

Banu Onaral, Ph.D.

Professor and Director, School of Biomedical
Engineering
Drexel University



Thursday Dec. 8th
BME series Fall Seminar 12:00 – 1:00 pm
Open Discussion
3:00 pm - 4:30pm
Friday Dec. 9th
Research Seminar
8:30am - 9:30am

With generous support from the National Science Foundation, NSF-Advance, (grant #0245054), the Academic Careers in Engineering and Science (ACES) program at Case Western Reserve University seeks to contribute to the development of a national science and engineering workforce that includes the full participation of women at all levels of faculty and academic leadership.

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Dr. Onaral is H. H. Sun Professor of Biomedical Engineering and Electrical Engineering at Drexel University. She holds a **Ph.D. in Biomedical Engineering** from the University of Pennsylvania and BSEE and MSEE in Electrical Engineering from Bogazici University, Istanbul, Turkey. Dr. Onaral joined the faculty of the Electrical and Computer Engineering Department and the Biomedical Engineering and Science Institute in 1981. She has served as the founding Director of the School of Biomedical Engineering Science and Health Systems since 1997.

Dr. Onaral's academic focus both in research and teaching is centered on signals and systems engineering with special emphasis on complex systems and biomedical signal processing in ultrasound and optics. She has led major research and development projects sponsored by the National Science Foundation (**NSF**), National Institutes of Health (**NIH**), Office of Naval Research (**ONR**), **DARPA** and Department of Homeland Security (**DHS**). She is the recipient of a number of faculty excellence awards including the 1990 **Lindback Distinguished Teaching Award** of Drexel University, the **EDUCOM Best educational Software Award** and the **NSF Faculty Achievement Award**.

Her translational research efforts for rapid commercialization of biomedical technologies developed at Drexel have resulted in the creation of the Biomedical Device Development Initiative (**BioMedDev**), a 'start-up of start-ups' which brings together academic technology developers with entrepreneurs, economic development agencies, local legal, business and investment communities.

Dr. Onaral's professional services include chair and membership on advisory boards and strategic planning bodies of several universities and funding agencies, including service on the **National Science Foundation's Engineering Advisory Board** for a period of three years, and on the proposal review panels and study sections. Her editorial responsibilities have included service on the Editorial Board of journals and the CRC Biomedical Engineering Handbook as Section Editor for Biomedical Signal Analysis. She served as an officer and the President of the **IEEE Engineering in Medicine and Biology Society (EMBS)**, the largest member-based biomedical engineering society in the world. She organized and chaired the 1990 **Annual International Conference of the EMBS** and Co-Chaired the 2004 **Annual Conference of the Biomedical Engineering Society**. She is a fellow of the IEEE, the AAAS and a Founding Fellow of American Institute for Medical and Biological Engineering (AIMBE).