2019

GRADUATION CEREMONIES

THE UNIVERSITY OF ADELAIDE

THE UNIVERSITY
of ADELAIDE

CHANCELLOR'S *Welcome*

On behalf of the University of Adelaide may I offer sincere congratulations to you, our new graduates.

You have joined a distinguished community of University of Adelaide alumni that spans the globe.

As a graduate of the University of Adelaide you hold a degree that is recognised and valued around the world. Our graduates have gone on to be pioneers and leaders in many fields – from science, medicine and engineering, to law, the social sciences and the performing arts. They have won Nobel Prizes, distinguished themselves in politics and the arts, and helped to improve the lives and wellbeing of countless communities.

The University of Adelaide is committed to providing an inspiring university experience and producing talented and skilled graduates. I hope that your skills and the friendships that you have made will endure throughout your life.

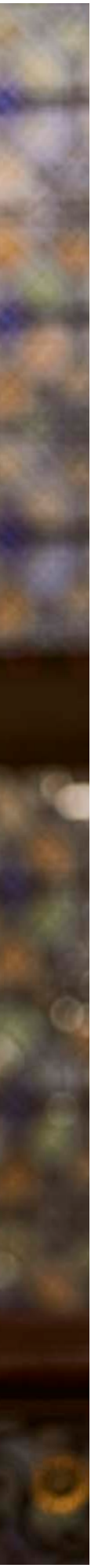
You should be proud today of your achievement in completing your studies, which is the first step on what I trust will be a satisfying and exciting career.

I would also take this opportunity, on behalf of the University, to thank those who have supported you and, in many cases, have made it possible for you to be here today.

You will always remember the University of Adelaide, and I hope you will consider it a significant part of your life, not just the past few years while studying, and not just today but forever. I encourage you to join our network of alumni and enjoy the benefits of a long association with your University.

My congratulations to you all.

Rear Admiral the Honourable Kevin Scarce
AC CSC RAN (Rtd)
Chancellor



Message from the VICE-CHANCELLOR AND PRESIDENT

Congratulations on graduating from one of Australia's leading universities.

This ceremony marks the culmination of years of study that now place you into lifelong membership of the University of Adelaide alumni – a group spread across all corners of the globe.

And you follow in the footsteps of extraordinary individuals, including some who have redefined the world as we know it, and many others who are changing their communities for the better each day. Your University of Adelaide degree will open doors to new, transformational opportunities.

Today is about celebrating your achievements with family, friends, members of staff and fellow graduates. I strongly encourage you to maintain those professional connections you have made here: many of them will stay with you for life.

Use your knowledge wisely, be bold and generous in the way you share ideas with others, and always be open to learning.

Well done: you go forward today with the warmest wishes of the University of Adelaide community.

Professor Peter Rathjen
BSc (Hons) (Adel), DPhil (Oxon), Hon DLitt (Tas)
Vice-Chancellor and President

The University of Adelaide GRADUATION TRADITIONS

ACKNOWLEDGEMENT OF COUNTRY

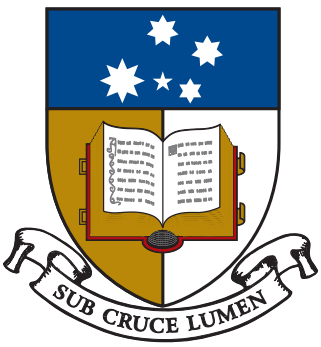
Ngadlurlu Kaurna miyurna tampinthi.
Parna yarta mathanya Wama Tarntanyaku.

University of Adelaide Kaurna yartangka yuwanthi – Tarntanyangga (North Terrace), Waitengga, Thebartonilla, Roseworthyngga kuma. (Lit. the University of Adelaide stands on Kaurna land in Adelaide (North Terrace, Waite, Thebarton and Roseworthy.)

We acknowledge the Kaurna people past and present, the original custodians of the Adelaide plains and the land on which the University of Adelaide campuses are built.

COAT OF ARMS

The University of Adelaide's coat of arms was granted to the University by the College of Arms, London, in 1925. It is the official symbol of the University and the stamp which ratifies every degree parchment bestowed by the University.



The crest or shield displays an open book and five stars; one of eight, two of seven, one of six and one of five points – representing the Southern Cross. A scroll containing the University's Latin motto sits directly below the shield; Sub Cruce Lumen, meaning 'The light (of learning) under the (Southern) Cross'.

BONYTHON HALL

Bonython Hall is the University of Adelaide's "great hall". It was built in the years of 1933-1936 using a generous donation of over £50,000 from renowned public benefactor Sir John Langdon Bonython.

Planned construction of Bonython Hall was surrounded in controversy. Colonel William Light, Surveyor-General for the City of Adelaide, had an original vision to extend Pulteney Street north towards North Adelaide. The Adelaide City Council was keen to see his plans carried out.

Following much debate, it was City Alderman and lawyer George McEwin who was able to convince the City Council of the University's master plan and evolving architectural beauty. Further, he pointed out that the City Council had no legal prerogative to construct roads on the private property of the University.

Consequently construction of the great hall began. This proved a critical juncture in the University's history - resulting in the University of Adelaide expanding to become one of the most picturesque campuses in the country today.

Today, Bonython Hall is home to all onshore graduation ceremonies and a number of official University events, including the annual Carols on Campus event in December.

ABOUT THE ORGAN

The organ in Bonython Hall was installed in 2002. Made in England to a tonal design by the leading Dutch firm Johannus Orgelbouw, it uses custom-built speakers to reproduce digital recordings of individual organ pipes with the acoustic qualities of a piped instrument. The four manual instrument is the largest of its type in Australia.

