

6 February 2017

MEDIA RELEASE

STUDENTS DESIGN FUTURE SOLUTIONS HSC and Tertiary showcases at the Powerhouse Museum

Discover innovative projects from 2016 HSC graduates that will shape the future of Australian design at **Shape 2016**, opening at the Powerhouse Museum on **24 February**.

Director of the Museum of Applied Arts & Sciences, Dolla Merrillees said “Jobs of the future are predicted to rely heavily on science, technology, engineering, arts and mathematics (STEAM) skills so it is encouraging to see such exemplary student creations in these areas.”

“Showcasing student work in STEAM is a core commitment for the Museum following the recent launch of the MAAS Centre for STEAM, which delivers a range of STEAM based initiatives that improve the accessibility, quality and creativity of learning opportunities for teachers, parents and the young people themselves.”

Among the 36 innovative student works on display in **Shape 2016** are a universal coffee pod recycling tool, a hand-held peak flow meter for young children with asthma, a 1950s inspired overcoat and hat, and a stop-motion romantic comedy.

These outstanding student works have been selected from three related subject areas: Design and Technology, Industrial Technology, and Textiles and Design. These three Technology subjects share an approach to design thinking, innovation and creativity through the use of appropriate tools and technologies. Innovation and consideration and use of emerging technology is an overarching theme within these subjects.

Top tertiary fashion designs will also be on display at the Powerhouse Museum from 27 March in **Student Fashion** as part of the MAAS Centre for Fashion program.

Four outstanding NSW fashion graduates will showcase their designs in **Student Fashion**. Meredith Bullen from University of Technology Sydney, Erin Pritchett from Whitehouse Institute of Design, Ann Xiao from Fashion Design Studio TAFE Ultimo campus and Laura Davis from Raffles College of Design and Commerce will each have two designs on display alongside documentation of their design process.

Shape 2016 24 February – 7 May 2017

Student Fashion 27 March – 18 October 2017

Powerhouse Museum, 500 Harris Street, Ultimo

Admission: Free with general admission: \$15 adult, \$8 concession, kids under 16 years free

Bookings: (02) 9217 0111 www.maas.museum

Shape 2016 will be accompanied by seminars for year 11 and 12 students. Students will view *Shape 2016* hear from and engage with industry professionals, learn about sustainability and production and take part in a digital learning experiences related to their course. Admission: \$34 per student

Year 12 seminars: Monday, 27 February to Friday, 3 March 2017

Year 11 seminars: Monday, 13 March to Friday, 17 March 2017

Shape 2016 has been developed by NSW Education Standards Authority in association with the Museum of Applied Arts and Sciences (MAAS). *Shape* is one of NESA's eight HSC showcases that celebrate excellence across Creative Arts and Technology subjects in the HSC. The other showcases are: ARTEXPRESS, Texstyle, InTECH, OnStage, Callback, Encore and WordeXpress. In addition to *Shape*, **Texstyle**, at The Stitches and Craft Show 2 to 5 March 2017, features 20 Textiles and Design major projects; and **InTECH** at the **Sydney Timber and Working with Wood Show** 23 to 25 June 2017, features over 50 Industrial Technology projects.

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About the Museum of Applied Arts and Sciences

The Powerhouse Museum, alongside Sydney Observatory and the Museums Discovery Centre, is part of the Museum of Applied Arts and Sciences (MAAS), Australia's contemporary museum for excellence and innovation in applied arts and sciences. The Museum of Applied Arts and Sciences has a vast and diverse collection of over 500,000 objects.

About the MAAS Centre for STEAM

In a rapidly changing world, science and arts literacy can empower society by providing the skills needed to excel in the 21st Century, to make informed decisions and to meet the demands of tomorrow's world. In collaboration with industry leaders, educators, researchers, students and the public, the MAAS Centre for STEAM presents exhibitions, engaging learning programs, dynamic public events and scholarly inquiry.

About The Centre for Fashion

The MAAS Centre for Fashion is Australia's first public centre for fashion excellence, giving unrivalled access to arguably the largest public fashion collection in Australia. Working closely with local, national and international designers, and industry and tertiary partners the initiative will foster creative excellence, scholarly inquiry and public curiosity through exhibitions, interactive events, fellowships, designer residences, publications, acquisitions, programs and research.

About NESA

NESA replaced the Board of Studies, Teaching and Education Standards (BOSTES) on 1 January 2017.

Background on Shape

38 major projects by Design and Technology, Textiles and Design and Industrial Technology students, including:

- 13 Industrial Technology projects from 215 high achievers nominated from a total of 5699 students.
- 11 Textiles and Design projects from 40 high achievers nominated from a total of 1523 students.
- 14 Design and Technology projects from 176 high achievers nominated from a total of 3245 students.

Shape 2016 case studies

Design and Technology

Claire Metcalfe's major design project for Design and Technology focussed on the design and development of **handheld peak flow meter** for young children with asthma (where there appeared to be no suitable device). Claire identified a need and set about designing a digital meter that would not only produce peak flow readings and record the data, but also employ a playful on-screen character to reassure the user the instrument had successfully recorded their breath flow, then connect via WiFi to an application of the parent's smartphone, to notify them and upload the data. Data is also logged within the app and accumulations of readings can be used to display patient trends. Finally, housing this device within a compact, ergonomic and playful form provides child asthma patients with a purpose built and friendly solution to Australia's most widespread chronic health problem.

