

EE Alumni in Academia

Our EE alumni have continued to advance their careers in both academia and industry. In this newsletter, we feature several EE alumni who now, or in the past, have held academic positions in US educational institutions. Our next issue will cover EE alumni who are working at international universities.

EE Connections hopes to be your venue for sharing and exchanging. We are trying to keep in touch with you, please keep in touch with us! E-mail your career updates to eeinfo@asu.edu.

Philip Loizou

Professor, University of Texas at Dallas



Dr. Philip Loizou earned his PhD in Electrical Engineering in 1995. While at ASU, Dr. Loizou worked under Professor Andreas Spanias.

Currently, Dr. Loizou is a professor of the Electrical Engineering at University of Texas at Dallas. His research interests include signal processing, adaptive signal processing algorithms, spectrum estimation, and implementation of signal processing algorithms on fixed-point DSP processors.

Irena Knezevic

Assistant Professor, University of Wisconsin-Madison

Dr. Irena Knezevic received her PhD degree in Electrical Engineering in 2004. She currently serves as an assistant professor of the Electrical and Computer Engineering at University of Wisconsin-Madison. While at ASU, Dr. Knezevic worked under Professor David Ferry.

At UW-Madison, Dr. Knezevic teaches a high-level graduate course on transport in semiconductor devices. Now, with some years of experience at UW-Madison, Dr. Knezevic continues to advance in her field. Last year, she was granted the NSF CAREER Award, which bestowed her with a 5-year, \$400,000 grant for her work in theoretical modeling and simulation of short structures in very small timescales.

"The NSF CAREER Award is good because it's an honor and also good because it's money, which is probably even better," Dr. Knezevic says.

As a member of the Nanoelectronics Theory Group, Dr. Knezevic's research group has employed a variety of analytical and numerical techniques to address a wide range of problems in modern solid state electronics: Quantum transport and decoherence, Transport in curved 2D electronic systems, Transient and high-frequency behavior of nanostructures, Simulation of



Dr. Knezevic and her son, Nikola

quantum cascade and quantum box lasers, and Electronic properties of silicon nanowires.

As an assistant professor, a wife, and a mother of a 7-year-old-boy, Dr. Knezevic is able to balance both home and work life. She always spends time with her son, Nikola, at a park on the west side of Madison.

"The NSF CAREER Award is good because it's an honor and also good because it's money, which is probably even better."

Keep in touch with EE. Please e-mail your career updates to eeinfo@asu.edu.

Message from the Department Chair



EE Alumnus,

This newsletter focuses on the accomplishments of some of our alums who hold faculty positions at US universities. These accomplishments provide special visibility of ASU's Electrical Engineering Department among our academic peers.

If you would like to be featured or have suggestions for a future newsletter topic, please let us know.

Professor and Chair
Stephen M. Phillips

Inside this edition

EE Academic Alumni	2-3
EE Alumnus Benjamin Flores	2
EE Alumnus Umberto Ravaioli ..	3
EE Alumnus Robert Weissbach ..	3
Support EE	4

EE Academic Alumni : WHO's WHO

Shaikh Shahid Ahmed, Assistant Professor, Electrical and Computer Engineering, Southern Illinois University Carbondale, Advisor: Prof. Dragica Vasileska, Year: 2005

Max Anderson, Professor Emeritus, Electrical and Computer Engineering, University of Missouri at Rolla, Year: 1967

Gary Bernstein, Professor/Associate Chair, Electrical Engineering, University of Notre Dame, Advisor: Prof. David Ferry, Year: 1987

Vernon Blackledge, Emeritus Faculty, Computer Science and Engineering, Arizona State University, Advisor: Prof. Irv Kaufman, Year: 1969

Lawrence Clark, Associate Professor, Electrical Engineering, Arizona State University, Advisors: Prof. Robert Grondin/Prof. Sandwip Dey, Year: 1992

Arvind Raghavendra Dasu, Assistant Professor, Electrical and Computer Engineering, Utah State University, Advisor: Prof. Sethuraman Panchanathan, Year: 2004

Hassan El-Kishky, Associate Professor, Electrical Engineering, University of Texas at Tyler, Advisor: Prof. Ravi Gorur, Year: 1995

Benjamin Flores, Professor/Director, Electrical and Computer Engineering, University of Texas at El Paso, Advisors: Prof. Thomas Tice/Prof. Joseph Palais, Year: 1990

Stavros Georgakopoulous, Assistant Professor, Telecommunication and Information Technology Institute, Florida International University, Advisor: Prof. Constantine Balanis, Year: 2001

Costa Gerousis, Assistant Professor, Computer Engineering and Physics, Christopher Newport University (VA), Advisor: Prof. Stephen Goodnick, Year: 2002

