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Hydrogen Program

2010 Annual Merit Review and Peer Evaluation Report

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December 2010

About the Cover

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Portable fuel-cell-powered charger. Photo courtesy of MTI Micro Fuel Cells (NREL PIX 17982.)

Weblane manufacturing of fuel cell membranes. Photo courtesy of BASF Fuel Cell, Inc. (NREL PIX 17983.)

Pore network model of microporous and gas diffusion layers (MPL/GDL) of a fuel cell anode/cathode. Image courtesy of Sandia National Laboratories.

DF-STEM image of platinum-gold fuel cell catalysts. Image courtesy of Oak Ridge National Laboratory.

STEM image of platinum on carbon supports. Image courtesy of Oak Ridge National Laboratory.

New ab-initio modeling of the semiconductor/liquid interface for photoelectrochemical solar water-splitting. Image courtesy of Lawrence Livermore National Laboratories.

Thermal model during charging of a section of a hydrogen storage bed using a metallic honeycomb structure. Image courtesy of Savannah River National Laboratory.

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Back-up power from fuel cells. Photo courtesy of ReliOn (NREL PIX 17984).

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