

Using the ECSA Electronic System for Entering B CPD Records

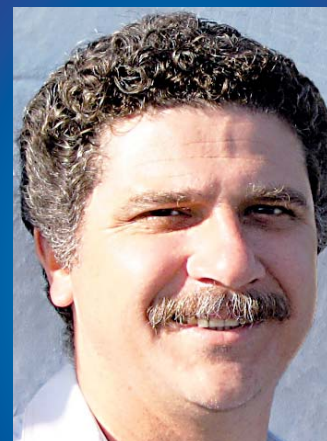


Notes:

- (a) The CPD Website is only compatible with Internet Explorer – you will not be able to access it with any other browser.
- (b) The first time you access the website, you will have to set the compatibility view settings. Click on the [Tools: Compatibility View Settings] a pop up box will appear – add the ECSA CPD website. The procedure is explained on the CPD website.

Procedure:

1. Access ECSA web at www.ecsa.co.za
2. On the left hand side panel, Select [CPD : CPD WEBSITE [MAIN]]
3. Enter your Registration No, your ID No and then press enter
4. The screen is very full. Your name and registration number will be displayed as well as your original registration date and your CPD cycle.
5. Only Category 1 Activities need to be validated – the rest rely on your integrity and code of conduct.
6. Above Category 1 on the screen see the green block, click [C]. This brings up a pop up table with the CPD periods. Select the period you want, i.e.2012
7. Select "Click to list records below"
8. A new screen appears that lists your Development Activities for that period or is blank if none have been entered.
9. The Blue box is the Search facility. You can search on Activity name, Activity number or the Provider. If you type SAIEE in the blue box under activity and click on (click), all SAIEE Validated Activities will be listed. Similarly you can list validated activities for other Voluntary Associations, Tertiary providers and ECSA (only for ECSA activities and overseas activities). To view local activities enter SAIEE KZN in the search box.
10. A search result pop-up will appear. Click on the required validation number on the LHS of the pop-up box, and the activity will be automatically entered into your record page.
11. Select period in very right hand column. By clicking on [c] a pop up table will appear to assist you. Select the period you want for the record.
12. Save the record by clicking on the box "Click here to Save/Enter each record" Note that there is also a box to clear the screen or to delete a record if you have made an error and wish to correct it.
13. Repeat the above for each record you want to enter.
14. Similarly Overseas Activities validated by ECSA will be listed by typing ECSA in the blue box.
15. Category 2 Activities are entered by typing in the details in the designated rows. Pop up pages again are available to assist with dates and the period.
16. Again the record needs to be saved as described in 12.
17. Under Category 3 one can claim 1 CPD credit for being a member of a voluntary association. By clicking on "Click" next to the blue box under "Name of Voluntary Association" a list of the recognised voluntary association will appear in the blue box. Click on the one required and it will be selected. Enter the rest of the information required, your membership grade, your membership number, and the period. Then save as above.
18. Category 3 Activities are entered in a similar way by typing the necessary information.
19. Please note that one needs to repeat the above procedure for each period.



Mr Vincent Tiedt is the author of this guide.
He is a SAIEE KZN Centre Committee Member and in charge of the Membership and Professional Development Portfolio.

PRESENTATION: Springfield Training Centre

"3D Modelling, Segmentation, Quantification and Visualization of Cardiac MRI"

by Yarish Brijmoham

15th AUGUST, 2013 at 17h30

KZN SAIEE Centre newsletter

THIS IS YOUR NEWSLETTER and we invite you to make suggestions and submit items of interest and photographs.

Advertising is welcomed and we are considering a "vacancy" column.

For adverting opportunities contact Gill Nortier at saiee@iafrica.com

Vincent Tiedt Profile



VINCENT has been involved in Electrical Engineering for 28 years, consulting for 22 of those years. The last 16 years have been in senior engineering management posts. For 5 years he has managed his own Electrical Engineering Practice in Durban, and is ever ready to encourage and help other consulting engineers.

He chose electrical engineering as a career, enrolling at a technical high school. Later as an apprentice and then as an artisan he discovered that he preferred the research, development and design that goes into developing electrical infrastructure, so he left to further his academic studies at UKZN and DUT, but appreciated that the years spent on the workshop floor would prove invaluable.

During the RPD process he was first a clerk of works for several eThekweni Electricity electrification projects on KZN's south coast and then as Resident Engineer for DLV consulting engineers, where he managed several ESKOM electrification sites, providing electricity to just over 30 000 homes and 150 rural schools.

He then joined Infracom and then TFMC where he was KZN regional head of the Electrical and Electronic Design Department concentrating mainly on the provision of communication infrastructure in and around KZN and the Eastern Cape for Telkom, Vodacom and Cell-C. He managed his own projects as well as co-ordinating the workflow and design work of a team of electrical engineers involved in high profile data centres, with precise electrical requirements and stringent earthing and lightning protection requirements on all of Telkom's Microwave towers.

His true passion is for all things marine, having spent 12 years as skipper of the NSRI deep sea rescue vessel "Urban Campbell" in Durban. you will also often find him sailing with his family. He is a certified commercial deep-sea charter fishing skipper, and is currently putting the finishing touches to his ocean cruising yacht "Excalibur" in which he hopes to one day circumnavigate the globe. He has completed several Midmar Miles and the Dusi canoe marathon.

Vincent holds the portfolio of membership and professional development.