UNIVERSITY MACE

Thousands of years ago the Mace, a heavy club weighted at one end, was used as a blunt weapon in battle. In the sixteenth century the Mace came to be used more ceremonially – representing a symbol of protection of the King. Today, the Mace is celebrated as a symbol and warrant of office, particularly of royal or ecclesiastical office, and of institutions deriving authority from the Crown or Church.

The University of Adelaide Mace was designed by Mr I. Milward Grey of the School of Fine Arts, North Adelaide, and was made under his personal supervision by an Adelaide firm of silversmiths.

The Mace is 24 inches in length and is made of silver gilt throughout. Seventy-three ounces, just over 2kg, of metal was used in its manufacture. The Mace head forms an orb, representing the world, and features a book, a symbol of learning, and a design of gum leaves on matted ground. On either side of the orb, the University's Coat of Arms is featured along with the motto: *Sub Cruce Lumen*.

The University Mace was first carried by President of the Students Council, K H Boykett, at a Jubilee procession at St Peter's Cathedral in 1926, marking the 50th anniversary since classes first commenced.

The traditional role of the Mace Bearer in the University of Adelaide graduation ceremony is to protect the Chancellor, meaning the bearer of the Mace always precedes the Chancellor in the academic procession.

ACADEMIC DRESS

Academic dress, including the full-length robe, hood and classical headwear, dates back to the medieval 12th and 13th centuries in Europe when universities, as we know them today, were developing.

The regalia were originally worn daily by university scholars for reasons of warmth and to reflect their status in society. The sense of purpose and propriety evoked by formal academic dress has ensured the tradition has been preserved over the centuries.

In contemporary times, academic dress is largely reserved for graduation ceremonies and formal university events.

Gown

University of Adelaide graduates wear black gowns in the Cambridge style, with the exception of:

- Professional Doctorate and PhD candidates whose gowns are black and faced with scarlet
- Higher Doctorate and Doctor of the University candidates who wear scarlet gowns faced respectively with the colour of their discipline or ultramarine blue.

Hood

Professional Certificate and Sub-bachelor graduates do not wear a hood.

Other graduates wear a black hood that displays a colour representative of their discipline area, except that:

- Postgraduate coursework candidates wear a black hood lined in white
- Research masters wear a black hood lined in scarlet
- PhD, Higher Doctorate and Doctor of the University candidates wear a scarlet hood lined in scarlet.

Headwear

Graduates receiving a Professional Certificate, Sub-bachelor Certificate or Diploma, Bachelor, Honours, Graduate Certificate or Diploma or Masters qualification wear a black trencher cap or mortarboard.

Graduates receiving a Professional Doctorate, PhD, Higher Doctorate, Doctor of Medicine or a Doctor of the University wear a bonnet of black velvet.

Creative Arts and Architecture
Cendre Green

Business
Helvetia Blue

Engineering and related technologies
True Purple

Health Sciences
Eosin Pink

Natural and Physical Sciences
Primuline Yellow

Society, Culture and Education
Pale Violet Grey

Information for GUESTS

The following information is provided to ensure the comfort, safety and enjoyment of everyone attending the ceremony. Please take a moment to read before the ceremony commences.

GENERAL

Toilets are located at the entrance to the hall, downstairs from the foyer.

A water cooler for your use can also be found in the foyer.

Please supervise babies and young children at all times. If they are disturbing other guests, please take the opportunity to relocate to the foyer.

Please switch off or silence mobile phones for the duration of the ceremony.

APPLAUSE

Guests are invited to applaud each graduate as they are presented on stage.

PHOTOGRAPHY

Guests are welcome to take photographs during the ceremony. However, you are requested not to disrupt the ceremony by leaving your seat or using flash photography.

Professional photographers will take a photograph of each graduate as they are presented on stage. These photographs will be available immediately after the ceremony from GFP Graduations, who will be temporarily located on the Goodman Lawns.

Alternatively graduates can order their stage photos online after the ceremony.

SAFETY AND EMERGENCY

For safety reasons guests may not enter the galleries upstairs or sit on the steps in the balcony area.

Emergency exits are marked on the plan below. Please note your nearest exit.

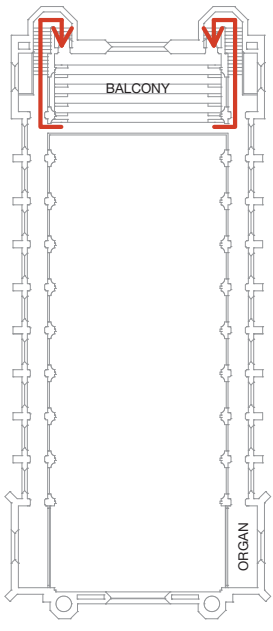
The emergency assembly point is on Goodman Lawns, west of the hall.

If it becomes necessary to evacuate Bonython Hall, an announcement will be made. Follow the directions of the Ushers, exit the hall and move to the assembly point. Guests in wheelchairs should exit the hall via the eastern entrance.

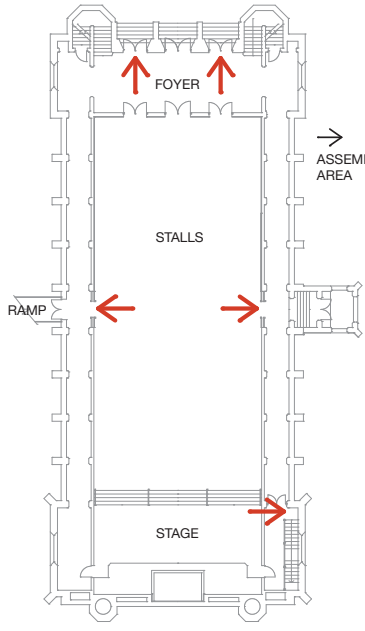
ADDITIONAL INFORMATION

Student Ushers in white shirts can provide further information and assistance.

