

Swinburne University of Technology  
Sarawak Campus

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SWINBURNE  
UNIVERSITY OF  
TECHNOLOGY

# Graduation Ceremony Program

**Pullman Kuching**

Jalan Mathies,  
Kuching, Sarawak

Wednesday, 17 April 2019



# Congratulations and welcome to Swinburne Alumni!

Your Swinburne experience doesn't end with graduation. Swinburne Alumni provides valuable opportunities to learn, share and connect with our global community every day.

You'll have access to many benefits, including:

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Swinburne Alumni



Swinburne University of Technology Alumni

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# Message from the Pro Chancellor and Chief Minister of Sarawak



## Congratulations on your graduation today and well-deserved success.

Throughout your university journey, I am confident that you have obtained an enriching experience which must have shaped your views and built your character. As graduates of Swinburne, I trust that you have been well-imbued with the attributes of 'Swinburne 2025 Vision' to enable you to become 'Future-Ready Learners' that are genuinely confident and enterprising to create an impact within the communities where you live or work.

You must have been taught to be well-versed in the values of 'Research with Impact' in order to be able to play a meaningful role in the transformation of industries and shape lives and communities, and be involved in 'Innovative Enterprises' where agility, resilience and market responsiveness will give one the edge over others in the constantly changing and increasingly challenging business and work environment.

Following your graduation, you are now ready to be employed or start your own business. It is both an exciting and challenging time to be entering the current workforce that leverages on digital and intelligent technology. It demands the employees to acquire new skills and change their thought process to drive innovation and growth in creative, responsible and sustainable ways.

I believe a tertiary education must not be just about obtaining a degree but also to enable you to create new business value and transforming organisations' experience. Once you've embarked on your career journey, you must also remember to uphold your personal and professional integrity and take responsibility for your actions. Strive to give back to the community by using the knowledge and know-how we have obtained in order to make life more meaningful.

Today, you are able to stand tall and proud witnessed by your loved ones. Your graduation is also a celebration for your loved ones who have supported and encouraged you throughout your pursuit of higher education. Let us also take this opportunity to thank all of them as your success is their success.

To our graduates from abroad who will return to your home countries, I bid you 'Selamat Jalan' (farewell) and wish you all the best in your future endeavour. I am certain that you have made lifelong friendships and that your experience in this Sarawak has been a positive one. Stay in touch with your alma mater and I hope that you will have fond memories of your time in Sarawak.

Thank you.

**The Right Honourable  
Datuk Patinggi (Dr) Abang Haji  
Abdul Rahman Zohari  
Bin Tun Datuk Abang Haji Openg**  
MBusMgmt(Brunel),  
Honorary Doctorate in Business  
and Management(UCTS),  
Honorary Doctorate in Economic  
Development(UNIMAS),  
DUniv(honoris causa) (SUT),  
D.P., D.A., P.N.B.S., J.B.S.

Pro Chancellor and  
Chief Minister of Sarawak

# Message from the Vice-Chancellor



I am delighted to welcome you here for this graduation ceremony.

Well done to all who are graduating today for successfully completing your course. At this time we must also acknowledge the Swinburne academic and professional staff who made your learning experience possible, as well as parents, spouses, siblings, partners and friends whose encouragement has played a crucial role in your success.

Today your graduation allows us to celebrate your achievements. You have fulfilled the requirements of a demanding course of study with focus and discipline and your reward is an excellent education.

Such an education is all the more important today because of the need to respond to a rapidly changing world. Within our knowledge-based society, many people are engaged in 'knowledge-based' work, across a range of fields and disciplines.

The achievement of high quality education and training positions you to attain greater prosperity and participate more fully in a dynamic knowledge-based global economy. Swinburne is consistently named as one of the top universities in the world according to the prestigious Academic Ranking of World Universities. Therefore, I hope you take pride in knowing that you graduate from Swinburne with a high-quality education, obtained

from a world-ranked university.

I strongly encourage all of you who graduate today to address the new challenges that face your community and make a positive contribution. I urge you to seize these opportunities and help lead our society into a promising future.

At Swinburne we encourage our students to embrace the notion that we are all learners for life. And so, I anticipate that your graduation will not represent an end-point to your educational adventures. We look forward to welcoming you back to Swinburne in the future, either in-person or through one of many online learning opportunities, to help you further your knowledge.

We are also delighted to welcome you as Swinburne alumni and will take pride in hearing of your achievements. I sincerely wish you the very best for the future and, wherever life adventures take you, invite you to stay in touch with your Swinburne community.

**Professor Linda Kristjanson AO**  
Vice-Chancellor and President  
AO, FAICD, FTSE, PhD  
Swinburne University of Technology

# Message from the Chairman of the Board of Directors and University Council



On behalf of the Board of Directors and University Council, heartiest congratulations to all graduates.

Together with your family members, friends and dedicated Swinburne staff who have taught you throughout your studies, we are proud to witness this significant event today. It is your hard work, commitment and sacrifices that have brought you to receive the internationally recognised Swinburne testamur. At this graduation event, not only do we celebrate your success but also recognise the support your family, friends and lecturers have played in your university journey.

I am proud to acknowledge that graduates from the Swinburne's Sarawak campus are spread throughout the country and abroad, and are currently employed by the Top 100 global brands in industries such as financial services, manufacturing, oil and gas, construction, computing, transportation, pharmaceutical and others. This is because graduates from the Sarawak campus are awarded the same Australian qualifications by the main campus in Melbourne, Australia, allowing our graduates to have wider career options and recognition across the globe.

I trust Swinburne's personalised, industry focussed education has better prepared you for your future work. Our professional placements and internships, accreditation placements, industry study tours and industry-linked projects, flexible learning and student mobility options, as well as student development programmes are just some of what we refer to as 'The Swinburne Advantage'. I hope you have had the opportunity to be part of these activities where students gain valuable industry insights and build network with professionals from multiple disciplines.

Your graduation today is definitely not an end goal in itself but a launching point for further achievements. I hope your experience at Swinburne has enriched your personal growth and would open many doors of opportunity in future.

Once again, congratulations and all the best.

**The Honourable  
Tan Sri Datuk Amar (Dr) Haji  
Mohamad Morshidi  
Bin Abdul Ghani**

BEcon(UKM), MSc(Scranton),  
DUniv(honoris causa) (SUT), P.S.M.,  
D.A., J.S.M., P.G.B.K., P.P.C., P.P.B.

# History of the university



The Swinburnes lived for many generations in Northumberland, in the north of England. In early times, the family owned a castle on the banks of the Swin Burn, the brook of the boars. By 1245 the Swinburne coat of arms was 'Gules: three boars heads argent'.

George Swinburne arrived in Melbourne in 1886, aged twenty-five. His early days in Melbourne were spent setting up gas plants and bringing gas-light to the cities and towns. As his business stature increased, he entered State Parliament and became a minister.

Swinburne was established as the Eastern Suburbs Technical College by George Swinburne and the first students were enrolled in 1909, when classes began in carpentry, plumbing and blacksmithing. In 1913 the institution changed its name to Swinburne Technical College, to commemorate the Honourable George Swinburne. Soon afterwards, a boys' junior technical school and the first girls' technical school were established.

