

construction, and line and substation maintenance using bare hand techniques, later adopted on the new 275kV network.

Frank Montiel (1998)

Around the late 90s, the Australian National Electricity Market was being developed and I was working on forecasting market outcomes under the developing market rules. Through this work I became interested in gaining a better understanding of how different market and regulatory structures affect decision making behaviour and market dynamics.

I was lucky enough to get the opportunity to spend time in Spain and the UK, which had completely different market frameworks. Spain was just introducing an electricity market and the UK had one of the world's most mature markets with a 10 year history. I was then even luckier to be in the UK during the period where the market structure was being fundamentally debated and eventually replaced.

In a profound way, this period has become a reference point in my professional life. Since then I have a broader toolkit and some great contacts. But the value of the experience goes far beyond my work objective. I consider it as one of the defining periods of my life. It significantly broadened my perspective both professionally and personally: particularly experiencing all aspects of living in other countries.

Aidan Roberts (2008)

"My proposed area of interest was to investigate future distribution networks with a particular focus on the integration of new technologies. The proposed work plan was designed to give me exposure to key stakeholders within the ESI in order to appreciate their different perspectives, issues and drivers. So far, this has allowed me to work for 3 different organisations including a Regulator, a Consultancy and a Manufacturer.

The ES Cornwall scholarship is not only a great opportunity to further your career but also to see the world. The niche experience gained will be an asset to you professionally but will also benefit prospective employers and the Australian ESI as a whole. Through my employment I have been lucky enough to work in Scotland, Wales, UK, France and Sweden. Outside of work, I have travelled through Singapore, Germany, Iceland, Spain and Italy with a few more trips planned prior to my return.

Nick Craig (2008)

My ESC Scholarship project is program management of transmission investments (Electricity Alliance – East; based in Rugby, United Kingdom), and project management of renewable generation (Hydro One Inc; based in Toronto, Canada). I enjoy being part of the diverse solutions adopted and developed to address the specif-

ic issues encountered by each organization and country. My experiences overseas have help highlight the benefits and drawbacks of partnered delivery of transmission investments and integration of renewable generation.

Aside from the work based activities, I have been fortunate enough to experience a different way of life and benefited from involving myself the variety of cultures and people in Europe, Northern Africa & North America.

Sarah Hiley (2011)

The E. S. Cornwall scholarship gave me the opportunity to live and work overseas for two years, gaining invaluable experience in my area of interest – IEC 61850 compliant substation automation systems. I was very fortunate to be able to work for a leading manufacturer in Switzerland where I took part in the design and testing of some of the earliest commercial installations of process bus technology in the world. For my second placement, I was based in Scotland, working to develop a new substation automation standard for Scottish Power based on IEC 61850. I was also given the opportunity to attend the Paris CIGRE conference and various industry visits, including being able to meet with one of State Grid China's IEC 61850 experts in Beijing.

For me, the value of the scholarship went far beyond my professional objectives. It was a life changing experience where I was able to experience different ways of life and travel extensively throughout Europe and Asia, meeting new people and experiencing many different cultures.

I strongly encourage any young engineer who is keen to travel and broaden their career to apply. Not only does the scholarship offer generous monetary support, but the professional support provided

by the scholarship committee opens up so many unique opportunities that will shape both your personal and professional outlook.

Applications should consist of:

1. Completed Application Form (down load from www.escornwall.com.au)
2. A statement detailing the work/study focus and how the Electricity Industry in Australia may benefit by the knowledge and experience thus gained by them; and
3. Work plan with potential placements and experience

Completed applications should be submitted to:

Mrs Gail Smith, Industry & Outreach Officer
Faculty of Engineering, Architecture & Information Technology
University of Queensland
St Lucia Qld 4072
Telephone: (07) 3365 3853 g.smith@cait.uq.edu.au

E.S. Cornwall Memorial Scholarship 2017



Edward Satchwell Cornwall
1887-1954



THE UNIVERSITY OF QUEENSLAND

THE SCHOLARSHIP

Edward Satchwell Cornwall joined the City Electric Light Company in 1913 and by 1937 had risen to be its Manager and Chief Engineer. In 1949 he became Managing Director of the company and he continued in this position after the restructuring of the company as the Southern Electricity Authority in 1953.

Throughout his career as a senior executive of the electricity supply industry, he remained a very strong advocate of university training for professional engineers, and many young graduates owed him a deep debt of gratitude for his interest and guidance in their training and subsequent professional development.

Following his death in 1954, the E.S. Cornwall Memorial Scholarship was established by public subscription and with a contribution from the then Southern Electricity Authority of Queensland. The indenture which established the scholarship in 1955 describes the purpose of the award as follows: "As a memorial to the late E.S. Cornwall a scholarship will be established within the University of Queensland in a manner hereinafter provided with the principal object of providing scholarships, bursaries or grants to enable graduates in engineering of the University of Queensland to go abroad to obtain further experience in or to undertake research in aspects of the Electricity Supply Industry".

The scholarship is open to engineering graduates from all Queensland Universities.

The same indenture also set up an Advisory Committee to advise the University in awarding and administering the scholarship.

The Advisory Committee has always taken the view that the E.S. Cornwall Scholarship is a highly prestigious award and has concentrated on selecting engineers whose applications demonstrate initiative and thorough planning in addition to technical ability. The electricity supply industry of Queensland is able to take considerable pride in the achievements and subsequent careers of its E.S. Cornwall Scholars.