The ceremony will last around 70 minutes.



South gallery level



Ground floor

Bonython Hall emergency exits

Order of PROCEEDINGS

Before the ceremony, music will be played on the Bonython Hall Organ by Haowei Yang (Student in the Elder Conservatorium of Music)

JS Bach: Schmücke dich, o liebe Seele and L Vierne: Carillon de Westminster

THE ACADEMIC PROCESSION *(please stand)* will enter Bonython Hall.

Trumpet Voluntary by Jeremiah Claire, arr. Iveson, performed by the Elder Conservatorium Brass Ensemble.

- Marshals
- Doctorates in all Faculties/Schools
- Heads of Affiliated Colleges
- Academic and Graduate Staff
- Executive Deans and Heads of Schools
- Senior University Officials
- The Valedictorian
- The Orator
- The Provost and Deputy Vice-Chancellor (Research)
- The Mace Bearer
- The Chancellor

THE NATIONAL ANTHEM to be sung by
Charlotte Kelso DipA, BA/BMus(Clas).

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.

Guests to be seated

WELCOME BY THE CHANCELLOR
Rear Admiral the Honourable Kevin Scarce AC CSC RAN (Rtd)

THE OCCASIONAL ADDRESS to be given by
The Right Honourable the Lord Mayor Ms Sandy Verschoor

THE MACE BEARER THANKS THE ORATOR
Mr Charlie Weidner will thank the orator

CERTIFICATION STATEMENT by the
Provost and Deputy Vice-Chancellor (Research)
Professor Mike Brooks FTSE FACS

PRESENTATION OF AWARDS by Faculty/School

VALEDICTORY ADDRESS given by Mr Thomas Edward Dalby

CLOSING REMARKS given by the Rear Admiral
the Honourable Kevin Scarce AC CSC RAN (Rtd)

THE ACADEMIC RECESSION *(please stand)* The academy will leave Bonython Hall in reverse order to that of entry, followed by the new graduates. During the recession, the organist will play
CM Widor: Toccata from Symphony No. 6.

Guests are requested to remain standing while the procession is leaving Bonython Hall.

Presentation of AWARDS

Faculty of

ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

Presented by the Executive Dean of the Faculty of Engineering, Computer and Mathematical Sciences, Professor Anton Middelberg BE (Hons), PhD, MA, FIChemE, FTSE

To the Degree of Bachelor of Mathematical and Computer Sciences

Adam Christopher Bartlett — Computer Science

Joel Xian-Yang Chan — Computer Science

Adam Leith Davidson — Computer Science

Nikita Elagin — Computer Science

Matthew Colin Forrest — Computer Science

Christopher Guzik — Computer Science

Ngoc Tuong Tran Ha — Computer Science

Jayden Robert Inglis — Mathematical Sciences

Ross Karafoulidis — Applied Mathematics and Statistics

Hui Lok Lam — Computer Science

Jennifer Lim — Computer Science

Katie Anna Mortimer — Mathematical Sciences

Saxon Aaron Nelson-Milton — Computer Science

Long Ngoc Hoang Pham — Computer Science

Matthew Alan Potter — Computer Science

Anthony John Scaffidi — Computer Science

Vidar Rodahl Son — Computer Science

Lucas Valenta — Computer Science

Qingyun Wang — Computer Science

To the Degree of Bachelor of Engineering with Honours

Sarina Kathryn Barsby — Chemical - Minerals Processing

Samuel Lindsay Halliday — Mechanical Engineering

To the Honours Degree of Bachelor of Engineering

Jed Thomas Abanat — Mechatronic Engineering

Xavier William McDonald Agnew — Mechanical and Aerospace Engineering

Abeer Ahmed — Mechanical Engineering

Haziq Ahmed — Petroleum Engineering and Chemical Engineering

Vikram Ahuja — Mechanical and Aerospace Engineering

Alexander William Albanesi — Mechanical Engineering

Blake Lachlan Anderson — Petroleum Engineering and Mechanical Engineering

Stuart Luke Anderson Stanford — Mechanical Engineering

Marcus John James Andreucci — Mechanical and Aerospace Engineering

Anh Ngoc Trang Le — Chemical and Pharmaceutical Engineering

Allan Annich — Petroleum and Mining Engineering

Daniel James Antony — Mechanical Engineering

Deni Deniel Arevalo — Petroleum Engineering

Nicholas Kerr Ash — Mechanical and Aerospace Engineering

Craig Alexander Atkinson — Mechanical Engineering

Christopher George Babadimas — Petroleum Engineering and Civil and Structural Engineering

Douglas Francis Sidney Baker — Mechatronic Engineering

Petros Kyriacou Bakopoulos — Mechanical Engineering

Adam Christopher Bartlett — Mechatronic Engineering

Xiaopeng Bi — Mechanical Engineering

Harry James Billington — Mechanical Engineering

Benjamin Travis Bleckly — Mechanical Engineering

Christopher George Boras — Petroleum Engineering and Civil and Structural Engineering

