



IEEE UK&RI Event



Seminar on 'Power Electronics in Demanding Applications'

Plus

Visit to Vehicle Laboratories at Defence Academy UK

Location: Whitworth Conference Centre, Defence Academy UK, Shrivenham, Wilts, SN6 8LA.

Date/Time: 2 - 5 pm, Tuesday 28th November 2006.

Seminar:

1. **'Opportunities and Challenges for Power Electronics'** - Dr Patrick Chi-Kwong Luk, Cranfield University- Defence Academy UK.
Patrick will use several on-going research projects, including linear work control for SR motors, dual-randomized PWM, and high frequency AC powered motor drives, to demonstrate the challenges and opportunities for power electronics.
2. **'Very Long Endurance UAVs'** - Dr Ben Palethorpe, Strategic Research Centre, Rolls Royce.
Ben will give an overview of his work on a very long endurance, high altitude UAV, and link this to power electronics research at Rolls Royce.
3. **Presentation by Paul Adcock**, Head of R&D, Intelligent Energy Ltd.
(Title and content to be confirmed)
4. **'Power and Energy Management for Electric vehicles'** - Leon Rosario, Cranfield University- Defence Academy UK.
Leon will outline his work on the power/energy management of an all-electric vehicle powered by a dual supercapacitor-battery source, and discuss the demands for power electronics in implementing the power/energy management policy.

Visit:

This is a rare opportunity for outsiders to visit the Vehicle Dynamics Lab and the Armored Fighting Vehicle Wing, on the site of Defence Academy UK. The visit will follow the seminar, and will start at about 3:45pm. Spaces are limited, but we hope to accommodate if you register early.

Registration:

To register, please send an email to Dr Patrick Luk (p.c.k.luk@cranfield.ac.uk), providing your name, affiliation, and email address. Please register early.

The event is free for IEEE members and non-members. Slight refreshment will be provided.

