

CURRICULUM VITAE

SUSAN C. SCHNEIDER

Address Department of Electrical and Computer Engineering
Marquette University
1515 W. Wisconsin Avenue
Milwaukee, WI 53233
(414) 288-7178
Susan.Schneider@Marquette.edu

Areas of Special Interest

- A Evaluation of the electrical properties of electronic materials for use as sensors
- A Interactions between mechanical and electromagnetic properties of materials
- A Educational methods

Academic Experience

- 9/1988-present Associate Professor of Electrical Engineering, in the Department of Electrical and Computer Engineering, Marquette University, Milwaukee, Wisconsin 53233.
- 7/2009 – present Director of Undergraduate Studies, Department of Electrical and Computer Engineering, Marquette University
- 8/1998 – 7/2009 Associate Chair, Department of Electrical and Computer Engineering, Marquette University
- 8/1990-6/1991 Adjunct Associate Professor, Department of Physics, University of Wisconsin-Milwaukee (sabbatical leave appointment)

Post-Doctoral Associate, Department of Physics, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin 53201

1981 Research Assistant, Department of Physics, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin 53201.

1972, University of Wisconsin-Stevens Point (Math and Physics)

1981, University of Wisconsin-Milwaukee (Physics) Dissertation title:
"Ultrasonic Attenuation Study of the Re-entrant Superconductor, ErRh

4B4"

Professional Affiliations

- American Physical Society, member of society from 1977 to present.
- Institute of Electrical and Electronic Engineers (IEEE),
 - Member of society from 1983-present, advanced to Senior Member, 1997.
 - elected Administrative Committee representative, Ultrasonics, Ferroelectrics and Frequency Control Society, term 1/1/92-12/31/94

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- appointed Associate Editor for IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, term 1/1/92-6/1/95
- member of Technical Program Committee, Ultrasonics Symposium, 1988-present
- Publications and Publicity Chair, 1990 Ultrasonics Symposium
- Finance Chair, 1992 Ultrasonics Symposium
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- University.
- o Completed MU-GROW classes “Introduction to SharePoint”, October 17, 2007, and “Sharepoint Administration”, October 24, 2007.
 - o Attended Frontiers in Education conference, October 11 – 14, 2007, Milwaukee, WI.
 - o Attended MU-COR
 - 2nd Annual Institute for Faculty, Marquette University, January 11, 2006.
 - 3rd Annual Institute for Faculty, Marquette University, January 10, 2007.
 - 4th Annual Institute for Faculty, Marquette University, January, 2008.
 - 5th Annual Institute for Faculty, Marquette University, September 26, 2008.
 - o Attended ASEE North Midwest Section Conference, October 6-2009, Marquette University.
 - o Participated in Wimba seminars/webinar,
 - “Wimba Study Break: Effectively teaching Math, Sciences, and Engineering Online”, October 22, 2009. (online)
 - “Wimba Study Break: Transitioning from Face-to-Face to Online Instruction”, November 17, 2009. (online)
 - “I Love (Wimba) CATs: Using Wimba Classroom to Bridge Online and Face-to-Face Learning and Assessment”, December 3, 2009. (online)
 - “Approaches to Organizing and Offering Blended Courses”, January 28, 2010. (online)
 - o Completed IRB training course "Protecting Human Research Participants," (NIH Office of Extramural Research), December 22, 2009 (online, completion certificate on file at Marquette University Office of Research Compliance).
 - o Participated in “Designing Effective Writing Assignments” Workshop – Monday, April 4, 2011. Presented by Dr. John Bean, sponsored by the Ott Memorial Writing Center.
 - o Participated in “Teaching System Dynamics with MATLAB & Simulink”, MathWorks Webinar, June 14, 2011.

Funded Research (Grants and Contracts)

\$ 2,181	Marquette University, Committee on Research (RRG), "Surface Acoustic Wave Investigation of Magnetic Metallic Films", 1/1/82 - 12/31/82.
\$ 3,644	Marquette University, Committee on Research (RRG), "Investigation to Determine Optimum Field Annealing Parameters of Metallic Glasses," (with Herbert Pietsch), 1/1/84 - 12/31/84.
\$ 2,700	Marquette University, Committee on Research, Summer Faculty Fellowship, "Study of Electrochemical Processes in ZnO Varistors," summer, 1985.
\$ 30,360	McGraw-Edison Power Systems Division, "Study of Electrochemical Processes in ZnO Varistors," (with Martin Seitz), 1/15/85 - 1/15/87.
\$ 59,058	National Science Foundation, ROW, "AC Impedance Spectroscopy Study of ZnO/ZrO ₂ Single Crystal Junctions," 12/1/87 - 5/31/90.
\$ 57,532	Astronautics Corporation of America, "Research and Development of Advanced High Voltage/High Power Resistors" (with Martin Seitz), 9/1/87 - 12/31/89.
\$ 1,000	Marquette University, Committee on Research (RRG), "AC Impedance Spectroscopy Study of the Light Degradation Phenomenon in Amorphous Silicon," 1/1/88 - 12/31/88.
\$ 20,000	MacNeal-Schwendler Corporation, Engineering/Electromagnetics Applications Department, "Electromagnetics Finite Element Applications", 7/1/89 – 1 6/30/90.
\$ 49,600	MicroSim Corporation, "PSPIICE Software Education Donation Program", 2/15/90.
\$187,500	National Science Foundation, Summer Science Camp Program, "Summer Science Camps," 1/1/93 - 6/30/95 (with Christine J. Faltz, EOP).