Tom Brereton — Mechanical and Aerospace Engineering

Joshua Nicholas Buss — Mechanical and Aerospace Engineering

Yegor Butenko — Mechanical Engineering

Michael Jose Camacho — Mechanical Engineering

Harry James Carpenter — Mechanical Engineering

Nicholas Caruso — Chemical Engineering

Joel Xian-Yang Chan — Mechatronic Engineering

Kim Fu Chan — Mechanical Engineering

Tsz Kit Chan — Mechanical and Aerospace Engineering

Christopher Chen — Petroleum Engineering and Chemical Engineering

Derrik Soon Hao Chew — Mechanical Engineering

Edward Joseph Cronin — Mechanical and Aerospace Engineering

Adrian David Cubelic ..... Chemical Engineering

Ieva Ziggy Daenke ..... Mechanical and Sustainable Energy Engineering

Kyle David Daish ..... Mechanical Engineering

Thomas Edward Dalby ..... Mechanical and Aerospace Engineering

Lachlan Richard Dalzell ..... Mechanical Engineering

Daniel Ang Jin Tung ..... Mechanical Engineering

Adam Leith Davidson ..... Mechatronic Engineering

Matthew Nicolas De Palma ..... Mechanical Engineering

Joshua Gan Dempster ..... Mechatronic Engineering

Sam DeSantis ..... Mechanical and Sustainable Energy Engineering

Michael James Devitt ..... Mechanical and Sports Engineering

Karan Dhar ..... Mechanical and Sports Engineering

Joshua Dierickx ..... Mechanical and Aerospace Engineering

Edward James Dunstan ..... Mechanical Engineering

Andrew Vangelis Dzodzos ..... Mechanical Engineering

Andrew Francis Edwards ..... Mechanical Engineering

Nikita Elagin ..... Mechanical and Aerospace Engineering

Ross Gordon Ellery ..... Chemical - Minerals Processing

Timothy Michael Karl Engel ..... Mechanical and Aerospace Engineering

Benjamin Thomas Eustance-Smith ..... Petroleum Engineering and Civil and Structural Engineering

Claudio Gioffredi Fabbian ..... Mechatronic Engineering

Wen Fan ..... Mechanical Engineering

Xuecong Feng ..... Mechanical and Aerospace Engineering

Rachelle May Ferber ..... Mechanical and Aerospace Engineering

Ridge Christopher Lee Floquet ..... Mechanical and Sustainable Energy Engineering

Benjamin Andrew Floyd ..... Mechanical and Aerospace Engineering

Matthew Colin Forrest ..... Mechatronic Engineering

Vincenzo Sebastiano Franco ..... Chemical - Minerals Processing

Sijia Fu ..... Chemical - Sustainable Energy

Justin Peter Fullgrabe ..... Mechanical Engineering

Nicholas Daniel Gaggini ..... Mechanical and Aerospace Engineering

Albert George ..... Mechanical and Aerospace Engineering

Matt Stephen Gibson ..... Petroleum Engineering and Chemical Engineering

Lionel Johnson Goveas ..... Chemical Engineering

James Samuel Gray ..... Mechanical and Aerospace Engineering

Christian Guido ..... Mechanical Engineering

Christopher Guzik ..... Mechanical Engineering

Ngoc Tuong Tran Ha ..... Mechanical Engineering

James William Hart ..... Mechanical Engineering

Luke Thomas Heffernan ..... Mechanical Engineering

Seng Hong Heng ..... Chemical Engineering

Tyler John Hill ..... Petroleum Engineering and Civil and Structural Engineering

Gareth Yeung Sum Ho ..... Petroleum and Mining Engineering

Andrew Peter Hojem ..... Mechanical and Sustainable Energy Engineering

Zachary James Holmes ..... Mechanical and Aerospace Engineering

Damian Luke Holoubek ..... Mechatronic Engineering

Henry James Secen Hondros ..... Mechatronic Engineering

Matthew Robert Howe ..... Mechatronic Engineering

Haocheng Huang ..... Mechanical Engineering

Danika Anne Hunt ..... Mechanical and Sports Engineering

Jayden Robert Inglis ..... Mechanical and Aerospace Engineering

Benjamin John Lipert James ..... Mechanical and Sustainable Energy Engineering

Brett Harrison Jenkin ..... Petroleum Engineering and Mechanical Engineering

Milan Cornell Jiranek ..... Mechanical Engineering

Allan Jose ..... Chemical Engineering

Yaofeng Ju ..... Mechanical Engineering

Scott Edmund Jucius ..... Mechanical Engineering

Steven Kakogianis ..... Mechanical and Aerospace Engineering

Ross Karafoulidis ..... Chemical Engineering

Photi Karagiannis ..... Mechanical and Aerospace Engineering

Krystal Kennedy ..... Chemical Engineering

Mohammad Hassan Khan ..... Mechanical Engineering

Rachael Anne Killian ..... Mechanical and Sports Engineering

Dylan Johannes Korver — Petroleum Engineering and Civil and Structural Engineering

Tak Yam Ku — Chemical and Pharmaceutical Engineering

Hui Lok Lam — Chemical Engineering

Le Hoang Nhat Nguyen — Chemical and Pharmaceutical Engineering

Jovanne Jia Ying Lee — Petroleum Engineering and Civil and Structural Engineering

