Transducers 2019 Early Career AWARD

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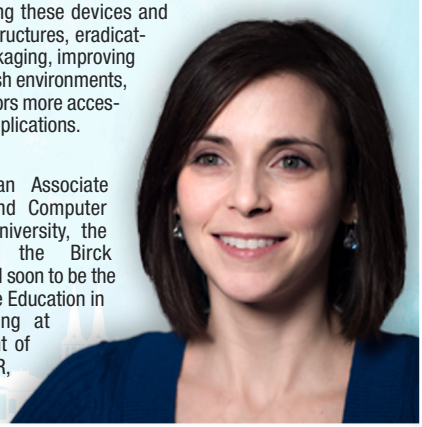
In order to celebrate the 20th edition of the Transducers Conference in 2019, the Transducers Early Career Award has been established by the Transducers International Steering Committee. The Award will acknowledge and honor advances in the design, fabrication and/or commercialization of solid-state sensors, actuators and microsystems, which are achieved by individuals or teams. The awardees show either high potential for a successful academic or industrial career or demonstrate entrepreneurship as founders of a start-up or early stage company. The award will be presented on Monday 24 June at 10:00.

Dana Weinstein

Dana Weinstein has demonstrated strong research in hybrid MEMS-IC devices for wireless communications, clocking and sensing applications, and her excellent support of the Transducers Community has shown her promise for a long, productive career in the field of MEMS and Transducers.

Dana Weinstein's research focuses on how developments in MEMS fabrication technology over the past two decades have yielded new opportunities to design high quality factor (Q) micromechanical structures for ultra-low-power frequency-domain signal processing, sensing, and timing applications. The HybridMEMS Lab led by Dana Weinstein invents new mechanical designs and efficient transducers to realize MEMS resonators with high frequency, low motional impedance, strong transducer coupling coefficients, low bias drift and wide programmable range. Furthermore, they investigate coupling mechanisms between resonators demonstrating channel-select filters and synchronized oscillator dynamics, and explore inter-domain coupling for MEMS-CMOS and MEMS-HEMT devices. Her research also considers the practical aspects of building these devices and systems into unreleased structures, eradicating the need for costly packaging, improving yield and robustness in harsh environments, and making MEMS resonators more accessible for a wide range of applications.



Dana Weinstein is an Associate Professor in Electrical and Computer Engineering at Purdue University, the Associate Director of the Birck Nanotechnology Center, and soon to be the Associate Dean of Graduate Education in the College of Engineering at Purdue. She is a recipient of the DARPA YFA, NSF CAREER, and Intel Early Career awards.