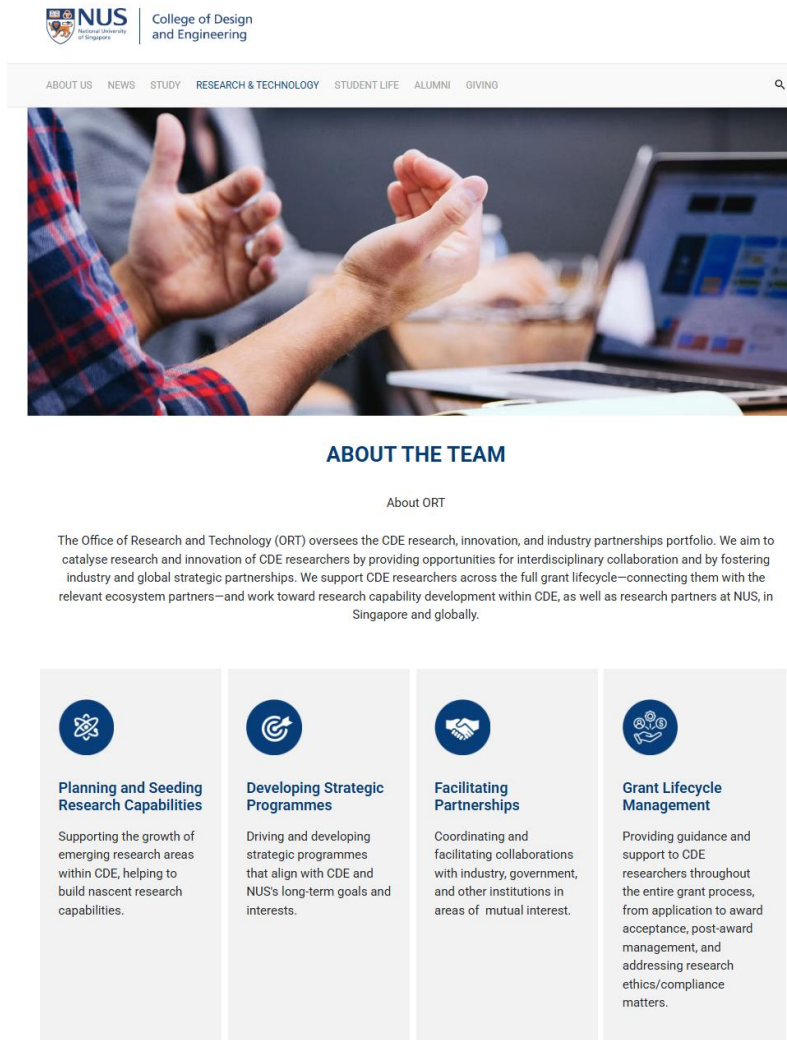


Publication of CDE Innovation Day & Industry Day Website for CDE Vice-Dean's Approval



Our Team



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 College of Design and Engineering

ABOUT US | NEWS | STUDY | RESEARCH & TECHNOLOGY | STUDENT LIFE | ALUMNI | GIVING

An InNovUS@CDE Series

INNOVATION DAY 2024

Discover Tomorrow's Unicorns



25 October 2024

9.00 am to 1.30 pm
LT7A, Block EA
College of Design and Engineering NUS

REGISTER NOW



[Home](#)[Challenges](#)[The Innovus Journey](#)[FAQs](#)

INNOVATION DAY 2024

College of Design and Engineering, NUS (CDE) warmly invites you to the **CDE Innovation Day 2024: Discover Tomorrow's Unicorns**. Join us for a day filled with visionary ideas and disruptive solutions poised to shape the future.

CDE Innovation Day is the culmination of Innovus@CDE, a series of workshops and challenges designed to ignite innovation and entrepreneurship among our students. The event's highlight - finalists competing in the **Eureka** and **Impact Accelerator** pitch competitions, showcasing the next wave of student-led startups.

What to Expect:

- Visionary Keynotes:** Hear from two groundbreaking founder CEOs.
- Dynamic Startups Pitches:** 8 exciting student-led startups spanning AI, robotics, construction tech, and more. Eureka finalists will compete for three S\$10k prizes, while Impact Accelerator finalists will compete for S\$100k top prize.
- Audience Choice Award:** Cast your vote for the most promising startup and be part of the decision.
- Innovative Exhibits:** Explore 20 booths featuring cutting-edge innovations and enterprise-focused initiatives.
- Lucky Draws:** Students and Staff attending have a chance to win exclusive prizes at 9.25 am and 1.00 pm (registration required).
 - 1st prize: 11-inch iPad Pro WiFi 256GB
 - 2nd Prize: Oculus Meta Quest 3
 - 3rd Prize: SUNLU Terminator 3 T3 3D Printer Kit

[Register now to secure your spot.](#) We look forward to seeing you there!

Limited seats available. Breakfast and lunch provided.

 NUS
National University of Singapore

College of Design and Engineering

CDE
Industry Day
2025

Bridging Academia and Industry for Global Impact

26 September 2025
Friday, 9am – 2pm

LT7A @ EA, College of Design and Engineering

Event Schedule

08:00

Registration / Breakfast

09:00

Start of Programme

09:05

Welcome Speech
Prof Teo Kie Leong, CDE Dean

09:10

Designing the Future Together: CDE and Industry Partnerships for Global Impact
Prof Silvija Gradecak-Garaj, Vice Dean (Research and Technology), CDE

09:20

MOU Signing Ceremony

09:50

Interval

09:55

Micron's NAND Strategy: Building Global Impact from a Small Nation
Mr. Subramanian Krishnan, Corporate Vice President, NAND Technology Integration Micron Technology

10:25

Sustainability: Lessons from Academia for the Industry
Mr. Tan Sze Hann, Director, ESG Strategy, Fund Management, Keppel Ltd

10:55

Interval

11:00

Panel Discussion: Positioning Singapore as a Tech and Talent Development Hub for Global Impact

12:00

Networking Lunch / Exhibition

14:10

Optional: Selected Lab Tours
(Prior registration required)

Speakers

Keynote Speaker, Panellist



Subramanian Krishnan

Corporate Vice President, NAND Technology Integration Micron Technology

Keynote Speaker, Panellist



Tan Sze Hann

Director, ESG Strategy, Fund Management Keppel Ltd

Panellist



Cecilia Laschi

Professor's Chair Professor, National University of Singapore

Moderator



Yeo Yee Chia

Deputy Chief Executive, Agency for Science, Technology, and Research

Scan to Register



Samlimjiajun@gmail.com

+65 96252565

PROGRAMME

Time	Activity
9.00 am	Registration & Breakfast
9.25 am	Lucky Draw
9.30 am	Welcome Address by Professor Teo Kie Leong, Dean, College of Design and Engineering
9.40 am	Keynote Address by Mr Teo Swee Ann, Founder and CEO, Espressif Systems
10.10 am	Pitch it Out: Eureka
11.10 am	Pitch it Out: Impact Accelerator
11.40 am	Big Spark Address by Dr Viknish Krishnan-Kutty, Founder and CEO, Cellivate Technologies
12.10 pm	Prize-Giving Ceremony
12.20 pm	Lunch & Exhibition
1.00 pm	Lucky Draw & Audience Choice Award
1.30 pm	End

KEYNOTE SPEAKERS



Mr Teo Swee Ann

Founder and CEO
Espressif Systems

*Self-made multi-millionaire
Forbes' 50 richest Singaporeans in 2021
IoT market leader (over 1 billion chips shipped)*



Dr Viknish Krishnan-Kutty

Founder and CEO
Cellivate Technologies

*Winner of GNA 'The Big Spark 2024'
Won \$4.15 million in potential funding*

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THE INNOVUS JOURNEY

Open to all NUS students and alumni of classes 2021-2024, workshops and programmes were curated to impart tools, skillsets and knowledge crucial for entrepreneurial success.

Over six months, two Innovation challenges were launched. After vigorous rounds of selection, eight teams emerged as the finalists. They will pitch it out for the top prize of S\$100k in funding.



InnoAWARE@CDE

On 12 April 2024, Innovus@CDE kicked off with the first event of the series, InnoAWARE@CDE. Participants were able to hear from the founders of CDE start-up Cityscapes. The founders shared the challenges they faced in getting their start-up off the ground and gave the participants advice on how to avoid the pitfalls they may encounter in their own start-up journey. View the gallery for a re-cap of the event!



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INNOVATION CHALLENGES



Meet the Teams



Meet the Teams



+ Click to learn more about Glucodet



+ Click to learn more about Underwater Builder



+ Click to learn more about Creo.Works



+ Click to learn more about Scan2BIM



+ Click to learn more about Digital Fashion



+ Click to learn more about IncyTech



+ Click to learn more about Safelatch



+ Click to learn more about Chingu

Meet The Judges



A/Prof Khoo Eng Tat
Assistant Dean
College of Design and Engineering



Mr Alvin Ng
Partner & Director
Fanghuar VC



Mr David Sher
Deputy Director
A*STAR Innovation & Enterprise



Mr Neelash Bhatia
Senior Associate Director
NUS Enterprise

[Back to Top](#)

EXHIBITORS

CDE Startups



Discover how we turn food waste into delicious, sustainable products that nourish both people and the planet. Through innovative food tech, we upcycle spent grains and coffee grounds into nutritious baked goods. Key Showcase - PT/Intern Opportunities + Food Sampling.

Innovation and Enterprise Programme Offerings



Innovation Day Finalists



[Click here to learn more about our finalists](#)

THE INNOVUS JOURNEY

Open to all NUS students and alumni of classes 2021-2024, workshops and programmes were curated to impart tools, skillsets and knowledge crucial for entrepreneurial success.

Over six months, two innovation challenges were launched. After vigorous rounds of selection, eight teams emerged as the finalists. They will pitch out for the top prize of S\$100k in funding.



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Frequently Asked Questions

1. What is Innovus@CDE?	+
2. What is the purpose of the innovation and entrepreneurship programme for CDE students?	+
3. What are the innovation challenges? How can I submit my idea for the challenge?	+
4. When is the deadline for the challenge registration?	+
5. Who is eligible to participate in the innovation challenges?	+
6. What are the criteria for participation?	+
7. Can I participate in the programme as an individual or do I need to form a team?	+
8. Can I still participate in the programme if I have limited knowledge or experience in entrepreneurship or innovation?	+
9. What are the prizes for the challenges?	+
10. What is the kick off event and when will it take place? Can I attend the kick off event even if I am unsure about participating in the programme?	+
11. What are the workshops? How will they help in the innovation process and challenges?	+
12. Are the workshops mandatory or can I choose which ones to attend?	+
13. How will the finalists for the challenges be selected? Will there be specific criteria for evaluation?	+
14. What is Innovation Day? What can I expect?	+
15. Can I attend Innovation Day even if I am not a finalist?	+
16. How can participants stay updated on programme announcements and events?	+

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If you have any burning questions, [contact us!](#)