21. S.C. Schneider and J. Stillmank, "Systematic Op-Amp Macromodeling," Proceedings of the 30th Midwest Symposium of Circuits and Systems, Syracuse, N.Y., August 17-18, 1987, eds. G. Glasford and K. Jabbour, Elsevier Science Publishing Co., Inc., N.Y., 1296-1299 (1988).
22. S.C. Schneider, M. Levy, M. Tachiki and D.C. Johnston, "Ultrasonic Attenuation Study of $H_{c1}(T)$ for $ErRh_4B_4$," Proc. 16th Int. Conf. on Low Temp. Physics, LT-16, Physics B+C 108, 807-808, (1981).

C1 – in press

C2 – in preparation

X. Wang, E. E. Yaz, S. C. Schneider and Y. I. Yaz, "State dependent control of discrete time nonlinear systems with random actuator failures", *submitted to the Proc. of the 2012 American Control Conference*, 2012, in preparation.

M. N. ElBsat, Edwin E. Yaz and S.C. Schneider, "Nonlinear Estimation of Viscous Fluid Properties with Fluid-Loaded Microcantilevers", submitted to IASTED International Conference on Modelling, Simulation, and Identification, MSI 2011, November 7 – 9, 2011

(D) Theses/Dissertations:

Susan C. Schneider, "Ultrasonic Attenuation Study of the Re-entrant Superconductor, $ErRh_4B_4$," Ph.D. Dissertation, University of Wisconsin-Milwaukee, Milwaukee, WI, 1981.

(E) Talks at ConTc1>BDC n [(i)7-14(n)O(e)-4(2012 A)-39htTc -0.004I-[221.52sKB6478.647/MCID

University Activities

(A) Current Committee Assignments

Department of Electrical and Computer Engineering, Undergraduate Committee, 1989 - present. (Chair)

Department of Electrical and Computer Engineering, Goals Committee, 1988 - 2009.

Department of Electrical and Computer Engineering, Executive Committee, 2009 – present.

College of Engineering, College Curriculum Committee, EECE representative, 2007 – present.

(B) Graduate Students Directed

1. Nancy Grigsby, M.S., 1984, Thesis: "Magnetic Field Mapping"
2. John Stillmank, M.S., 1987, Thesis: "Systematic Development of Operational Amplifier Macromodels"
3. Mary Larson, M.S., 1987, Essay: "Electric Fields and Dielectric Force in a Simple Capacitor System"
4. Steven Michalski, M.S., 1989, Essay: "Computer Aided Engineering: Using IG SPICE"
5. Jennifer Miller, M.S., 1989 (course work option, no thesis/essay)
6. Apurba Choudhury, Ph.D., 1991, Dissertation: "AC Immittance Spectroscopy Study of ZnO/YSZ Single Crystal Junctions"
7. K.M. Anisur Rahman, Ph.D., 1994, Dissertation: "AC Spectroscopic Characterization of the Conduction Mechanism of Tin Oxide-Glass Composite Thick Film Resistors"
8. Ohiorenuan (Jude) Amu, M.S., 2005, Thesis: "Characterization of Poly(isobutylene) (PIB) in Aqueous Environments using Thickness Shear Mode (TSM) Resonators"

- 1984 - 1989; Secretary, 1985 - 1988.
- o Department of Electrical, Computer, and Biomedical Engineering, Electronics Area Committee, 1984 - 1989.
 - o Department of Electrical, Computer, and Biomedical Engineering, Solid State Research Group, 1984 - 1989.
 - o Department of Electrical, Computer, and Biomedical Engineering, Ad Hoc Computer Usage Committee, 1988 - 1989.
 - o Department of Electrical, Computer, and Biomedical Engineering, Ad-Hoc Committee on Electrical Engineering Undergraduate Laboratories, 1989.
 - o College of Engineering, Design Resources Committee, 1989 - 1990.
 - o Department of Electrical, Computer, and Biomedical Engineering, Faculty Search Committee, 1988 - 1989.
 - o Marquette University Child Care Center Advisory Committee, 1990 - 1992.
 - o College of Engineering representative to the Marquette University Committee on Faculty, 1988-1994, Secretary COF, September 1991-May 1992.
 - o Department of Electrical and Computer Engineering, Computer Software Coordination Committee, 1989 - 1993.
 - o Faculty Hearing Committee, Elected at large representative, 1996 - 1998, 1998-2004, 2004 – 2007 (committee was disbanded as part of faculty governance revisions).
 - o College of Engineering Representative, Academic Senate, 1995-2001.
 - o Member, selection committee for the "Rev. John P. Raynor, S.J., Fellows", (1991, 1992, 1993, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003).
 - o Academic Senate, At-Large Representative, 2001-2004.
 - o University Assessment Committee, 2001 - May 2005.
 - o College of Engineering, New Building Committee, EECE representative, 2007 – 2009.
 - o Committee on Teaching, Aug 2003 – May 2011.