravi Palaniappan, Judd Tracy, Eric Vandoom and Benjamin Lonske, IEEE International AP conference, Columbus, Ohio, June.
- Diversity schemes for mobile communications, Parveen Wahid, *Invited Paper*, International Antennas and Propagation Symposium, Cochin, India, December, 2002.
- Compact diversity array for wireless application, M. Kar and P. Wahid, International URSI conference, Netherlands, Aug 2002
- Adaptive array antennas, Maha Ali and P. F. Wahid, accepted, 6<sup>th</sup> World Multiconference on Systemics, Cybernetics and Informatics, Orlando, Fl, July 2002
- Analysis of mutual coupling effect on adaptive array antennas, Maha Ali and P. F. Wahid, IEEE International AP conference, San Antonio, June 2002
- A reconfigurable Yagi array for wireless applications, Maha Ali and P. F. Wahid, IEEE International AP conference, San Antonio, June 2002.
- Hexagonal fractal multiband antenna, P. Tang and P. F. Wahid, IEEE International AP conference, San Antonio, June 2002
- Analysis of ultra-wide band signal propagation in urban environments, G. Shrivane, P. F. Wahid and R. Palaniappan and, IASTED International Association of Science and Technology for Development, California, June 2002

- Investigations on polarization schemes for use in wireless communications, Mohua Kar and P. F. Wahid, International SPIE Symposium, Orlando, Fl, April 2002.
- Study of ultra-wide band signal propagation in urban environments, G. Shiavone, R. Palaniappan and P. F. Wahid, International SPIE Symposium, Orlando, Fl, April 2002.
- Baccalaureate in information technology –highlights of the program, P.F. Wahid and C. Hughes, ASEE Conference for Industry and Education, Sarasota, Fl, Feb 2002.
- Correlation coefficients of space and polarization diversity schemes, Mohua Kar and Parveen Wahid, ICECOM 2001 - 16th International Conference on Applied Electromagnetics and Communications, October 2001.
- Analysis of a corrugated horn using the BOR-FDTD method, Christopher Johnson and P. Wahid, IEEE International AP conference, July 2001.
- Scaling property of the Koch fractal dipole, Philip Tang and P. Wahid, IEEE International AP conference, July 2001.
- Two-branch space and polarization diversity schemes for dipoles, Mohua Kar and P. Wahid, IEEE International AP conference, July 2001.
- Finite difference time domain analysis of cavity backed patch antennas, D. Rodriguez and P. F. Wahid, 2001 URSI International Symposium on Electromagnetic Theory, May 2001.
- Diversity effects in array antennas, Mohua Kar and P. F. Wahid, 20001 URSI International Symposium on Electromagnetic Theory, May 2001
- FDTD Speedups Obtained in Distributed Computing on a Linux Workstation Cluster, Guy Schiavone, Iulian Codreanu, Ravishankar Palaniappan and Parveen Wahid, Proceedings IEEE International AP conference, Salt Lake City, July 2000
- Visualization of electromagnetic fields using MATLAB P. F. Wahid, S. Datta and M. Burke, Proceedings IEEE International AP conference, Salt Lake City, July 2000
- Time domain simulation of circularly polarized phased array microstrip antennas, J. Gomez Tagle, C. Christodoulou and P. F. Wahid, Proceedings, IEEE International AP conference, pp. 2024 – 2027, Orlando, Florida, July 1999.
- Design of a foldable low loss microstrip antenna array, C. Christodoulou, P. Wahid, M. Haque and M. Bailey, Proceedings IEEE International AP conference, pp. 1146- 1149, Orlando, Florida, July 1999.
- A high efficiency L-band microstrip antenna, M. Faiz and P. F. Wahid, Proceedings, IEEE International URSI conference, pp. 4, Orlando, Florida, July 1999.
- A high efficiency L-band microstrip antenna, M. Faiz and P. F. Wahid, IEEE International AP/URSI conference, Orlando, Florida, July 1999
- Time domain simulation of circularly polarized phased array microstrip antennas, J. Gomez Tagle, C. Christodoulou and P. F. Wahid, IEEE International AP/URSI conference, Orlando, Florida, July 1999.
- Design of a foldable low loss microstrip antenna array, C. Christodoulou, P. Wahid, M. Haque and M. Bailey, IEEE International AP/URSI conference, Orlando, Florida, July 1999.
- Design of a L-band high efficiency circularly polarized microstrip antenna, M. Faiz and P. Wahid, IEEE International AP/URSI conference, Atlanta, Georgia, June 1998.
- Active impedance analysis of finite phased array microstrip antennas using FDTD, J. Gomez, C. Christodoulou and P. Wahid, IEEE International AP/URSI conference, Atlanta, Georgia, June 1998.
- Active impedance and mutual coupling analysis of phased array stacked microstrip antennas using FDTD, J. Gomez, C. Christodoulou and P. Wahid, International Symposium on Electromagnetic Theory, Thessaloniki, Greece, May 1998.

