

An Integrated System Approach to Energy and Sustainability

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Abstract

Access to clean energy and water in nations and communities worldwide who aim to achieve sustainable development is among the top challenges of this century. In addition, the global interest in renewable energy technologies has peaked over the past few years due to escalating energy prices and mounting public concern over the environment. Another emerging challenge is the continued dependence on foreign sources of energy which causes a threat to national energy security.

In this presentation, the role that renewable energy technology will play to help resolve these critical issues will be discussed.

The discussion will provide an overview of several energy technologies that will be pivotal in a clean energy future including:

- Wind
- Solar Photovoltaic
- Lithium-ion Battery
- Fuel Cells
- Hydrogen Production and Storage

It will be shown how these technologies can be effectively integrated to create reliable, clean hybrid energy systems and why they are crucial to the development of the hydrogen economy. These technologies and novel strategies will ultimately usurp conventional energy production and distribution methods transforming our energy infrastructure and lead us to a sustainable energy future.

Biography

Said Al-Hallaj is the Chairman/CEO and co-founder of All Cell Technologies LLC, and a visiting professor at the Department of Chemical Engineering at the University of Illinois at Chicago (UIC). Prior to All Cell, Said was a Research Professor of Chemical Engineering and Coordinator for Renewable Energy Programs at the Illinois Institute of Technology (IIT). Professor Al-Hallaj earned his B.Sc and M.Sc in Chemical Engineering from Jordan University of Science and Technology and a Ph.D in Chemical Engineering from IIT. He has published over 30 technical peer reviewed journals and over 25 conference papers. Said is a the co-author of four issued patents and several patent applications in the area of energy storage and conversion with emphasis on renewable energy, hydrogen, batteries and fuel cells for stationary and transportation applications. Said's efforts have led to the formation of two start-up companies at IIT: All Cell Technologies, to commercialize lithium-ion batteries for portable and transportation applications, and Sun Phocus Technologies, to commercialize a hologram planar concentrator (HPC) technology in the building integrated photovoltaic (BIPV) market.

Location:

La Mirage
3223 Algonquin Rd.
Rolling Meadows, IL 60008
Phone: (847) 222-1222

Tentative Schedule:

4:30-5:30 pm Executive Committee Meeting
5:30-6:30 pm Hospitality Hour
6:00-6:30 pm How to Network
6:30-7:30 pm Dinner Followed by Presentation

Directions:

Please visit La Mirage's website:

<http://www.lamiragechicago.com/Location.html>

***** RSVP by Friday, Dec. 4th, 2009 *****

Pre-registration by Friday prior to meeting: \$25. Registration at door: \$35

Pre-registration for Students: Free. Registration at door for Students: \$5

To make your reservation, please go to <http://www.chicagoasm.org/>