Following an extensive reorganisation of advanced education in Victoria in the late 1970s, Swinburne was given the power to grant bachelor degrees. The first of these was awarded at a conferring ceremony held on 21 May 1981 at the Camberwell Civic Centre.

In 1992, Swinburne achieved university status with the passage by the Parliament of Victoria of the *Swinburne University of Technology Act*. This marked not only Swinburne's distinguished history as a provider of further education, but the beginning of a new period of growth and innovation for Swinburne.

In recent years, Swinburne has progressed to become one of the world's leading research-intensive teaching universities and a leader in online education, expanding the educational opportunities available to a new generation of learners.

Swinburne's emphasis is on high-quality, engaged teaching and research in science, technology and innovation – teaching and research that makes a difference in the lives of individuals and contributes to national economic and social objectives.

Swinburne holds a unique place among educational institutions in Australia in the link that persists between it and the founder and his family. The conferring of a modification of the family's coat of arms preserves and strengthens that link.

## **The arms**

The basic colours of red and white, and the cinquefoils charged on the shield, commemorate the arms of the Swinburne family.

## **The Crest**

The demi-Boar and the cinquefoil perpetuate the Swinburne connection; the book is symbolic of learning.

## **The motto**

The College of Arms' translation of the motto is: Achievement through learning.

## **The Flag**

The basic colours of red and white with cinquefoils.



# Establishment and History of the Sarawak Campus

Swinburne University of Technology Sarawak Campus is the result of a successful combination of goals: Malaysia's goal of becoming an educational centre of excellence, Sarawak's goal of increasing its technical workforce and Swinburne University of Technology Australia's goal of globalising its operations to provide its students with additional international opportunities while providing quality Australian degrees at affordable costs for students from across Asia.

The Sarawak campus was established in Kuching, the capital city of the Malaysian state of Sarawak, in 2000. Originally known as Swinburne Sarawak Institute of Technology, it was awarded university status as a foreign branch campus university by the Malaysian Government in 2004 and became Swinburne University of Technology Sarawak Campus. The university therefore has dual nationality, being both a branch of the Australian university as well as a Malaysian university. Degrees awarded are Australian and testamurs are indistinguishable from those awarded in Australia.

The university is jointly owned by Swinburne University of Technology Australia and the Sarawak Government through Yayasan Sarawak (Sarawak Foundation) and Sarawak Higher Education Foundation.

Swinburne Sarawak was founded as part of the Government of Sarawak's strategy to deliver skilled human capital to the engineering and technical fields for the industrialisation needs of the state. The Australian partner in this venture, Swinburne University of Technology, is well-known in Australia for its business and technical education and for close links with industry. The university wants to make the same high standard of education available to young people abroad.

Undergraduate degrees offered at Swinburne Sarawak include courses in the areas of Engineering, Science, Business, Computing and Design including double degrees. The university also offers postgraduate research programs at PhD and Masters levels in these disciplines.

The School of Foundation Studies offers a wide range of preparatory and English language enhancement programs.

The 16.5-acre city campus is only about 15 minutes from the central waterfront area of Kuching. Student numbers have grown from the original intake of about 130 students in August 2000 to about 4600 currently. International students currently come from more than 60 countries.

The Sarawak campus was expanded in 2008. Completion of the RM110 million project sees eight new custom designed buildings added to the campus, increasing the total number of buildings to 12. These greatly improve teaching, research, student accommodation and other facilities as well as permit further expansion of courses and students, particularly in engineering and science.



# The Mace and the Chairs

In universities a mace is used as a symbol of institutional authority and it is carried in procession before the Chancellor, and here in Kuching, the Pro Chancellor, as a symbolic weapon of protection and power.

Along with academic dress and graduation ceremonies, the mace is part of the ancient ceremonial that marks the authority of the University and its chief office bearers, the importance of learning and knowledge, and which welcomes the graduate into a special and select group of learned men and women. The ceremony marks the formal entrance of the graduate, who as a student, is considered 'in training', into the academic family of the university. The Mace accompanies the Chancellor, the Pro Chancellor and the academic procession into the hall and remains on view, mounted on a stand, during the ceremony. At the end of the ceremony it is carried out in the procession.

The Swinburne Sarawak Mace Suite is a sister suite to that used by Swinburne Melbourne. The Melbourne suite is fabricated in Queensland Silk Oak, a beautiful Australian timber. The Sarawak suite is fabricated in Belian, a beautiful and revered Sarawakian timber. In fact, part of the timber in the mace comes from the family house of YBhg Datu (Dr) Haji Abdul Rashid Bin Mohd Azis, a foundation member of the University, creating a living link between Sarawak's rich historical past and the future promise of education and development.



A finial, a type of crown crafted in solid silver and gold is mounted at the top of the mace. The Australian crown contains a miniature carving of the University crest. The carving inside the Sarawakian crown has incorporated the hornbill, the State emblem, centered in a wreath of Eucalyptus and Belian leaves, to symbolise the blending of two cultures and two histories. In both cases the carving incorporates a book with a heraldic cinquefoil, from the French '*cinque feuilles*' meaning 'five leaves', which dates from the family crest of George Swinburne, the University's founder. The book is a symbol of knowledge and learning incorporated into the Swinburne crest by the Royal College of Heraldry, London. The tail of the mace is finished in solid silver.

The two ceremonial chairs are for the Chancellor and the Pro Chancellor. The university motto: '*Factum per Literas*' which refers to achievement through learning, is part of a ribbon carved into the back of the chairs. Small silver stars of the Southern Cross constellation, also contained in heraldic form in the University crest, are mounted into the backs of the chairs. The chairs sit to the front of the dais in the traditional attitude of enthronement.

Distinguished artisans and craftspeople involved in the project with the designer were:

- Hendrik Forster, silversmith, who crafted the silver and gold crown and the silver mace stand brackets,
- Ian Higgs, cabinetmaker, who created the timber components of the mace, mace stand and chairs,
- Marion Marshall, silversmith, who crafted the stock tail and the stars of the Southern Cross,
- Sue Wraight, netsuke carver, who created the hornbill miniature carving.

Professor Roger Simpson and Ms Monique Jedwab contributed to project management and detailing.

The ceremonial items of the office of the Chancellor and Pro Chancellor of Swinburne Sarawak were designed by Emeritus Professor Helmut Lueckenhausen, the former Pro Vice-Chancellor and Chief Executive Officer Swinburne Sarawak.

Ian Higgs made the timber components at the training workshop of the Sarawak Timber Industry Development Corporation at Kota Samarahan, supported by members of STIDC and particularly through the kind offices of YBhg Datu Haji Len Talif Bin Salleh, the former General Manager.

# Academic regalia

The academic dress worn at Swinburne today is a modification of everyday dress worn by scholars and teachers in the Middle Ages and the Renaissance. It consists of a gown and a scarf-like stole or hood, which is a remnant of the cowl that was once worn to cover the head and shoulders to keep off the rain and snow. Trencher caps or bonnets are worn as indicated below, with the tassel down over the left eye and in a vertical position.

The style of academic dress adopted by Swinburne University of Technology is based on that of the University of Oxford.