SAIEE 2013 Proposed Programme KZN CENTRE

Date	Presentation / Tutorial / Visit
August	
15/08/13	Presentation: 3D modeling, segmentation, quantification and visualization of cardiac MRI by Yarish Brijmoham
September	
? /09/13	2013 Bernard Price Memorial Lecture - Durban Presentation: *date & title to be confirmed
? /09/13	2013 Bernard Price Memorial Lecture – Pietermaritzburg Presentation: *date & title to be confirmed
October	
17/10/13	Presentation: Introduction to Fibre Optic Communication by Subhash Jagannath
? /10/13	CPD Course: *date & title to be confirmed
November	
? /11/13	CPD Course: *date & title to be confirmed
21/11/13	Breakfast Presentation: *title to be confirmed

Understanding SMARTGRID and MicroGrid

SMART GRID is the emerging electrical power system whereby the INFORMATION TECHNOLOGY of the 21st century is being integrated with the established 20th century CONVENTIONAL POWER GRID.

Electrical engineering's "light current" is merging with its natural partner, "heavy current". A revolution is occurring in the way we develop, generate, transmit, distribute and consume electrical energy. It will impact on all of us and change the way we live, learn, work and play. Smart Grid Engineering is empowering, creative and learning. Smart Grid invites one and all to engineer simple solutions.

Supply Side Impact

- * Open and Larger Menu of Resource Choices for the Production and Generation of Electrical Energy
- * Higher Efficiency and Flexible Control of Technologies for Electricity Transmission and Distribution

Demand Side Impact

- * Greater Customer Choice of Energy Supplier and Energy Resources
- * Higher Efficiency and Greater Flexibility in the Control and Management of Electrical Energy Consumption

Change is good. The power system change is being driven by the key driver of "using less to achieve more"; defined formally as maximizing the efficiency of converting input resources to work outputs. In the long run, we will realise lower costs, greater affordability and open access to all. Smart Grids will deliver a longer term sustainability of our energy needs and requirements without the impact on the environment.

Micro Grids is an integral part of Smart Grids whereby individual and collective communities can customise their own production and generation of electrical energy, transport and deliver the produced energy for their own application and export the

Continued overleaf

SYNOPSIS OF CHAIRMAN'S INVITATIONAL LECTURE BY DEAN GRIFFIN:

"What's all this Hype about a Standard in Asset Management ...

Synopsis

The soon to be released International Standard on Asset Management, ISO 55000 will definitely have some implications to South African Industry in both the Public and Private Sectors.

This presentation looked at the development of the standard and its original intent.

It reviewed the integration with other management systems before moving on to look at the possible future implications.

Speaker Profile – Dean Griffin:

Dean leads and guides a team of highly motivated and very capable consultants on International contracts addressing organisational asset management issues and challenges.

He is the South African lead on the International technical committee TC 251 developing the ISO 55000 standard for Asset Management.

His experience covers a wide range of industries and geographies. He has worked in South Africa, Botswana, Namibia, UK, Belgium, Ireland, Sweden, Italy, Switzerland, Germany, Austria, Indonesia, Brazil and China.

Dean has experience of the following Industries. Power Generation, Power Transmission and Power Distribution, FMCG, Sugar Refining, Mining, Pharmaceutical, Public Sector, Government, Facilities Management, Petro Chemical retail, Manufacturing and Dairy.



Members and visitors included Dr James Whitehead and Howard Whitehead (SAIEE KZN Centre Past Chairman)



Chris Ramble (SAIEE KZN Centre Past Chairman), Janet Gillespie (SAIEE KZN Centre Past Chairman)



Howard Whitehead (SAIEE KZN Centre Past Chairman), Dean Griffin (Presenter), Dr James Whitehead and Raj Dhrochand

Understanding SMART GRID and Micro Grid

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surplus. The surplus energy is sold to the common Smart Grid for onward delivery to other individual and collective communities. Micro Grid is emerging as the way forward to increase the penetration of renewable energy resources for direct and immediate application and consumption. This strategy will also increase the menu of choice in selecting renewable energy resources such as solar, wind, waste to energy and bio fuels.

The University of California is promoting a MicroGrid development at its San Diego campus; in association with San Diego Gas and Electric Company. "University Cam-



Pat Naidoo is the author of this article. He is SAIEE Deputy President and SAIEE KZN Centre Committee Member.

pus offer a perfect setting in which to establish a micro grid and maximize its operational benefits. The university setting also offers a unique collection of intellectual resources. In addition to improving operational efficiencies, lowering operational costs, and reducing the campuses overall carbon footprint, a university micro grid is an ideal laboratory in which to conduct research to advance modern power system operation and integration of distributed renewable generation for the power delivery infrastructure as a whole. It also provides opportunities for new graduate student research and learning."^[1]

These collective Smart and Micro Grid research efforts on connection to the con-

ventional grid, on islanding capabilities from the conventional grid and on the load connection and energy management will lead towards an acceptable and resilient electrical power system having a greater dependence on natural, renewable energy resources. The micro grid is positioned to enhance and promote the maximum employment of renewable energy for both individual and community application. This technology, when developed and demonstrated will lead to large scale creation of new and quality jobs for utilities, for original equipment manufacturers and for the customers.

An exciting future awaits all electrical engineers.

Reference

1. Washom, B. et al; "Ivory Tower of Power", IEEE Power and Energy Magazine, Volume 11, Number 4, July/August 2013, USA.



INDUSTRIAL CIRCUIT BREAKERS & MOTOR CONTROLS



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