Ver-Non Lee — Mechanical and Sustainable Energy Engineering

Aidan Leith — Mechanical Engineering

Dana Jayne Leslie — Chemical - Minerals Processing

Jack Samuel Lewis — Mechanical and Aerospace Engineering

Nan Li — Mechanical and Sustainable Energy Engineering

Sing Wing Michael Li — Mechanical and Aerospace Engineering

Jennifer Lim — Mechatronic Engineering

Nicholas Dean Litchfield — Mechanical and Sports Engineering

Jiayuan Liu — Mechanical Engineering

Mingming Liu — Petroleum Engineering

Nicole Denise Loveridge — Chemical Engineering

Harry Conor Lucas — Mechatronic Engineering

Xintong Ma — Mechanical Engineering

Raeanne Marize Macalincag — Chemical and Pharmaceutical Engineering

Antonio Manocchio — Petroleum Engineering and Mechanical Engineering

Joshua Luke Margetts — Mechanical and Aerospace Engineering

Jacob Kurt Marschall — Mechanical Engineering

Harry Matsouliadis — Mechanical Engineering

Liam Paul McHugh — Mechanical and Aerospace Engineering

James Boyd McKechnie — Mechanical and Sports Engineering

Caleb Thomas McMahon — Mechanical Engineering

Tate-Narija Milner — Mechanical and Sustainable Energy Engineering

Jasper Danielle Mojiun — Mechanical Engineering

Ned Gilfillan Morcom — Mechanical and Aerospace Engineering

Katie Anna Mortimer — Mechanical and Aerospace Engineering

Hernan David Murillo Quintana — Mechanical and Sustainable Energy Engineering

Margarette Navaja — Chemical and Pharmaceutical Engineering

Montana Nelligan — Mechanical and Aerospace Engineering

Saxon Aaron Nelson-Milton — Mechanical and Aerospace Engineering

Ng Zhi Jian — Mechanical and Sustainable Energy Engineering

Le Dai Phuoc Nguyen — Chemical and Pharmaceutical Engineering

Pham Duy Tan Nguyen — Petroleum Engineering

Phuc Hoang Nguyen — Petroleum Engineering

Phuc Tri Nguyen — Chemical Engineering

Hayden Eric Niscioli — Mechanical Engineering

Ai June Ong — Mechanical Engineering

Ashlee Jane Othen — Mechanical Engineering

Natasha Kimie Othman — Mechanical and Aerospace Engineering

Jonty Paterson — Mechanical and Aerospace Engineering

Thomas Naime Petrie — Chemical and Pharmaceutical Engineering

Long Ngoc Hoang Pham — Mechatronic Engineering

The Anh Pham — Chemical and Pharmaceutical Engineering

Tu Anh Pham — Chemical and and Pharmaceutical Engineering

Rhys Phillips — Chemical - Sustainable Energy

Arjit Phogat — Petroleum Engineering

Sheridan Krista Poland — Mechanical Engineering

Matthew Alan Potter — Chemical Engineering

Harry James Prosser — Mechanical Engineering

Douglas Brinkworth Proud — Mechanical and Sustainable Energy Engineering

Tsz Yin Kenny Pun — Mechanical and Aerospace Engineering

Jack James Ralph — Chemical Engineering

Mohan Ramasamy — Chemical Engineering

Nicholas Kosta Rendoulis — Petroleum Engineering and Mechanical Engineering

Sebastian Dennis Roache — Mechanical and Aerospace Engineering

Sara Louise Roder — Mechanical and Sustainable Energy Engineering

Matthew John Rolfe ..... Chemical Engineering

Dylan Rombouts ..... Mechatronic Engineering

Rainsey Ros ..... Mechanical and Aerospace Engineering

Marcus Rosella ..... Chemical Engineering

Alexander James Roy ..... Mechanical Engineering

Anthony John Scaffidi ..... Mechatronic Engineering

Aidan Patrick Scanlon ..... Mechanical Engineering

Alex Taylor Edward Searle ..... Petroleum Engineering and Mechanical Engineering

Xiaolin Shang ..... Chemical Engineering

Everest Bikram Shrestha ..... Mechanical Engineering

Shi Han Siah ..... Mechanical Engineering

James Martin Sinickas ..... Mechanical and Sustainable Energy Engineering

Matthew James Smith ..... Mechanical Engineering

Andrew Smulders ..... Mechanical Engineering

William Robert Snook ..... Mechanical Engineering

Zhao Jie Soh ..... Mechanical Engineering

Vidar Rodahl Son ..... Mechanical and Aerospace Engineering

Dylan Storti ..... Mechanical Engineering

Hamish Rutherford Straatman ..... Petroleum Engineering and Mechanical Engineering