## Honorary doctorate

A cardinal red gown with silver grey front and sleeve facings. The hood is cardinal red, fully lined in silver grey and is worn with grey showing on both shoulders. A tudor bonnet with a silver cord and tassel is worn.

## Honorary master degree

A cardinal red gown with silver-grey front facings. The hood is cardinal red, fully lined in silver grey and is worn with silver grey showing on both shoulders. A black trencher with a silver cord and tassel is worn.

## Doctor of philosophy

A black gown faced with chilli red and silver grey. The hood is chilli red, fully lined in silver grey and is worn with silver grey showing on both shoulders. A tudor bonnet with a scarlet cord and tassel is worn.

## Professional doctorate

A black gown faced with chilli red and the discipline colour. The hood is chilli red, fully lined in the discipline colour, and is worn with the discipline colour showing on both shoulders. A tudor bonnet with a scarlet cord and tassel is worn.

## Double master honours degree

A black master gown, hood and trencher. The hood is black, fully lined with the colours of both disciplines, and laced with a silver braid. It is worn with the colours showing on both shoulders.

## Double master degree

A black master gown, hood and trencher. The hood is black, and fully lined with the colours of both disciplines. It is worn with the colours showing on both shoulders.

## Master honours degree

A black master gown, hood and trencher. The hood is black, fully lined with the discipline colour, and laced with a silver braid. It is worn with the colours showing on both shoulders.

## Master degree

A black master gown, hood and trencher. The hood is black, fully lined with the discipline colour, and is worn with the colour showing on both shoulders.

## Graduate diploma

A black gown, stole and trencher. The stole is black, lined with the discipline colour, and is worn with the colour showing on both sides.

## Graduate certificate

A black gown, stole and trencher. The stole is black, lined with the discipline colour, and is worn with the colour showing on the left hand side.

## Honours degree

A black gown, hood and trencher. The hood is black, half lined with the discipline colour and laced with a silver braid, and is worn with the colour showing on the left-hand side.

## Double degree

A black gown, hood and trencher. The hood is black, half lined with the colours of both disciplines, and is worn with the colours showing on the left-hand side.

## Bachelor degree

A black gown, hood and trencher. The hood is black, half lined with the discipline colour, and is worn with the colour showing on the left-hand side.

## Dual award

A black gown, hood and trencher. The hood is black, half lined with the colour of the Higher Education discipline and the reverse (black) edge of the right-hand side trimmed with the colour of the Vocational Education discipline. The hood is worn with the Higher Education colour showing on the left-hand side and the Vocational Education trim on the right-hand side.

## Associate degree

A black gown, stole and trencher. The stole is black, lined with the discipline colour, and is worn with the colour showing on the left-hand side.

## Advanced diploma, associate diploma and diploma

A black gown and stole. The stole is black, lined with the discipline colour, the right-hand edge being trimmed with white cloth, and is worn with the colour and white trim showing on the right-hand side.

## Advanced certificate, certificate IV, certificate III and apprenticeship

A black gown is worn.

## Indigenous stoles

A stole in the colours of the Aboriginal Australian flag can be worn by indigenous graduands and staff at graduation ceremonies. The stole is worn under any academic colours, or where there are no academic colours (i.e. certificate and apprenticeship recipients) the stole is worn under the gown.





## Members of the University Council and the Board of Directors Swinburne Sarawak

The Right Honourable Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari Bin Tun Datuk Abang Haji Openg, MBusMgmt(Brunel), Honorary Doctorate in Business and Management(UCTS), Honorary Doctorate in Economic Development(UNIMAS), DUniv(honoris causa) (SUT), D.P., D.A., P.N.B.S., J.B.S.

The Honourable Tan Sri Datuk Amar (Dr) Haji Mohamad Morshidi Bin Abdul Ghani, BEcon(UKM), MSc(Scranton), DUniv(honoris causa) (SUT), P.S.M., D.A., J.S.M., P.G.B.K., P.P.C., P.P.B.

YBhg Datu (Dr) Haji Abdul Rashid Bin Mohd Azis, DipMgmtSc(Intan), MBA(Brunel), DUniv(honoris causa)(SUT)

Professor Linda Kristjanson AO, BN, MN(Research)(Manitoba), PhD(Arizona), FAICD

YB Dato' Sri Haji Fadillah Bin Haji Yusof, LLB(Hons)(UM), A.B.S., P.G.B.K.

YB Dr Haji Annuar Bin Rapae, MBBS(Malaya), ADV.MCARD(UKM), AM(M'SIA), FNHAM(M'SIA), FASCC, CCMR(Germany), FASPC, MRCP(UK), FESC, FACC

YBhg Tan Sri Datuk Amar (Dr) Haji Abdul Aziz Bin Dato Haji Husain, BEcon(UM), MBA(Syracuse), DUniv(honoris causa) (SUT)

YBhg Datuk Wan Ali Tuanku Yubi, DipEd(UM), DipCom, BEcon(UM), MEd(Birmingham)

YBhg Datuk (Dr) Philip Ting Ding Ing, AM(Aus), BBus(SUT), DUniv(honoris causa)(SUT), CA(Aus), CA(M), CPA(M)

Professor Scott Thompson-Whiteside, BA(Hons), MA, PhD(Melb)

Professor Chris Pilgrim, BScEd(MCAE), GDipAppSci(CompSci), MAppSci(InfTech), PhD(SUT), GAICD, FACS

Tuan Haji Mohamad Bolhair Bin Reduan, CIMA

Professor John Wilson, BE(Hons)(Monash), MSc(California), PhD(Melb)

Adjunct Associate Professor Datin Enn Ong, BEc, GradDipBusSys, MBusSys(Monash)

YBhg Datu Dr Haji Adi Badiozaman Tuah, B.A(Hons)(UM), Dip.Ed.(Dist)(UM), M.Ed(UM), PhD(UK)

Tuan Haji Azmi Bin Haji Bujang, MPolSci(Curtin)

Tuan Haji Mersal Bin Abang Rosli, DipAcc(UiTM), BAcc(Hons)(UiTM), MScMgt(Accounting & Planning)(UUM), C.A.(M), CFP

Professor Duncan Bentley, BA, LLB(Cape Town), LLM(London), LLM(Corp&Comm), PhD(Bond), FAAL, FCA, CTA, GAICD, Hon Fellow SAIT

Dr Andrew J Smith, BSc(Hons), PhD(Melb)

Mr Mohamad Adzlie Bin Ibrahim BPA(UUM), MBA(UMK)

Elected by Academic Staff  
Dr Irine Runnie Henry Ginjom, BSc(Hons)(Notts, UK), MSc(UPM, Malaysia), PhD(UQ, Australia)

Elected by General Staff  
Mr Jordan Anthony Layan, BA(Hons) (UWE, UK), Assoc CIPD

Elected by Students  
Mr Wan Faris Ali Ibrahim  
Bin Wan Mohammad Abdullah

## Participating officers in the Ceremony

### Pro Chancellor and Chief Minister of Sarawak

The Right Honourable Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari Bin Tun Datuk Abang Haji Openg, MBusMgmt(Brunel), Honorary Doctorate in Business and Management(UCTS), Honorary Doctorate in Economic Development(UNIMAS), DUniv(honoris causa) (SUT), D.P., D.A., P.N.B.S., J.B.S.

