



Silicon Valley Technical Institute

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Fuel Cells Technology & Manufacturing toward Clean-Energy Applications

Aug. 10, 2007

9am-4pm

Fuel cells are regarded as one of the key elements for the future energy economy that will be based in many parts of the world on a concept called solar-hydrogen cycle. This proposed renewable energy infrastructure includes electricity production from solar energy, hydrogen production from the electrolysis of water, hydrogen storage and distribution, and finally utilization of hydrogen in fuel cells at the time of demand. The course will give the audience a concise introduction into sometimes mysterious electrochemical science behind the fuel cell principle, it will cover aspects of fuel cell efficiency and causes of voltage losses, it will provide great clarity and insights into different types of fuel cells and related applications such as automotive, stationary and portable; to finally concentrate on the practical technological aspects of fuel cell manufacturing process in a step-by-step fuel cell assembly virtual tutorial.

The seminar covers:

- **Concept of solar-hydrogen cycle.**
- **General electrochemical and fuel cell principles**
- **Fuel cell efficiency and causes of voltage losses**
- **Fuel cell components and their impact on performance**
- **Fuel cell classification and application areas**
- **Practical methods of fuel cell assembly**
- **Current economic and social drivers**
- **Commercialization timeline**

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 **\$370**. Group discount is available for groups of 3 or larger. The registration fee includes:

- One day of instruction
- Seminar notes
- Certificate

Lunch and refreshments are included

Location

1762 Technology Drive, Suite 227, San Jose, CA



About the Instructor:

Dr. Slobodan Petrovic is an associate professor at the Arizona State University. Prior to joining ASU he held appointments at Clear Edge Power (formerly Quantum Leap Technology) as a Vice President of Engineering; at Neah Power Systems as Director of Systems Integration; and Motorola, Inc. as a Fuel Cell Group Manager and Reliability Manager. Dr. Petrovic has over 20 years of experience in energy systems; fuel cells and batteries; industrial electrochemical processes; catalysis and sensors. He has over 50 journal publications and conference proceedings; 2 book contributions and 24 pending or issued patents.

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