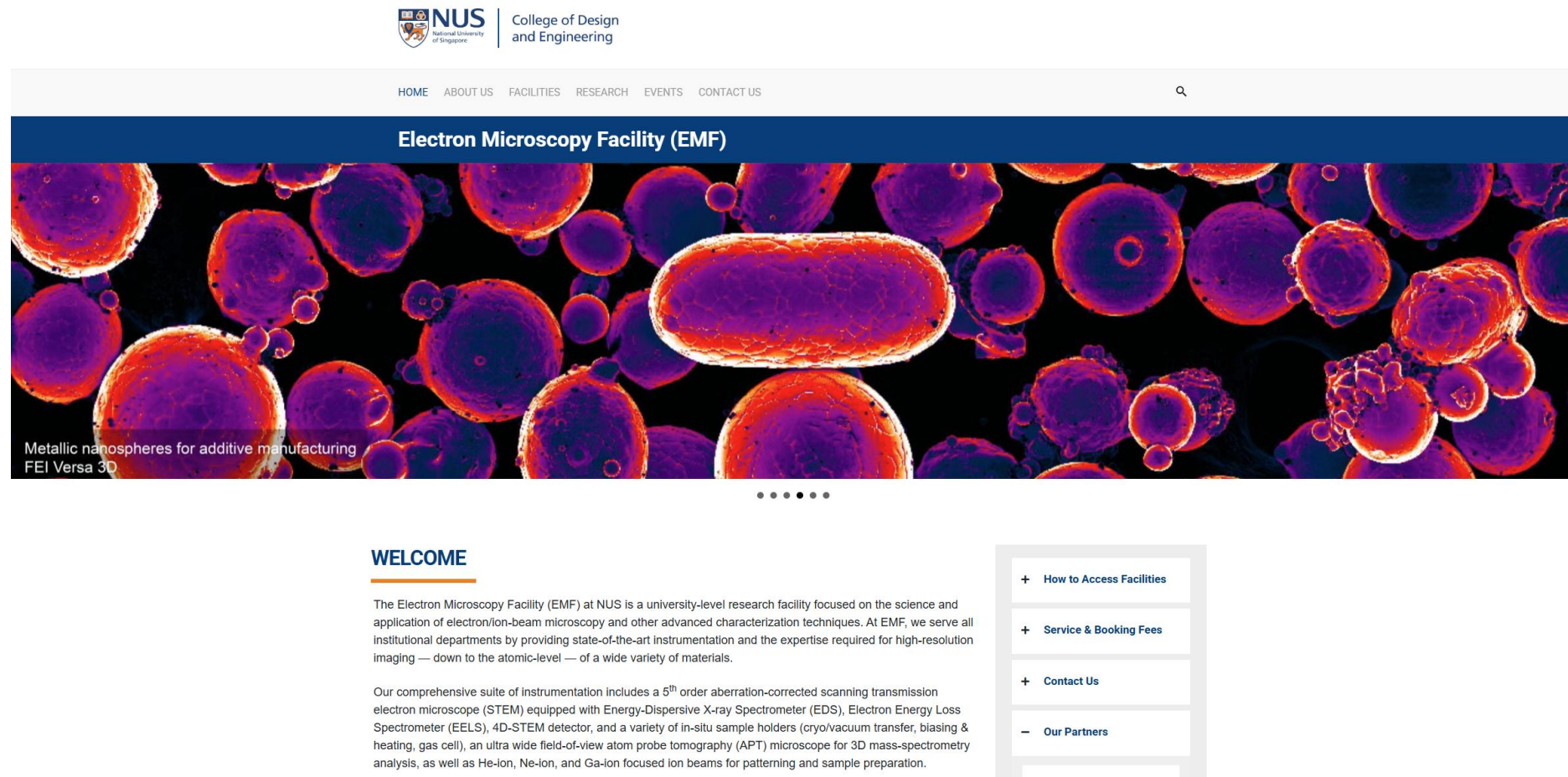


IN PARTNERSHIP WITH



NUS
Enterprise

Conceptualisation, Design, Execution of new Research Centre (Electron Microscopy Facility) from Scratch



WELCOME

The Electron Microscopy Facility (EMF) at NUS is a university-level research facility focused on the science and application of electron/ion-beam microscopy and other advanced characterization techniques. At EMF, we serve all institutional departments by providing state-of-the-art instrumentation and the expertise required for high-resolution imaging — down to the atomic-level — of a wide variety of materials.

Our comprehensive suite of instrumentation includes a 5th order aberration-corrected scanning transmission electron microscope (STEM) equipped with Energy-Dispersive X-ray Spectrometer (EDS), Electron Energy Loss Spectrometer (EELS), 4D-STEM detector, and a variety of in-situ sample holders (cryo/vacuum transfer, biasing & heating, gas cell), an ultra wide field-of-view atom probe tomography (APT) microscope for 3D mass-spectrometry analysis, as well as He-ion, Ne-ion, and Ga-ion focused ion beams for patterning and sample preparation.

EVENTS AND NEWS



Installation of new SEM

8 October 2025

A new JEOL JSM-IT800SHL SEM has been installed in MSE! This system comes equipped with an ultra large area EDS detector for efficient elemental spectroscopy, as well as a RAITH nanolithography system.

• • • • •

+ [How to Access Facilities](#)

+ [Service & Booking Fees](#)

+ [Contact Us](#)

— [Our Partners](#)



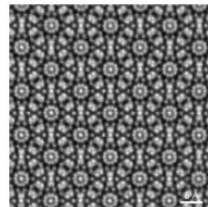
NUS light and electron
microscopy shared facility

FACILITY FOR ANALYSIS
F.A.C.T.S
CHARACTERISATION
TESTING SIMULATION

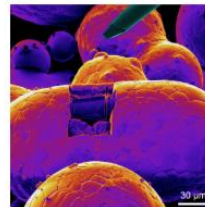
NTU EM and X-ray shared facility

STATE-OF-THE-ART EQUIPMENT

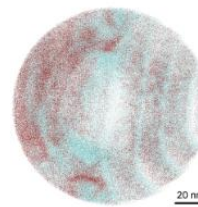
S/TEM



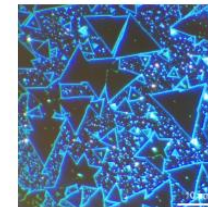
FIB/SEM



APT



AUXILIARY





College of Design
and Engineering

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Electron Microscopy Facility (EMF)

Atom Probe Tomography

Large Field-of-view APT

CAMECA Invivo 6000

The Invivo 6000 is a next-generation atom probe microscope for three-dimensional chemical analysis at near-atomic resolution. It combines laser- and voltage-pulsed field evaporation with a high-efficiency detection system to deliver quantitative 3D compositional mapping with ppm-level sensitivity. With its ultra-wide field of view and high acquisition rates, the Invivo 6000 is particularly well suited for high-throughput analysis of nanoscale heterogeneities in most advanced material systems including modern alloys and semiconductor devices.

- Counter electrode concept
- Laser pulsing mode with 257.5 nm deep UV dual laser
- Double einzel lens with high mass resolving power
- Ultra-wide field-of-view: >200 nm
- Chemical sensitivity: ~5 ppm
- Acquisition rates and yields: >1 million ions/min
- Near-atomic spatial resolution

Location: E7-01

Jonathan Setyadjil
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PUBLICATIONS



Identifying Luminescent Boron Vacancies in h-BN Generated Using Controlled He⁺ Ion Irradiation



Large Electromechanical Response in a Polycrystalline Alkali-Deficient (K,Na)NbO₃ Thin Film on Silicon



Ferromagnetic Single-Atom Spin Catalyst for Boosting Water Splitting



Atomic Origins of Enhanced Ferroelectricity in Nanocolumnar PbTiO₂/PbO Composite Thin Films



Gate-Tunable Bound Exciton Manifolds in Monolayers MoSe₂



Atomic-Scale Characterization of Extended Defects in Wurtzite GaN Heterostructures



Single Atomic Defect Conductivity for Selective Dilute Impurity Imaging in 2D Semiconductors

Homepage

Electron Microscopy Facility (EMF)
College of Design and Engineering, NUS
E7 Building Level 1
Singapore 119276



Electron Microscopy Facility (EMF)

Focused Ion Beam Microscopes

Ga⁺ Sample Preparation FIB

FEI Helios 450S Dual Beam

The FEI Helios 450S FIB is a dual beam Ga⁺ ion & electron microscope with high-resolution topographical imaging and patterning capabilities. The electron beam is primarily used for surface characterization, while the ion beam is used for top-down fabrication tasks such as TEM lamella preparation, cross-section failure analysis, and nanoscale surface modification. The stability of the low voltage ion beam and chamber cleaning attachments reduces contamination and amorphization vital for S/TEM analysis.

- Field-emission electron gun
- LMIS: Ga ion beam (0.2–30 kV) / Tomahawk ion column
- Spatial resolution: 0.9 nm (SEM), 4.5 nm (FIB)
- In-lens and ETD SE detector
- STEM detector
- Pt & C gas injection systems
- OmniProbe manipulator
- Plasma cleaner / cold trap

Location: E4-02-05

Chung JingYang
jy.chung@nus.edu.sg



Ga⁺ Large-chamber FIB

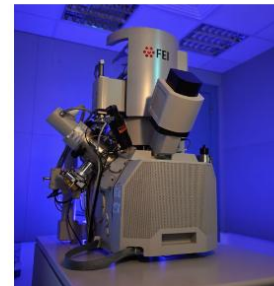
FEI Versa 3D Dual Beam

The Versa 3D DualBeam FEG FIB-SEM combines a focused Ga ion beam with a high-resolution field-emission electron gun. Owing to a large chamber allowing up to 6" industry wafers with full rotation, the Versa 3D provides enhanced 2D and 3D materials characterization and analysis for a wide range of material science and industry-related samples. This FIB is particularly useful as a high-throughput microscope for APT sample preparation.

- Field-emission electron gun
- LMIS: Ga ion beam (0.5–30 kV) / Sidewinder ion column
- Spatial resolution: 1.2 nm (SEM)
- ETD SE detector
- Pt & C gas injection systems
- EasyLift manipulator
- 150 mm maximum sample size

Location: E4-02-05

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NUS Invizo 6000 Atom Probe Tomography Facility Opening & Inaugural Symposium



Date : **January 29th, 2026** Time : **1000 - 1700** Venue : **NUS, E7 Level 3**

We are pleased to invite you to the official inauguration of the **NUS Atom Probe Tomography Facility**, the first of its kind in the ASEAN region, and among the first installations worldwide to feature the state-of-the-art **Invizo 6000** system.

The event features invited talks, a facility tour, and a networking session with researchers and industry partners to advance nanometrology and materials characterization efforts in the region.

Keynote speakers:



Prof. Kazuhiro Hono
President
National Institute of Materials
Science, Japan



Prof. Simon P. Ringer
Pro-Vice-Chancellor
University of Sydney, Australia



Robert Ulfing
Senior APT Applications &
Business Developer
CAMECA, USA

Invited speakers:



Prof. Hung-Wei Yen
NTU, Taiwan



Prof. Sophie Primig
UNSW Sydney, Australia



Dr. Yeoh Wai Kong
IME A*STAR, Singapore



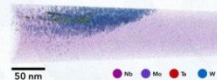
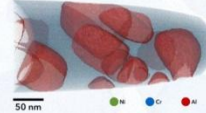
Prof. Daria Andreeva
NUS, Singapore



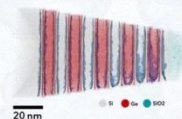
Dr. Ng Feng Lin
Zeiss, Singapore

Explore how the Invizo 6000 atom probe enables 3D, near atomic-scale chemical analysis of different materials:

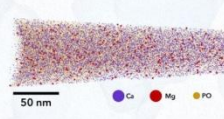
Metals & Alloys:



Semiconductors:



Bioceramics:



Register:



forms.office.com/r/nua5w8T3aV

Program:



sites.google.com/view/nusapt-symposium

*Lunch and refreshment provided

Hosted by:



Tan Xipeng
NUS, Singapore

Sponsored by:





ABOUT THE TEAM

About ORT

The Office of Research and Technology (ORT) oversees the CDE research, innovation, and industry partnerships portfolio. We aim to catalyse research and innovation of CDE researchers by providing opportunities for interdisciplinary collaboration and by fostering industry and global strategic partnerships. We support CDE researchers across the full grant lifecycle—connecting them with the relevant ecosystem partners—and work toward research capability development within CDE, as well as research partners at NUS, in Singapore and globally.



Planning and Seeding Research Capabilities

Supporting the growth of emerging research areas within CDE, helping to build nascent research capabilities.



Developing Strategic Programmes

Driving and developing strategic programmes that align with CDE and NUS's long-term goals and interests.



Facilitating Partnerships

Coordinating and facilitating collaborations with industry, government, and other institutions in areas of mutual interest.



Grant Lifecycle Management

Providing guidance and support to CDE researchers throughout the entire grant process, from application to award acceptance, post-award management, and addressing research ethics/compliance matters.



Electron Microscopy Facility (EMF)

Transmission Electron Microscopes

Aberration-corrected Analytical S/TEM

JEOL JEM-ARM200F

The JEM-ARM200F is a 200kV cold field-emission, probe-corrected transmission electron microscope with a STEM resolution of 0.078 nm and TEM resolution of 0.1 nm. It also has an energy-dispersive X-ray detector and dual energy loss spectrometers that can form elemental maps at atomic resolution, and a fast CMOS camera. With its probe aberration corrector and ultra-high-resolution pole-piece it is particularly suited to STEM imaging and analysis.

