# Advanced Capacitor Technology Consortium

**Welcome to Clemson University!**

CLEMSON
UNIVERSITY

# Introductions

**Participants**

AVX
Clemson University
Cornell Dubilier
Dielectric Laboratories
Electrolux
EPCOS
Hitachi Automotive
KEMET Electronics
United Chemi-Con
University of Rome “La Sapienza”

# Why form a Capacitor Consortium?

- Economy has slowed down, but rate of new advances in electronics technology has not.
  - micro/nano materials
  - mems devices
  - system in package / system on chip
  - electrical energy storage applications
  - power conversion / low-noise efficient inverters
- Consortium is a cost-effective way of keeping up with latest technologies in capacitor design and capacitor applications.

# Why a consortium makes sense (university view)

- Lower overhead
- Able to act quickly
- Flexible
- Consistent support for the best students
- Fair and reasonable intellectual property rights

# Why a consortium makes sense (company view)

- Lower overhead
- Able to act quickly
- Flexible
- Consistent support for the best students
- Fair and reasonable intellectual property rights
- Recruiting of best students
- Access to broad range of project results
- Participation in federally funded research
- Visibility to customers

# Proposed Consortium Structure

- $65k/year membership
- Company works with one PI to define a project
- All research results are shared
  - Quarterly reports
  - Annual meetings
- All company proprietary information is protected
- Unusually favorable rights to all intellectual property
- Can join or drop out at any time

# Today's Agenda

| | |
|---|---|
| 08:30 – 09:00 am | Participant Company Research Interests |
| 09:00 – 11:00 am | New Capacitor Technology Presentations |
| 11:00 – 12:00 pm | Novel Capacitor Design Presentations |
| 12:00 – 01:00 pm | Lunch and Tour of CU-ICAR |
| 01:00 – 02:20 pm | New Capacitor Applications Presentations |
| 02:20 – 03:30 pm | Consortium Development Discussion |