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carboncycle2.0

The Global Solar + Initiative (GS+I) at the University of Tokyo

Prof. Katsushi Fujii

Prof. Masakazu Sugiyama

Prof. Behgol Bagheri

University of Tokyo

When

Wednesday, July 27, 11 Am – 12 Pm

Where

Perseverance Hall, Room 54-130 (Cafeteria Building)

The Joint Center for Artificial Photosynthesis (JCAP) and Carbon Cycle 2.0 are honored to host Profs. Fujii, Sugiyama, and Bagheri from the University of Tokyo. They will be describing the university's new Global Solar + Initiative (GS+I). Started in November 2010, GS+I is addressing challenges in shifting to a sustainable global energy system which suppresses the emission of greenhouse gases. GS+I will perform research in elemental technology, system studies, social systems, and operation tests that are necessary for tera and gigawatt scale energy production and transportation to major consumption areas.

Three GS+I projects will be described:

- Photoelectrochemical Reactions for Energy Storage: Water Splitting to Generate Hydrogen with Nitride Semiconductors (Fujii)
- III-V nano-epitaxial layers for multi-junction and third-generation high-efficiency solar cells (Sugiyama)
- High power solar pumped laser as a magnesium energy cycle driver (Bagheri)

JCAP

JOINT CENTER FOR ARTIFICIAL PHOTOSYNTHESIS

Hosted by Joel Ager, JCAP and Materials Sciences Division