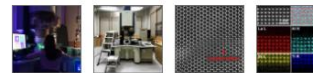
- Cold field-emission gun
- CEOS ASCOR aberration corrector
- UHR pole piece
- Spatial resolution: 78 pm (STEM)
- Energy resolution: 0.3 eV

Detectors

TEM/HRTEM	Gatan One-View CMOS, Orius SC200D
STEM	JEOL HAADF/LAADF/BF
4D STEM	Quantum Detectors MerlinEM
EDS	Oxford X-MaXN 100TLE SDD
EELS	Gatan GIF Quantum energy filters

Location: E7-01

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High-throughput Analytical S/TEM

JEOL JEM-2800

The JEM-2800 is an advanced workhorse 200 kV transmission electron microscope with a Schottky-type field emission electron source. This multi-purpose S/TEM employs a user-friendly, high-stability operating system for high-resolution imaging in TEM (including diffraction modes) and STEM (imaging and EDS). Equipped with a TMP vacuum system, the JEM-2800 is particularly suited for fast screening of multiple samples.

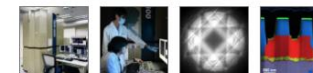
- Schottky-type electron gun
- Highly stable eucentric side-entry goniometer stage
- TMP vacuum system
- Spatial resolution: 0.1 nm (TEM), 0.2 nm (STEM)

Detectors

TEM/HRTEM	Gatan Rio CMOS
STEM	JEOL ADF/BF
EDS	JEOL SDD

Location: E7-01

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msef@nus.edu.sg



Electron Microscopy Facility (EMF)

APT INAUGURAL SYMPOSIUM | JANUARY 2026

SE Asia's first atom probe tomography was formally inaugurated in NUS EMF on January 29th, 2026. We would like to thank all speakers and attendees, as well as Prof. Tan and his group for organizing the event to showcase the advanced capabilities of the Invivo 6000!





College of Design
and Engineering

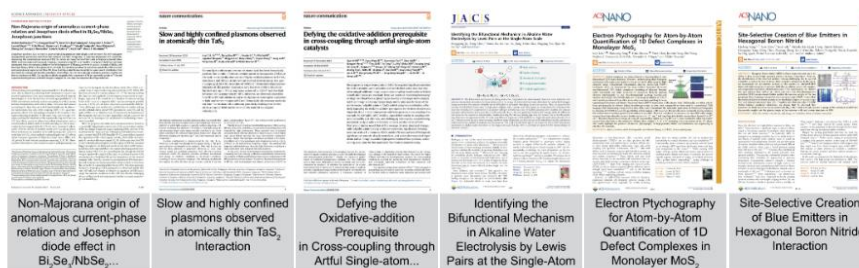
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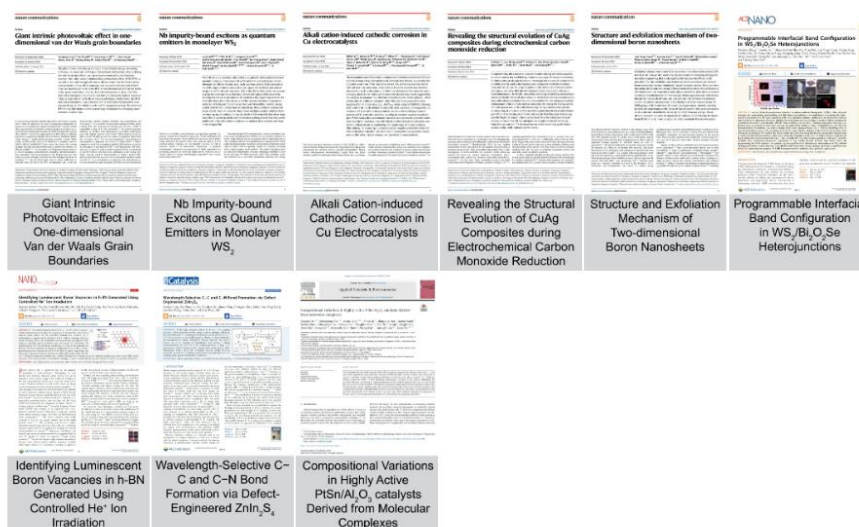
Electron Microscopy Facility (EMF)

Selected Publications

2025



2024



Conceptualisation, Design, Execution of Applied Materials-NUS Digital and Print Materials from Scratch

<https://www.amat.nus.edu.sg>





Applied Materials - NUS
Advanced Materials Corporate Lab

Home

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Our Research

Our People

Career Stories

News & Flagship Highlights

Join Us



Seminars And Events

Our events and seminars feature a diverse range of speakers who share their research findings as well as showcase applications across diverse domains such as nanotechnology, renewable energy, healthcare, electronics, and other real-world applications at the forefront of innovation in advanced materials.

Come discover the latest here where we invite speakers to share their research findings, and where applications in materials science and engineering come to life.

<https://amat.nus.edu.sg/event/>

Public Lecture 2025

Well Mr Feynman, There Is No More Plenty Of Room At The Bottom: Atomic-Scale Processing For Future Chips And Beyond

Date & Time: Wednesday, 15th October 2025, 5pm to 6pm

Venue: Lecture Theatre 7, EA Building, Level 3,

College of Design and Engineering (CDE), 9 Engineering Drive 1, NUS



About the speaker: Prof. Erwin received his MSc (1996) and PhD (with honors) (2000) in Applied Physics from TU/e. His doctoral thesis work was partly carried out at the University of California Santa Barbara and as a Postdoc, he was affiliated to the Colorado State University and Philipps University in Marburg (Germany).

Materials Design at Scale with Machine Learning

Date & Time: Wednesday, 11th February 2026, 11am to 12pm

Venue: Eureka Conference Room 1 & 2 (E6-06), NUS.

College of Design and Engineering (CDE), 9 Engineering Drive 1, NUS



About the Professor: Prof Shyue Ping Ong is the Provost's Chair Professor in Materials Science and Engineering at the National University of Singapore. He leads the Materialize.AI lab, a materials informatics research group focused on the integration of materials science with data science and artificial intelligence to accelerate the discovery and design of materials. He is widely recognized as one of the pioneers of foundation potentials, i.e., machine learning interatomic potentials with comprehensive coverage of the periodic table that has broad applications in materials discovery and design. Prof Ong is also the founder and lead developer of pymatgen, one of the most popular open-source libraries for materials analysis, and a core contributor to the Materials Project, a public platform that provides computed properties of tens of thousands of inorganic compounds. Ong earned his PhD in Materials Science and Engineering from the Massachusetts Institute of Technology in 2011, and an MEng and BA in Electrical and Information Science from the University of Cambridge in 1999. He has authored more than 150 peer-reviewed publications, and has been recognized as a Clarivate Highly Cited Researcher since 2021. He is also a recipient of the prestigious US Department of Energy Early Career Research Program and the Office of Naval Research Young Investigator Program awards.

Abstract: Machine learning (ML) models have demonstrated human, or even superhuman, performance in many tasks, from playing traditional board games to image classification. In this talk, I will discuss how ML is having a similar transformative impact in materials science. Trained on large data sets, ML techniques can be used to discover novel technological materials as well as simulate complex systems at an accuracy beyond the reach of traditional computational techniques. A key focus of this talk will be on foundation potentials, which are universal interatomic potentials that have broad applications in structural relaxation, dynamic simulations, and property prediction of materials across diverse chemical spaces.



Student Seminar presented by the Kessels Group from TU Eindhoven

Research from the Laboratory of Professor Erwin Kessels

Date & Time: Wednesday, 21 January 2026, 12pm – 1.30pm.

Venue: Eureka Conference Room 1 & 2 (E6-06), NUS.



About the Professor: Prof. Erwin received his MSc (1996) and PhD (with honors) (2000) in Applied Physics from TU/e. His doctoral thesis work was partly carried out at the University of California Santa Barbara and as a Postdoc, he was affiliated to the Colorado State University and Philipps University in Marburg (Germany). In February 2025, he was appointed as an Applied Materials Visiting Professor under the AMAT Chair Professorship, in the Department of Materials Science and Engineering, College of Design and Engineering.

Topic 1: Plasma-surface interaction during atomic scale processing: Studying the reactive species coming to the surface
Speaker: Gulp, Marnix Van, 2nd-year PhD candidate applying a variety of laser-based diagnostics to study plasma-surface interactions relevant to ALD and ALE. He also uses lasers for fundamental characterization of high-k stacks.

Abstract: Plasmas are essential in atomic-scale processes, such as: ALD, ALE, and surface treatments. However, it is often unclear which reactive plasma species are formed and delivered to the surface, limiting process control and physical understanding. In this talk, we report on our approach to measure fundamental plasma properties in our dedicated reactor using a variety of techniques, ranging from simple monitoring tools to advanced laser diagnostics.

Topic 2: In-situ RAIRS for the investigation of the surface chemistry during half-cycles in ALD
Speaker: Werf, Sjoerd Van Der, 1st-year PhD candidate working on ALD of high-k dielectrics on graphene for CMOS compatible optoelectronic devices. Previously he worked with Applied Materials on ALD of low-k dielectrics for innerspacer fabrication for GAA-FET applications.

Abstract: The talk will mostly focus on the use of IR spectroscopy and more specifically reflection absorption infrared spectroscopy (RAIRS) as a diagnostic to gain information on the evolution of surface species during an ALD cycle.

**Well Mr. Feynman, There Is No More Plenty
Of Room At The Bottom: Atomic-Scale
Processing For Future Chips And Beyond**

Presented by Prof Erwin Kessels

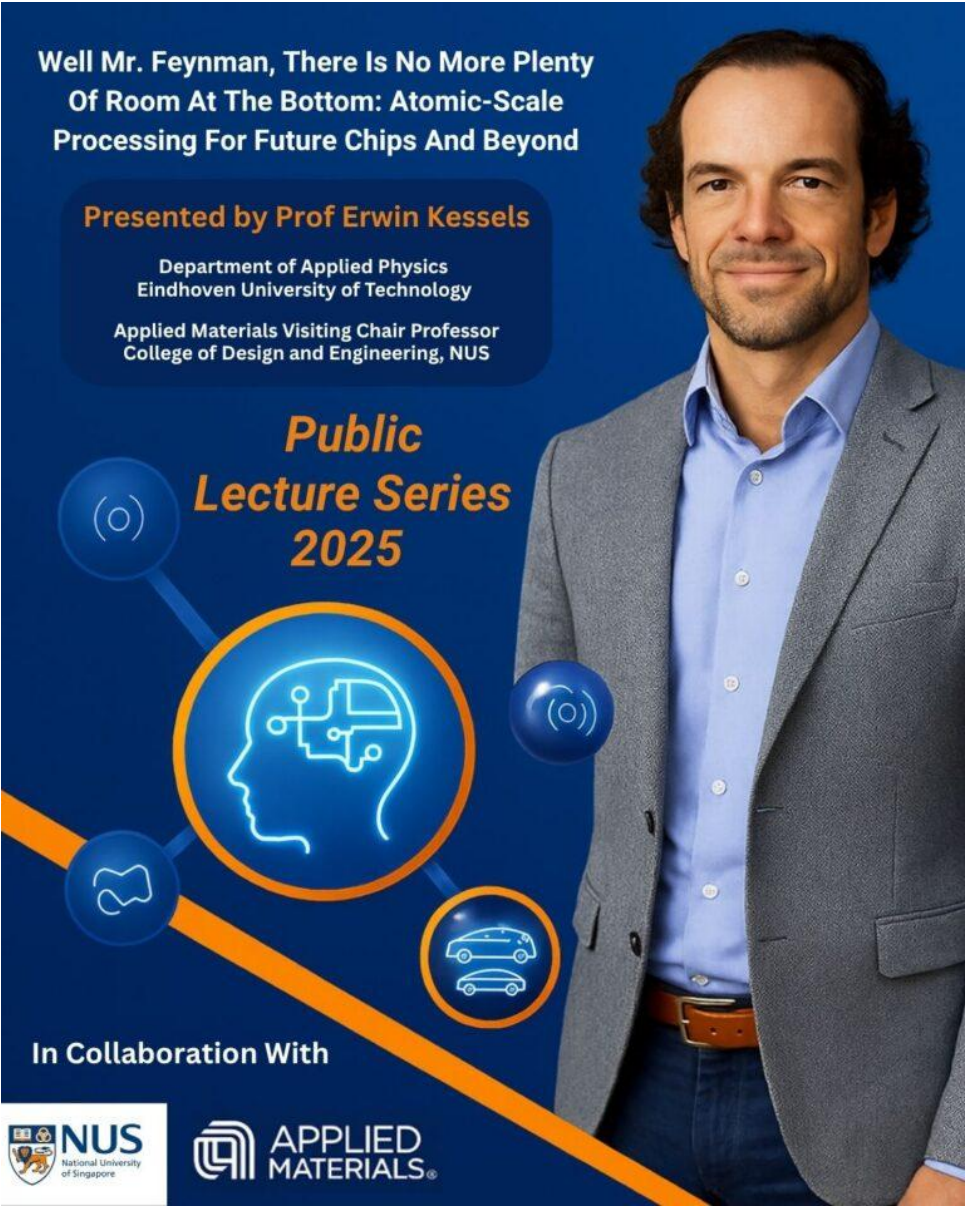
Department of Applied Physics
Eindhoven University of Technology