### Chancellor, Presiding Officer

Professor John Pollaers OAM, BElecEng(First Class Honours)(UNSW), BSc(UNSW), MBA(Macquarie & INSEAD)

### Vice-Chancellor and President

Professor Linda Kristjanson AO, BN, MN(Research) (Manitoba), PhD(Arizona), FAICD

### Deputy Vice-Chancellor and Chief Executive Officer

Professor John Wilson, BE(Hons)(Monash), MSc(California), PhD(Melb)

### Dean, Faculty of Business, Design and Arts

Professor Lee Miin Huui, BA(Hons) Acc & Fin(UWL, UK), MSc. Financial Management(MDX, UK), PhD(UniRAZAK, Malaysia)

### Dean, Faculty of Engineering, Computing and Science

Professor Su Hieng Tiong, BEng(Hons)(Liverpool), PhD(Birmingham)

### Master of Ceremonies

Ms Norizan Tan, BEd(Hons)(TESL)(UiTM), PGradDip(TESOL) (RELC), MA(TESOL)(SUT)

### Mace Bearer

Dr Choo Chung Siung, BEng (Hons), PhD (Swinburne), Grad. IEM, A.M. MGS, Grad. IEAust

### Doa Reciter

Dr Muhammad Rafiq Mirza bin Julaihi, BEng (Hons) (IIUM, Malaysia), MEng, PhD (Hokkaido University, Japan)

## Order of proceedings

### The Academic Procession

### The Official Party Procession

The academic and official party procession will enter the Colosseum 1 and Colosseum 2 at 2.30pm.

### Music Processional

The audience is requested to stand as the procession enters the Colosseum 1 and Colosseum 2.

### The National Anthems

The audience will sing the Malaysian National Anthem.

The audience will sing the Australian National Anthem.

*Please refer to the last page for the lyrics.*

The audience will sit when the Presiding Officer is seated.

Doa recital

### The Opening

The Chancellor, Presiding Officer, Professor John Pollaers OAM will open the proceedings.

### The Presentation of Awards

The Pro Chancellor, The Right Honourable Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari bin Tun Datuk Abang Haji Openg will present the awards.

The Chancellor, Professor John Pollaers OAM will present the awards.

### The Student Response

Mr Deshan Anselam Benhur will deliver the student response.

### The Charge to Graduates

The Vice-Chancellor and President, Professor Linda Kristjanson AO will deliver the charge to the graduates.

### The Closure

Master of Ceremonies will close the proceedings.

The Sarawak State Anthem will be played.

*Please refer to the last page for the lyrics*

The audience is requested to remain standing as the procession, joined by the new graduates, leaves the Colosseum 1 and Colosseum 2.

The audience will leave the Colosseum 1 and Colosseum 2 via the exit doors.

### Music Recessional

Refreshments will be served in the foyer.

# Ceremonial regalia

## Chancellor

A black gown of English Queen's Counsel style, with ten gold bands on the sleeves and scarlet satin trimmings on the front, collar and bottom edge of the gown. A black velvet trencher with gold trim on the base and a gold braid and tassel is worn.

## Pro Chancellor (Sarawak Campus)

A black gown of English Queen's Counsel style, with ten gold bands on the sleeves and scarlet satin trimmings on the front, collar and bottom edge of the gown. A black velvet trencher with gold trim on the base and a gold braid and tassel is worn.

## Deputy Chancellor

A black gown, similar in style and colour to the Chancellor's, with five gold bands on the sleeves. A black velvet trencher with a gold cord and tassel is worn.

## Vice-Chancellor

A black gown of English Queen's Counsel style, with ten silver bands on the sleeves and scarlet satin trimmings on the front, collar and bottom edge of the gown. A black velvet trencher with silver trim on the base and a silver cord and tassel is worn.

## Members of council

Council members wear a university stole featuring the Swinburne Coat of Arms with the academic dress for their qualifications. The stole is cherry red with an embroidered crest at the base of each side of the stole, and is worn with the colour and crest showing on both sides.

## Academic and administration staff

Academic dress for their qualifications, or the Swinburne equivalent.

## University Council Swinburne Melbourne

### Chancellor

Professor John Pollaers OAM, BElecEng (First Class Honours)(UNSW), BSc(UNSW), MBA(Macquarie & INSEAD)

### Deputy Chancellor

Mr Anthony Mackay AM, BEc, BEd(Mon), MA(EcEd)(Lon), FACE, FACEL, FIPAAV, FRSA

### Vice-Chancellor and President

Professor Linda Kristjanson AO, BN, MN(Research)(Manitoba), PhD(Arizona), FAICD

### Chair of the Academic Senate

Professor Bernadine Van Gramberg, PhD(Mon), MSC, BSc(Hons), GDipDispRes&JudAdmin, GDiplndRel(Melb), LLB, GDipEd&Teach(VU)

### Councillor

Junaid Azhar

### Councillor

Mr Andrew Dix, BCom(Melb), FCA, PMIIA, GAICD, SrMgtPgrm(Columbia University NY)

### Councillor

Ms Geraldine Farrell, BSc, LLB, LLM(IP)(Mon), GAICD

### Councillor

Ms Kirsten Mander, LLM(Melb), FAICD, FGIA, FRMIA

### Councillor

Ms Vi Petersen, BCom(Ec)(Melb), GradDip CorpFin(SUT)

### Councillor

Ms Renée Roberts, BBus(Eco/Mktg)(SUT), MAppFin(Macquarie), GAICD, SFFinsia, Fellow WCLP, AMP(Harvard)

### Councillor

Ms Catherine Rojas, BMus/BTeach(Hons)(Melb)



















### Councillor

Mr Alan Schwartz, AM BEc LLB(Hons)(Mon)

### Councillor

Mr David Singleton AM, BSc(Hons) in Civil Eng(Nottingham), MEngSc in Transportation Eng(Melb), AMP(Harvard), FAICD, Hon FIEAust, NER, FTSE, MPIA

## Academic regalia discipline colours

DISCIPLINE	COLOUR
Agriculture and Horticulture	 Brunswick Green
Applied Science	 Brick Red
Arts Social Science	 Cranberry
Business	 Buff
Business Administration	 Buff/Malachite Green
Circus Arts	 New Sapphire
Design	 Marina Green
Education	 Cream
Engineering	 Saxe Blue
Entrepreneurship and Innovation	 Sky Blue
Health Science	 Cerise
Information Technology	 Tangerine
Laws	 Royal Purple
Multimedia	 Citrus
Research	 Silver Grey
Sustainability	 Heliotrope
Technology	 Royal Blue
Doctor of Philosophy	 Chili Red/Silver Grey

## Principal Officers of the University

### Vice-Chancellor and President

Professor Linda Kristjanson AO, BN, MN(Research)(Manitoba), PhD(Arizona), FAICD

### Deputy Vice-Chancellor, Academic

Professor Duncan Bentley, BA, LLB(Cape Town), LLM(London), LLM(Corp&Comm), PhD(Bond), FAAL, FCA, CTA, GAICD, Hon Fellow SAIT

### Deputy Vice-Chancellor, Pathways and Vocational Education

Mr David Coltman, BA(Otago), MEd (Hons) (Massey), MPA(VU Wellington)