- Microstrip line matched normal mode helical antenna for cellular communications, M. Faiz and P. Wahid, IEEE Southeastcon '98, April 1998, Orlando, Florida.
- FDTD analysis of microstrip patch antennas, M. Kar and P. Wahid, IEEE Southeastcon '98, April 1998, Orlando, Florida.
- Mutual coupling in phased array microstrip antennas using FDTD, J. Gomez, C. Christodoulou and P. Wahid, IEEE Southeastcon '98, April 1998, Orlando, Florida.
- Analysis of microstrip antennas on finite ground planes, W. Zhou\* and P. F. Wahid, IEEE/URSI International Conference, Baltimore, July 1996.
- Design of a microstrip antenna array for a direct broadcast satellite receiver, M. Rubelj, P. F. Wahid and C. G. Christodoulou, IEEE/URSI International Conference, Baltimore, pp.61, July 1996.
- Input impedance of a wraparound microstrip antenna on a conical surface, D. Meeks and P. Wahid, IEEE/URSI International Conference, Baltimore, July 1996.
- Effects of ferrite substrates on the spectral properties of frequency selective surfaces, Y. Liu, C. G. Christodoulou and P. F. Wahid, KoREMA '96, International Conference, pp.35-37, September 1996.
- Dual layer microstrip antenna for a direct broadcast satellite receiver, M. Rubelj, P. F. Wahid and C. G. Christodoulou, KoREMA '96, International Conference, pp.15-17, September 1996.
- Radiation characteristics of microstrip antennas on very small ground planes, W. Zhou\*, P. F. Wahid and C. G. Christodoulou, Accepted, IEEE AP/URSI International conference, Newport Beach, California, June 1995.
- Analysis of frequency selective surfaces with ferrite substrates, Y. Liu, C. Christodoulou, P. F. Wahid and N. Buris, IEEE AP/URSI International conference, Newport Beach, California, pp. 1640-1643, June 1995.
- Microstrip wrap around antenna on a conical surface, P. F. Wahid, P. Neelakanta and D. Meeks, IEEE AP/URSI International Symposium, Seattle, Washington, June 1994.
- Overview of issues related to low frequency electric and magnetic field effects, P. F. Wahid and C. Christodoulou, IEEE Southcon, Orlando, Florida, pp. 241-243, March 1994.
- Effects of strip conductivity profiles on the scattering from metallic gratings, C. Christodoulou, P. Wahid and F. Grey, IEEE Southcon, Orlando, Florida, pp. 226-229, March 1994.
- Mutual impedance between skewed patch antennas, P. F. Wahid and T. Voor, IEEE AP Symposium Digest, pp. 1190-1193, June 1992.
- Mutual coupling between skewed microstrip patch antennas, L. Dunn, D. Dunn and P. Wahid, Proceedings, International Symposium on Antenna Technology and Electromagnetics, August 1990.
- An active surface with dual smartness of controllable electromagnetic/radar reflectivity and adaptive structural dynamic characteristics, P. Neelakanta, M. Arickoswamy, S. Giri and P. Wahid, IEEE AP Symposium Digest, pp. 113-116, May 1990.
- Application of cerium dioxide as a gate oxide material, A. Frangoul, K. Sundaram and P. Wahid, Proceedings, Florida Microelectronics Conference, pp. 53-56, May 1990.
- Risetime and frequency correlation analysis for crosstalk in high speed packaging, M. Belkerdid and P. Wahid, Proceedings, International Electronics Packaging Society Conference, pp. 617-625, November 1988.
- Frequency domain analysis of crosstalk in coupled microstrip lines, G. Pourparviz, P. Wahid and M. Belkerdid, Proceedings, IEEE Southeastcon, pp. 502-505, April 1988.
- Modeling of crosstalk in coupled microstrip lines, M. Fletcher, A. Abel, P. Wahid and M. Belkerdid, Proceedings, IEEE Southeastcon, pp. 506-510, April 1988.