Limited E.S. Cornwall Scholarships are available however E.S. Cornwall Industry Scholarships may also be available to unsuccessful, but otherwise suitable candidates, subject to agreement being reached between the University and the relevant industry employer.

RULES

1. The object of the scholarship is to enable engineering graduates of Queensland universities to obtain special experience abroad in aspects of the electricity supply industry so the industry in Australia may benefit by the knowledge and experience thus gained by them.
2. The scholarship shall be tenable for a period of not less than 9 months and not more than 18 months, subject to agreement between the scholar and the scholar's employer, in accordance with a program approved by the Advisory Committee. An award shall be made every 2 years. The value of the award shall be AU\$3,500 per month.
3. The scholarship shall be awarded by the University of Queensland on the recommendation of an Advisory Committee consisting of representatives of the following sectors of Queensland's electricity supply industry and The University of Queensland:
 - Electricity transmission;
 - Electricity distribution;
 - Power generation
 - Consulting engineering;
 - School of Information Technology and Electrical Engineering
 - A manufacturer of electrical equipment.
4. E.S. Cornwall Industry Scholarships shall be on similar terms and the duration and value of the award shall be agreed with the scholar's employer together with the final agreed work program.
5. A candidate shall be an engineering graduate from a Queensland university. In making the award, consideration shall be given to the work of the candidate during the university course, a general capacity for benefitting by overseas experience, and the nature of the proposed program of work. Preference will be given to candidates with 3 to 5 years work experience.

5. The scholar shall pursue outside Australia, a program of work approved by the Advisory Committee, and the Advisory Committee will, if the scholar so desires, assist him/her in preparing his/her program. The work should ordinarily consist of either:
 - i. employment by a company involved in a relevant aspect of the electricity supply, manufacturing, or research, or by 2 or more of such bodies in succession, the employment being for the most part in a responsible capacity in a field approved by the committee; or
 - ii. study for a higher degree.

Applicants are encouraged to consider the practicality of visiting/working for organisations in China/Asia for part of their program of work, where these organisations are showing leadership in the applicant's proposed area of study.

With the approval of the Advisory Committee, which may be obtained at any stage, the scholar may carry out minor investigations abroad on behalf of a specific organisation in the Australian electricity supply industry. Other financial support is allowable and details must be furnished to the Advisory Committee.

7. The scholar shall submit quarterly reports to the Advisory Committee giving a general account of the work performed during the previous quarter and impressions gained thereby.

Not more than 3 months after the scholarship terminates the scholar shall submit to the Advisory Committee a full report, suitable for circulation within the electricity supply industry, on the work performed during the tenure of the scholarship.

8. The scholar shall, in any published paper or report dealing directly with work performed as such scholar, state that the work was so performed as a holder of the E.S. Cornwall Memorial Scholarship, The University of Queensland.
9. After the termination of the scholarship the scholar shall deliver at The University of Queensland any lectures as may be required by the University within the field of enquiries as a scholar, payment for such lectures to be made at the standard rate for specialist lectures.
10. Applications for the scholarship, including the Scholarship Application Form shall be lodged by email (g.smith@eait.uq.edu.au) at the University of Queensland on or before 31 July of the year the award is to be made. The applicant shall indicate their objectives and program of work, organisations to target, areas of work, what they would learn and benefit/relevance to Australian industry. Applicants are not expected to have arranged conditional offers of employment.
11. Reports by the scholar and other communications arising out of the scholarship, shall in the first instance be sent to the Chairman of the Advisory Committee.

FORMER E.S. CORNWALL MEMORIAL SCHOLARS

Below are former E.S. Cornwall Scholars, listed in order of their tenure of the scholarship. All have indicated a willingness to advise and assist potential applicants.

COLIN MORWOOD (1957)
FRANK SCHRODER (1959)
WAREN WAGER (1962)
GRAHAM FRANCIS (1965)
BRIAN BECCONSALL (1965)
MICHAEL SARGENT (1969)
JOHN LEGGO (1972)
SIMON BARTLETT (1976)
KERRY CONNELL (1978)
GARY PRICE (1983)
ADAM ASPINALL (1986)
ROBERT WEIR (1990)
DAVID BONES (1992)
PAUL MCARDLE (1995)
FRANK MONTIEL (1998)
DANIEL ANDERSEN (2005)
NICHOLAS CRAIG (2008)
REENA KWONG (2008)
JONATHAN DENNIS (2008)
AIDAN ROBERTS (2008)
SARAH HILEY (2011)
JARED MCKEE (2011)
DON MCPHAIL (2011)
ALEXANDRA PRICE (2012)
MATTHEW ZILLMANN (2013)
ROBYN O'CONNOR (2013)
BEER OPATSUWAN (2015)
STEPHEN SPROUL (2015)

STATEMENTS FROM PAST SCHOLARS

Brian Becconsall (1965)

I selected 2 countries (USA and Canada) because they had advanced EHV networks with large distances, good reputations for completing major projects efficiently, and their world renowned design. Project management using critical path techniques were also of interest, as well as maintenance aspects of large systems, especially Live Line techniques.

I obtained professional work of 12 months in Ontario Hydro in Toronto, Canada, and 6 months each in 2 companies in the USA, Power Line Erectors - Ebasco, in Mississippi; and American Electric Power, in New York. This gave me balanced experience in both the public and privately owned networks, enabling me to bring back to Qld actual work practices in EHV line design, line