

DATE & TIME

Wednesday 22 August 2018
6pm – 8:30pm

VENUE

Hatch @The Barracks
61 Petrie Terrace, Brisbane 4000

ENTRY

Free for IICA Members
\$20.00 for Non Members

REGISTRATION

www.iica.org.au
or email gld@iica.org.au

IICA Contact

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Agenda:

Registration, Networking and drinks
6pm

" A visit to the ESO Very Large Telescope in
Chile, South America "

Presented by **Chris Morley**
Electrical Engineer

Tastes of Chile and beverages

"Instrumentation is the foundation of the
data value chain"

Presented by **Russell Byfield**
Advanced Solutions Manager of Yokogawa Australia

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"A visit to the ESO Very Large Telescope (VLT) in Chile, South America"

ESO's Very Large Telescope facility in Chile has played a pivotal role in many recent discoveries. Just four days after I toured the facility in February 2016, it was announced to the world that seven Earth-sized planets orbiting a cool star (TRAPPIST 1) had been discovered in our neighbourhood. The VLT facility is hailed as the most productive telescope on Earth, with data collected from the telescope contributing to scientific papers being published at an astonishing rate.

As well as general technical information about the facility and the journey to it, the talk explores the workings of the particular scientific instrument that was used in the discovery of the exo-planet solar system, highlights some of the recent discoveries made by the VLT, delves into some of the telescope's control systems, and describes how the capabilities of the telescope are being enhanced to keep it at the forefront of astronomical research.

Chris Morley - Electrical Engineer

Chris Morley is a retired Electrical Engineer who has had a passion for astronomy since early childhood. Acquiring his first telescope in 2005 and soon after, joining the local astronomical society, his celestial interests expanded rapidly. He has visited many observatories, travelled great distances to witness total solar eclipses and is currently undertaking a course in astrophysics at ANU.

Chris built an observatory where he and his wife enjoy showing family and friends the wonders of the night sky, now via a somewhat larger computer-controlled telescope. Chris also enjoys astro-photography and identifying objects of special interest in the sky.

Raising a family and working in the Victorian electricity industry for 40 years didn't give Chris a lot of spare time, but he is now very much enjoying retirement and having more time for travel and furthering astronomical pursuits.

Chris is secretary of the Latrobe Valley Astronomical Society in Gippsland and is involved with astro-education in the local community.



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“Instrumentation is the foundation of the data value chain”

Aggregation and analysis of data, which starts its life at an instrument, is the foundation of business analytics that provides the actionable insights which positively impact safety, environment, operations and profitability. Despite much effort and expense by operating and service companies, the level of success in approaching this problem from either an OT or an IT point of view has been highly variable.

It is becoming apparent across all industries that the best outcomes are achieved by including both IT and OT domains with operational industry expertise within the same team.

Understanding the original source of the data and the reason for collecting that data, usually at the edge, needs to be understood in order to develop the optimal solution for the required business information.

There is a continuum of analytics from high speed analytics at the edge, for such things as assisting regulatory control and real time safety system diagnostics, to data lake analysis in the cloud, for planning, supply chain and business prioritization and optimization.

This presentation discusses a few examples of the best practice approach to turning data into actionable insights starting with smart instrumentation at the foundation of the data value chain.

Russell Byfield - Advanced Solutions Manager of Yokogawa Australia

Russell has over 25 years' international experience in the Petroleum and Process Industries. He has been directly involved in field development, reservoir engineering, process facilities design, commissioning and operations, fabrication and construction and since 2000 has focused on the modelling, analytics and optimization of conventional and unconventional oil and gas development and operations.

Russell has presented many papers over the years. The most recent were at APPEA in May 2018 and the New Zealand Petroleum Conference in March 2018.

Russell has held a variety of regional and international technical, managerial and directorial roles.



Russell has a Chemical Engineering Degree with Honours from Adelaide University, is a Fellow of Engineers Australia, a Chartered Professional Engineer, RPEQ Petroleum and Process Engineer and is the Past Chair of the Queensland Branch of the Society of Petroleum Engineers.

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