



### SATURDAY 1

#### Sydney WIE Winter Gala Dinner

**6.30pm – 10.30pm**

This black tie affair is the 10 year celebration promoting the personal and professional advancement of women in engineering.

**Speaker:** Dr Cathy Foley, Deputy Director & Science Director, CSIRO

**Location:** Swissotel

**Cost:** Members \$110 per person; Non Members \$140pp

#### SITE TOUR: Wartime Innovation Tour

**10.30am – 12.00pm**

The exhibition brings together a diverse range of items including engines, weapons, X-rays and a prosthetic arm. It demonstrates the impact of World War I on innovation in science, engineering, technology and medicine. It will finish with a tour of the Engineers Australia, Engineering Excellence display.

**Location:** Museum of Applied Arts & Sciences

**Cost:** \$12 per person

### SUNDAY 2

#### WIE Networking: High Tea

**2.30pm – 4.30pm**

Be treated like a queen at the Women in Engineering High Tea during Australian Engineering Week. Listen to our speakers discuss their experiences in the engineering field and the various challenges and hurdles they have faced as a woman in our industry.

**Speaker:** Professor Julie Steel and Destiny Paris

**Location:** Chifley Hotel, Wollongong

**Cost:** Members \$15 per person; Non Members \$45pp

### MONDAY 3

#### SITE TOUR: Transport Management Centre

**2.00pm – 4.00pm**

Come along and see the only fully integrated centre in NSW that manages the State's traffic and transport networks 24 hours a day, 7 days a week, 365 days a year.

**Location:** Eveleigh

**Cost:** Complimentary

#### SITE TOUR: Barangaroo

**10.00am – 12.00pm**

A tour of Barangaroo, Sydney's most important urban renewal project. Includes an overview from the Barangaroo Delivery Authority's offices giving a bird's eye view of the project and a boat tour along the new foreshore.

**Speaker:** Barangaroo Delivery Authority

**Location:** Kent Street, Sydney

**Cost:** Complimentary

#### LAUNCH EVENT: Harricks Address

**6.00pm for 6.30pm**

Many of the returned servicemen from World War 1, the centenary of which is now being commemorated, were instrumental in the early formation of Engineers Australia and contributed to the development of engineering in Australia. Brigadier Wayne Budd, will present on the contribution made by engineers to the operations of World War 1 including that by industry in support of the war effort. He will also describe how engineering continues to contribute to the Australian Defence Force, including its humanitarian assistance operations.

**Speaker:** Brigadier Wayne Budd, CSC, Australian Army

**Location:** Swissotel

**Cost:** Complimentary

### TUESDAY 4

#### SITE TOUR: Westlink M7's Traffic Control Room

**9.45am for a 10.00am sharp start**

Join the Western Sydney Regional Group in the tour of the Westlink M7's Traffic Control Room with a rare opportunity to see the Truck mounted Attenuators in action when attending to an incident on the motorway,

and also visit the Roam Express Tolling Area where unidentified e-tag users are filtered through.

**Location:** Eastern Creek

**Cost:** Complimentary

#### SITE TOUR: ANSTO

**2.00pm – 4.30pm**

A tour of Australian Nuclear Science and Technology Organisation offers a compelling insight into the role of nuclear science and ANSTO's role in areas such as producing life-saving medicine, climate change research, materials engineering and national food security.

**Location:** Lucas Heights

**Cost:** Complimentary

#### Hyder Consulting - The Next Step - Careers Talk

**5.30pm for 6.00pm**

Want to make it big in the world of engineering? We have brought together some of the best in Engineering and HR to help answer some of your nagging questions about resume building, internships and interview skills.

**Speaker:** Panel Discussion

**Location:** Engineers Australia, Chatswood

**Cost:** Complimentary

#### Q&A Session: What are the key engineering industries of the near future in Australia

**5.30pm – 8.00pm**

Young Engineers Australia Illawarra will host their very popular facilitated Q&A session again in 2015! The topic this year is the future of Engineering Australia.

**Speaker:** Panel Discussion

**Location:** University of Wollongong

**Cost:** Members \$10 per person; Non Members \$40pp

#### Macquarie University Lecture - The engineering cloak of invisibility.

**6.00pm – 7.00pm**

Engineers have been fundamental to the major developments throughout history from the Great Wall of China, through to putting a man on the moon and the internet providing global connectivity. However the role that engineers play in these achievements remains largely invisible. This talk focuses on the successes of engineers and poses questions and challenges to modern engineers on how they can benefit through increasing their visibility

**Speaker:** Dr Michael Wagg – Director of Competitive Networks, Optus

**Location:** Macquarie University

**Cost:** Complimentary

#### Chomping through innovation barriers with Project Pac Man

**6.00pm – 8.00pm**

Have you ever seen a life size Pac Man game? Come and see this exciting project made for Vivid 2015 by CREATE, a student-led maker society at UNSW Australia. Hear the design challenges, innovative techniques applied and how this one project fits into the game changing vision and program of CREATE, the UNSW Engineering group making a huge impact in and out of the lecture theatre.

**Speaker:** Nathan Adler - President, CREATE UNSW

**Location:** Australian Technology Park

**Cost:** Complimentary

### WEDNESDAY 5

#### Great Engineering Challenge Sponsored by UNSW

**9.00am – 3.30pm**

High school students compete in a full day of hands on Engineering Challenges.

