

## Continuing Education

### HV INSULATION CO-ORDINATION AND EARTHING

The purpose of this specialist course, hosted by the Department of Electrical and Electronic Engineering at Stellenbosch University, is to equip power system engineers, employed by power utilities, municipalities and consulting engineering firms, with the necessary skills to design earthing systems for HV power systems. Both transmission and distribution voltage levels will be dealt with. The over-voltage sources will be analysed in depth, including power frequency, switching and lightning over-voltages. The application of over-voltage protection devices will be illustrated by way of case studies during tutorials. The effect of pollution on the design of external insulation systems is also treated in depth. Application of new materials and the latest design criteria will be discussed. A considerable part of the course will be presented in the HV lab and frequent demonstrations and experimental investigations will be performed.

Date: 20-23 June 2006

Contact Hannelie van Wyk on (021) 808 4979 or [hvanwyk@sun.ac.za](mailto:hvanwyk@sun.ac.za)

### MATLAB TRAINING

- 1 June - Advanced Stateflow Modelling Techniques - 1 day
- 6-7 June - Simulink for Dynamic System Modelling - 2 days
- 27-28 June - MATLAB Fundamentals and Programming Techniques - 2 days
- 29 June - MATLAB for Building Graphical User Interfaces - 1 day
- 4-5 July - Introduction to Programming using MATLAB - 2 days

On-site training for larger groups can be arranged. Contact Carlette on (011) 325 6238 or [training@optinum.co.za](mailto:training@optinum.co.za) for bookings and enquiries.

### RISK-BASED LABORATORY SAFETY

The objective of this course is to provide the learners with an informative working knowledge of qualitative risk assessment. It will equip the learners to identify

hazards in a laboratory and will provide an understanding of inherent risks associated with a laboratory. Ideal for health and safety practitioners or line managers responsible for ensuring a laboratory is maintained in a safe state.

Contact Claudette Ortell on (011) 907 0336/7 or [cortell@inveritas.co.za](mailto:cortell@inveritas.co.za)

### PRACTICAL HV DISTRIBUTION CABLE TECHNOLOGY

This short course will be presented at the Department of Electrical and Electronic Engineering at Stellenbosch University. The purpose of the course is to equip power system engineers, technologists and technicians employed by power utilities, municipalities and consulting engineering firms with the necessary background on MV cables. The course will be on an informal practical level with frequent references to real problems encountered in the field, although some theoretical principles will be included. Practical demonstrations will be presented in the HV laboratory.

Date: 18-19 July 2006

Contact Hannelie van Wyk on (021) 808 4979 or [hvanwyk@sun.ac.za](mailto:hvanwyk@sun.ac.za)

### CERTIFIED ENERGY MANAGER COURSE

The SAE, in conjunction with the AEE in the USA, locally presents a five-day comprehensive energy management training course. This course forms part of the certified energy management (CEM) programme that is presented in South Africa.

This in-depth course is ideal for professionals who seek a more detailed programme of instruction covering the technical, economic and regulatory aspects of effective energy management. It offers a comprehensive learning and problem-solving forum for those who want a broader understanding of the latest energy cost reduction techniques and strategies. The course covers topics like conducting energy audits, energy audit instrumentation, energy codes and standards, building energy use and performance, energy accounting, energy and electric rate structures, waste heat recovery, lighting, motors and drives, HVAC systems,

boilers and steam generation, maintenance, etc.  
Date: 26 May to 2 June 2006

Venue: Emperors Palace, Gauteng  
Contact Christina den Heijer on 082 334 0923 or [cemanager1@intekom.co.za](mailto:cemanager1@intekom.co.za)

### PRACTICAL PROCESS CONTROL COURSES

Michael Brown is holding a series of his well-known courses on practical process control in Durban and Johannesburg starting on 19 June and 21 July 2006 respectively.