Applied Materials Visiting Chair Professor
College of Design and Engineering, NUS

**Public
Lecture Series
2025**

In Collaboration With



Samuel Lim Jia Jun

Portfolio as of 13th May 2026

Seamless Wafer-free Monolithic 3D Integration Enabled by Confined Growth and Remote Epitaxy

Date: Tuesday, 7th January 2025

Time: 11am-12pm

Venue: Building E7, Seminar Room 4 (#07-03-09)

Hosted By: Prof. Silvija Gradecak-Garaj



About The Speaker:

Professor Jeehwan Kim is a tenured faculty at MIT. His research group focuses on material innovations for next generation computing and electronics. Professor Kim joined MIT in September 2015. Before joining MIT, he was a Research Staff Member at IBM T.J. Watson Research Center in York town Heights, NY since 2008 right after his Ph.D. Prof. Kim worked on next generation CMOS and energy materials/devices at IBM and is a recipient of 20 IBM high value invention achievement awards. In 2012, he was appointed a "Master Inventor" of IBM. After joining MIT, he continuously worked on nanotechnology for advanced electronics/photronics and their 3D systems. He was recognised in his work when he received the IAM Research foundation Award, IBM Faculty Award, DARPA Young Faculty Award, and DARPA Director's Fellowship. He was also elected as Samsung Fellow in 2022. An inventor of more than 200 issued/pending US patents and an author of more than 70 articles in peer-reviewed journals, he currently serves as an Associate Editor of Science Advances, AAAS. He received his B.S. from Hongik University, M.S. from Seoul National University, and his Ph.D. from UCLA, specialising in the field of Materials Science.



Abstract

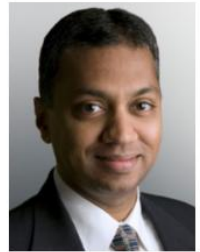
3D heterogeneous integration, which involves vertically stacking wafers with embedded electronic devices, is emerging as the leading approach for augmenting the performance of electronics and optoelectronics. This method, however, demands complex procedures including creating through-silicon vias (TSVs), filling these vias with copper, and bonding the wafers via micro-bumps or Cu hybrid bonding. Eliminating the use of wafers in this complex 3D assembly, a.k.a. monolithic 3D (M3D), could streamline the process and reduce the length of data paths. Yet, current technologies scarcely allow for the removal and reassembly of active single-crystalline devices from wafers. Moreover, directly epitaxial growths onto existing circuits present additional hurdles. Over the last decade, my group at MIT has pioneered epitaxy techniques for advancing wafer-free M3D integration of single-crystalline semiconductor devices. Firstly, I will introduce our innovation in transfer-based M3D integration of single-crystalline devices based on remote epitaxy [1-7]. Secondly, I will introduce our recent development of growth-based M3D integration by successfully implementing single-crystalline channel material growths directly on integrated circuits at a BEOL compatible temperature [8-9]. This really unlocks the way to seamless monolithic integration for advanced 3D logic/memory and AI systems.

Samlimjiajun@gmail.com

Addressing Critical Challenges In Semiconductor Scaling With Materials Innovations And Collaborative Development

Date and Time: Tuesday, 26 September 2023, 11.00am to 12.00pm

Venue: Block EA, Level 1, Lecture Theatre 7A @ NUS



Speaker: Dr. Satheesh Kuppurao is responsible for Business management of all SPG semiconductor products for Applied Materials, developing and executing new business models, driving business process and productivity improvements, managing growth through investments, and developing external partnerships. He has over 25 years of experience in the semiconductor equipment industry driving product innovation and commercializing technologies, and holds a Ph.D. in Materials Science from the University of Minnesota, Minneapolis.

Abstract: The world today has become more comfortable and fulfilling due to advancements in semiconductor technology. Various processes, such as epitaxy, PVD, CVD, and ALD, create materials, while others like planarization and etching shape them. Processes such as implantation and annealing modify material properties, and CD-SEM and inspection analyze the features. Applied Materials is the largest provider of manufacturing equipment for the semiconductor industry. As manufacturing challenges continue to increase, engineers and technologists are co-optimizing and connecting multiple technologies, enhancing them with sensor data and machine learning to accelerate the development of new solutions. This talk will focus on the critical challenges in semiconductor manufacturing, how innovative technologies developed by Applied Materials are addressing them, and the need for broader collaboration across the industry, academia and government.

+65 96252565

**ADDRESSING CRITICAL CHALLENGES IN
SEMICONDUCTOR SCALING WITH MATERIALS
INNOVATIONS AND COLLABORATIVE DEVELOPMENT**



By Dr. Satheesh Kuppurao
Group Vice President for Business Development and Growth
Applied Materials' Semiconductor Products Group



Date and Time: Tuesday, 26 September 2023, 11am to 12pm

Venue: Block EA, Level 1, Lecture Theatre 7A @ NUS

ABOUT THE SPEAKER

Dr. Satheesh Kuppurao is responsible for Business management of all SPG semiconductor products for Applied Materials, developing and executing new business models, driving business process and productivity improvements, managing growth through investments, and developing external partnerships. He has over 25 years of experience in the semiconductor equipment industry driving product innovation and commercializing technologies, and holds a Ph.D. in Materials Science from the University of Minnesota, Minneapolis.

ABSTRACT

The world today has become more comfortable and fulfilling due to advancements in semiconductor technology. A typical chip manufacturing process involves hundreds of process steps to accurately engineer critical features. Various processes, such as epitaxy, PVD, CVD, and ALD, create materials, while others like planarization and etching shape them. Processes such as implantation and annealing modify material properties, and CD-SEM and inspection analyze the features.

Applied Materials is the largest provider of manufacturing equipment for the semiconductor industry. As manufacturing challenges continue to increase, engineers and technologists are co-optimizing and connecting multiple technologies, enhancing them with sensor data and machine learning to accelerate the development of new solutions. This talk will focus on the critical challenges in semiconductor manufacturing, how innovative technologies developed by Applied Materials are addressing them, and the need for broader collaboration across the industry, academia and government.



<https://amat.nus.edu.sg/>

**SCAN
ME**



College of Design
and Engineering

Applied Materials - NUS
Advanced Materials Corporate Lab

Highlights from Phase 2 Launch Event of the AMAT-NUS Corporate Lab

24 October 2024



In Phase 2, what are the areas of expertise that the Applied Materials-NUS Advanced Materials Corporate Lab focused on?

What is the significance of the Applied Materials Professorship at NUS?

What new development occurred during Phase 2 of the Corporate Lab?

Find out more by clicking on each question above

"When NUS and Applied Materials first established the Corporate Lab six years ago, we laid the foundation for a collaboration that has since yielded remarkable success. Several of the innovations developed here have progressed from the research stage to the scale-up phase, paving the way for real-world applications that can benefit society. We are very excited to embark on a new chapter in our collaboration with Applied Materials to further advance semiconductor science and technology and inspire the next generation of innovators who will push the envelope and break new ground in this significant field."

Professor Tan Eng Chye
President
National University of Singapore (NUS)

"The Advanced Materials Corporate Lab at NUS is a prime example of how industry-academia collaboration can accelerate the discovery and transition of innovations into commercial applications. Our joint work has resulted in numerous patents related to chemistry, semiconductor process and hardware design solutions, along with several sponsored scholarships. Applied Materials is excited to build on our success with NUS and bring enhanced semiconductor research and talent development opportunities to Singapore."

Dr Sathesh Kuppurao
Group Vice President of Business Development and Growth, Semiconductor Products Group
Applied Materials, Inc.



PROFESSOR XXX

IS CORDIALLY INVITED TO THE

**LAUNCH OF APPLIED MATERIALS-NUS
ADVANCED MATERIALS
CORPORATE LABORATORY 2.0**

ON

THURSDAY, 24 OCTOBER 2024, 10.30AM

**NUS UNIVERSITY HALL
LEE KONG CHIAN WING
AUDITORIUM, LEVEL 2
21 Lower Kent Ridge Road
Singapore 119077
[Google maps [link](#)]**

**GUEST-OF-HONOUR
MR HENG SWEE KEAT**
Deputy Prime Minister and
Chairman, National Research Foundation

Kindly RSVP by 17 October 2024 to Dr Nizar at syedn04@nus.edu.sg

Dress code: Jacket without tie. Guests to be seated by 10.20am.
Event is expected to end by 12noon.

Please be aware that the National University of Singapore (NUS), authorised personnel for and on behalf of NUS, and those at the Launch of Applied Materials-NUS Advanced Materials Corporate Laboratory 2.0 ("the Event") may take photographs and videos during the Event. NUS may use photographs and videos it takes and/or taken by authorised personnel for NUS marketing and publicity purposes in print, electronic and social media.



NUS
National University of Singapore

College of Design and Engineering

HOME ABOUT US MSE 30 UNDERGRADUATES POSTGRADUATES RESEARCH FACILITIES STUDENT LIFE ALUMNI EVENTS NEWS

Q

Materials Science and Engineering



WELCOME TO NUS T11 SHARED FACILITIES

ADVANCED MATERIALS CHARACTERISATION FACILITY

Welcome to NUS T11 Shared Facilities.

NUS T11 Shared Facility houses state-of-the-art equipment enabling researchers, staff and students to carry out cutting edge research activities.

NUS T11 Shared Facilities provides shared access to advanced materials characterization and fabrication equipment focusing on the structure, composition, and properties of materials at the atomic and molecular level, developing new materials with improved properties, and understanding how materials behave under different conditions.

The facility is open to researchers from NUS. We partner with industry and large-scale programs and collaborate with different stakeholders to push forward the boundaries of materials research.

Discover more:

- Material Synthesis Facilities: Click [here](#)
- Properties Facilities: Click [here](#)
- Structural Characterisation: Click [here](#)
- Devices: Click [here](#)

+ How to Access Facilities

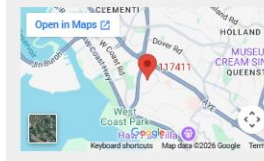
+ Service & Booking Fees

+ Our Partners

Contact Us

Research Fellow : Tiho@nus.edu.sg
 Lab Technologist : Mtnh@nus.edu.sg
 Communications : Samuel@nus.edu.sg

T11 Shared Facilities
 Level 11
 T-Lab Building
 5A Engineering Drive 1
 College of Design and Engineering
 Singapore 117411



OUR FACILITIES

Click on the icons below to discover our facilities:



MATERIAL SYNTHESIS



**STRUCTURAL
CHARACTERISATION**



PROPERTIES



DEVICES

HOW TO ACCESS FACILITIES

Step 1: Schedule a project meeting

Contact Ngee Hong Teo (mtnh@nus.edu.sg) and Tiho (tiho@nus.edu.sg) so as to arrange a project meeting together with you and your Principal Investigator.

