

Subject: Workshop on Hydrogen Storage

As you know our CSP White Paper entitled "Vehicular Hydrogen Storage in Decorated or Doped Carbon Single-Wall Nanotubes" was selected for a full proposal. We are planning to host a workshop at NREL on Monday April 26 to discuss the contents of the final 6-8 page proposal.

The original effort was to include Dave Geohegan and Steve Pennycook at ORNL, Stanislaus Wong at BNL / Stony Brook, Alex Zettl at U. C. Berkeley and myself, Mike Heben and Shengbai Zhang at NREL.

In response to your comments, we have also invited Tom Vogt at BNL and Ragaiy Zidan at SRS to participate in the workshop and proposed effort.

Please let me know if any of you are available to come to our workshop, and I will update you as to the itinerary and nearby hotels etc.

Thank you for considering our white paper.

Sincerely,

Anne

anne_dillon@nrel.gov

Workshop Agenda

A proposed project for the DOE Center of Excellence for the Synthesis and Processing of Advanced Materials (CSP):

Hydrogen Storage in Decorated or Doped Carbon Nanotube Materials

10:00 a.m. Welcome and Overview

Previous proposal, reviewers comments, criteria-Anne Dillon, NREL

10:20 a.m. New Mechanistic Results

Unanticipated H₂ storage on MWNTs with Fe catalyst particles, experimental characterization, theory, motivation for a center effort-Jeff Blackburn, NREL

10:40 a.m. Synthesis / Characterization

Synthesis of carbon nanohorns and highly curved, short carbon nanotubes, Atomic Resolution TEM and EELs-Dave Geohegan, ORNL

11:00 a.m. Complex Metal Hydrides

Possibility for use as catalysts in carbon-based systems, formation of organo-metallic complexes -Ragaiy Zidan, SRTC

11:20 a.m. Functionalized Nanotubes

Incorporation of metal atoms to functionalized nanotubes, employing nanotubes as ligands-Stan Wong, Stony Brook University / BNL

11:40 a.m. B_xC_yN_z Carbon Nanotubes

Doped carbon nanotubes, alloy B_xC_yN_z carbon nanotubes, filled B_xC_yN_z carbon nanotubes -Alex Zettl, U.C. Berkeley

Workshop Agenda (cont.)

12:00 p.m. Possible New Additions

Relevant elements of a concurrently submitted proposal-Tom Vogt, BNL

12:20 p.m. Working Lunch

Discussion of most important issues and the most effective means of collaboration for a highly successful outcome of the CSP

1:30 p.m. Discussion

Addressing reviewers comments
Core themes and projects
Program management and administration

2:30 p.m. Proposal

Formulate proposal outline
Assignment of input tasks

3:30 p.m. Adjournment

Future interactions, brief summary