



# Center for Power Electronics Systems

Empowerment via the CPES connection

## PRINCIPAL PLUS MEMBERS

- 3M Company
- ABB, Inc.
- Alstom Transport
- Altera – Enpirion Power
- Chicony Power Technology Co., Ltd.
- CRRC Zhuzhou Institute Co., Ltd.
- Delta Electronics
- Dowa Metaltech Co., Ltd.
- Eltek
- Emerson Network Power
- GE Global Research
- GE Power Conversion, Inc.
- General Motors
- Groupe SAFRAN
- Huawei Technologies Co., Ltd.
- Infineon + International Rectifier
- Integrated Device Technology, Inc.
- Intel
- Inventronics (Hangzhou), Inc.
- Keysight Technologies
- Linear Technology
- Lockheed Martin Corporation
- Murata Manufacturing Co., Ltd.
- Navitas Semiconductor
- NextEV
- Nissan Motor Co., Ltd.
- NXP Semiconductors
- ON Semiconductor
- Panasonic Corporation
- Rockwell Automation
- Silergy Corporation
- Sonos, Inc.
- Sumitomo Electric Industries, Ltd.
- Texas Instruments
- United Technologies Research Center

## PRINCIPAL MEMBERS

- AcBel Polytech, Inc.
- China Nat'l Elec. Apparatus Res. Inst.
- Fairchild Semiconductor Corporation
- Flextronics
- LG Electronics China R&D Center
- Macroblock, Inc.
- NR Electric Co., Ltd.
- Siemens Corporate Technology
- Toshiba Corporation
- ZTE Corporation

## JOIN THE CPES FAMILY –

- The best mechanism to stay abreast of technological developments in power electronics
- The ideal forum for networking with leading-edge companies and top-notch researchers

## GAIN THE COMPETITIVE EDGE --

- Leveraged funding** -- reap the benefit of leveraged research funding of \$4.5 million per year
- Industry influence** -- guide the Center by serving on the Industry Advisory Board (IAB); help shape the Center's research program by participating in IAB working groups
- Intellectual property** – capture first-hand knowledge of CPES-generated technologies. Enroll as Principal Plus or Principal Member and gain IPPF (Intellectual Property Protection Fund)\* benefits
- Technology transfer** -- gain the competitive edge via easy access to CPES publications and research updates, as well as the multi-disciplinary team of researchers
- Continuing education** -- enroll in the CPES professional short courses at a significant discount to broaden knowledge base and stay updated on new technologies
- Access to state-of-the-art facilities, faculty expertise, top-notch students** – utilize the invaluable resources and opportunities available via the CPES connection

## CPES INDUSTRY PARTNERSHIP PROGRAM

– Tiered membership structure to benefit industries with varying needs and interests –

- Principal Member Plus (\$50,000 per year)** – Automatic IP benefits\*, with membership funds earmarked for mini-consortium for focused research... plus all benefits below
- Principal Member (\$30,000 per year)** – Automatic IP benefits\*, opportunity to guide and influence CPES via Industry Advisory Board (IAB) and IAB working groups ... plus all benefits below
- Associate Member (\$15,000 per year)** – password access to publications, presentations and student directory; complimentary registration for annual conference; significant discount for short courses; invitation to industry webinar presentations; option to participate in industry residence program, access to faculty, students, and state-of-the-art facilities
- Affiliate Member (in-kind contributions, membership by invitation only)** – password access to CPES conference proceedings

## \*Intellectual Property Protection Fund (IPPF)

IPPF is a unique IP access mechanism that provides extraordinary IP advantage to Principal-level members. IPPF is available automatically, at no additional cost, to Principal Plus and Principal members. IPPF members meet quarterly via telecon with inventors to discuss invention disclosures and jointly decide which technologies to protect, with patenting costs covered by IPPF. Once a technology is protected, IPPF members are granted a royalty-free, non-exclusive, non-transferable license to use the technology. IPPF is applicable only to technologies developed under the industry consortium by CPES-VT researchers.

Visit us at <[www.cpes.vt.edu](http://www.cpes.vt.edu)>

For more information, please contact Teresa Shaw at <[tshaw@vt.edu](mailto:tshaw@vt.edu)>

## ASSOCIATE MEMBERS

- Analog Devices
- Calsonic Kansei Corporation
- Crown International
- Cummins, Inc.
- Dell
- Dyson Technology Ltd.
- Efficient Power Conversion
- Ford Motor Company
- Fuji Electric Co., Ltd.
- LiteOn Technology Corporation
- Maxim Integrated Products
- Microsoft Corporation
- Richtek Technology Corporation
- Robert Bosch GmbH
- Shindengen Electric Mfg. Co., Ltd.
- Tesla Motors
- Toyota Motor Corporation
- Toyota Motor Eng. & Mfg. N.A., Inc.
- United Silicon Carbide, Inc.

## AFFILIATE MEMBERS

- ANSYS, Inc.
- CISSOID
- DfR Solutions
- Electronic Concepts, Inc.
- Mentor Graphics Corporation
- NEC TOKIN Corporation
- Plexim GmbH
- Powersim, Inc.
- Rohde & Schwarz
- Simplis Technologies, Inc.
- Synopsys, Inc.
- Taiyo Yuden Co., Ltd.
- Tektronix, Inc.
- Transphorm, Inc.
- Vesta System
- VPT, Inc.