Glen Gibson, Professor Emeritus, University of Texas at El Paso, Year: 1966

Huixin He, Assistant Professor, Chemistry, Rutgers University, Advisor: Prof. Nonjian Tao, Year: Post doc 2001-2003

Don Hummels, Professor, Electrical Engineering, Kansas State University, Year: 1969

Ravindra P. Joshi, Associate Professor, Electrical and Computer Engineering, Old Dominion University (VA), Advisor: Prof. David Ferry, Year: 1988

Irena Knezevic, Assistant Professor, Electrical and Computer Engineering, University of Wisconsin-Madison, Advisor: Prof. David Ferry, Year: 2004

Philip Loizou, Professor, Electrical Engineering, University of Texas at Dallas, Advisor: Prof. Andreas Spanias, Year: 1995

Lonnie Ludeman, Professor Emeritus, New Mexico State University, Advisor: Prof. Richard Kelly, Year: 1968

Narcisco Marcia, Associate Professor, Arizona State University Polytechnic Campus, Advisors: Prof. Walter Higgins/Prof. Willaim Dorson, Year: 1988

J. Derald Morgan, Vice President, University Advancement, University of Alabama at Huntsville, Advisor: Prof. Anjan Bose, Year: 1968

David Pheanis, Emeritus Faculty, Computer Science and Engineering, Arizona State University, Advisor: Prof. Marvin Woodfill, Year: 1974

Ronald Phillips, Professor, School of Electrical Engineering and Computer Science, University of Central Florida, Advisor: Prof. Lawrence Jelsma, Year: 1970

Umberto Ravaioli, Professor, Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, Advisor: Prof. David Ferry, Year: 1986

Earl Robbins, Emeritus Faculty, Computer Science and Engineering, Arizona State University, Advisor: Prof. Marvin Woodfill, Year: 1968 (MSE), 1963 (EE)

(Continued on page 3)

Benjamin C. Flores

Associate Dean for Graduate Studies, College of Engineering, University of Texas at El Paso



Dr. Benjamin C. Flores earned his PhD in Electrical Engineering from ASU in 1990. Currently, he is an associate dean for Graduate Studies at the University of Texas at El Paso (UTEP)'s College of Engineering, director of the University of Texas System Louis Stokes Alliance for Minority Participation, and director of the UTEP Model Institutions for Excellence Initiative.

Dr. Flores is an expert in retention strategies for undergraduate and graduate students in the STEM disciplines. He has conducted multiple presentations and seminars in the US, Mexico and Chile dealing with policies of access and massification in higher education. He is a member of the American Society for Engineering Education, the American Society for the advancement of Science, and the International Society of Optical Engineering. His honors include the 2006 ABET President's Award for Diversity, 2005 Texas Star Award in Higher Education, the IEEE Millennium Medal for outstanding contributions in engineering education and membership to the Electrical Engineering Honor Society and the Engineering Honor Society.

Dr. Flores remembers his time at ASU with fondness:

"From the moment I arrived at ASU, I was taken by the professionalism and attention to detail shown by the faculty and staff of the ASU College of Engineering. Dr. Thomas Tice (now retired) took me under his tutelage and prepared me for a successful career in the professoriate."

"I also appreciated that professors like Constantine Balanis and Joseph Palais took a personal interest in my development as a researcher and educator. Of course, I made a multitude of friends of whom I keep kind memories."

Did we miss you? Keep in touch with us, please email your career updates to eeinfo@asu.edu

EE Academic Alumni (Continued)

Andrej Stefanov, Assistant Professor, Electrical and Computer Engineering, Polytechnic University (Brooklyn), Advisor: Prof. Tolga Duman, Year: 2001

Roland Strawn, Emeritus Faculty, Arizona State University Polytechnic Campus, Advisor: Prof. Joseph Barkson, Year: 1976

Raji Sundararajan, Associate Professor, Electrical and Computer Engineering Technology, Purdue University, Advisor: Prof. Ravi Gorur, Year: 1993

Siddarth Suryanarayanan, Assistant Professor, Electrical Engineering, Florida State University, Advisor: Prof. Gerald Heydt, Year: 2005

Nonjian Tao, Professor, Electrical Engineering, Arizona State University, Advisor: Prof. Stuart Lindsay, Year: 1988

Stefan Thomke, Professor, Business Administration of William Barclay Harding, Harvard Business School, Harvard University, Advisor: Prof. Michael Kozicki, Year: 1990 (MS)

Dragica Vasileska, Professor, Electrical Engineering, Arizona State University, Advisor: Prof. David Ferry, Year: 1995

Robert S. Weissbach, Associate Professor, Electrical and Computer Engineering Technology, Pennsylvania State University, Advisor: Prof. George Karady, Year: 1998

Bingqian Xu, Assistant Professor, Biological and Agriculture Engineering, University of Georgia, Advisor: Prof. Nonjian Tao, Year: 2004

Minhee Yun, Assistant Professor, Electrical and Computer Engineering, University of Pittsburgh, Advisor: Prof. Michael Kozicki, Year: 1998

Umberto Ravaioli

*Interim Associate Dean, College of Engineering,
University of Illinois at Urbana-Champaign.*



Dr. Umberto Ravaioli received his PhD in Electrical Engineering in 1986. While at ASU, he worked under Professor David Ferry. Currently, Dr. Ravaioli is a professor of the Electrical and Computer Engineering and an interim associate dean for academic programs in the College of Engineering at University of Illinois at Urbana-Champaign (UIUC).

