## Some Interesting Seminar Topics

- Low-power analog and biomedical circuits including:
- Low-power trans-impedance amplifiers and photoreceptors
- Low-power transconductance amplifiers and scaling laws for power in analog circuits
- Low-power filters and resonators
- Low-power current-mode circuits
- Ultra-low-power and neuron-inspired analog-to-digital conversion for biomedical systems
- ...
- Low-power RF and energy-harvesting circuits for biomedical systems including:
- Wireless inductive power links for medical implants
- Energy-harvesting RF antenna power links
- Low-power RF telemetry in biomedical implants
- ...
- Biomedical electronic systems including:
- Ultra-low-power implantable medical electronics
- Ultra-low-power noninvasive medical electronics
- ...
- Bio-inspired systems including:
- Neuromorphic electronics
- Cytomorphic electronics: cell-inspired electronics for systems and synthetic biology
- ...
- Energy sources including:
- Batteries and electrochemistry
- Energy harvesting and the future of energy
- ...


## Reference Book

* Sarpeshkar, Rahul, "Ultra low power bioelectronics: fundamentals, biomedical applications, and bio-inspired systems," Cambridge University Press 2010