Please provide the following information:

1. Project descriptions
2. Scientific background
3. Sample information
4. Expected results
5. Required techniques

Step 2: Register for an account

Step 3: Submit necessary documents

Step 4: Receive training

Step 5: Complete qualification examination

T11 LAB POLICIES

General Safety

Users must comply with the following safety rules, as well as any additional rules conveyed during their training.

1. Dress in appropriate clothing for laboratory tasks.
2. Do not bring food and drinks into laboratory.
3. Do not perform any unauthorized experiments within laboratory.
4. Do not bring unauthorized persons into laboratory without prior approval from facility staff.
5. Schedule laboratory equipment usage in advance and adhere to permitted hours unless arranged with facility staff.
6. Only operate equipment for which you have received proper training.
7. In event of equipment malfunction or failure, promptly contact facility staff and prohibited to repair the equipment on your own or seek assistance from other users.
8. Maintain focus during sample preparation and microscope imaging; refrain from listening to music or engaging in extended phone calls.
9. Return all tools to their designated locations after use.
10. Use safety gears when handling brittle materials and dangerous chemicals.
11. Do not leave chemicals unlabelled in fume hoods, workbenches and wash sinks. Exercise caution and follow instruction for proper disposal of chemicals.
12. Ensure cleanliness in laboratory and clean up after yourself.
13. When uncertain about laboratory practice, always seek assistance.
14. Report all incidents to facility staff (no matter how minor).
15. Non-compliance with facility regulations may result in temporary suspension from assessing laboratory equipment.

All incident reports must be submitted online to Office of Safety, Health and Environment (OSHE) within 24 hours. Contact numbers, evacuation plan and emergency assembly point can be found in the laboratory (notice board).

An incident form for reporting dangerous incidents or accidents to OSHE is available [here](#).

Instrument Booking

Data Storage

Acknowledgement

MISSION AND VISION



OUR VISION AND MISSION

Bringing together interdisciplinary groups of scientists, working collaboratively at the frontiers of materials science and engineering, to advance our collective scientific knowledge. Inviting researchers across various disciplines to explore cutting-edge research as well as to apply latest techniques through the use of our world-class equipments.

MANAGEMENT STAFF



Professor Silviya Gradecak-Garaj

ggradecak@nus.edu.sg

Vice-Dean of Research and Technology, College of Design and Engineering
Professor, Materials Science and Engineering



Teo Ngee Hong

nteh@nus.edu.sg

Lab Technician



Tihomir Marjanovic

tihomir@nus.edu.sg

Research Fellow



Samuel Lim

samuel@nus.edu.sg

Senior Communications Executive

Restructuring of CDE Research Centre and Corporate Laboratories Websites (CDE.NUS.EDU.SG)





NUS Centre for Additive Manufacturing (AM.NUS)



Advanced Robotics Centre (ARC)



Advanced Research and Technology Innovation Centre (ARTIC)



Centre of Excellence in Modelling and Simulation for Next Generation Ports (C4NGP)



Centre for Advanced Robotics Technology (CARTIN)



Coastal Protection and Flood Resilience Institute Singapore (CFI)



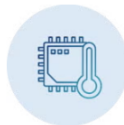
Centre for Protective Technology (CPT)



Centre for Sustainable Asian Cities (CSAC)



Centre for Environment and Ageing Well (ENgAGE)



The Sustainable Tropical Data Centre (STDCT)



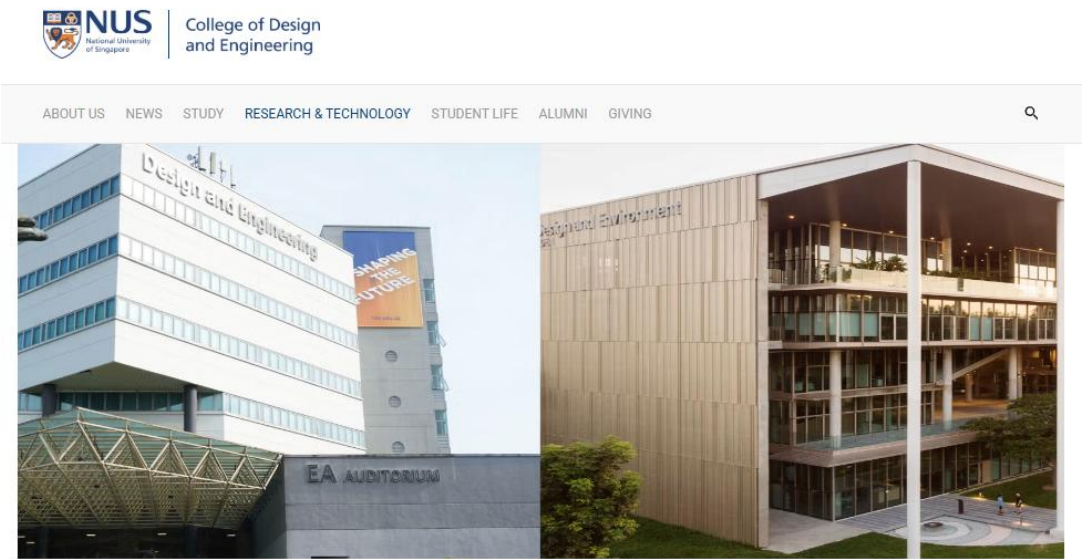
Singapore Hybrid-Integrated Next-Generation µ-Electronics Centre (SHINE)

CDE Corporate Labs

Corporate Labs exemplify the highest level of collaboration between CDE researchers and industry, where we work together with our industry partners to develop solutions for significant real-world challenges. These partnerships are founded on common priorities and align closely with Singapore's national R&D agenda, ensuring both impact and relevance.

Click on the icons to find out more

abs/#ARC



DEPARTMENT LEVEL RESEARCH CENTRES

Current Research Centres (Department Level)	Architecture	+
	Built Environment	+
	Civil and Environmental Engineering	+
	Electrical and Computer Engineering	+
	Industrial Design	+
	Industrial Systems Engineering and Management	+
	Materials Science and Engineering	+

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Click on the icons to find out more



Applied Materials-NUS Advanced
Materials Corporate Laboratory
(AMAT-NUS)



Cisco-NUS Accelerated Digital
Economy Corporate Laboratory

Research Centres

NUS Centre for Additive Manufacturing (AM.NUS)



OVERVIEW

AM.NUS 3DP Centre advances additive manufacturing through design, materials, and process innovation, with a focus on biomedical applications. Collaborating with industry, government, and academia, it drives research, clinical innovation, and customised medical solutions, while developing talent to support the rapidly growing AM sector.

KEY RESEARCH

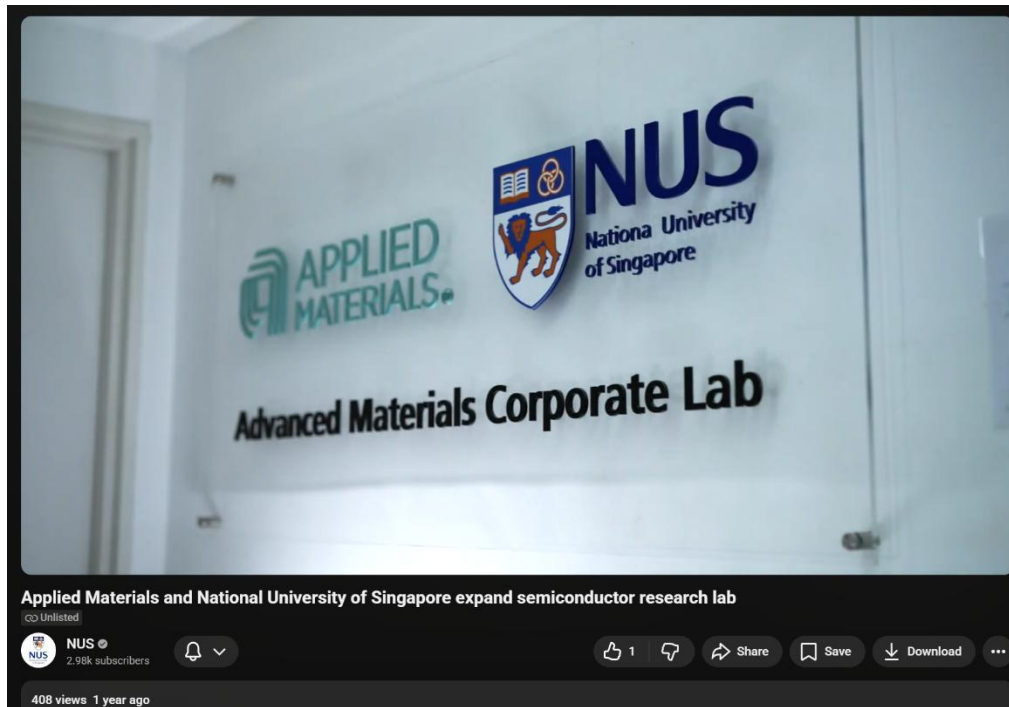
- 3D Bioprinting for Tissue Repair
- AM Craniofacial and Oral Applications
- AM Enabled Design and Environment
- AM for Innovative Medicine
- Biomedical Device and Implant

CONTACT

Email: am.nus@nus.edu.sg

[Learn More >](#)

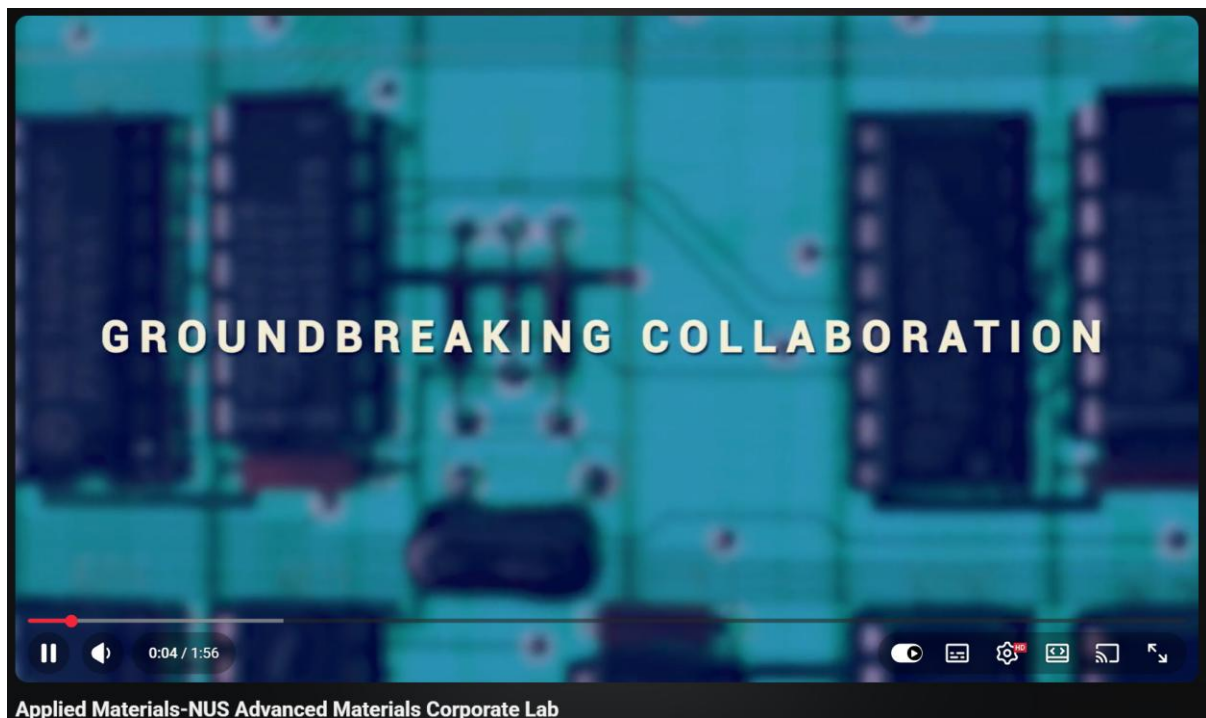
Corporate Video Samples (Worked with Vendors and Self-Produced)



https://www.youtube.com/watch?v=kxZf2tL1O2E&time_continue=236&source_ve_path=MjM4NTE&embeds_referring_euri=https%3A%2F%2Famat.nus.edu.sg%2F&embeds_referring_origin=https%3A%2F%2Famat.nus.edu.sg



<https://www.youtube.com/watch?v=rL5NmoHXd9Q>



<https://www.youtube.com/watch?v=02bcso6b3dc> (Video integration into new Research Centre Website to give clear scientific explanations of Phase 1.0 Research Activities and drive credibility.)