**Location:** Roundhouse, UNSW

#### SITE TOUR: School of Military Engineering

**1.00pm – 4.00pm**

The CO School of Military Engineering (SME) in Holsworthy base invites EAust and public to visit

facilities. Visit the new museum, training, display facility will also show rotating screens of operation to complement nearby walking tours.

**Location:** Holsworthy Army Base

**Cost:** Complimentary

#### SITE TOUR: Homebush Bay Bridge that links Rhodes and Wentworth Point

**2.00pm – 3.00pm**

Take a tour of this project that is currently under construction by The VSL\_Brady JV. The 304m main bridge is constructed from match precast segmental balanced cantilever techniques. This site tour includes a brief on the design and construction methodology as well as a visitation to the onsite precast facility and bridge erection activities from land.

**Speaker:** David O'Donnell – Project Manager, VSL

**Location:** Wentworth Point

**Cost:** Complimentary

#### FORUM: WestConnex

**6.00pm for 6.30pm**

A panel discussion of the leaders and decision makers of the WestConnex project.

**Location:** Museum of Sydney

**Cost:** Complimentary

#### SITE TOUR: Nan Tien University

**4.00pm – 5.30pm**

Explore Wollongong's newest education campus. It is Australia's first tertiary institution grounded in applied Buddhist wisdom. You will learn about the design, construction and functionality aspects of the building that it took to meet the cultural significance and requirements.

**Speaker:** Illawarra/ Sutherland Regional Group

**Location:** Nan Tien Institute Wollongong

**Cost:** Complimentary for Members; Non Members \$30pp

### THURSDAY 6

#### SITE TOUR: Sydney Harbour Tunnel

**9.30pm – 12.30am**

Come on a guided tour to see the land tunnels, immersed tube tunnels and underground tunnel ventilation station and learn the current work being done to ensure its 100 year design life.

**Speaker:** Jacques Calluau – Chief Engineer, Sydney Harbour Tunnel

**Location:** North Sydney

**Cost:** Complimentary

#### SITE TOUR: M2 & Lane Cove Tunnel Traffic Control Rooms

**8.30am – 3.30pm**

Join the Western Sydney Regional Group in the tour of the Hills M2 Motorway and Lane Cove Tunnel Traffic Control Rooms including a sneak peak of the construction works planned for the NorthConnex motorway.

**Speaker:** Greg Pipikios, NSW Operations Manager, Transurban

**Location:** Blacktown Train Station

**Cost:** Members \$20 per person; Non Members \$50pp

#### University of Wollongong Student BBQ

**12.00pm – 1.30pm**

Join the Young Engineers Illawarra for a friendly BBQ

**Speaker:** Young Engineers – Illawarra Group

**Location:** University of Wollongong

**Cost:** Complimentary

#### SITE TOUR: Australian Military Aviation Technology, Past and Present

**1.00pm – 3.30pm**

RAAF Base Richmond will present the evolution of Military Aviation Technologies over the last century, and provide a tour of operational aircraft maintenance facilities.

**Location:** RAAF Richmond

**Cost:** Complimentary

#### Beyond 2020 - What the Internet of Things (IoT) revolution means for you"

**6.30pm – 7.30pm**

Some have claimed that IoT will be bigger than the .com boom and even the industrial revolution, and we can expect almost 50 billion connected objects by 2020. Join us for a keynote presentation from the CEO of LX, Simon Blyth, as he shares some of his insights around the Internet of Things and what the IoT means for consumers, businesses and technology entrepreneurs looking for IoT opportunities.

**Speaker:** Simon Blyth – CEO, LX Group

**Location:** Australian Technology Park

**Cost:** Complimentary

### FRIDAY 7

#### SITE TOUR: Opera House Tour

**1.45pm – 3.00pm**

Join us for a tour of the World famous Sydney Opera House. Learn about the History and the Engineering innovations that have made this one of the most iconic structures anywhere in the world.

**Speaker:** Bob Moffat - Facility Manager, Opera House

**Location:** Sydney Opera House

**Cost:** \$37 per person

#### Young Engineers Trivia Night

**6.00pm for 7.00pm**

Do you want to show off your deep knowledge to your friends and be the brightest team on the night? Young Engineers Australia Sydney (YEAS) presents you the highly popular annual Trivia Night.

**Location:** Paddington RSL

**Cost:** \$15 per person

#### Engineers Illawarra Australia Networking Evening

**5.30pm for 6.00pm start**

This is one cocktail party not to be missed. Come along to network and converse with engineers of all ages, industry representatives, academics and students.

**Location:** Novotel North Beach, Wollongong

**Cost:** Members \$20 per person; Non Members \$50pp

### SUNDAY 9

#### SITE TOUR: HARS Museum

**10.00am – 12.00pm**

Come and visit a great volunteer run facility with Young Engineers Australia Illawarra on a tour of the Historical Aircraft Restoration Society (HARS) Museum at Albion Park Rail. The Tour involves an escorted inspection of the 30 or so aircraft the HARS group operates including walking through working hangars and getting close to the maintenance and restoration of the aircraft.

**Location:** HARS Museum

**Cost:** Adults \$20 per person; Children (5-15yrs) \$8pp

### TUESDAY 11

#### Aurecon Bridge Building Competition

**9.00am – 4.00pm**

Can your school build the strongest bridge out of balsa wood, cardboard, string and glue? Would your students benefit from learning about engineering in a fun and practical way? Aurecon, an engineering, management and specialist technical services consultancy, is running a model bridge competition for year 8 and 9 school students throughout NSW and ACT. Cash prizes for winning schools and students. Numbers are strictly limited.

**Location:** Art Gallery of NSW