- Scattering from cascaded gratings and grids, P. Kwan, C. Christodoulou and P. Wahid, IEEE AP Symposium Digest, pp. 726-729, June 1987.
- Variable delay lines for microstrip array antennas, P. Wahid and D. Malocha, Proceedings, IEEE Southeastcon, pp. 236-238, April 1987.
- High speed VHSIC parameter modeling and measurement, P. Wahid, M. Belkerdid and D. Malocha, Proceedings, IEEE Southeastcon, pp. 63-67, April 1987.
- Electromagnetic scattering from stacked gratings, P. Kwan, C. Christodoulou and P. Wahid, Proceedings, Southeastcon, pp. 233-235, April 1987.
- A "modified" infinite sample method for precision measurements of the complex permittivity of biological tissues, O. P. Gandhi, P. F. Wahid and M. F. Iskander, Bioelectromagnetics Society Conference, Los Angeles, California, June 1982.
- Numerical design of multidipole antennas for regional and whole body hyperthermia, P. F. Wahid, M. J. Hagmann and O. P. Gandhi, Bioelectromagnetics Society Conference, Washington D.C., August 1981.
- Electromagnetic absorption in a block model of man on account of coupling to nearby monopole and dipole antennas, P. Wahid, O. P. Gandhi and M. J. Hagmann, Bioelectromagnetics Society Conference, Washington D.C., August 1981.

## SERVICE

### HONORS AND AWARDS

- 2012 Women of Distinction: Excellence in Mentoring Award, UCF Center for Success of Women Faculty
- 2011 Provost Teaching Faculty Fellow
- 2010 Excellence in Professional Service Award, College of Engineering and Computer Science
- 2006 IEEE Orlando Section, Outstanding Engineer of the Year
- 2001 IEEE Orlando Section AP/MTT Best Chapter Award
- 2000 IEEE Third Millennium Award for Outstanding Service**
- 1998 IEEE Orlando Section, Outstanding Service Award**
- 1997 University of Central Florida, Excellence in Professional Service Award**
- 1997 College of Engineering, Excellence in Professional Service Award
- 1996 Honorable Mention, University Faculty Leadership Award**
- 1995 Society of Women Engineers, Award for Outstanding Contributions as Faculty Advisor
- 1994 Society of Women Engineers Outstanding Faculty Advisor
- 1991 University of Central Florida, Excellence in Advising Award**

### DEPARTMENT COMMITTEES:

- 2011 – 2012 Chair EM/EO Technical Area Committee  
 Member- Photonic Science and Engineering Degree Committee  
 ABET EE Core Curriculum Assessment Committee  
 Member Graduate Committee  
 Member EE Lecturer Search Committee

Member EE Research Scientist Committee  
 Member, EE SUS Program Evaluation Committee  
 Faculty Advisor, Women in EECS (WEECS)  
 2011 – 2012 Chair EM/EO Technical Area Committee  
 ABET EE Core Curriculum Assessment Committee  
 Member Graduate Committee  
 Member EE Faculty Search Committee  
 Member, EE SUS Program Evaluation Committee  
 Faculty Advisor, Women in EECS (WEECS)  
 2009 – 2011 Chair EM/EO Technical Area Committee  
 Member, EECS Executive Committee  
 Faculty Advisor, Women in EECS (WEECS)  
 ABET Core Curriculum Assessment Committee  
 2008 – 2009 Chair EM/EO Technical Area Committee  
 Member, EECS Executive Committee  
 Member, EECS Lab and Space Committee  
 ABET EE Curriculum and Oversight Committee  
 2007 - 2009: Faculty Advisor, Women in EECS (WEECS)  
 Faculty Advisor, IEEE WIE Committee  
 2007 – 2008 Chair EM/EO Technical Area committee  
 Member, EECS Executive Committee  
 2005 – 2007 Chair EM/EO Subdiscipline committee  
 Member, SECS Executive Committee  
 Chair, AdHoc Committee, PhD Qualifier Exam Committee  
 2004 - 2005: **Chair, ECE Department Strategic Plan Committee**  
 Chair, EM Subdiscipline Committee  
 2003 - 2004: Member, Chair Search Committee  
 Member, EE Graduate Student Recruiting Plan Committee  
**2000 - 2001: Chair, M.S. in Information Technology program**  
 2001 - 2002: Member, ABET Committee  
**1999 - 2001: Chair, B.S. in Information Technology program**  
 1997 - 1998: Graduate Coordinator, ECE Department  
 1995 - 1997: Member, ABET Committee  
 2000 - 2002: **Chair: EE Faculty Search Committee**  
**Chair: M.S. in Information Technology program**  
 Chair: EM subdiscipline Committee  
 Member, EE Laboratory committee  
 2000 - 2001: **Chair: EE Faculty Search Committee**  
**Chair: B.S. in Information Technology program**  
**Chair: M.S. in Information Technology program**  
 Chair: EM subdiscipline Committee  
 Member, EE Laboratory committee  
 1999 – 2000: Chair: **B.S. in Information Technology program**  
**Chair: EE Faculty Search Committee**  
 Member: EE Laboratory Committee  
 Chair: EM subdiscipline Committee



