



# **Breakout Session II**

## **Group D**

**Wednesday, October 21, 2009**

# Given the results of the first break-out sessions, what is the most promising approach to the development of an efficient, robust system capable of the production of direct-solar fuels, i.e. of harvesting photons and producing infrastructure-compatible high energy density liquid fuels in a single reactor?

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Shouldn't choose a technology winner; identify a number of routes

- Biological routes; reduce metabolic load, introduce novel pathways; metabolic regulation
- Non-biological; semiconductor technology w/ catalysis
- Possibility of hybrid systems; biological/artificial/catalysis
- There's value in bringing technologies together; biologists, chemE, engineers, etc; a project that focuses on hybrid rather than a race between technologies
- Need standards for comparison of technologies
- Need to define timelines and TRL levels