Australian Branch
Western Australia Panel

Confidentiality Risks for Engineers:

Institution of MECHANICAL ENGINEERS

5 Tools for Secure Engineering Communications

Dr Terence Love

Thursday, 16 April 2015

Time: 5:30pm for a 6:00pm start
Venue: Auditorium
Engineers Australia
712 Murray Street
West Perth
Cost: Free
RSVP: admin@lovewebservices.com
Notes: Refreshments will be provided

SUMMARY

Edward Snowden's releases about activities of NSA show some of the risks for engineers of the hacking of their professional and personal information and communications.

For engineers, the risks and consequences of failure of confidentiality are much higher than for the public. For example:

- Engineering information is useful for terrorists, hostile nations, industry competitors, activist organisations and the like.
- Leaks of confidential engineering information can compromise companies' competitiveness, share price, ability to attract contracts, sales, and personal employment prospects.
- Secure engineering professional communications can sometimes be a matter of personal risk or life and death. For example, in the wrong hands, the whereabouts and timetable of engineers working in hostile regions may reduce their personal security significantly.
- As professionals, IMechE members are required under the Code of Conduct to act professionally with due regard to the welfare of people. If necessary, this requires them to be whistleblowers. Having sound confidential communications helps protect engineers in this role.

Traditional methods of engineering confidentiality and information protection are no longer sufficient in a world of extensive computer hacking and surveillance.

This presentation will describe:

- 5 risk scenarios involving engineering professional communications
- 5 software tools for engineers to secure professional and personal communications/data

PRESENTER

Dr. Terence Love is a mechanical engineer with more than 30 years' experience in Information Systems and IT. Currently, he is director of a company specializing in information systems and data management for researchers and confidential online security for professionals. He is IT Coordinator for the Australian IMechE Branch. Previously, he was manager and researcher at the W-eB Research Centre with a focus on engineering design, information security and *infowar* methodologies. He has also developed custom engineering design software. Recently, he provided secure systems for electoral information.

Joint Technical Session presented by the Institution of Mechanical Engineers, Mechanical Branch Engineers Australia WA, the American Society of Mechanical Engineers and Australian Society for Bulk Solids Handling

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