### Deputy Vice-Chancellor, Research and Development

Professor Aleksandar Subic, PhD(Belgrade), FIEAust, FSAE, FIEF, CMech

### Deputy Vice-Chancellor and CEO Swinburne Sarawak

Professor John Wilson, BE(Hons)(Mon), Msc(California), PhD(Melb)

### Vice-President, Engagement

Ms Jane Ward, BA(Mon), GAICD

### Vice-President, People and Culture

Marcia Gough, BA(SUT), GradDipBus(LabourMgtRel), GradDipCounsPsych(Mon)

### Vice-President, Strategy and Innovation

Mr Richard Bolt PSM, BElecEng(SAIT, now UniSA), MPPM(Mon), GAICD, FIPAA, FIEAust, Fellow Mon

### Vice-President, Students

Dr Andrew J Smith, BSc(Hons), PhD(Melb)

### Chief Operating Officer

Mr Andrew Field, BBus(Acc)/ BBus(Comp) (RMIT), FCPA

### Pro Vice-Chancellor, Academic Innovation and Change

Professor Sarah Maddison Bsc(Hons), PhD(Mon)

### Pro Vice-Chancellor, Academic Strategy Implementation

Professor Janet Gregory, MA(Melb), MSW(LaTrobe), PdD(SUT)

### Pro Vice-Chancellor, Education and Quality and Academic Registrar

Professor Chris Pilgrim, BScEd(MCAE), GDipAppSci(CompSci), MAppSci(InfTech), PhD(SUT), GAICD, FACS

### Pro Vice-Chancellor, International

Professor Monica Kennedy, BA(Comm), MEd(Leadership), PhD (UC)

### Pro Vice-Chancellor, Graduate Research and Research Training

Professor Bernadine Van Gramberg, PhD(Mon), MSC, BSc(Hons), GDipDispRes&JudAdmin, GDiplndRel(Melb), LLB, GDipEd&Teach(VU)

### Pro Vice-Chancellor, International Research Engagement

Professor Ajay Kapoor, BTech&MTech (IIT BHU), PhD(CU)

### Pro Vice-Chancellor, Research Commercialisation

Professor Matthew Cuthbertson, PhDChem, MIntPropLaw, FTSE, FRACI, FAICD, FAIM

### Pro Vice-Chancellor, Research Performance and Development

Professor Alan Kin-Tak Lau, PhD, CPEng, CEng, RPE, FIMechE, FIMMM, FRAeS, FHKIE, FIED, FIEAust

### Pro Vice-Chancellor, Research Policy and Impact

Professor Beth Webster, BEc(Hons), MEc, PhD

### Pro Vice-Chancellor, Research Quality

Professor Qing-Long Han, PhD, BSc Meng

### Pro Vice-Chancellor, Faculty of Business and Law

Professor Michael Gilding, BA(Hons)(ANU), PhD(Mac)

### Pro Vice-Chancellor, Faculty of Health, Arts and Design

Professor Scott Thompson-Whiteside, BA(Hons), MA, PhD(Melb)

### Pro Vice-Chancellor, Faculty of Science, Engineering and Technology

Professor Hung Nguyen AM, BE(Ncle Honsl), PhD(Ncle)



# Information for guests



- Please ensure all mobile phones are turned off during the ceremony.
- In the event an emergency evacuation is announced, please follow instructions and exit the venue promptly under the directions provided.

Selamat datang ke Swinburne University of Technology Sarawak Campus. Maklumat berikut disediakan bertujuan bagi memastikan keselesaan, keselamatan dan kesejahteraan semua tetamu ketika majlis graduasi. Para tetamu diminta untuk membacanya sebelum majlis bermula.

Semua tetamu dinasihatkan untuk duduk di tempat yang telah disediakan 15 minit sebelum majlis bermula. Majlis ini dijangka akan berlangsung selama lebih kurang 90 minit.

Pengiring tetamu akan mengiringi anda ke tempat duduk tetamu dan akan membantu anda dengan sebarang maklumat, bantuan dan nasihat jika diperlukan.

Para tetamu adalah diminta untuk kekal berada di tempat duduk di sepanjang majlis sedang berlangsung. Sewaktu perarakan akademik dan juga pihak Majlis Tertinggi Universiti memasuki dewan, semua tetamu dan graduan diminta berdiri dan kekal berdiri sehingga selesai menyanyikan lagu kebangsaan.

Sepertimana kebiasaan di majlis graduasi, tepukan gemuruh adalah disyorkan apabila nama setiap graduan diumumkan. Kami amat menggalakkan agar semua tetamu dan graduan dapat mengekalkan tradisi ini.

Mohon ambil perhatian bahawa seluruh perjalanan majlis ini akan dirakam melalui video dan juga foto.

Sila pastikan semua telefon mudah alih dimatikan atau dalam mod senyap semasa majlis berlangsung.

Sekiranya berlaku pengumuman amaran kecemasan, sila keluar dari dewan dengan segera menurut arahan yang disediakan.

欢迎来到斯威本科技大学。以下信息旨在帮助各位来宾便利、安全、愉快地参加毕业典礼。在参加典礼前，请稍花时间阅读本文。

所有来宾都应当在典礼开始前 15 分钟入座。典礼全长约 90 分钟。

接待员会引领您入座，并提供相关信息、协助和建议。

典礼进行期间来宾不可离座。学校领导进入典礼会场时，来宾和毕业生需起立，直到唱国歌结束后方可就座。

本校毕业典礼的惯例为：在宣读每一位毕业生姓名时均鼓掌致意。请全体来宾和毕业生按惯例一起送上祝贺。

请注意，典礼期间会拍照并录像。

典礼期间请务必关闭手机。

若宣布紧急疏散，请遵照指示行动，按要求及时撤离会场。

සිටින්නන්ගේ සාකච්ඡා විශ්වවිද්‍යාලයේ ඔබේ සාදරයෙන් පිළිගනී. පහත සඳහන් කර ඇති තොරතුරු, උපාධි ප්‍රදානයත් සමගදී සියළුම අමුත්තන්ගේ පහසුව, ආරක්‍ෂාව සහ ආස්වාදය සහතික කිරීමට උපකාරවේ. එමනිසා, උත්සවයට පෙර මෙය කියවීම සඳහා කාලය වෙන් කර ගන්න.

සියළුම අමුත්තන් උත්සවය ඇරඹීමට මිනිත්තු 15කට පෙර අසුන්ගත යුතුය. උත්සවය අවසන් වීමට මිනිත්තු 90ක පමණ කාලයක් ගතවේ.

ආසන පෙත්වන අත විසින් ඔබට අමුත්තන් අසුන් ගන්නා ප්‍රදේශය පෙත්වන අතර අවසන් තොරතුරු උපකාර සහ උපදෙස් ඔබ හට ලබාදෙනු ඇත.

උත්සවය පවත්වන මුළු කාලය පුරාම සිය අසුන්වල රැඳී සිටින ලෙස අමුත්තන්ගෙන් ඉල්ලා සිටීමු. අධ්‍යාපනික කාර්යය මණ්ඩලය ආලෝම වෙත පැමිණෙන අවස්ථාවේ සිට ජාතික ගීය ගායනා කර අවසන් වන තෙක්, අමුත්තන් සහ උපාධිකාරීන් හට සිටියෙන් සිටින ලෙස ඉල්ලා සිටීමු.