- 1998 - 1999: Member: Strategic Planning Committee  
Faculty Search Committee  
Institutional Effectiveness Committee  
Industrial Advisory Board Committee
- 1997 - 1998: **Graduate Coordinator**, ECE Department  
Member: Strategic Planning Committee  
Institutional Effectiveness Committee  
Electromagnetics Committee
- 1996 - 1997 **Chair, Department Lab/Space Committee**  
Member: Computer Engineering Faculty Search Committee  
Electrical Engineering Faculty Search Committee  
ECE Computer Specialist Search Committee  
Electromagnetics Committee  
**ABET Committee**  
**Chair, ECE Strategic Planning Committee**
- 1995 - 1996: **Chair, Department Lab/Space Committee**  
Member: Electromagnetics Committee  
**ABET Committee**
- 1994 - 1995: Chair, Electromagnetics Committee  
**Chair: Department Administrative Committee**  
**Department Lab/Space Committee**  
Member: Department Chair Search Committee  
Computer Engineering Faculty Search Committee  
Department Industrial Advisory Committee
- 1993 - 1994: Chair: Electromagnetics Committee  
Member: Microelectronics Committee  
Computer Engineering Faculty Search Committee
- 1990 - 1993: **Assistant Chair, Electrical Engineering Department**
- 1992 Summer: **Acting Chair, Electrical and Computer Engineering Department**
- 1991 Summer: **Acting Chair, Electrical Engineering Department**
- 1990 - 1993: **Chair EE Undergraduate Affairs Committee**  
Member EE Electromagnetics, Microelectronics and Faculty Search Committee
- 1991, 1992, 1993, 1994: Member, Department Personnel Committees**
- 1989 - 1991: Member: EE Electromagnetics Committee  
Microelectronics Committee  
Faculty Search Committee
- 1989 - 1990: Member: Graduate Committee
- 1987 - 1988: Member: EE Electromagnetics Committee  
Microelectronics Committee  
Undergraduate Affairs Committee  
Faculty Search Committee
- 1986 - 1987: Member: EE Electromagnetic Committee  
Microelectronics Committee  
Graduate Committee
- 1985 - 1986: Member: EE Electromagnetics Committee  
Microelectronics Committee

Counselor EE Foreign Graduate Admissions

1984 - 1985: Chair, EE Electromagnetics Committee

## **COLLEGE COMMITTEES**

2012 Member, BME Faculty Search Committee  
2009 – 2011: Chair, CECS Promotion and Tenure Committee  
2008 – 2009: EECS Undergraduate Task Force Committee  
CECS Space Committee  
2005 – 2007: Member, CECS Honors Committee  
Member, Promotion and Tenure Committee  
2004 - 2005: Member, SOTL Award Selection Committee  
2000 - 2001: Member: TIP Criteria Committee  
Research Initiative Award committee  
1998 - 1999: Member: SUCCEED  
Freshmen recruitment and Retention Committee  
1997 - 1998: Member: COE Distance Learning  
SUCCEED  
1996 - 1997: Member: COE International Committee  
COE Minority Programs Committee  
1995 - 1996: Member: COE International Committee  
1994 - 1995: Member: COE International Committee  
NASA Minority Mentor Program  
1990 - 1993: Member: COE Undergraduate Affairs Committee  
1990 - 2001: Director of Women in Engineering Programs  
1993 - 1994: Member: Teaching Incentive Award Committee  
1989 - 1990: Member: Mechanical Engineering Chair Search Committee  
Member: COE Publicity Committee  
1989 - 1991: Mentor: COE Minority Mentorship Program  
1988 - 1989: Chair: COE Publicity Committee  
1987 - 1989: In charge of the COE monthly Newsletter