The one-day 'Introduction and appreciation of practical process control' for non-instrument persons working in process plants, without previous experience on practical training in control, like process engineers, operators, production managers, metallurgists and chemical engineers will only be presented in Johannesburg. Practical process control Part 1 and 2 will be held in Durban and Johannesburg. It is mandatory that Part 1 be completed before Part 2. Most persons taking Part 1 also take Part 2 in the same session.

Part 1 covers trouble shooting and loop tuning over 3 days. Part 2 covers control techniques for more difficult processes over 2 days. Part 2 deals with control of processes with difficult dynamics and techniques like feedforward.

Contact Michael Brown on (011) 486 0567 or [michael.brown@pixie.co.za](mailto:michael.brown@pixie.co.za)

### BUILDING ENERGY AUDIT TRAINING (BEAT) COURSE

The BEAT course aims to develop the skills and knowledge required of individuals to conduct energy audits in government and other commercial buildings and the Supervising Engineer's Course aims to develop the skills and knowledge required of engineers who will manage and monitor the audit programme.

Date: 30 May - 2 June 2006 and 17-20 October 2006

Venue: Emperors Palace, Gauteng  
Contact Christina den Heijer on 082 334 0923 or [cemanager1@intekom.co.za](mailto:cemanager1@intekom.co.za)

## New Premises

### IRITRON HAS A NEW ADDRESS

Iritron has moved to Unit 5B Persequor Close, 49 Generaal Van Reyneveld Street, Persequor Techno Park, Meiring Naude Road, Lynnwood, Pretoria.  
Tel: (012) 349 2919  
Fax: (012) 349 1609

## Training venue

### TRAINING ACADEMY FOR HIRE

Training Academy for hire in the Modderfontein area. Ideal for sales or technical seminars. This modern facility caters for up to 40 people. Contact Barbara or Judi on (011) 201 3200

## Conferences and Exhibitions

### SAFETY CONTROL SYSTEMS

Focusing on the technology and application of safety-related control and instrumentation systems in the chemical, energy, mining and manufacturing industries. Examining the complex and challenging issues of using control systems technology to maintain and improve the safety of people and plant whilst ensuring profitability.

The conference will be approached in an interactive way with case studies, interactive discussions, active learning, no trade show focus, interactive interviews with all presenters, dialogue and no one-way presentations, etc.

Venue: The Conference Park, Midrand

Date: 27-29 June 2006

Contact Shellie Dodds at [shellie@idc-online.com](mailto:shellie@idc-online.com) or the toll free no 0800 114 160

### SA ENERGY EFFICIENCY

#### CONVENTION 2006

The first Southern African Energy Efficiency Convention (SAEEC) is scheduled to be held this year.

Date: 19-20 October 2006

Venue: Emperors Palace, Gauteng  
Contact Nikki Nel on (018) 293 1499 or [nikki@sae.org.za](mailto:nikki@sae.org.za)

### ELECTRA MINING AFRICA

Electrical, instrumentation and mechanical products and services, mining, industrial engineering, materials handling, machine tools, construction, etc.

Date: 11-16 September 2006

Contact John Kaplan on (011) 835 1565 or [kappie@specialised.com](mailto:kappie@specialised.com)

### INDUSTRIAL AND COMMERCIAL USE OF ENERGY CONFERENCE

ICUE will provide cutting-edge real world solutions to reduce energy related costs and improve overall performance in industrial plants, commercial, institutional and government facilities, with a full line-up of intensive seminars on a variety of current topics. Participants will learn about the latest regulatory and market trends, which impact their decisions, and hear firsthand reports on successful projects and technology applications. They will explore the complete spectrum of resources now offered by energy service providers to help reduce energy costs, analyse energy data, develop DSM strategies, upgrade equipment, electricity tariffs, obtain project financing and more.

Date: 22-24 May 2006

Contact Sherna Williams or Nickey Amsterdam on (021) 460 3658 or [icue@ctech.ac.za](mailto:icue@ctech.ac.za)