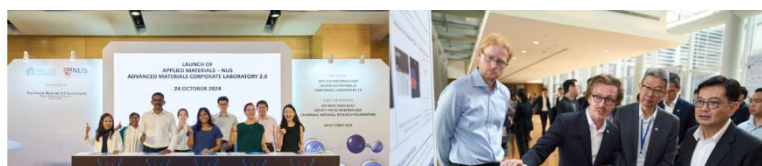
How long has the collaboration between Applied Materials and NUS been ongoing?

How does this partnership align with Singapore's research priorities?

Why is the work at Applied Materials – NUS Advanced Materials Corporate Lab important?

Hosted at the College of Design and Engineering and the Faculty of Science at NUS, the Applied Materials-NUS Advanced Materials Corporate Lab offers world-class, multi-disciplinary R&D capabilities that span applied chemistry, materials science and microelectronics process engineering. The goal of the Corporate Lab is to accelerate discovery of new materials that can be quickly transferred into commercial applications for manufacturing future generations of semiconductors.

Find out more by clicking on each question above







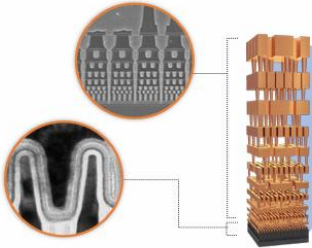
NUS
National University
of Singapore

Applied Materials – NUS
Advanced Materials Corporate Laboratory



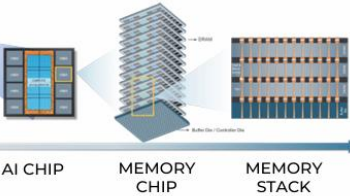
ADVANCED MATERIALS FOR NEXT-GENERATION SEMICONDUCTORS

LOGIC – DEVICE SCALING, LOSS OF PERFORMANCE, NEW MATERIALS



PRECISE MEMORY SCULPTING IN COMPLEX STRUCTURES





AI CHIP MEMORY CHIP MEMORY STACK

The Internet of Things, Big Data and Artificial Intelligence (AI) demand rapid and dramatic improvements in the semiconductor industry with innovations made possible by new materials, integration solutions and interface engineering.

FROM IDEA TO PRODUCT



PROBLEMS



IDEAS











Computation	Synthesis	ALD testing	Optimization	Transfer	Qualification and Scale up
NUS CHEMISTRY		NUS ENGINEERING		Applied Materials SCLA	
Singapore SMEs Engagement					

CORPORATE LABORATORY OUTCOMES

 IP and Knowledge	65	63	71
	Technology Disclosures	Patents Filed	Publications & Conferences
 Talent pipeline and development	71	29	
	Researchers Trained	PhD, Masters, UROPs & Interns	
 Transfer for 300 mm scale-up	10	5	
	Active Projects	Processes scaled-up	
 Chemistry database	> 100		
	New Compounds		

KEY PROJECTS

DIAMOND – AN EFFICIENT HEAT SPREADER



- Miniaturised devices prone to overheating & failure.
- Our diamond-based heat spreader efficiently reduces hot spots.
- Conventional diamond growth: >800 °C, >10 Torr.
- Our diamond growth: <500 °C, 1 Torr.

SELECTIVE ETCHING ENABLES HIGH -ASPECT-RATIO STRUCTURES



- Traditional wet etching over-etches and undercuts structures.
- Our in-house developed technique delivers fine control and material specificity

EMERGING 2D MATERIALS FOR MICROELECTRONICS



- Atomic-scale 2D materials: a breakthrough for BEOL barriers, liners, and FEOL next-gen logic/memory components

BARRIER-FREE INTERCONNECTS

- As semiconductors shrink, resistance increases, requiring new organometallic precursors with low resistivity.



LEARN MORE

Gatekeeping of Internal Systems within CDE Research, such as but not limited to PPMS Systems, CDE T11 Research Centre, Electron Microscopy Facility and Applied Materials-NUS Website SOPs, and Card Access Systems

<https://sites.google.com/view/nus-gradecak-shared-systems/photo-galleries>



CDE Innovation Day 2024

CDE Innovation Day 2024 brings together the brightest minds from the College of Design and Engineering to showcase a dynamic spectrum of innovation, entrepreneurship, and research. Faculty, researchers, students, and industry leaders gather to exchange ideas, forge new partnerships, and explore the frontiers of engineering and design.

Click [here](#) for the photo album.



EMF Facility Website

NUS Research Website Development SOP

A. Beaver Builder Website Development for NUS CDE Research Subsites

1. Overview

This SOP provides comprehensive guidance for designing and managing websites using WordPress and Beaver Builder. The primary focus is to help students create dynamic, professional websites that integrate various media, optimize user experience, and ensure seamless functionality. In this guide, we will cover essential skills, from basic page creation to more advanced features such as customizing image sizes, building contact forms, and managing links.

Special reference is made to real-life design examples inspired by the [NUS College of Design and Engineering Research page](#), such as adjusting faculty profile images, creating interaction forms, and performing efficient content updates.

Potential areas of coverage:

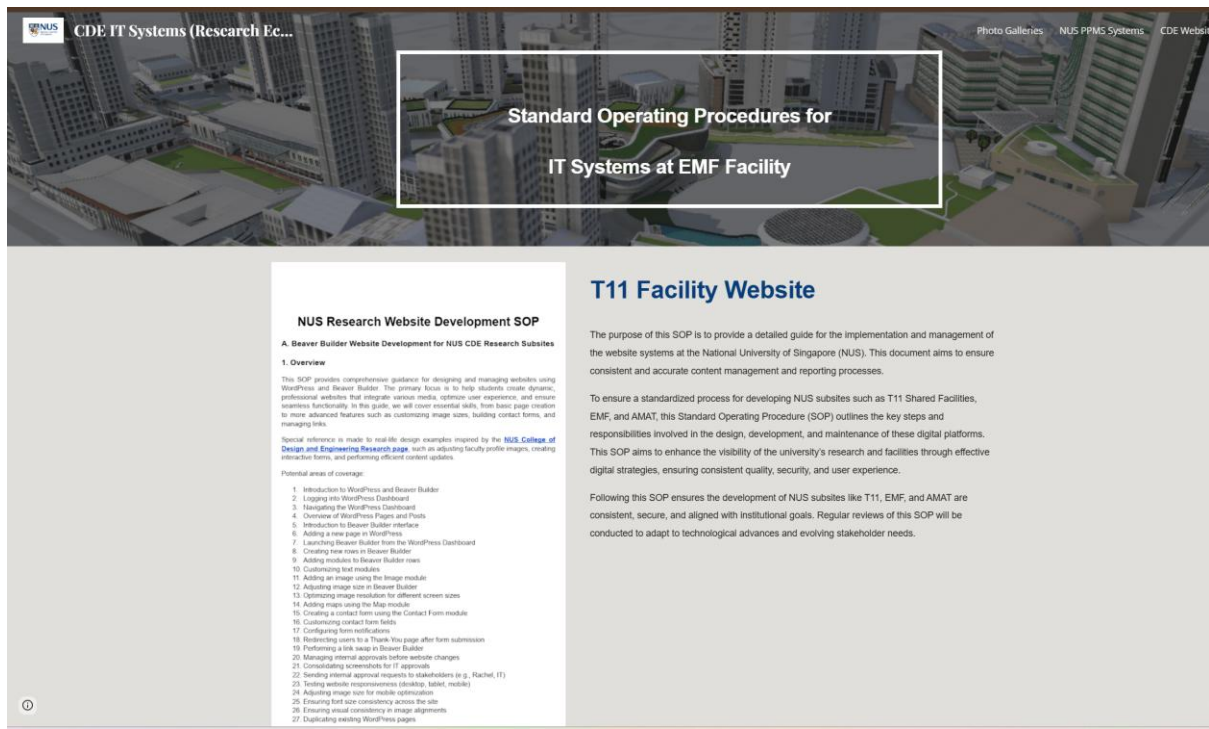
1. Introduction to WordPress and Beaver Builder
2. Logging into WordPress Dashboard
3. Navigating the WordPress Dashboard
4. Overview of WordPress Pages and Posts
5. Introduction to Beaver Builder interface
6. Adding a new page in WordPress
7. Launching Beaver Builder from the WordPress Dashboard
8. Creating new rows in Beaver Builder
9. Adding modules to Beaver Builder rows
10. Customizing text modules
11. Adding an image using the Image module
12. Adjusting image size in Beaver Builder
13. Optimizing image resolution for different screen sizes
14. Adding images using the Map module
15. Creating a contact form using the Contact Form module
16. Customizing contact form fields
17. Configuring form notifications
18. Redirecting users to a Thank You page after form submission
19. Performing a link swap in Beaver Builder
20. Managing internal approvals before website changes
21. Compiling screenshots for IT approvals
22. Sending internal approval requests to stakeholders (e.g., Rachel, IT)
23. Testing website responsiveness (desktop, tablet, mobile)
24. Adjusting image size for mobile optimization
25. Ensuring font size consistency across the site
26. Ensuring visual consistency in image alignments
27. Duplicating existing WordPress pages

The purpose of this SOP is to provide a detailed guide for the implementation and management of the website systems at the National University of Singapore (NUS). This document aims to ensure consistent and accurate content management and reporting processes.

To ensure a standardized process for developing NUS subsites such as T11 Shared Facilities, EMF, and AMAT, this Standard Operating Procedure (SOP) outlines the key steps and responsibilities involved in the design, development, and maintenance of these digital platforms.

This SOP aims to enhance the visibility of the university's research and facilities through effective digital strategies, ensuring consistent quality, security, and user experience.

Following this SOP ensures the development of NUS subsites like T11, EMF, and AMAT are consistent, secure, and aligned with institutional goals. Regular reviews of this SOP will be conducted to adapt to technological advances and evolving stakeholder needs.





III-V Nanowires: Reconfigurable Electronics, Memory Cells, and Steep Slope Devices

Click [here](#) for the photo album.



ALD Academy 2025 for Applied Materials-NUS

Click [here](#) for the photo album.



Seamless Wafer-free Monolithic 3D Integration

Click [here](#) for the photo album.



Applied Materials Safety Meeting

The Applied Materials Safety Meeting held on 18 May 2024 brought together staff and partners to reaffirm our shared commitment to a culture of safety and responsibility. The session included key updates on laboratory protocols, emergency preparedness, and best practices for maintaining a safe research environment. Attendees also participated in scenario-based discussions to enhance real-world application of safety principles.

Click [here](#) for the photo album.



Applied Materials-NUS Event Surface Science Test Stand

In this talk, Dr. Aaron Dargatzidis will give an overview of the Surface Science capabilities and share some examples of how we apply this tool to understand Atomic Layer Deposition (ALD) reaction mechanisms.

Click [here](#) for the photo album.



Addressing Critical Challenges In Semiconductor Scaling With Materials Innovations And Collaborative Development

Dr. Sathesh Kuppuru is responsible for business management of all SiPG semiconductor products for Applied Materials, developing and executing new business models, driving business process and productivity improvements, managing growth through investments, and developing external partnerships. He has over 25 years of experience in the semiconductor equipment industry driving product innovation and commercializing technologies, and holds a Ph.D. in Materials Science from the University of Minnesota, Minneapolis.

Click [here](#) for the photo album.



T11 Lab Photos

Photos from research spaces, collaborative work environments, and the vibrant community of researchers in a visual journey through the T11 Lab at the National University of Singapore.

Click [here](#) for the photo album.



Official Launch AMAT-NUS Phase 2 Event

24 October 2024

Click [here](#) for the photo album.



Event on 7th Jan 2025

External engagement with visits to the labs at E&E.

Click [here](#) for the photo album.



Appreciation Event 2024

Group Photos

Click [here](#) for the photo album.


