



The Baylor School of Engineering and Computer Science is embarking on a process of honing our strategic directions. Since the advent of the university's 10-year vision, Baylor 2012, we have benefited from significant initiatives, and now it is time to examine who we are and where we are headed.

As we look to the future, we first consider new opportunities as well as our traditional hallmarks that have landed us where we are today. Particularly included among these are a standard of exceptionally high quality student and teacher interactions and diligent attention to our Christian worldview.

Within this issue of *Synergy* you will learn about on-going initiatives that themselves will help delineate future courses. This includes the genesis of programs and research to apply our skills, abilities and faith to improve the human condition where possible plus a look at an Engaged Learning Group focusing on energy and society.

Our dreams of other suggested or proposed bold projects include a significant growth in our undergraduate enrollment, the launch of PhD programs and serving as the academic anchor of the Baylor Discovery Park, and a spectacular new education and laboratory building on campus.

While current activities serve as a bridge to the future, and our dreams are noble, we cannot plot our course alone. We require the help of our alumni, friends and advocates. This includes new ideas, feedback, influence, and resources. I would love to hear from you, to learn, too, of your dreams for Baylor, and how we together can help shape and educate tomorrow's technology leaders.

Ben Kelley
Dean Benjamin Kelley

AROUND THE LAB

New Faces

Wright and Baylis join Engineering and Computer Science faculty



Dr. Lesley Wright
Assistant Professor of Mechanical Engineering

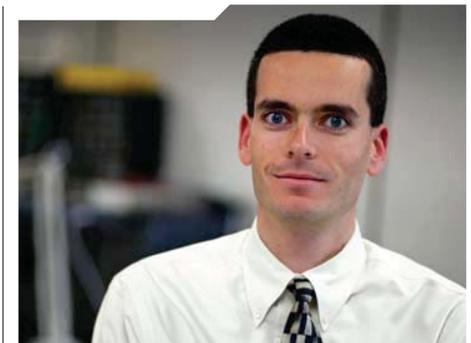
Dr. Lesley Wright comes to the Baylor ECS Department of Mechanical Engineering from The University of Arizona's Department of Aerospace and Mechanical Engineering.

Wright's research interests include both the internal and external turbine blade heat transfer. She also is considering experimental methods and associated applications to better understand gas turbine heat transfer and cooling techniques. Since 2001, Wright has authored or co-authored one handbook chapter, 10 journal articles, and 18 conference papers. Her 2005 presentation at the ASME Heat Transfer Conference recommended for the ASME K-14 Committee on Gas Turbine Heat Transfer 2005 Warren M. Rohsenow Prize for Best Presentation.

At Baylor, her course schedule includes teaching Fluid Mechanics, Heat Transfer and Thermodynamics.

Before coming to Baylor, she was an assistant professor at Arizona and became the director of the Advanced Heat Transfer Laboratory.

After obtaining a BS in Engineering from Arkansas State University, Wright earned two degrees from Texas A&M University: an MS in Mechanical Engineering in May 2003 and a PhD in Mechanical Engineering in August 2006.



Dr. Charles Baylis
Assistant Professor of Electrical and Computer Engineering

Dr. Charles Baylis joined the Baylor ECS faculty in fall 2008 after serving as a visiting assistant professor at the University of South Florida.

His research interests include RF/microwave active circuit design, biological applications of RF/microwave measurements, and wireless sensor/circuit design.

At Baylor, his teaching responsibilities include Applied Electromagnetic Fields, High Frequency Electronics and High Frequency Electronic Design.

Baylis holds three Electrical Engineering degrees from the University of South Florida, receiving a BS in 2002, an MS in 2004 and a PhD in 2007. His master's thesis, *Improved Current-Voltage Methods for RF Transistor Characterization*, received the USF's Outstanding Thesis Award. His dissertation was titled *Improved Techniques for Nonlinear Electrothermal FET Modeling and Measurement Validation*.

He has coauthored numerous articles and conference papers. Baylor has served on several professional committees, including the steering committee for the 2014 IEEE International Microwave Symposium in Tampa, Florida, and as the website chair for the 2009 Wireless and Microwave Technology Conference in Clearwater, Florida.