## **UNIVERSITY COMMITTEES**

2012-2013 Member CECS Dean Search Committee  
2012 Member, UCF Women's Research Center Executive Committee, Spring 2012  
2009 -2010: Member, Faculty Senate, UPCC Committee  
Alternate member: Promotion and Tenure Committee  
2007- 2008: Member SUS Course Numbering Committee  
2004 – 2005: Member, EE Graduate REP Program  
2003 – 2005: Member, Faculty Senate  
1999 - 2001: Member, University Promotion and Tenure Committee  
Member, Women's Research Center, Director Search Committee  
2001 Faculty & Staff Annual Fund Committee  
1998 - 2000: Member, General Education Oversight Committee  
1997 - 1998: Member: General Education Oversight Committee

Blue Ribbon Task Force for Future of Graduate Education  
Academic Program Review Committee  
Faculty Advisor, Indian Students Association  
1996 - 1997: Member, GEP Diversity Task Force Committee  
Member, Faculty Senate, Undergraduate Policy and Curriculum Committee  
1995 - 1996: Member, UCF Academic Program Review Subcommittee  
1994 - 1996: **Member, Faculty Senate, Undergraduate Policy and Curriculum Committee**  
Member, Steering Committee for the Center for Women's Studies  
1993 - 1994: Member: **Search Committee VP for Research and Graduate Studies**  
**University SACS Accreditation Team**  
Search Committee Director for the Center for Women's Studies  
Steering Committee for Center for Women's Studies  
University Retention Task Force Committee  
1991 - 1993: Member, Faculty Senate, Undergraduate Policy and Curriculum Committee  
**1989 - 1991: Member, University Faculty Senate**  
1989 - 1990: Faculty Advisor, UCF Indian Students Association

## **PROFESSIONAL CONTRIBUTION**

**General Chair IEEE International Antennas and Propagation, URSI/USNC Symposium, J Orlando FL, July 7-13, 2013,**

**Member IEEE Antennas and Propagation AD-COM, 2000 – 2003**

**Member IEEE AP-S Awards Committee, 2010-2012**

Member: URSI Commission B, since 2002

Member: URSI Commission K, since 2004

Member, IEEE Women in Engineering Committee, 2012-2014

Chair, IEEE Women in Engineering, Outreach Committee, 2012-2014

Chair, IEEE Women in Antennas and Propagation Committee, since 2000

Region 3 Liaison – IEEE WIE, 2002-2011

**Chair, Technical Program, International IEEE AP-S Conference, 1999**

**General Conference Chair, IEEE Southeastcon, 1998**

**Member, Technical Program Committee, International AP Conference, 1998 – 2000, 2002-2012**

Member, Technical Program Committee, International VTC Conference, 2003

Member, Technical Program Committee, Southeastcon, 2012

**Session Chair, IEEE International AP/URSI Conference, 1993, 1994, 1996, 1998-2008, 2011-2012**

Session Chair/Organizer, Southcon Conference, 1996

Member Technical Committee, Southcon Conference, 1996

**1995 : Co-Chair, Special Sessions & Workshops, IEEE International MTT Conference, 1995**

**: Chair, Guest Programs, IEEE IAS 1995 National Conference**

Session Chair, Session Organizer, 1994 Southcon Conference

Member, Technical Committee, 1994 Southcon Conference

**1995 – 1997: IEEE Region 3, Educational Activities Chair.**

## **IEEE Orlando Section:**

2011-2013: IEEE Orlando Section, Chair WIE Committee  
2004 - 2006: **IEEE Orlando Section, Chairman AP/MTT Chapter**  
2002 - 2005: IEEE Orlando Section, Membership Chair  
1999 - 2002: **IEEE Orlando Section, Chairman AP/MTT Chapter**  
IEEE Orlando Section, Membership Chair  
1997 - 1999: IEEE Orlando Section, Educational Activities Chair  
1995 - 1996: IEEE Orlando Section, Awards Chairman  
1994 - 1995: **IEEE Orlando Section, Chairman**  
1993 - 1994: IEEE Orlando Section - Vice Chairman, Programs Chairman  
1992 - 1993: IEEE Orlando Section - Treasurer  
1991 - 1992: IEEE Orlando Section - Secretary  
1990 - 1991: **IEEE Orlando Section - Chairman AP/MTT Chapter**  
1989 - 1990: IEEE Orlando Section - Vice Chairman AP/MTT Chapter  
1988 - 1989: IEEE Orlando Section - Chairman Public Relations  
Secretary, AP/MTT Chapter  
1987 - 1988: IEEE Orlando Section - Chairman Public Relations  
Program Manager AP/MTT Chapter  
1986 - 1987: IEEE Orlando Section - Member, Publications Committee  
1985 - 1986: IEEE Orlando Section - Chairman, Education Committee

## **Publications:**

- Education and the IEEE, P. F. Wahid and K. B. Sundaram, Southcon, Orlando, June 1996.
- Electromagnetics Curriculum at the University of Central Florida, A. Mortazawi, P. F. Wahid and C. G. Christodoulou, Southcon, Orlando, pp. 269-271, June 1996.
- Educational activities of the IEEE, P. F. Wahid, Southcon, Fort Lauderdale, March 1995.

