Reyhan Baktur

Assistant Professor

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Professional Preparation

Ph.D.	EE	Clemson University, Adviser: L. W. Pearson	2005
M.S.	EE	Chinese Academy of Science, Beijing, China	2000
B.S.	EE	Tsinghua Univeristy, Beijing, China	1998

Appointments

2006 Assistant Professor, Electrical and Computer Engineering, Utah State University, Logan, UT
2005-2006 RF Engineer, Motorola Inc., Arlington Heights, IL

Publications (Research)

Reyhan Baktur, L. W. Pearson and J. M. Ballato, “Theoretical Determination of the Resonances of a Circular Laser” J. of Appl. Phys., 101, 043102-043102 (2007).

Reyhan Baktur, L. W. Pearson and J. M. Ballato, “Computation of Electromagnetic Whispering Gallery Mode Field in a Dielectric Microring Fabricated on a Metal Wire,” to appear on Electromagnetics.

Alper Genc and R. Baktur, “Miniaturized Dual-Passband Microstrip Filter Based on Double-Split Complementary Split Ring and Split Ring Resonators”, To appear on Microwave and Optical Technology Letters. January 2009.

Timothy W. Turpin, and R. Baktur, “Optimization of Meshed Patch Antenna Integrated on Solar Cell”, 2008 IEEE APS/URSI Symposium.

Timothy W. Turpin, and R. Baktur, “See-through Microstrip Antennas and Their Optimization”, 2008 URSI General Assembly.

Alper Genc and R. Baktur, “Miniaturized Dual Passbands Microstrip Filter Based on Split Ring Resonator and Its Image”, 2008 IEEE APS/URSI Symposium.

Alper Genc and R. Baktur, “Miniaturized Microstrip Dual-Band Bandpass Filter”, 2008 URSI General Assembly.

Reyhan Baktur, L. W. Pearson, and J. M. Ballato, “Whispering Gallery Mode Laser in an Elliptical Microring”, 2008 URSI General Assembly.

Timothy W. Turpin, M. Pine, and R. Baktur, “Integrated Solar Cell Meshed Patch Antennas”, 2008 Annual AIAA/USU Conference on Small Satellites.

Alper Genc and R. Baktur, “Miniaturized Tunable Split Ring Resonator Based Microstrip Filter”, 2008 Annual AIAA/USU Conference on Small Satellites.

Timothy W. Turpin, Reyhan Baktur, and Alper Genc, “Optically Transparent Patch Antennas Made from Conductive Meshes for Satellite Application”, North American Radio Science Meeting, URSI 2007, Ottawa, Canada

Alper Ganc and Reyhan Baktur, “A Study on a Dual-Passbands Microstrip Filter based on Complementary Split-Ring Resonators”, North American Radio Science Meeting, URSI 2007, Ottawa, Canada

Reyhan Baktur, L. W. Pearson and J. M. Ballato, "Near-Rigorous Theory of Microring Cavity Resonance", URSI International Union of Radio Science National Radio Science Meeting, January 5-8, Boulder Colorado, 2004

Reyhan Baktur, L. W. Pearson and J. M. Ballato, "Coupling between the Whispering Gallery Mode in a Microring Laser and Fundamental Mode in an Elliptical Optical Fiber", 2004 URSI International Symposium on Electromagnetic Theory, May 23-27, 2004, Pisa, Italy

Reyhan Baktur, L. W. Pearson and J. M. Ballato, "Control of Coupling from a Microring Laser Formed Coaxially on an Optical Fiber", 2004 IEEE AP-S International symposium and USNC/URSI National Radio Science Meeting, June 20-26, Monterey, California, 2004

Reyhan Baktur, L. W. Pearson and J. M. Ballato, "Aperture Description of Coupling of a Microring Laser to a Fiber", 2003 IEEE AP-S International symposium and USNC/URSI National Radio Science Meeting, June 21-26, Columbus, Ohio, 2003.

Publications (Educational)

Reyhan Baktur, “Project Based Teaching of Undergraduate Antennas and Electromagnetics Courses at Utah State University- Experiences and Plans”, 2007 ASEE Rocky Mountain Section Conference.

Professional Society Involvement

Member of IEEE Antennas and Propagation Society

Frequency reviewer of *IEEE Antennas and Propagation Letters*, *Radio Science*, *International Journal of Antennas and Propagation*, *IEEE Antennas and Propagation Magazine*.

Synergistic Activities

Holds the annual USU Engineering State Program for junior and senior high school students. Hold lectures and facilitated discussions. Instruct students in building Magnetic Cannon with the understanding of underlying electromagnetic mechanism. Organize competition for students to try out their product. For more recent events, please see http://www.engineering.usu.edu/index.php?PID=c9df9ace5d&PGID=kiEpD0QuD9

Collaborators

Prof. Cynthia Furse (University of Utah), Prof. Anh-Vu Pham (UC Davis), Dr. Timothy Doyle (USU), Prof. Chris Winstead (USU), Prof. Cameron Charles (University of Utah)