

**FENA Presents the
FCRP Live Meeting Seminar Series
Featuring:**

CENGIZ OZKAN
PROFESSOR OF MECHANICAL ENGINEERING
UNIVERSITY OF CALIFORNIA, RIVERSIDE

“Hybrid Nanotechnology: Functional Nano-Engineered Materials and Devices”

Dr. Ozkan will be describing his group's research in areas of self assembly and synthesis of nanomaterials, nanoscale building blocks and devices for applications in nanoelectronics, thermoelectrics and spintronics. In one area, they conduct self assembly of carbon nanotubes and quantum dots via chemical and biological approaches to realize functional building blocks and potential nanoscale devices.

The natural encoding principles of DNA (deoxyribonucleic acid) provides an opportunity for encoded self assembly of devices and for large scale integration. In another area, they conduct electrochemical synthesis of metal-semiconductor heterojunction nanowires (including Au-CdTe-Au, Co-CdTe-Co, Au-ZnO-Au) and thermoelectric nanowires (BiSb, ZnSb) in porous templates to obtain high density nanowire arrays. He will also describe a novel methodology we developed recently for quick release of nanowires from the nanotemplates post electrochemical synthesis.

Thursday, August 18th
11:00 AM (Pacific), 2:00 (Eastern)
UCLA, 5401 Boelter Hall

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