Jack Svetlichny ..... Mechanical Engineering

Adam James Swan ..... Mechatronic Engineering

Abeneezer Leulseged Tadesse ..... Chemical Engineering

Xing Yu Tan ..... Chemical Engineering

Tang Yi Hang ..... Chemical and Pharmaceutical Engineering

Yining Tang ..... Mechanical and Sports Engineering

Harrison Taylor ..... Chemical - Minerals Processing

Lawrence Rhys Taylor-Bonham ..... Mechanical and Sustainable Energy Engineering

Darcy Thompson-Bagshaw ..... Mechanical and Sports Engineering

Sam Robert Randing Thornton ..... Mechatronic Engineering

Heng Zheng Ting ..... Petroleum Engineering and Mechanical Engineering

My Na To ..... Chemical and Pharmaceutical Engineering

Andrew Dzungluc Tran ..... Mechanical Engineering

Mai Quynh Tran ..... Chemical Engineering

Ewan Truong ..... Chemical Engineering

Dao Hanh Ly Tu ..... Petroleum Engineering

Aaron Tan Yi Xing Uthaia Kumaran ..... Petroleum Engineering

Lucas Valenta ..... Mechanical and Aerospace Engineering

Kane Daniel Edward Valente ..... Mechatronic Engineering

Van Le Hoang ..... Chemical and Pharmaceutical Engineering

David Vincekovic ..... Mechanical and Aerospace Engineering

Thomas James Waddington ..... Chemical Engineering

Emily Jane Walker ..... Petroleum Engineering and Chemical Engineering

Fan Wang ..... Petroleum Engineering

Qingyun Wang ..... Mechanical and Aerospace Engineering

Yingyan Wang ..... Petroleum Engineering

Zibing Wang ..... Chemical Engineering

Samuel Peter Warmerdam ..... Mechanical and Sustainable Energy Engineering

Nathan Slade Wassom ..... Mechanical and Aerospace Engineering

Hugh Alexander Lloyd Watson ..... Mechanical Engineering

Charlie Weidner ..... Chemical Engineering

Ryan White ..... Chemical Engineering

Aaron Wibawa ..... Chemical Engineering

Wilson Wan Yong Xin ..... Petroleum Engineering

Yu Jun Wong ..... Petroleum Engineering

Michael David Wood ..... Chemical Engineering

Deqin Wu ..... Mechanical Engineering

Jiahui Wu ..... Mechanical and Aerospace Engineering

Yun Wu ..... Petroleum Engineering

Zixin Xu ..... Mechanical Engineering

Yue Yin ..... Mechanical Engineering

Muhammad Iskandar Yusri ..... Chemical Engineering

Xingjian Zhang ..... Mechanical Engineering

Pengpeng Zheng ..... Mechanical Engineering

Xiaowei Zhou ..... Petroleum Engineering

Yu Zhou ..... Petroleum Engineering and Chemical Engineering

Amy Zhu ..... Mechatronic Engineering

To the Honours Degree of Bachelor of Engineering and Bachelor of Science

William Timothy Rylatt ..... Petroleum Engineering and Geology and Geophysics

Joshua Philip Syme ..... Petroleum Engineering and Geology and Geophysics

Connor Thomas Verrall ..... Petroleum Engineering and Geology and Geophysics

Joshua Zak Wheeler ..... Petroleum Engineering and Geology and Geophysics

To the Honours Degree of Bachelor of Engineering and Bachelor of Arts

Isaac Thomas Brett Hutchins ..... Mechatronic Engineering

To the Graduate Certificate in Marine Engineering

Richard Alexander Craig

Anna Lam

To the Degree of Master of Science (Petroleum Geoscience)

Musaab Shakir Aziz Al Sarmi

To the Degree of Master of Petroleum Engineering

Anoop Inavolu

To the Degree of Master of Engineering (Mechanical)

Mustafa Husain Amiruddeen

Erdenebaatar Baasandorj

Balu Babu

Gaddam Rajesh

Ronnies Tom Jesty

Ruipeng Li

Defrittus Tharakan

Eshana Sandalu Wijesinghe

Kaijun Yang

Jordan Mark Yeomans

Lei Zhang

Qiran Zhang

To the Degree of Master of Engineering (Mechatronic)

Yiming He

To the Degree of Master of Engineering (Chemical)

Arjun Anto

Xinyuan Hu

Atta Ahmad Hussain

Xianlong Li

Qian Sun

Moran Zhang

Jiajia Zhong

To the Degree of Master of Engineering (Aerospace)

Jibin Jeffrey Dhanaraj

Nandini

To the Degree of Master of Philosophy

Hao Thanh Luong

For a thesis entitled: Development of advanced mathematical models for analysis of hydraulic channel fracturing technique

Thesis abstract: The channel fracturing technique allows the discontinuous placement of proppant and creates a network of interconnected open channels, which can significantly increase the fluid conductivity of the fracture. The main objective of this thesis is to develop advanced analytical models to investigate and optimise the efficacy of the channel fracturing technique under different conditions of confining stress, proppant placement pattern, also taking into account the mechanical behaviour of the rock formation and proppant packs. The practical outcomes of the thesis, in particular, provide a practical guidance for design of hydraulic fracturing stimulations, which are of a great interest for industry.

To the Degree of Doctor of Philosophy

Dr Cristobal Andres Albarracin Gonzalez

For a thesis entitled: Trailing Edge Noise Prediction Using a RANS-based Statistical Method (RSNM)

Thesis abstract: This thesis presents a RANS-based prediction method for airfoil trailing edge noise. The method requires a model for the velocity cross-spectrum. A model is proposed based on extensive boundary layer measurements using hot wire anemometry. Cross-spectrum models taken from the literature are also evaluated. The method is applied to a NACA-0012, a DU-96-180 and a FP12 airfoil, for a range of operating conditions. The method predicts the correct spectral shape and levels of the radiated noise for the NACA 0012 and the DU-96180 airfoils in the frequencies where broadband trailing edge noise dominates, but performs poorly for the FP12.

Dr Quang Cong Doan

For a thesis entitled: Seawater Systems for Sustainable Development: Evaluation of a Marine Microalgal Strain as Biomass Feedstock for Hypersaline Bioethanol Production

Thesis abstract: The potential of microalgal biomass as a feedstock for bioethanol fermentation has been widely considered alongside the mix of other bioenergy streams. Use of marine microalgae from seawater systems provides greater sustainability at the scale required for biofuels to circumvent reliance on fresh water, but will present processing challenges associated with fermentation of hypersaline biomass.

The main objectives of this project sought to identify suitable carbohydrate substrates from microalgal biomass produced in seawater for microbial conversion to ethanol, and to investigate a halotolerant microorganism with the ability to assimilate and produce ethanol from minimally pretreated hypersaline microalgal biomass.

Dr Lewis Dunnigan

For a thesis entitled: Emissions from the Co-Generation of Biochar and Bioenergy with Agricultural By-Products

Thesis abstract: The utilization of agricultural by-products for the co-production of biochar and bioenergy can both sequester carbon effectively and provide additional agricultural benefits. The pyrolysis temperature and biomass composition, however, strongly influence the balance between biochar production (yield and quality) and energy production (composition and higher heating value of the volatiles).

Using a laboratory-scale combined pyrolysis and combustion process, raw pyrolysis volatiles were produced at varying temperatures (400 - 800 degrees celsius) from agricultural by-products and combusted. The influence of temperature and biomass composition on the PM, gaseous (H2S, SO2, and NOx), and PM-bound polycyclic aromatic hydrocarbon emissions was evaluated.

Dr Foo Kae Ken

For a thesis entitled: Soot evolution in acoustically forced laminar non-premixed jet flames

Thesis abstract: This thesis describes a combined experimental and computational study on the interaction of acoustic forcing with laminar non-premixed flames. A variety of laser-based diagnostic techniques were used to characterise the flames. The numerical study offered additional insights into the fluid-chemistry interactions.