අපගේ උපාධි ලබාදීමේ චාරිත්‍රය වන්නේ එක් එක් උපාධිකාරීන්ගේ නම කථා කරන විට ඔල්වර්ස්න් දීමටයි. සියළුම අමුත්තන් සහ උපාධිකාරීන්ව මෙම සම්ප්‍රදාය අනුව කටයුතු කරන ලෙසට අපි උනන්දු කරමු.

උත්සවය පාහැරවන සිටීම සහ විවිධයේ පවසන කිරීම කරන බව කරුණාවෙන් සටහන් කර ගන්න.

උපාධි ප්‍රදානයත් සමග අවස්ථාවේදී සියළුම පංචේ දුරකථන නිවා තිබෙන බවට වගබලා ගන්න.

හදිසියේ ආලෝමයෙන් ඉවත් කිරීමක් නිවේදනය කළ අවස්ථාවක, කරුණාකර උපදෙස් අනුව කටයුතු කරමින් ලබාදී ඇති මාර්ගෝපදේශ අනුව හැකි විගණ ස්ථානයක් පිටත්ව යන්න.

# Award recipients

This program contains the names of all graduates entitled to awards. For those graduates unable to attend in person (*names in Italic*), the awards will be made *in absentia*.

## Faculty of Business, Design and Arts

Graduates for the awards will be presented by The Pro Chancellor, The Right Honourable Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari Bin Tun Datuk Abang Haji Openg.

### Bachelor of Business (Accounting)

Aileen Ting Tze Chee  
Anita Sia Poh Kee  
Asmaa' Nabilah Binti Saudi  
Chai Chun Hui  
Chris Ting Yee Joo  
Crystal Lee Yu Lin  
Elvin Leong Koh Chyuan  
Esther Ling  
Grace Hii Sei Sei  
Jeffery Su Hui Hong  
Joey Lee Siaw May  
Jong Swee Ying  
Justin Kuek Zuo Soon  
Karen Su Kwong Ying  
Ku Chan Yen  
Lau Lik Ye  
Lau Sin Eng  
Lau Yi Ling  
Lim Yee Wen  
Ling Ing Chze  
Mathilda Jong Xiao Xuan  
Mischell Yong Siew Weau  
Mohd Hazim Bin Mohammed Kamaluddin  
Moses Hansen Anak Bujang  
*Nafezah Cornelius*  
Nelson Ryberg Lim Hock Wang  
Ng Yi Ze  
Nicole Chin Ai Joo  
Sarah Iman Binti Mohamad Jeffri  
Stella Thien Fang Chee  
Tan Sin Yee  
Teo Hui You  
Ung Su Fong

### Bachelor of Business (Accounting and Finance)

Au Keng Pun  
Chan Li Xiong  
Chua Jia Jin  
Cindy Wong Ying Ni  
David Wong Pak Nguong  
Eng Cheah Ching  
Eunice Lim Wan Qi  
Isabella Yeo Ing Hua  
Jason Lo Hong Min  
Jocelyn Liew Huan Yie  
Law Sing Lee  
Lee Yen Li  
Liew Pei Woon  
Lim Yun Khai  
Lim Wen Ling  
Lyphia Lau Yoke Tay  
Michelle Fadzai Mauwa  
Nguyen Thi Nhu Hoa  
*Pek Ping Ping*  
Rachel Bong Ching Ai  
Ronald Liew Jun Wei  
Rumbidzayi Adeline Kanyongo  
*Saleh Nasser Ali Al-Qassabi*  
Sean Vincent Francis Chapman  
Tay Chia Wee  
Tay Chia Yie  
*Usama Saleh Mahfoodh Al Qasmi*  
Venessa Chin Jia Xin  
Vong Jun Han  
William Ling Wei Jian  
Wong Kee Hie

### Bachelor of Business (Finance)

Advante Ang Tee Cjun  
Chan Poh Lee  
Chang Yee Sing  
Crystal Lee Ming  
*Lee Jiong Ing*  
Lionel Ng Voon Yoong  
Samuel Haozart Chien  
Yeo Boon Ching

### Bachelor of Business (Human Resource Management)

*Aisha Hamood Ahmed Al Hashimi*  
Cyril Chan Chie Hoi  
Dayangko Nur E'zzati Binti Pengiran Damit  
Eddie Anak Beti  
Felicia Apriani Malik  
Nur Amanina Binti Roslan  
Vanessa Ritti Anak Wat

### Bachelor of Business (International Business)

Anastar Poh Jing Wenr  
Emmanuel Ugochukwu Oguezi  
Lim Si Yong  
Nathalie Yap Wen Lin  
Nur Iman Bin Mohd Zahari  
Nur Nadzirah Binti Abdul Rased  
Shirley Stacey Anak David Atus  
Siau Chun Hau  
*Soh Cheng Da*  
Then Nye Ting  
Veronica Tan Wan Chern

### Bachelor of Business (Management)

Amir Hazmi Bin Abdul Taib  
Benjamin Wee Chek Ming  
Carmen Thian Hui Sing  
Chan Jun Cheng  
Chung Tzin Wen  
Colin Kung  
Ding Tiew Heng  
Edward Stanislaus Ho Su Fah  
Elsa Vanessa Anak Joseph Caddy  
Grace Sing Yee Sheng  
Helen Joann Leh  
Lee Jia Hung  
Mohanad Shafer Ali Mohammed  
Ngu Hie Yii  
Nikki Wong Shu Han  
Nuruzeilla Binti Izam  
Philip Sim Phie Lipp

# Award recipients

Ricky Kueh Yong Sung  
Sana Zafar  
Sim Jing Qin  
Ting Hui Hung  
Vanessa Teo Wei Wei  
Wong Bing Nan

## **Bachelor of Business (Marketing)**

*Abdul Rahman Mohammed*  
*Humaid Khalfan Al Salmi*  
*Alvin Ho Fei Hung*  
Ang Ming Hui  
*Chai Lee Lee*  
Cindy Wong Lee Ching  
Darrel Si Yew Shen  
Felix Jong Chia Wei  
Gideon Langub Pasen  
Goh Wei Wen  
Ian Wong Shauhern  
Kiing Kiu Zie  
Leong Ping Hong  
Loh Chuan Rong  
Ngu Xiang Hong  
Patrick Ho Wei Sheng  
Ting Mee Yi  
Valerie Melissa Chan Sze Siew

## **Bachelor of Design (Multimedia Design)**

Aaron Chan Ken Guan  
Ashwin Mason A/L Gnasekaran  
Caryn Liao Cai Sheun  
Cheong Kok Boon  
Ezra Quek Xian Huat  
Jocelyn Chong Sing Hui  
Lynette Kueh Yew Fung  
Pramod Devinda Perera  
Rachel Pura Anak Tanjong  
Thomas Yap Jin Ping  
Vivien Wee Yun Wen

## **Master of Arts (TESOL)**

Florence Bungan Jalong  
Hanan Afiqah Binti Hazimi  
Teo Hwee Woon

## **Master of Business Administration (International)**

Alisa Issut Anak Bisop  
Asyraf Khan Bin Asgar Khan  
Dollyrissia Lainers A/P Debra  
Elaine Tnay Koh Ching  
Irene Chang Hui Chung  
Lee Pui Kien  
Liang Yan  
Ngu Shinn Shyan  
Samuel Jong Teck Fook  
Thien Tshun Yung  
Victor Loo Khieng Han  
Wan Asraq Arif Bin Wan Ali  
Yeo Lii Kheng

## **Master of Human Resource Management**

Khairul Ridza Bin Wahed

## **Faculty of Engineering, Computing and Science**

Graduates for the awards will  
be presented by Chancellor,  
Professor John Pollaers OAM.

