

MEMORANDUM OF UNDERSTANDING
between
NATIONAL CHENG KUNG UNIVERSITY
and
UCHICAGO ARGONNE, LLC, OPERATOR OF ARGONNE NATIONAL LABORATORY,
FOR COOPERATION CONCERNING RENEWABLE ENERGY AND NANOTECHNOLOGY

National Cheng Kung University (NCKU), Taiwan and UChicago Argonne, LLC, operator of Argonne National Laboratory (ANL), hereinafter the "Participants":

Desiring to cooperate in fields of mutual interest, including renewable energy and nanotechnology,

Have reached the following understanding:


1. This collaborative effort involves NCKU and divisions, centers, and facilities at ANL, including, among others, the Center of Nanoscale Materials (CNM), the Advanced Photon Source (APS), and the Electron Microscopy Center (EMC) at ANL.
2. ANL and NCKU plan to jointly develop collaborative research programs in the general area of renewable energy, energy storage, nanofabrication, nanobiomedicine, nanoscale materials, nanodevices, x-ray microscopy/scattering/electron microscopy, nanoprobe characterization, and other advanced facilities for novel nano structures and materials. The Participants' intended collaboration includes, for example, synthesis, fabrication, nanocharacterization, such as the hard x-ray nanoprobe at the Advanced Photon Source, and theory, particularly focusing on applications to energy, advanced materials, nanoelectronics, and medical devices and medicine. These initial areas may be modified or expanded by mutual consent of ANL and NCKU.
3. This future collaboration is expected to occur through the exchange of research samples and staff, including principal investigators, post-docs and students, and the administrative support at both ANL and NCKU. Each Participant understands that the exchange of research samples and staff and the sharing of resources is contingent upon U.S. Department of Energy (DOE) and the Taiwan National Science Council, the Taiwan Ministry of Education funding agency and NCKU concurrence; and that access to ANL facilities, such as CNM, APS, and EMC, is based on the user access policy of the specific managing divisions or centers of ANL.
4. The Participants may seek support from both public and private sources, to help accelerate the growth of the NCKU/ANL collaborations. The conduct of the research activities described in this

Memorandum of Understanding is to be undertaken under appropriate contractual arrangements therefor.

5. This Memorandum of Understanding does not create any legally binding obligations.

Signed in duplicate

For National Cheng Kung University:

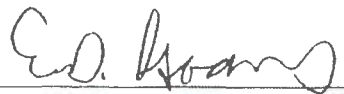

Hwung-Hweng Hwung, President
National Cheng Kung University

Date: 2/18/2013

Place: National Cheng Kung University

For UChicago Argonne, LLC

Operator of Argonne National Laboratory:


Eric D. Isaacs, Laboratory Director
Argonne National Laboratory

Date: 1/14/2013

Place: Argonne National Laboratory