Results show that the extent of soot enhancement decreases as the forcing frequency shifts away from its natural flickering frequency. Additionally, it increases with the fuel flow modulation amplitude, but there is a limit to it. Furthermore, the scale of the toroidal vortex is influenced by the nozzle diameter, which in turn affects the flame chemistry and soot evolution.

Dr David Scott Haydon

For a thesis entitled: Optimisation of the Rugby Wheelchair for Performance

Thesis abstract: Optimising individual set-ups in wheelchair rugby is currently limited due to the difficulties in monitoring propulsion measures and on-court performance factors, with current approaches relying on player and coach experience. This research developed detailed analysis methods of individual propulsion approaches and utilised inertial measurement units to improve measurement of on-court performance. Implementing robust design approaches and propulsion modelling reduced the associated testing time while determining the effect of various set-up parameters for individuals. This resulted in configurations that improved performance of elite Australian players and greater understanding of configuration effects on propulsion and performance in wheelchair rugby.

Dr Shervin Kabiri

For a thesis entitled: Application of graphene based composites in agriculture

Thesis abstract: The main challenge faced by agriculture research is to produce high quantity and quality food to feed growing world population. Fertilizers are an essential component of productive agricultural systems, but their use efficiency is low due to their losses to the environment. Therefore, improving fertilizer use efficiency is a global goal and new engineering approaches are needed to design more effective nutrient delivery systems to crops and to minimize their harmful effects to the environment. This PhD is one of the pioneering study on GNbased materials application in agriculture with focus on addressing some of critical problems related to fertilizers.

Dr Ka Lok Lee

For a thesis entitled: The Influence of Wind on the Heat Losses from Solar Cavity Receivers

Thesis abstract: This thesis describes both experimental and numerical investigation into the effects of wind conditions, cavity's temperatures, orientations and geometry on the heat losses from a heated cavity.

Results show that heat losses increase with temperature. The effects of the tilt angle, yaw angle, aperture ratio and aspect ratio on the convective heat losses are coupled with the wind speed. Heat losses from a heated cavity are dependent on the Richardson number. For low inverse of Richardson number, the temperature distribution of the cavity also have a strong influence on the heat loss mechanism.

Dr Amy Rebecca Lewis

For a thesis entitled: Performance Benefits of Customised Seating Interfaces for Elite Wheelchair Racing Athletes

Thesis abstract: Assistive technology can provide an efficient transition between the commercially available equipment and unique athlete anthropometry. This research investigated the performance impact of customised seating interfaces on wheelchair racing propulsion technique, which was quantified with the development of practically viable instrumentation solutions and a subject-specific musculoskeletal model. Customised seating interfaces reduce the undesirable movement relative to the seat, which was reflected in performance, with an average performance time reduction of 3.7% race time. Peak pressures were also reduced at the seating interface. The computational modelling approaches utilised in this research can positively impact performance outcome and equipment optimisation.

Dr Zhao Joe Lu

For a thesis entitled: Application of Rotating Fluidized Bed to Solar Gasification

Thesis abstract: This thesis reports a combination of numerical modelling and experimental investigations on the application of Rotating Fluidized Bed (RFB) to solar gasification with the aim of identifying and assessing the potential benefits of the Rotating Fluidized Bed Receiver (RFBR) concept. Numerical modelling results show that the RFBR could effectively control the feedstock particle gasification conversion, residence time within the receiver and deposition on the receiver window through adjustment of the bed rotational speed and fluidizing gas velocity. The experimental results confirm the RFBR's ability to operate at low rotational speed and achieve desirable fluidization characteristics for solar gasification.

Dr Eshodarar Manickam Sureshkumar

For a thesis entitled: Harnessing Hydro-kinetic Energy from Wake-Induced Vibration (WIV) of Bluff bodies

Thesis abstract: This thesis investigates the harnessing of hydro-kinetic energy using wake-induced vibration of bluff bodies. Analysis was performed using water channel experiments, numerical modelling and particle image velocimetry. The results indicate that a semi-circular cylinder is more efficient than a circular cylinder in harnessing temporally concentrated energy in the wake compared due to production of stronger vortices. It is shown that a properly positioned cylinder in the wake of an upstream one in a staggered arrangement is able to provide an efficiency of 49% when the optimum mass and damping ratios are used.

Dr Warrick Alan Miller

For a thesis entitled: Reaction Control Jet Actuators for Air-Breathing Hypersonic Vehicles

Thesis abstract: Air-breathing hypersonic vehicles tend to be unstable, and have complex dynamics, requiring high frequency control. This thesis considers the application of reaction control jet actuators to air-breathing hypersonic vehicles. Jet actuators produce an interaction force in addition to the jet thrust. This interaction was investigated using implicit large-eddy simulation. Steady and pulsed jets were considered in a Mach 5 crossflow over a flat plate with a laminar in-flow boundary layer. The results provide an increased understanding of unsteady and time-averaged jet interaction flow physics, and show that jet control can improve vehicle dynamics across a range of flight conditions.

Dr Ryan David Quarrington

For a thesis entitled: Towards Understanding the Injury Mechanics and Clinical Outcomes of Traumatic Subaxial Cervical Facet Dislocation and Fracture-Dislocation

Thesis abstract: This thesis aimed to investigate the epidemiology, clinical outcomes, and injury mechanisms of traumatic subaxial cervical facet dislocation (CFD) and fracture-dislocation (CFD+Fx). A medical-record review identified that these injuries commonly occur due to motor-vehicle accidents in younger adults, and falls in the elderly; the C6/C7 level was most commonly involved. Cadaver cervical facet strains and deflections were larger during simulated anterior shear than flexion (motions traditionally associated with CFD), and increased when non-destructive intervertebral motions were superimposed with axial compression. Constrained anterior shear with superimposed axial compression or distraction produced bilateral CFD+Fx in cadaveric cervical motion segments.

