



Silicon Valley Technical Institute

1762 Technology Drive

San Jose, CA

Tel: 408-573-0100

Email: info@svtii.com

www.svtii.com

FUEL CELL TECHNOLOGIES AND BUSINESS OPPORTUNITIES

May 29, 2008

9am-4pm

Description:

Fuel cells are a promising emerging technology that may eventually deliver electrical power to a broad spectrum of applications across the economy. Attention on fuel cells is increasing as the range of potential commercial applications expands. However, there is often confusion regarding the disparate types of fuel cells, their advantages and disadvantages, and the time needed for commercialization. Understanding of many of these issues can only be realized by a broad understanding of the technology itself. This short course covers both basic and applied aspects of fuel cell technology through integrated lecture and laboratory sessions. This course is suitable for scientists and engineers working in or entering the fuel cell industry; employees of industries that have recently invested or plan to invest in fuel cell technology, and science and engineering graduate students desiring an understanding of fuel cell technology. The course is structured to ensure that no prior knowledge of electro-chemistry or fuel cell technology is required for participation. The interactive relationships between materials selection and fabrication, and cell, stack and system design will be highlighted, with the aim of providing those attending with an appreciation of the current technologies and the potential for development and commercial realization. A list of topics presented in the seminars is as follows:

- *Review of the various types of fuel cells*
- *Thermodynamics of fuel cells*
- *Electro-chemistry fundamentals and electrode kinetics*
- *Transport phenomena in fuel cells*
- *Fuel cell components, cell fabrication and single cell testing*
- *Diagnostic methods and performance evaluation*
- *Data analysis*
- *Energy Storage*
- *Economic Analysis*

Schedule

Check-in: 8:30 am –9:00 am

Lecture: 9:00 am - 4.00 pm

Lunch: noon-1:00 pm

Tuition

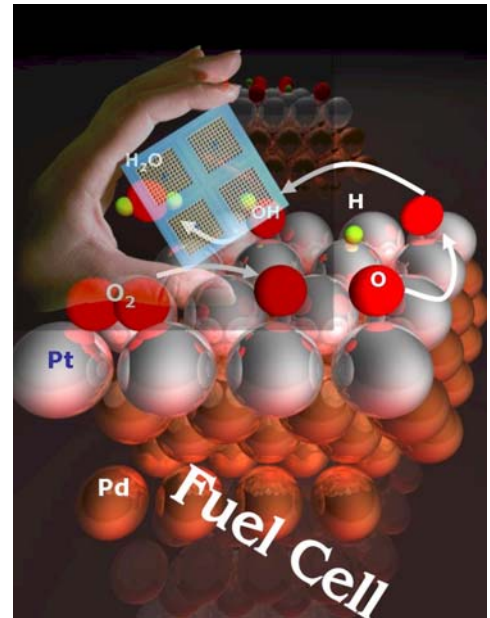
Fee for the seminar is **\$450**. Please call for the available group discount and on-site training. The fee includes:

- One day of instruction
- Seminar notes
- Certificate

Lunch and refreshments will be provided at no extra cost

Location

1762 Technology Drive, Suite 227, San Jose, CA



About the Instructor:

Dr. Karuppaiah has over 15 years experience in Fuel Cells and Electrochemical Science and Engineering. He is the founding director of EC Labs, a consulting firm focusing on energy conversion and storage devices, electrochemistry and electrochemical engineering. He also holds consulting positions at several green tech companies in Silicon Valley. Prior to his recent position, he was at Case Western Reserve University as a Research Faculty, where he focused on the science of reliability and durability of PEM Fuel Cells. Prior to that, he was the Senior Scientist and Manager of the Fundamentals Team at Plug Power.

Seating is limited.
Please register in advance.
Register on line at
<http://www.svtii.com> or
Call: 408-573-0100