

ICON Technologies News Release



ICON technologies

Ph: +61 8 9470 4275 • Fax: +61 8 9470 4323 • icon@icon-tech.com.au • www.icon-tech.com.au

ICON Technologies Chases Win at 2013 PACE Zenith Awards!

ICON Technologies had a rewarding night at the Process & Control Engineering magazine 2013 PACE Zenith Awards ceremony on 13 June 2013. These awards recognize leadership, technical excellence, and innovation in the areas of instrumentation engineering and control, and automation systems development. Systems developed by ICON Technologies were finalists in four categories, with one voted overall winner in its category by the judging panel.

The 2013 Zenith Awards ceremony was held at Sydney's Darling Harbour Dockside Centre, with over 230 industry professionals in attendance. The event was anchored by Chris Taylor and Craig Reucassel, of The Chaser and Hamster Wheel fame, who kept everyone thoroughly entertained with their unique take on the world of instrumentation and process control. There was no shortage of comedic material on an evening in which the audience was introduced to the "Mr Floppy" 3D mapping robot helicopter that takes "only" 3 hours to find an agricultural windmill in a field, roughly where to start looking



The photos show Dr Mark Trotman, Managing Director, ICON Technologies Pty Ltd, receiving a 2013 PACE Zenith Award from Mr Kevin Gomez, Editor, PACE Magazine, and with Chris Taylor and Craig Reucassel of The Chaser and Hamster Wheel television shows.

Curtin University GEEP Laboratory Data Management System: Overall Winner in the Power and Energy Management category, and Finalist in the Transport, Power, and Infrastructure category

ICON Technologies engineered a data acquisition and distribution system for the GEEP Laboratory at the Curtin University Department of Electrical and Computer Engineering, a multi-use facility for university and industry researchers, and undergraduate students and teaching staff.

The custom application software, developed in LabVIEW 2011, acquires static and waveform data from ten industry-scale green energy sources at sample rates from 1 to 5,000 samples/s, and combines it with other serial and network data for real-time distribution



to any user-defined subset of ten teaching workstations and four research workstations. The system provides 24/7 authorised access to all real-time and

historical data to researchers, and limited but flexible access for students. Researchers and students at any workstation can access data from any combination of the ten renewable energy sources.

TiRO Pilot-Scale Facility: Finalist in the Automotive and Manufacturing, and in the Mining, Minerals, and Exploration categories

ICON Technologies is currently commissioning a LabVIEW-based monitoring and control system for a new commercial pilot-scale facility for the production of Titanium metal being constructed in Melbourne by Coogee Energy Pty Ltd. The facility is the first commercial scale implementation of the TiRO process for producing titanium metal developed by CSIRO with Coogee Energy as a commercial partner.

The TiRO process uses a continuous-feed fluidized bed reactor to produce a high-grade titanium powder that is well-suited to working with modern powder metallurgy techniques. It is anticipated that this new process will reduce the cost of production to a point that will enable economic penetration of mass-markets such as automotive engineering and biomedical devices.

The application software has been developed using LabVIEW and the LabVIEW DSC Module, to meet the needs of both the process engineering stakeholders who want a reliable and robust 24/7 control system with a commercial SCADA "look-and-feel", and the process research stakeholders who want maximum accessibility and coding flexibility to vary the process on demand.