Dr Mohammad Ziaur Rahman

For a thesis entitled: Photocatalytic Solar Energy Conversion on Metal-free Semiconductors

Thesis abstract: Solar fuel is anticipated to be a primary source of renewable energy in the post-fossil-fuels era.

Metal-free photocatalysts are highly desirable for low-cost and sustainable solar fuel production from water. This thesis has focused on the design, charactetrizations and applications of a new series of carbon nitrides and phosphorene based metal-free photocatalyts for solar hydrogen production from water. The outcome of this thesis is therefore highly important for further advancing the research on metal-free photocatalysts for industrial applications.

Dr Mahyar Silakhori

For a thesis entitled: Application of Chemical Looping for Solar Thermal Energy Storage

Thesis abstract: This thesis investigates the potential of metal oxides in both solid and liquid states for thermal energy storage using detailed thermodynamic assessments and validating laboratory-scale experiments. Results show that the reduction and oxidation reactions in solid state can occur by pressure-swing technique. In liquid state, it was demonstrated that using chemical looping technique, copper oxide can store and release thermal energy in the form of sensible, latent and chemical energy. It was found that the first law efficiency of the liquid chemical looping of copper oxide can reach 50% at a temperature of 1700C for a system with after-burner.

Dr Anton Silvestri

For a thesis entitled: The attenuation of sweep events within the turbulent boundary layer over a flat plate using a micro-cavity array

Thesis abstract: This thesis describes an experimental investigation into the effects of a micro-cavity array on the attenuation of sweep events.

It was found that micro-cavities decrease the intensity of sweep events. This effect is dependent on the Reynolds number and the geometric dimensions of the micro-cavity array. Results showed that for an optimal effect the orifice diameter must be equal to a value approximately 60 times the viscous length scale. The volume of the backing cavity was also shown to be very important, where the maximum reduction in turbulence generation occurred when the backing volume was as large as possible.

Additional AWARDS

Faculty of ARTS

To the Diploma in Languages

Blake Lachlan Anderson

Edward Joseph Cronin

Jovanne Jia Ying Lee

To the Degree of Bachelor of Arts

Lawrence Rhys Taylor-Bonham ..... Spanish

Faculty of THE PROFESSIONS

ADELAIDE BUSINESS SCHOOL

To the Degree of Bachelor of Finance

Stuart Luke Anderson Stanford

Petros Kyriacou Bakopoulos

Michael Jose Camacho

Nicholas Caruso

Andrew Vangelis Dzodzos

Milan Cornell Jiranek

Krystal Kennedy

Jacob Kurt Marschall

Ashlee Jane Othen

Jack Svetlichny

Ewan Truong

Thomas James Waddington

Faculty of SCIENCES

To the Degree of Bachelor of Science (Biotechnology)

Michael David Wood ..... Biochemistry

To the Degree of Bachelor of Science

Benjamin Travis Bleckly ..... Experimental and Theoretical Physics

Adrian David Cubelic ..... Chemistry double major

Luke Thomas Heffernan ..... Experimental and Theoretical Physics

Nicole Denise Loveridge ..... Chemistry and Mathematical Sciences

Harry James Prosser ..... Experimental and Theoretical Physics

Charlie Weidner ..... Chemistry double major

THE UNIVERSITY MEDAL

Presented by the Provost and Deputy Vice-Chancellor (Research), Professor Mike Brooks FTSE FACS

Heng Zheng Ting

Jayden Robert Inglis

Charlie Weidner

Your ALUMNI COMMUNITY

As a graduate of the University of Adelaide, we welcome you to the alumni community.

Our alumni have a history of shared experiences and memories, understood by those who came before you, those who studied with you and those who will soon join the alumni community.

As part of the University family, you receive professional support throughout your career, access to lifelong learning and a community to share and celebrate your achievements.

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Alumni Networks help alumni connect with each other and the University with opportunities for career development and collaboration. Continue your connection and interaction with other alumni and the University by attending one of our alumni network events. Find out about upcoming network events: ua.edu.au/alumni/networks

PUBLICATIONS

We offer a range of diverse and informative publications to keep you informed of the latest news and events across the University.

Enjoy reading our biannual magazine lumen for uplifting stories of the work and lives of alumni, and stay updated with the latest University news in our monthly Alumni e-News. Read the latest edition of lumen at ua.edu.au/alumni/lumen

REUNIONS

Alumni Reunions provide the opportunity for all alumni – students and staff alike – to revisit the people and places that made their time at the University of Adelaide unique. Find an upcoming reunion at ua.edu.au/alumni/reunions

ALUMNI COUNCIL

As an alumnus, you have the right to vote or nominate members for the Alumni Council which represents the global alumni community's views. The Alumni Council commits to supporting a dynamic and relevant alumni program, for the mutual benefit of alumni and the University.

AWARDS

Our alumni's influence on the world stage is profound, from their efforts advancing the common good to inspiring others to think innovatively and creatively. We are proud to celebrate and acknowledge these achievements each year through an array of alumni awards.

MAKE A DIFFERENCE

A gift to the University directly supports students and researchers in realising their potential. Student scholarships are a priority, so that our best and brightest will not miss out on the transformative influence of a tertiary education because of their financial circumstances. Contributions towards cutting-edge, high-impact research ensure that we can tackle the most challenging problems of our time.

We value support in all forms, no matter how big or small. Your gift will have a lasting impact.

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The University of Adelaide is passionately invested in addressing some of the world's grandest challenges and committed to delivering research outcomes that contribute to local, national and global wellbeing.

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