

# **MEMORANDUM OF UNDERSTANDING**

**between**

**UCHICAGO ARGONNE, LLC,  
OPERATOR OF ARGONNE NATIONAL LABORATORY**

**and**

**PUSAN NATIONAL UNIVERSITY**

## **REGARDING ADVANCED MATERIALS**

UChicago Argonne, LLC, operator of Argonne National Laboratory (Argonne) under Prime Contract No. DE-AC02-06CH11357 with the U.S. Department of Energy and Pusan National University (PNU), collectively herein the "Participants",

SHARING an interest in collaborating to promote understanding and goodwill, to strengthen cultural ties, and to broaden research and education experience and horizons,

HAVE REACHED THE FOLLOWING UNDERSTANDING:

### **I. OBJECTIVE**

The Participants intend to work together to develop the mechanisms and processes to promote collaborative efforts on advanced materials and to promote research and academic exchange and cooperation between the institutes.

### **II. FORMS OF COOPERATION**

Cooperation may include, but is not limited to:

1. Exchange of published scientific and technical information, publications, and reports;
2. Exchange of samples and materials subject to applicable government approvals and laws;
3. Exchange of scientists, engineers, and other specialists for participation in identification and planning of joint projects of research, policy, knowledge transfer, or training. Each Participant is to abide by the health, safety, and environmental requirements of the host Participant when on an exchange assignment at the host Participant's facility.

This cooperation is not intended to limit the liberty of either PNU or Argonne to undertake collaborations, projects, and further activities with other organizations, as each deems appropriate.

### III. POINTS OF CONTACT

Each Participant should designate one or more Lead Coordinators, to serve as its principal representative(s) for all activities conducted under this Memorandum of Understanding (MOU), including identifying areas of cooperation, coordinating cooperation between the Participants, and identifying available resources (including funding) for potential collaborative activities under this MOU.

Representatives of the Participants that intend to cooperate under this MOU are from the Argonne Material Science Division and from the Global Frontier R&D Center for Hybrid Interface Materials / BK21 PLUS Center for Advanced Materials & Parts of Transportation Systems / BK21 PLUS Center for Advanced Chemical Technology / School of Materials Science and Engineering / School of Convergence Science in Pusan National University, Korea.

### IV. GENERAL CONSIDERATIONS

1. This MOU does not create any legally binding obligations between the Participants.
2. The conduct of cooperative activities contemplated by this MOU is subject to the availability of funding, personnel, and other resources.
3. Each Participant should conduct the cooperation under this MOU in accordance with applicable laws and regulations to which it is subject, and international agreements to which its Government is party.
4. Each Participant is to be responsible for the costs it incurs in participating in cooperative activities under this MOU.

### V. COMMENCEMENT, MODIFICATION AND DISCONTINUATION

1. Cooperative activities under this MOU may commence upon signature by the Participants and continue for a 5-year period unless discontinued in accordance with paragraph 2 of this Section.
2. The Participants may discontinue this MOU at any time in writing. A Participant that wishes to discontinue its participation in this MOU should endeavor to provide at least ninety (90) days written notice to the other Participant.

3. This MOU may be modified in writing by mutual consent of the Participants, and may be extended for additional periods.

Signed in duplicate.

For: UChicago Argonne, LLC  
Operator of Argonne National Laboratory

Name/Signature: A.P. SATTELBERGER / AP Sattelberg

Title: DEPUTY LAB DIRECTOR

Place: ARGONNE NATIONAL LAB

Date: 4/23/2015

For: Global Frontier R&D Center for Hybrid  
Interface Materials  
Pusan National University

Name/Signature: KWANG HO KIM Kwangho Kim

Title: Director, Professor

Place: Argonne

Date: April 23th, 2015