CDE IT Systems (Research E...

Photo Galleries
NUS PPMs Systems
CDE Websites

Standard Operating Procedures for IT Systems at Applied Materials Facility

Applied Materials-NUS Website SOP

NUS Research Website Development SOP

A. Beaver Builder Website Development for NUS CDE Research Subsites

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26. Ensuring visual consistency in image alignments
27. Duplicating existing WordPress pages



Media Release

For Immediate Release

SBF launches OneTAC SG to foster a stronger TAC community in Singapore

Collaborative features to help Trade Associations and Chambers learn, share and connect as One Community

Wednesday, 7 September 2022 [Singapore] – A new OneTAC SG platform was launched today to help bring together the Trade Associations and Chambers (TACs) community in Singapore and enhance capabilities within TACs. OneTAC SG was officially launched by Ms Low Yen Ling, Minister of State for Trade and Industry at a TAC networking event organised by the Singapore Business Federation (SBF).

2 TACs play important roles as multipliers and conduits to help companies, especially small and medium-sized enterprises, with their business transformation and growth. They also play a catalytic role in bringing multiple stakeholders together to pursue common goals for mutual benefits.

3 OneTAC SG is a “for TACs, by TACs” collaborative tool to strengthen partnerships within the TAC community, enable information sharing and enhance internal capabilities of TACs in Singapore. OneTAC SG is open to all TACs in Singapore and their secretariat staff and will enable them to share and connect with one another as well as receive the latest updates on policies, initiatives and events from the Government, TACs and other business stakeholders. Key features of OneTAC SG include the TAC and User Directory, Event Calendar, Communities and Groups, Direct Messaging, Resource Hubs and many more. OneTAC SG is part of SBF’s efforts to enable a strong TAC community and a strong business ecosystem in Singapore. Please refer to [Annex A](#) for more details on OneTAC SG.

4 At today’s TAC networking event, some 100 Presidents, Chairpersons, Council Members and Heads of Secretariats of TACs from more than 50 TACs engaged Minister of State Low Yen Ling in a fireside chat moderated by Mr Lam Yi Young, Chief Executive Officer of SBF. Issues discussed centred around the important roles of TACs, how TACs can be a strong multiplier for business transformation in Singapore, and how TACs can further build up their capabilities.

5 In his welcome remarks at the event, Mr Lam Yi Young also provided updates on the three new initiatives that were first announced by Minister of State Low Yen Ling at the Ministry of Trade and Industry's Committee of Supply debate in March 2022. These are the Digitalisation of TACs Programme (Digi-TAC), TAC Fellowship Programme for Leadership Development (TFP), and TAC Leadership Accelerator Programme (TLAP), which aim to help TACs build their digital and human capital capabilities so as to better serve the needs of their members and the business community. Please refer to [Annex B](#) for the factsheets on the three programmes.

6 Mr Lam Yi Young, Chief Executive Officer of SBF said, "Over the past year, we have intensified our efforts to bring the TAC community closer together. Through OneTAC SG, we hope to spur meaningful connections that will help build collaborations across the TAC community. TACs and their secretariat staff will also benefit from the three new programmes to boost leadership competencies and digital capabilities. By uplifting and strengthening our TACs, we can enable a stronger business ecosystem and help advance our economy and create better jobs for Singaporeans."

7 More information on OneTAC SG, Digi-TAC, TFP and TLAP can be found at <https://www.sbf.org.sg/membership/initiatives-for-tacs>.

Annex A-1: Infographic on the OneTAC SG Platform

Annex A-2: Factsheet for the OneTAC SG Platform

Annex B: Programmes Factsheets

- End -

For media queries please contact:

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About Singapore Business Federation

As the apex business chamber, the Singapore Business Federation (SBF) champions the interests of the business community in Singapore in trade, investment and industrial relations. Nationally, SBF acts as the bridge between the government and businesses in Singapore to create a conducive business environment. Internationally, SBF represents the business community in bilateral, regional and multilateral fora for the purpose of trade expansion and business networking.

For more information, please visit: www.sbf.org.sg

Annex A-1: Infographic on the OneTAC SG Platform

OneTAC SG

SINGAPORE BUSINESS FEDERATION
Apex Business Chamber

A "for TACs, by TACs" collaboration tool to bring TACs in Singapore and their secretariat staff onto a common platform.

Be part of OneTAC SG to:

LEARN
Uplift and deepen capabilities through knowledge sharing to support industry transformation.

SHARE
Strengthen partnership and promote information sharing among TACs as One Community.

CONNECT
Bring TACs together as One Community to connect, collaborate and co-create initiatives.

To sign up or find out more about One TAC SG, scan here:

Who is the OneTAC SG for?

- All TACs in Singapore and their secretariat staff.
- No limit to the number of staff from each TAC that can join OneTAC SG as a user.

Need Help?
Email to participate@sbf.org.sg or call us at Tel: 6827 6877

KEY FEATURES:

- User directory
- Events Calendar
- Direct messaging
- Initiatives for TACs
- e-business card
- Communities and groups
- Resource hubs

OneTAC SG

For TACs, by TACs

Complimentary for all TACs and their secretariat staff for one year.

Annex A-2: Factsheet for the OneTAC SG Platform

Overview	The OneTAC SG platform (OneTAC SG) is a “for TACs, by TACs” collaboration tool initiated by the Singapore Business Federation (SBF) to bring together the Trade Associations and Chambers (TACs) in Singapore as One Community. OneTAC SG enables TACs to share and connect with one another as well as to receive the latest updates on new policies, initiatives, and events from the Government, TACs and other business stakeholders. Outreach, discussions, and networking are made easier with this all-in-one platform. OneTAC SG can be accessed as a mobile application¹ or via the web.														
What are the key objectives?	Through OneTAC SG, TACs can: Learn: Uplift and deepen capabilities through knowledge sharing to support industry transformation. Share: Strengthen partnerships and promote information sharing among TACs. Connect: Bring TACs together to better connect, collaborate and co-create initiatives.														
Who is the ONETAC SG for?	OneTAC SG is open to all TACs in Singapore and their secretariat staff. There is no limit to the number of staff from each TAC that can join OneTAC SG as a user. OneTAC SG is complimentary for all users for the first year.														
What are the key features of ONETAC SG?	OneTAC SG contains features such as a TAC Directory, Communities and Groups, Event Calendar, Messaging, Learning Resources, and more. Some examples of what you can do on OneTAC SG are: <table border="1"> <thead> <tr> <th>Feature</th><th>Details</th></tr> </thead> <tbody> <tr> <td>Access the TAC and User Directory:</td><td>View and search for TACs and TAC secretariat staff who are on OneTAC SG.</td></tr> <tr> <td>Direct Message another User:</td><td>Start chats and arrangements with a simple click.</td></tr> <tr> <td>Share eBusiness Card:</td><td>Send and receive eBusiness cards to exchange contact information for collaborations.</td></tr> <tr> <td>Join or Set-up Communities and Groups:</td><td>Connect with like-minded people to learn, share and collaborate on pertinent topics and build communities of practices.</td></tr> <tr> <td>Access Resource Hubs:</td><td>Get quick and easy access to curated reports, guides and advisories that are relevant to TACs and businesses.</td></tr> <tr> <td>Access Event Calendar:</td><td>View, share and deconflict upcoming events which are relevant to TACs.</td></tr> </tbody> </table>	Feature	Details	Access the TAC and User Directory:	View and search for TACs and TAC secretariat staff who are on OneTAC SG.	Direct Message another User:	Start chats and arrangements with a simple click.	Share eBusiness Card:	Send and receive eBusiness cards to exchange contact information for collaborations.	Join or Set-up Communities and Groups:	Connect with like-minded people to learn, share and collaborate on pertinent topics and build communities of practices.	Access Resource Hubs:	Get quick and easy access to curated reports, guides and advisories that are relevant to TACs and businesses.	Access Event Calendar:	View, share and deconflict upcoming events which are relevant to TACs.
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Access Event Calendar:	View, share and deconflict upcoming events which are relevant to TACs.														

¹ For the mobile version, download the app from the [Apple App Store](#) or [Google Play Store](#) by searching "OneTAC SG".

For Enquiry	To find out more about OneTAC SG, TACs can contact SBF at participate@sbf.org.sg .
OneTAC SG LOGO	 OneTAC SG The OneTAC SG logo features two inter-locking chains. The inter-locked chains reflect the commitment from TACs to come together to build a stronger business ecosystem and economy for Singapore. The inter-locking also symbolises a connected community to allow more opportunities for collaborations and cross-sharing among TACs. The chains are in teal and yellow colours to symbolises the energy and vibrancy of the TAC ecosystem created through OneTAC SG.

Annex B: Programmes Factsheets**1. Factsheet for the Digitalisation of TACs Programme**

Overview	Digitalisation is a key enabler for business growth. To help businesses with their digital journeys, Trade associations and Chambers (TACs) must also digitalise and adopt digital solutions to stay relevant and move in tandem with the emerging new digital economy. Jointly led by the Singapore Business Federation (SBF) and SGTech, and supported by Enterprise Singapore (EnterpriseSG), the Digitalisation of TACs (Digi-TAC) programme will support TACs to digitalise through pre-approved digital solutions curated for TACs to upgrade digital capabilities, and training of TAC Secretariat staff to equip them with digital capabilities. To provide guidance to TACs on their relevant digital transformation milestones, a digital playbook for TACs (TAC Digital Playbook) will also be developed.
What is the support given to TACs?	Under the 3-year Digi-TAC programme, funding support at 70% on qualifying costs will be available for eligible TACs to adopt pre-approved digital solutions and training. Each eligible TAC will be supported up to a cumulative maximum grant of \$60,000, and subject to a grant cap of \$30,000 per year.
What are the pre-approved digital solutions and training courses?	SBF and SGTech will curate a list of pre-approved solutions for 11 baseline capabilities² and core operational areas for TACs' adoption. These are: a) Customer Relationship Management; b) Cybersecurity; c) Data Analytics; d) Data Protection; e) Digital Marketing; f) Document and/or Knowledge Management; g) Event Management; h) Human Resource; i) Mobile Access; j) Payroll; and k) Training Management. SBF and SGTech will also curate a list of pre-approved training courses to help TAC Secretariat staff build foundational digital skills. These include training in areas such as digital etiquettes, digital marketing, digital terminologies, emerging digital technology tools, emerging trends in digital economy, personal data and privacy policies, systems and software, and cyber security risks.
What is the programme duration?	The Digi-TAC programme will run for a period of three years from 1 August 2022 to 31 July 2025.
For Enquiry	To find out more about the Digi-TAC programme, TACs can contact SBF at Digi-TAC@sbf.org.sg .

² The categories may be expanded with Enterprise Singapore's approval.

2. Factsheet for the TAC Fellowship Programme for Leadership Development

Overview	Leadership development has been highlighted consistently at multiple platforms by President or Chairpersons and Heads of Secretariat of Trade Associations and Chambers (TACs) as a key area that TACs would like to invest in to ensure that they can develop and retain secretariat leaders to lead TACs of the future. Led by the Singapore Business Federation (SBF) and supported by Enterprise Singapore (EnterpriseSG), the TAC Fellowship Programme (TFP) for Leadership Development aims to uplift the competencies and capabilities of TAC leaders and build up a pipeline of next-generation leaders to helm secretariats of TACs in Singapore.
Who is it for?	The TFP is targeted at the Executive Director and Director levels as well as promising secretariat staff who demonstrate the ability to move up to these levels. Eligible TACs can identify and nominate suitable secretariat leaders to join the TFP. The nominated candidates will be evaluated by a TFP Evaluation Panel comprising five TAC veterans and leaders from key TACs. All approved nominees will be known as TAC Fellows.
What will TAC Fellows go through?	Under TFP, the TAC Fellows will attend a specially designed TAC Leadership Development Programme (TLDP) to upskill their knowledge and skills and accelerate their leadership journey. Upon successful completion of the TLDP, TAC Fellows will receive the TAC Fellowship Award (cash award of \$5,000) and will be required to serve a one-year service bond with their sponsoring TACs.
What is the support given to TACs?	Both the course fee of \$9,000 ³ for TLDP and TAC Fellowship Award of \$5,000 are funded at 90% by EnterpriseSG under the Local Enterprise and Association Development (LEAD) Programme. The balance 10% of the costs will be borne by the sponsoring TACs.
What is the programme duration?	The TFP will run for a period of three years from 1 August 2022 to 31 July 2025.
For Enquiry	To find out more about the TFP, TACs can contact SBF at TFP@sbq.org.sg .