An expert in the area of theory of semiconductor devices, Dr. Ravaioli's research has focused on large scale simulation of charge transport in solid-state and semiconductor device simulation. His expertise

ranges from numerical solution of partial differential equations for continuum transport models to particle simulation using random Monte Carlo techniques.

During his past two years as the College on Engineering's assistant dean for academic programs, Dr. Ravaioli had been intensely involved in recruiting, admissions, records, graduation, academic advising, honors programs, freshman orientation, student organizations, outreach programs, international programs, and diversity programs within the college.

Throughout his teaching career, he has been named three times to UIUC's "Incomplete List of Excellent Teachers," and five times to the "Advisors List for Excellence in Advising of the College of Engineering."

Dr. Ravaioli is a fellow of the Institute of Electrical and Electronics Engineers (IEEE), and a fellow of the Institute of Physics (IOP). And his honors included Fellow, Institute of Physics (1999); Fellow, Institute of Electrical and Electronics Engineers (2003).

Don't miss our next issue on EE Alumni International Educators.

Robert S. Weissbach

Associate Professor, Penn State Erie



Dr. Robert S. Weissbach received his PhD in Electrical Engineering in 1998. While at ASU, he was advised by Professor George Karady. Dr. Weissbach is currently an associate professor in the Electrical Engineering Technology program at Penn State Erie, the Behrend College, where he was the program chair from 1999-2007.

At Penn State, Dr. Weissbach co-teaches a product development and entrepreneurship course for engineering, technology, and business students. His research interests include power electronics, power systems, and multidisciplinary education.

Dr. Weissbach is a senior member of the Institute of Electrical and Electronics Engineers (IEEE) and a member of the American Society for Engineering Education (ASEE). In addition, he is a registered Professional Engineer in the Commonwealth of Pennsylvania.

Dr. Weissbach has been twice nominated for the Penn State Behrend Council of Fellows Teaching award, once nominated for the Penn State Behrend Council of Fellows Faculty Research Award, and once nominated for the Excellence in Outreach Award. He was named the IEEE Erie Section Person of the Year in February 2003. He received the ASEE Campus Representative Award in June 2003 and the ASEE North Central Section Campus Representative Award in April 2004.

The stories of alumni and photos featured in this edition are compiled and taken from the alumni's institutional and personal web sites.

Electrical Engineering Alumni Newsletter

This publication is written, designed and produced by the Department of Electrical Engineering of the Ira A. Fulton School of Engineering at Arizona State University for distribution to alumni, industry partners and academic friends worldwide.

Department of Electrical Engineering
ASU Box 875706
Tempe, AZ 85287-5706

Phone: (480) 965-3424 E-mail: eeinfo@asu.edu
www.fulton.asu.edu/~eee

Editors: Dr. Joseph Palais, Tanita Saenkhum

© 2007 Arizona State University. All rights reserved. The sunburst logo is a registered trademark, and the Arizona State University word mark is a trademark of Arizona State University. All other brands, product names, company names, trademarks and service marks used herein are the property of their respective owners. Information in this document is for informational purposes only and is subject to change without notice.

Support Electrical Engineering

In celebration of the Ira A. Fulton School of Engineering's 50th Anniversary, we invite you to celebrate your alumni status and make a gift in support of the department of Electrical Engineering. Your gift is essential in propelling EE into the next 50 years of innovation and success by allowing us to:

- Provide the best education and research opportunities for our deserving students
- Attract the most highly regarded and knowledgeable faculty in our field
- Create new opportunities in research, learning and innovation through cutting-edge technology
- Progress our department to the top level of electrical engineering schools nationally

To make a gift of any amount:

- Call Kendra Quandt at 480.727.7600
- Go online to www.asufoundation.org and click the gold "Give Now" button. Select "Other" when asked to "Select a college or unit to donate to." Then type "Electrical Engineering" in the box that appears below asking you to "indicate the name of the fund."
- Mail your gift to – ASU Foundation, Gift Processing, PO Box 2260, Tempe, AZ 85280-2260. Checks should be made payable to "ASU Foundation" with "Electrical Engineering" noted on the memo line.



Electrical Engineering
Department
Arizona State University Main
Box 875706
Tempe, AZ 85287-5706