## **Bachelor of Computer Science**

Abner Wong Tzet Jiek  
Celina Phang Sze Jun  
Chin Ka How  
Darren Wong Siew Ding  
Frederick Ting Chiong Yeen  
Jacky Ten Yue Han  
Joseph Sim Wei Min  
Kevin Thomas Chew  
Kiren A/L Mohan Dass  
Lu Heng Tung  
Mohammad Kazi Tasnim Rahman  
Sharon Lo Ying Ying  
*Sheldon James Cameron*  
Si Kim Yeung  
*Tan Zhong Yan*  
Tharindu Niroshana Gunatilake  
Ratnayake Mudiyansele  
Timothy Chong Kah Sheng  
*Yap Feng Ling*

## **Bachelor of Information and Communication Technology**

Adrian Tay Yee Loong  
Alvin Sim Kwang Yung  
Andy Kurniawan  
*Chen Sin-Cheng*  
Desmond Lee Khong Wu  
Desmond Ting Chiong Wu  
Estee Chai Shao En  
Jeffindon Chan Ting Yue  
Marshall Mathias Wong Linwen  
*Mohammad Wasiaq Ghaznavi*  
Richmond Kueh Tzen Chiang  
Sally Yong Ming  
Steven Lau Kew Feng  
Wong Kai Chiek

# Award recipients

## **Bachelor of Science (Biotechnology)**

Brenda Chan Sze Pei  
Chai Hui Ching  
Irena Tay Hui Ling  
Jasmine Siah Wei Moong  
Joshua Chew Thian Hee  
Leong Qian Yi  
Maryanne Kuek Pei Wun  
Stephenie Poh Jie Yie  
Tay Hui Yee Zoe

## **Bachelor of Engineering (Chemical) (Honours)**

### ***with credit***

Adrian Goh Yung Shern  
Daniel Sim Hong Heng  
Darius Kon Ching Lin  
Mohamed Irsyad Bin Mohamed Iqbal  
Nur Shazwana Binti Madin @  
Shamsudin  
Ting Jia Hie  
Yii Yan Mei

### ***with distinction***

Adeline Tan Shu Ting  
Danny Voon Chyn Yng  
Jong Hui Li  
Karen Kong Gah Hie  
Melvin Wee Xin Jie  
Shirleen Lo Lee Yuen

## **Bachelor of Engineering (Civil) (Honours)**

### ***with credit***

Allan Choo Kim Chang  
Ashen Giwantha Ediriarachchi  
Bibi Nurashida Binti  
Abduhai@Suhaili  
Billy Lee Wei Xiang  
Brenda Marta Anak Indit  
Caleb Low  
Dyandra Sako Anak Derald  
Kuwang  
Elizabeth Teo Jia Ling  
Kong Wey Luek  
Ling Joo Jing  
Malcolm Ngu Ming King  
*Patrick Yeo Dong Lin*  
Rudison Anak Sering  
Rudolf Bandok Anak Gima  
Tan May Fang  
Tan Wei How  
Teo Chek Hee

### ***with distinction***

Chen See Wun  
Chew Chin  
Chong Shi Qin  
Dominic Chong Tchen Siew  
Doreen Wong Wen Lin  
Elizabeth Jane Anak Mayan  
Eric Tan Dhing Seng  
Frank Liew Min Qiang  
Kenny Chai Chun Yuan  
Kristy Lee Xin Wei  
Kuan Sze Yun  
Kueh Yang Tchien  
Leonard Anak Metaw  
Ling Joo Yi  
Penysilvia Anak Dad  
Phua Yu Wee  
Samuel Law Lik Ging  
Then Jiu Khian

### ***with high distinction***

Chew Tseng King  
Kelly Tan Hui Yee  
Kenny Hii Jun Hao  
Lim Zi Chao

## **Bachelor of Engineering (Electrical and Electronic) (Honours)**

Hazwan Bin Mahli  
*Mohammad Adnan*

### ***with credit***

Chan Jing Yang  
Mohd Ameerul Iman Bin Mohd  
Ariff  
Sharon Ling Hui

### ***with distinction***

Brandon Ung Lik Yueh  
Liew Jia Ching  
Samuel Hii Wen Yii

### ***with high distinction***

Alfred Tan Jia Yee  
Heng Kiat Jing  
Lee Hui En  
Tan Pei Joo

# Award recipients

## **Bachelor of Engineering (Mechanical) (Honours)**

Ian Chong Howin  
Jong Jiunn Jye  
Paul Bentley Nair Anak  
Francis Nair  
Vishnuraj A/L Jayaraj

### ***with credit***

Adeel Liaquat  
Byron Wong Kuok Kinh  
Chua Yi Peng  
Eric Chiew Ming Lip  
*Govind Anil Nair*  
Jacqueline Menggan Anak John  
Linggan  
Jeremy Wong Sien Yung  
Jonathan Ho Siew Kit  
Mahmoud Saleh Mahmoud  
*Patrick Brian Heraniah*  
Saad Umer Siddique  
Sudipta Das  
Tang Jun Xiang  
Timothy Goh Leong Wan  
*Tran Phoi Tien*

### ***with distinction***

Aaron Ong Shung Khai  
Bill Yii Wei Ming  
Chew Sung Shen  
Deshan Anselam Benhur  
Gregory Sung Lik Hung  
Jasper Lee Ban Joo  
Law Jen Sun  
Lim Tau Ming  
Muhammad Jahanzail Kamran  
Mundhir Hamood Saleh Al Anbouri  
Tristan Yeo Eng Kee  
Yu Chun Jie

### ***with high distinction***

Alex Liew Jia Cheng  
Christopher Tan Aik Wei  
Jasman Chai Yi Hao  
Justin Tay Chun Kai  
Phil Chan Siew Thong

## **Bachelor of Engineering (Robotics and Mechatronics) (Honours)**

### ***with credit***

Chee Ka Jiu  
Eng Wei Chiang  
Jeremy Lim Jian Yun  
Law Seng Ching

## **Master of Construction Management**

Kok Hui Ling

# Swinburne Research

Swinburne has consistently pursued a policy of ensuring quality and critical mass by investing resources in areas of research concentration. Swinburne actively encourages and values its international and industry connections which enrich and enhance the research efforts and careers of our academic staff and students alike.

Graduates listed below have each made a valuable contribution to Swinburne and their respective fields of research. Graduates for the awards from the School of Research will be presented by the Pro Chancellor, The Right Honourable Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari Bin Tun Datuk Abang Haji Openg.

