



\$250K DOE Grant Will Benefit ICAMR

KISSIMMEE, June 28, 2016 – The U.S. Department of Energy (DOE) is funding a project between Argonne National Laboratory and the International Consortium for Advanced Manufacturing Research (ICAMR) that will improve device connections in systems needed to produce the next generation of sensors.

Argonne will receive \$250,000 for the work that will focus on silicon interposers, a critical component for electrically connecting the multiple integrated circuits needed to make sensors with many functions.

ICAMR will support the work at its state-of-the-art advanced manufacturing facility set to open next spring in Osceola County.

“This award is significant because it shows the inroads we are making with federal funding agencies and their acknowledgment of the unique potential ICAMR offers,” said Chester Kennedy, ICAMR CEO.

The work will specifically benefit a project between Harris Corp. and ICAMR that is developing a roadmap for three-dimensional integrated circuits. The goal of the Harris/ICAMR project is to fabricate a device capable of interconnecting one million I/O signals utilizing traditional fabrication processes.

ICAMR will provide cost-share through use of tools and facilities to conduct the research. Both Argonne and ICAMR are working to expand thin-film processing technology, which is used in solar cells, fuel cells, semiconductor devices and also in next-generation solid state devices.

Silicon interposers are used in conventional electronics and also allow for the integration of other type of materials with silicon. They allow not only for the development of systems capable of sensing, power generation and energy storage, but also for the use of existing manufacturing capabilities which are predominately based on silicon.

The funding is part of the DOE’s Technology Commercialization Fund, which is focused on supporting the commercialization and deployment of promising energy related technologies developed at the National Laboratories that have commercial potential.

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The International Consortium for Advanced Manufacturing Research (ICAMR) is an industry-led initiative focused on the novel materials that are needed to advance device performance and produce next-generation electronics on silicon wafers. It consists of companies and universities that are passionate about developing and exploiting the next generation of sensor capabilities and the physical facilities which enable the research and development to create those capabilities (a state-of-the-art microelectronics fabrication facility and a supporting design center). www.icamr.net

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