Textiles and Design

From the Textiles and Design stream came Jodie Hui's **1950s overcoat and hat**. Influenced by the 1950s fashion and hats designed by Phoebe Philo, a Paris-born UK fashion designer with a flair for the cool, laidback and vintage tone, Jodie's major textile project exhibits a restrained and talented revival of a classic.

Jodie's coat and hat do not overwhelm, they sit neatly within an existing vocabulary of fashion forms, yet there are concealed details in this revival. Neat pleats inside the pockets welcome the wearer's hands. The length and fall of the weighty wool is well handled by the simple shape with a high single button and a straight line. The hat is embellished with a button to echo the coat's buttons and is elegantly formed by alternating panels of pleated, gathered and plain wool.

Industrial Technology

Within the Industrial technology subject student Claire Rogers' chose to specialise in multimedia technologies producing a 'claymation', or stop-motion film using plasticine, titled **Penguin Love**. Claire's film demonstrates a mature understanding of narrative devices. Drawing on the romantic comedy genre, and applying rough and ready contemporary animation styling, the viewer is taken on a roller coaster ride of emotions. This student shows extraordinary skill in the crafting and pacing of their work.

Finally, Charles Cartmer's **coffee pod cutter** offers a sustainable solution to those pesky portion controlled coffee pods, which are presently unrecyclable due to the combination of plastic, aluminium and coffee grounds. Charles's cutter separates these elements so that the aluminium and plastic can go into recycling bins and you can throw the coffee on the compost. After many iterations Charles's final design is an ergonomic tool that safely removes the components and then uses the button top with scoop to remove the grounds. Charles has made this device a universal coffee pod cutter with interchangeable sections

Shape 2016 projects

Student	School	Project	HSC subject
Monica Carollo	Santa Sabina College	Music Lights	Design and Technology
Charles Cartmer	Marcellin College	Coffee Pod Cutter	Design and Technology
Lachlan Channell	St Augustine's College Sydney	Revolutionary Arm Cast	Design and Technology
Yvonne Cheung	Cheltenham Girls High School	Façade	Design and Technology
Dorcas Ka Wai Chu	Cheltenham Girls High School	Medicine Dispenser for Children	Design and Technology
Brock Cooper	St Gregory's College Campbelltown	TBIN (Rubbish Bin Rotator)	Design & Technology
Bailey Graham	Bishop Tyrrell Anglican College	Wireless Power Shutdown	Design & Technology
Vaughan Griffin	Georges River College Oatley Senior Campus	Biomass Pyrolysis Unit	Design & Technology
Rebecca Jones	Smiths Hill High School	Aqua Aid	Design & Technology
Elise Maree Kench	Crestwood High School	Lock it and Drive	Design & Technology
Timothy Lutton	Albury High School	H2 Snow	Design & Technology
Claire Maree Metcalfe	Claire Maree Metcalfe	BlueyCheck	Design & Technology
Jordan Rajek	Cranbrook School	SandGuard	Design & Technology
Elly Catherine Williams	Caringbah High School	Jigsaw Customisable Fashion Eyewear Range	Design & Technology
James Gum Wing He	Killara High School	Oasis	Industrial Technology
Timothy Lachlan Hughes	Northern Beaches Secondary College Freshwater Senior Campus	Reading Chair	Industrial Technology
Timothy Jacobs	Patrician Brothers' College Fairfield	Krenov Cabinet	Industrial Technology
Damon Lemke	Blue Hills College	Hollow body, arched top guitar	Industrial Technology
Alessandrio Lettieri	Freeman Catholic College	Wall-e Model	Industrial Technology
Jordan Lorenzatto	St Mary's Cathedral College	KTM RC Motorbike	Industrial Technology

Finn Malcolm McCullagh	The King's School	Wooden Bicycle and Picnic Box	Industrial Technology
Claire Lorraine Rogers	MLC School	Penguin Love	Industrial Technology
Catherine Mary Sant	Crestwood High School	Cart Designs Promotional Webiste, Posters and TShirts	Industrial Technology
Caitlin Scarlett	Heathcote High School	Lord's Reef Resort	Industrial Technology
Emely Young	St Francis De Sales Regional College	Macklemore's "Downtown" Animation	Industrial Technology
Bridget Grace Baskerville	Kandos High School	Down The Rabbit Hole	Textiles
Azia Carothers	Northern Beaches Secondary College Freshwater Senior Campus	Moths, Logs and Leaves	Textiles
Yasmine Lepouris Cipolla	Queenwood School for Girls	La Dolce Vita	Textiles
Jodie Hui	North Sydney Girls High School	1950s Overcoat & Hat	Textiles
Mindy Moe	Kinross Wolaroi School	The Black Raven	Textiles
Zara Olsen	SCECGS Redlands	Palette	Textiles
Georgia Perivolaris	Presbyterian Ladies' College Sydney	Contemporary apparel threepiece Set	Textiles
Caitlin Amy Redford	Elizabeth Macarthur High School	Very Hungry Caterpillar Textile Art	Textiles
Joanna Zhao	Pymble Ladies' College	Sakuru	Textiles
Meagan Watson	Gosford High School	Enchanted Ball Gown and Bolero	Textiles