## **WOMEN AND UNDER-REPRESENTED GROUPS**

2009 Organized the Second IEEE Women in Electromagnetics (WiEM) Workshop, Coimbatore, India, Mar 1-3, 2013; Sponsored by IEEE Antennas and Propagation Society

2012 - 2014: Member, IEEE WIE Committee  
Chair, IEEE WIE Committee, Outreach Committee

2010 Co-Chair, IEEE Region 3 Professional Development Seminar, organized at Southeastcon  
IEEE Region 3, WIE Coordinator

2007 - Present: Faculty Advisor, Women in EECS Committee  
Faculty Advisor, IEEE WIE Student Affinity Group

2009 Organized and hosted the First IEEE Women in Electromagnetics (WiEM) Workshop, Salt Lake City, Utah, June 5 – 8, 2009; Sponsored by IEEE Antennas and Propagation Society.

2008 - 2012: Region 3 Liaison to IEEE WIE

2006 WEPAN National Conference 2007, Local Arrangements Committee member  
 2005 Hosted the **IEEE WIE Forum** in conjunction with the WIE Antennas and Propagation Reception at the IEEE APS/URSI conference.- Speaker Delcie Durham Program Director, NSF  
 2005 Hosted the WELI Leadership Conference, NSF ADVANCE Grant, Cocoa Beach, Florida.  
 2003 Hosted the **IEEE WIE Forum** in conjunction with the WIE Antennas and Propagation Reception at the IEEE APS/URSI conference – Speaker Debbie Grubbe, DuPont  
 2002 – Present: Chair, IEEE Women in Antennas and Propagation Committee  
 2001 - 2007: Vice President, Women in Engineering Leadership Institute (WELI)  
 1990 - 2001: Director of Women in Engineering Programs  
 1999 - 2001: Member, Women’s Research Center, Director Search Committee  
 1996 - 1997: Member, GEP Diversity Task Force Committee  
**Hosted the first IEEE Women in Engineering Reception at the International Conference on Antennas and Propagation, Atlanta 1998 and every year since then.**  
 1992, 1993, 1994, 1999: **Coordinator, Expanding Your Horizons in Science and Mathematics for 8 - 11th grade school girls**  
 2000, 2001, Organized Workshops for Expanding Your Horizons in Science and Mathematics for 8 - 11th grade school girls  
 1991 – 2000: **Faculty Advisor, Society of Women Engineers**  
 1992 - 1999: Member, Women in Engineering Program Advocates Network (WEPAN)

#### **FUNDED PROJECTS:**

- NSF-ADVANCE, ADVANCE IT FORWARD, Focus On Rewarding Women’s Advancement, Research and Diversity, P.I.: T. Hickey, NSF, \$3M, pending, Dec 2007
- NSF-ADVANCE Collaborative Proposal, Program for women engineering faculty leadership development, NSF, Co-PI, **(\$119, 000)** Multi-University proposal, Nov 2002
- Strategic Planning Award Program, UCF **(\$15,000)**, Center for International Engineering Practice, Fall 1995 - Spring 1996, Co-P.I.
- Strategic Planning Award Program, UCF **(\$15,000)**, Investigations of Gender Diversity Issues in Engineering Education", Fall 1994 - Spring 1995. P.I.s: D. Reinhart and P. Wahid

#### **PUBLICATIONS**

- Academic Academic Leadership Conference – Training and Networking, Parveen Wahid, University of Central Florida, Susan Marguiles, University of Pennsylvania, Sara Wadia-Fascetti, Northeastern University and Judy Vance, Iowa State University, WEPAN conference June 2006
- Gender diversity issues in engineering education at UCF, P. F. Wahid, D. Reinhart and D. Adams, National AAUW conference, Orlando, June 1995.
- Gender diversity issues at UCF, D. Reinhart, P. Wahid and D. Adams, WEPAN National conference, Washington D.C. June 1995.
- Funding sources for Women in Engineering Programs, P. F. Wahid, Annual Women in

Engineering Program Advocates Network (WEPAN) conference, Washington D.C., June 1994.