ECE DISTINGUISHED SPEAKER SERIES

Albert P. Pisano, Ph.D.
Dean of the Jacobs School of Engineering
University of California, San Diego

Prof. Matteo Rinaldi
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Engineering as a Force for the Public Good

Thursday
March 27, 2014
Room 378 in 140 The Fenway
4:00–5:00 pm
Reception to follow

Sponsored by the Department of Electrical and Computer Engineering

In this talk, Professor Albert P. Pisano, Dean of the Jacobs School of Engineering at UCSD, will describe a vision of abundance for the world, made possible by technological advances in engineering. These advances have promise to usher in an era of abundant manufacturing, abundant fresh water, abundant food production and abundant energy. Further, Professor Pisano will offer a vision of how engineering education must change to enhance the progression of these technological advances. This is the vision of Experiential Engineering Education (E3) as well as stories about how engineers, working with our colleagues in the sciences and the humanities, should, can and do have immediate, direct positive impact on the day-to-day life of all of us, both in the developed and the developing world.

Albert P. Pisano began his service as Dean of the Jacobs School of Engineering on September 1, 2013. Pisano holds the Walter J. Zable Chair in Engineering and serves on the faculty of the departments of mechanical and aerospace engineering and electrical and computer engineering.

Pisano is an elected member of the National Academy of Engineering for contributions to the design, fabrication, commercialization, and educational aspects of MEMS.

Prior to his appointment at UCSD, Pisano served on the UC Berkeley faculty for 30 years where he held the FANUC Endowed Chair of Mechanical Systems. Pisano was the senior co-director of the Berkeley Sensor & Actuator Center (an NSF Industry-University Cooperative Research Center), director of the Electronics Research Laboratory (UC Berkeley's largest organized research unit), and faculty head of the Program Office for Operational Excellence, among other leadership positions. Since 1983, Pisano has graduated over 40 Ph.D. and 75 M.S. students.

From 1997 to 1999, Pisano was a program manager for the MEMS Program at the Defense Advanced Research Projects Agency (DARPA).

Pisano earned his undergraduate ('76) and graduate degrees ('77, '80, '81) in mechanical engineering at Columbia University. Prior to joining the faculty at UC Berkeley, he held research positions with Xerox Palo Alto Research Center, Singer Sewing Machines Corporate R&D Center and General Motors Research Labs.

Pisano's research interests include: micro-electro-mechanical systems (MEMS) wireless sensors for harsh environments (600°C) such as gas turbines and geothermal wells; and additive, MEMS manufacturing techniques such as low-temperature, low-pressure nano-printing of nanoparticle inks and polymer solutions. Other research interests and activities include MEMS for a wide variety of applications, including RF components, power generation, drug delivery, strain sensors, biosensors, micro inertial instruments, disk-drive actuators and nanowire sensors. He is a co-inventor listed on more than 20 patents in MEMS and has co-authored more than 300 archival publications.

Pisano is a co-founder of ten start-up companies in the areas of transdermal drug delivery, transvascular drug delivery, sensorized catheters, MEMS manufacturing equipment, MEMS RF devices and MEMS motion sensors.

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Northeastern

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