

**Memorandum of Understanding**  
**between**  
**The Regents of the University of California, as Management and Operating Contractor for**  
**Lawrence Berkeley National Laboratory**  
**and**  
**Dexerials Corporation (Japan)**  
  
**Concerning Collaborations in the Field of Solar Heat Gain Control Technologies for**  
**Buildings**

This Memorandum of Understanding (MOU) is between The Regents of the University of California (The Regents), in its capacity as manager and operator of the Lawrence Berkeley National Laboratory (LBNL), Energy Technologies Area, One Cyclotron Road, Mailstop 90R3036, Berkeley, CA 94720, and Dexerials Corporation headquartered at Gate City Osaki, East Tower 8F, 1-11-2 Osaki, Shinagawa-ku, Tokyo 141-0032, Japan (<http://www.dexerials.jp/en/>).

LBNL is a U.S. Department of Energy (DOE) National Laboratory managed and operated by The Regents pursuant to Contract No. DE-AC02-05CH11231 (Contract 31). Dexerials Corporation is a Japanese chemicals company.

The Regents and Dexerials Corporation are collectively herein referred to as the "Participants" or individually as a "Participant."

**1. Objective**

The Participants intend to explore potential future collaboration in the field of solar heat gain control technologies for buildings.

**2. Proposed Areas of Collaboration**

The Participants intend to collaborate in the following area:

- Solar heat gain control technologies for buildings, including the advancement of directionally reflective materials infrastructure (building codes, rating programs, etc.)

The scope of the above activities and cooperation may be changed or extended to other areas by mutual written consent of the Participants.

### **3. Proposed Forms of Collaboration**

The Participants expect to collaborate through mutual visits, the exchange of publicly-available information, exchanges of researchers and experts, training, and planning for potential future joint research, with any future collaborative research to be undertaken only pursuant to an appropriate written agreement therefor.

### **4. Proposed Mechanisms of Collaboration**

- A. To administer the implementation of this MOU, each Participant should designate one principal coordinator in charge of the collaboration, through whom all requests and plans of that Participant should be made.
- B. The principal coordinators may hold meetings when necessary to discuss matters related to collaboration under this MOU.
- C. The principal coordinator for The Regents is Dr. Ronnen Levinson, Staff Scientist in the Building Technology and Urban Systems Division. The principal coordinator for Dexerials Corporation is Hiroko Furumi, Senior Manager.
- D. If a Participant changes its designated principal, the Participant should provide written notice to the other Participant.

### **5. Commencement, Modification and Discontinuation**

- A. Cooperative activities under this MOU may commence upon signature by the Participants and continue for a one (1) year period, unless discontinued in accordance with Paragraph B. of this Section, or extended in accordance with Paragraph C. of this Section.
- B. The Participants may discontinue this MOU at any time by mutual written consent. Alternatively, a Participant that wishes to discontinue its participation in this MOU should endeavor to provide at least thirty (30) days prior written notice to the other Participant.
- C. This MOU may be modified or extended for additional periods by mutual written consent of the Participants.

### **6. Exchange of Information**

The Participants do not anticipate the exchange of business-confidential information or the creation of intellectual property. If the Participants determine that a particular activity may lead to the exchange of business-confidential information or the creation of intellectual property, they should consult with each other and enter into an appropriate written agreement therefor.

### **7. General Terms**

- A. Each Participant should conduct the activities contemplated by this MOU in accordance with all applicable laws, regulations and other requirements to which it is subject, including, by way of illustration and not by way of limitation: export control laws; environmental, health and safety laws and regulations; and international agreements to which its Government is party.

- B. This MOU does not create any legally binding obligations between the Participants.
- C. The conduct of cooperative activities contemplated by this MOU is subject to the availability of funding, personnel, and other resources.
- D. Each Participant is to be responsible for the costs it incurs in participating in cooperative activities under this MOU.

Signed in duplicate.

FOR THE REGENTS OF THE  
UNIVERSITY OF CALIFORNIA:

By: Michael Witherell  
Name: Michael Witherell  
Title: Director, Lawrence Berkeley  
National Laboratory  
Date: 6/15/2017  
Place: Berkeley, CA USA

FOR DEXERIALS CORPORATION:

By: Hiroko Furumi  
Name: Hiroko Furumi  
Title: Senior Manager  
Date: June 30, 2017  
Place: Osaka, Tokyo, Japan