## Master of Science (Research)

### Caleb Lai Chen Ee

*Thesis Title: Exploring the motivation factors and engagement methods, towards candidate selection and sustainable data collection process for RiGHT programme.*

Data collection with the target group from rural areas in Sarawak have been challenging and requires extensive resources. The thesis focuses on improving the data collection methods through innovative user engagement, online survey, social media and technological solutions. The aim is to develop a data collection solution that is more efficient, sustainable and can be easily replicated with minimal resources. It also aims to provide a motivation for the target group or participants to take part in the survey which will done at intervals of 3 months.

### Fiona Chung Yi Li

*Thesis Title: Metabolites produced by heat-tolerant endophytic fungi associated with *Nepenthes ampullaria*.*

*Nepenthes* species (commonly known as pitcher plant) can be found in Sarawak with several species endemic to the state. This plant can be divided into two groups, the highland and the lowland species. Climate change is one of the treats that are affecting the population of these plants especially the highland species as the lowland species are more adaptable to a warmer environment. This is due to the presence of endophytic fungi and their ability in producing metabolites which assist the plant's adaptation. This study can serve as a baseline study on the relationship between the endophytic fungi and *Nepenthes*.

### Vivian Lee

*Thesis Title: Evaluation of Biomarkers and Coronary Artery Calcification for Clinical Risk Stratification of Suspected Coronary Artery Disease.*

This clinical study was set out to identify biomarkers in the blood which would indicate the presence and degree of calcification in the coronary artery. Conducted with 384 Malaysian adults with suspected coronary artery disease, the study has contributed in outlining and validating the relationship between the biomarkers and coronary artery calcification as well as traditional risk factors. With a simple blood test for these biomarkers on top of routine assessment of traditional risk factors, doctors could better estimate one's risk of coronary artery disease and strategize better prevention in a timely manner.

### Wendy Ong Han Sze

*Thesis Title: Effects of indigenous beneficial microbes formulated as bio-fertilizer on the growth enhancement of tropical tree species, *Neolamarckia cadamba*.*

Chemical fertilizer is commonly applied to enhance the growth of *Neolamarckia cadamba*. However, chemical fertilizer is not user friendly to the surrounding environment. As an attempt to reduce the application of chemical fertilizer, carrier-based bio-fertilizer is introduced as an alternative fertilizer in this study. The effectiveness of biofertilizer in enhancing the growth of *Neolamarckia cadamba* seedlings were evaluated by conducting rhizopod assay, pot and field trials. Results from this study showed that dual combination of bio-fertilizer with half regime chemical fertilizer treatment had the effectiveness comparable to full regime chemical fertilizer treatment in enhancing the growth of *Neolamarckia cadamba*.

# Swinburne Research

## Doctor of Philosophy

Jing Wenlong

*Thesis Title: Dynamic Modelling, Analysis and Design of Smart Hybrid Energy Storage System for Off-grid Photovoltaic Power Systems.*

This thesis made a comprehensive study about the battery-supercapacitor hybrid energy storage systems for stand-alone photovoltaic power systems that aims to mitigate primary chemical battery operating stress by minimizing life-limiting factors such as high charging/discharging rate, fluctuating current and frequent charge-discharge transition. The results of this study demonstrate the effectiveness of extending the lifetime of the battery in such systems. The outcomes of this thesis could significantly contribute to energy researchers and industry practitioners to address the issues in rural electrification and to reduce the lead-time required in designing and implementing new hybrid energy storage solution from photovoltaic-battery power systems.

## Raj Sekar A/L Sethu

*Thesis Title: Response Surface Methodology Optimization of Back End of Line Finite Element Analysis Stress Simulation.*

The research focused on improving structural mechanics robustness of semiconductor devices through the use of simulation. Simulation prior to physical prototyping reduces wastage of manpower and material resources. This approach however, results in the need for a computational resource. The novel methodology used in this work involved the combined use of a numerical method i.e. finite element analysis and an advanced statistical method i.e. response surface methodology to overcome the shortage of computational resources. The outcome allowed computational resources to be optimized as well reducing the number of physical prototypes built.

## Tay Jia Jun

*Thesis Title: Optimization Algorithms for Ultra-Constrained Applications and Lightweight Cryptography Circuits.*

Digital circuits in the era of ubiquitous computing face challenges in the form of hardware and power constraints. This thesis proposes novel approaches to logic optimization which aim to reduce circuit area and power requirements, thereby enabling economical circuits for complex computations. In parallel, this thesis also proposes efficient architectures for popular lightweight cryptography primitives to provide hardware security in constrained applications. Collectively, this research contributes to the design and security of edge devices as part of a larger network such as the Internet of Things or similar paradigms.

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### Malaysian National Anthem

Negaraku  
Tanah tumpahnya darahku  
Rakyat hidup, bersatu dan maju  
Rahmat bahagia, Tuhan kurniakan  
Raja kita, selamat bertakhta  
Rahmat bahagia, Tuhan kurniakan  
Raja kita, selamat bertakhta

### Australian National Anthem

Australians all let us rejoice  
For we are young and free  
We've golden soil and wealth for toil  
Our home is girt by sea  
Our land abounds in nature's gifts  
Of beauty rich and rare  
In history's page, let every stage  
Advance Australia fair  
In joyful strains then let us sing  
Advance Australia fair

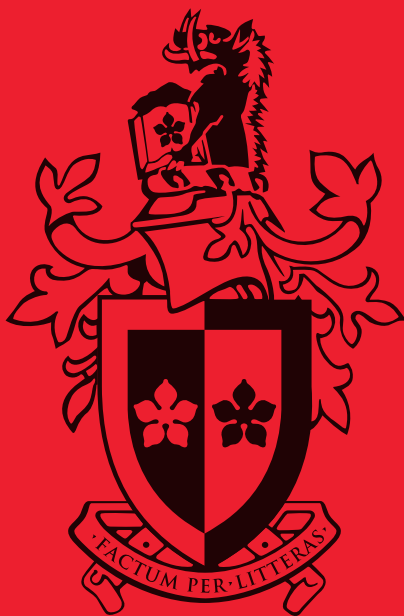
### Sarawak State Anthem

Sarawak Tanah Air Ku  
Negeriku Tanah Air Ku Sarawak  
Engkaulah Tanah Pusaka Ku  
Tanah Tumpah Darah Ku  
Ibu Pertiwi Ku  
Rakyat Hidup Mesra dan Bahagia  
Damai Muhibah Sentiasa  
Bersatu Berusaha Berbakti  
Untuk Sarawak Ku Cintai  
Sarawak Dalam Malaysia  
Aman Makmur Rahmat Tuhan  
Maha Esa  
Kekallah Sarawak Bertuah  
Teras Perjuangan Rakyat  
Berjaya Berdaulat

# Vice-Chancellor's Charge to Graduates

In conferral of your award I ask you as graduates of Swinburne University of Technology to strive to:

- practise the University's values of integrity, accountability, teamwork, innovation, sustainability and respect for diversity;
- seek positive and creative ways to engage with and serve your communities;
- remain curious and open to new learning and new experiences;
- use your knowledge, talents, skills and passion to encourage a better future for the global community.



[swinburne.edu.my](http://swinburne.edu.my)