³ Course Fee is subject to the prevailing GST rate.

3. Factsheet for the TAC Leadership Accelerator Programme

Overview	Getting suitable talent is key in steering industry transformation. The TAC Leadership Accelerator Programme (TLAP) is targeted at supporting Trade Associations and Chambers (TACs) to attract, recruit and develop outstanding mid-career professionals with relevant working experience. Led by the Singapore Business Federation (SBF) and supported by Enterprise Singapore (EnterpriseSG) and Singapore Chinese Chamber of Commerce & Industry (SCCCI), TLAP aims to build a healthy pipeline of professionals to join the TAC sector. The TLAP will induct newly hired TAC secretariat staff without prior working experience in TACs (TLAP Participants), into the TAC sector and equip them with competencies to be effective TAC senior managers and beyond.
What the TLAP participants go through?	The TLAP is a 3-part programme conducted on a part-time basis over a six-month period. The training framework comprises facilitated classroom training, structured on-the-job training and a mentorship and coaching programme. TLAP Participants are also required to submit a report suggesting improvements to internal processes or value proposition to members, to their respective TAC.
Who is it for?	The TLAP is targeted at mid-career professionals with industry experience who are newly hired by TACs as full-time employees and have not worked in any TAC previously.
What is the support given to TACs?	Course fees for compulsory and elective modules are funded at 90% by EnterpriseSG. The total course fees eligible for funding is capped at \$2,000. For courses that are already supported by other government schemes (e.g. SkillsFuture Singapore), the total funding support level under TLAP and existing government schemes shall not exceed 90%. The balance costs shall be borne by the TACs. Up to 70% of a TLAP Participant's monthly salary (capped at \$7,500 per month) can be supported under the TLAP for a period of six (6) months.
What is the programme duration?	The TLAP will run for a period of three years from 1 August 2022 to 31 July 2025.
For Enquiry	To find out more information about the TLAP, please email us at: TLAP@sbf.org.sg .



Singapore Business Federation

19 September at 11:27 · 🌐

What can companies do to cope with the surge in energy prices? What are the pain points faced by companies and how do they overcome them? How can companies kickstart their sustainability journey with job redesign?

Join us for an in-person panel discussion with [Energy Market Authority](#), TotalEnergies ENEOS, [T-RECs.ai](#) and SKP to discuss these pressing issues facing businesses today! Participants can also learn more about the Singapore Green Plan 2030, the benefits of renewable energy certificates, and hear from business leaders about how adopting green solutions can lead to cost reductions in the long-term.

Register your interest here today:

<https://forms.office.com/r/BrSFdSQ0CY>

#SBF #SBF2022 #SGBusinesses #MAP #EnergyEfficiency
#Sustainability #SME

DOLLARS AND CENTS:

HOW ADOPTING GREEN SOLUTIONS HELPS SAVE COST



LORENZO MANCINI
Head of Sales SEA,
TotalEnergies ENEOS



KANG JEN WEE
CEO & Founder, T-RECs.ai



JOEL LOONG
Head, Energy Demand Office
Energy Market Authority





HABEL TANG
Senior Director, SBF
Business Institute



LIM WEI YEH
Director,
Seno Krim Polythelene (SKP)

COMPLIMENTARY IN-PERSON SEMINAR

TUESDAY, 27 SEPTEMBER 2022
10.00 AM - 12.00 PM
(LUNCH IS PROVIDED)

SBF CENTER, 160 ROBINSON RD,
#06-01 SINGAPORE 068914



**Singapore Business Federation**

19 September at 18:29 · 🌐

The Singapore Business Federation (SBF) led 53 companies and six trade associations and chambers (TACs) to take part in the 19th China-ASEAN Expo (CAEXPO), which is being held in Nanning, Guangxi, China from 16 to 19 September 2022.

More Singapore companies are participating in CAEXPO this year, with about 44% of participating Singapore companies also taking part in CAEXPO last year. SBF CEO Mr Lam Yi Young said, "China continues to be an important market for Singapore companies, and SBF is glad to facilitate the participation of a larger number of companies at CAEXPO this year. As businesses continue to look to internationalisation for business growth, participation in platforms like CAEXPO helps them to connect with and forge new collaborations with overseas partners."

More information can be found in our press release here:

<https://www.sbf.org.sg/more-singapore-companies...>





Singapore Business Federation

11 September at 21:41 · 🌐

Business matchmaking has been catching on steadily over the past years! This is great news for businesses who are looking to grow internationally!

Jointly organised between SBF and Bank of China (BOC), the annual China International Import Expo (CIIE) is viewed as a great opportunity to connect local Singapore businesses with selected prospective buyers who share like minded aspirations and goals.

In this BiZQ article, we share the steps and selection criteria for those thinking of trying it out, and how local tea company, Fort Sanctuary benefitted from this!

Read the article here: <https://bizq.sbf.org.sg/.../matchmaking-businesses-in-china/>

#SBF #SBF2022 #SGBusinesses #BiZQ #Businesss #Matchmaking #CIIE #Internationalisation



MATCHMAKING BUSINESSES IN CHINA

第四届中国国际进口博览会贸易投资对接会
The Trade and Investment Matchmaking Conference of the Fourth China International Import Expo

主办单位: 中国国际进口博览会 国家会展中心(上海)
China International Import Expo Bureau National Exhibition and Convention Center (Shanghai)
中国银行
Bank of China



"Participating in CIIE helps companies to explore new business opportunities and boost media exposure for the exhibitors."
Mr. Cheng Jun, General Manager and Country Head of BOC

CLICK HERE
Read the Article

Produced in collaboration with a content vendor:

1. <https://bizq.sbf.org.sg/2022/09/entrepreneur-musicophile-maverick/>
2. <https://bizq.sbf.org.sg/2022/09/launch-of-onetac-sg-platform-to-strengthen-ties-promote-collaboration-within-singapores-business-community/>
3. <https://bizq.sbf.org.sg/2022/09/sbf-resumes-overseas-market-workshops-as-covid-19-pandemic-wanes/>
4. <https://bizq.sbf.org.sg/2022/09/crafting-an-impactful-csr-programme/>
5. <https://bizq.sbf.org.sg/2022/09/the-power-of-mentorship/>

Chairman's Report

Despite the many constraints in FY 2020, our team remained focused and innovative, adapting to the COVID-19 restrictions. Building upon a solid foundation laid by the team of forward-thinking Management Board, leaders and staff, I convey my deepest affirmations to all who came together. The team remains dedicated in striving to go beyond serving the physical needs of our elderly residents so as to enable them to enjoy a dignified and vibrant life.

TRANSITIONING TO A NEW NORMAL

At the start of the circuit breaker, our administrative team transitioned to telecommuting. Additional precautionary measures implemented included conducting swab tests for residents and care staff on a regular basis. 90 staff from Lions Home Bishan had to temporarily move out of their residence into Sheraton Hotel as designated by the Agency for Integrated Care (AIC) and 30 to Lions Home Bedok Dormitories as they were not allowed to inter-mingle. Staff affected had to take chartered buses that ferried them to and from work.

During this tremendously difficult period, interactions with our elderly residents and their family members became more challenging as care staff had to arrange for video calls with their loved ones through the use of the Home's tablet devices. In addition, with the transition to Phase 2, favourite activities of the residents such as Kopitiam and Kacang Puteh stall sessions were decentralised and held at each level in accordance with safe-distancing measures.

NAVIGATING A CHALLENGING PANDEMIC YEAR

I am encouraged to note how our staff team resourcefully implemented new initiatives with the help of technology. Highlights included tele-consultations and tele-trainings which were introduced at Lions Home, thereby enabling our residents to continue meeting with their doctors, specialists and psychiatrists through video conferencing platforms.

"I am pleased to witness the professionalism and care by our team, comprising both clinical and non-clinical staff, who quickly adjusted to the external changing situation by first prioritising the well-being of our elderly residents and implementing the necessary measures needed."

Past Council Chairman (PCC)
Lion Henre WH Tan (PBM)
Chairman

Our Home also scheduled tele-consultations with KK Women's and Children's Hospital for residents with osteoporosis and the National Skin Centre for those with skin disorders.

To help our elderly residents connect with others through technology, Zumba Gold and Music Percussion were amongst two new wellness programmes launched. Music Percussion utilises instruments such as bells, rattles and tambourines, to reduce feelings of anxiety thereby bringing joy to residents; whilst Zumba Gold is a low-intensity work-out routine, designed for our seniors to improve their co-ordination, heart rates and blood circulation so as to meet their exercise goals. Conducted by a qualified instructor, these exercises promote better posture, flexibility and improves their muscle strength – all while enabling our residents to continue socialising, thereby improving mental health, alertness and sleep quality.

Staff Vaccination Progress

I am pleased to witness the professionalism and care by our team, comprising both clinical and non-clinical staff, who quickly adjusted to the external changing situation by first prioritising the well-being of our elderly residents and implementing the necessary measures needed. Amongst these measures include vaccinating 193 frontline staff and 149 residents from both Homes with full doses of the COVID-19 vaccination by March 2021. In addition, our Nursing Managers and Senior Nurses were given online training on administering the injections by doctors and nurses from Singapore's National Centre for Infectious Diseases.



Chairman's Report

COMMUNITY CARE EXCELLENCE AWARDS

Under the Community Care Excellence Awards organised by AIC (categorised under the Client Experience Improvement) Lions Home had been awarded the Merit Team Award. This award recognises our Virtual Reality (VR) Engagement of Elderly in Rehabilitation - Jintronix, a web-based programme that offers a range of therapeutic games, exercises and functional assessments that assists as a rehabilitation platform and promotes cognitive engagement. Our elderly residents also had their exercises tailored to their needs with minimal staff supervision required, thereby providing more efficient and effective care for our residents.

BEST PRACTICES AND INNOVATIONS

In November 2020, AIC's Quality Productivity department organised a series of webinars and invited Lion Home's staff to share best practices implemented.

Falls Prevention

During the webinar, staff learnt to implement Fall Care Bundles for residents in order to prevent and manage falls. The Fall Care Bundles was developed from evidence-based practice of residents while considering their values, beliefs and preferences. Through this experience, the fall prevention team learnt to plan, implement, review and evaluate strategies that will reduce or prevent falls, thus enhancing the residents' quality of life while maximising their functional independence.

Nasogastric Tube (NGT) Feeding Process

The aim of this project was to standardise and streamline the process for tube feeding so as to reduce the risk of complications. Blockages of NGT were reduced and the frequency of changing NGT decreased. The process has been implemented in both Homes.

Improving the Showering Process at Lions Home

In analysing the dataset of problems faced by our residents, our team identified and worked towards the objective of improving showering efficiency and reducing incidents of falling. Some of the solutions implemented include eliminating unnecessary movement of staff, encouraging communication and organising a schedule for staff to check on equipment the day before. The team intends to implement this project to both Homes.

Implementation of OmiVista Mobii Interactive Projection for Residents

OmiVista Mobii is a mobile motion-activated projection system which is widely lauded for helping elderly residents with dementia. Its implementation at Lions Home had been beneficial for our residents because the bright colours of images and impressive sound system helps keep them engaged in reminiscence, thereby preventing dampened moods and reducing possible behaviour and psychological symptoms of dementia.

BOUNCING BACK STRONGER

Pivot to Digital Fundraising Campaigns

At Lions Home, we have acclimatised to the new landscape and are endeavouring to do more in our fundraising efforts by pivoting to digital giving campaigns. Three digital fundraising campaigns were launched on our website in the third quarter of 2020. Firstly, our annual Flag Day was rebranded as an e-Flag Day and exceeded the targeted amount of \$95,211 raised. This allowed our community of donors and supporters to continue giving to us in support of our programmes and services through a digital giving platform. Secondly, we had the COVID-19 Relief campaign which enabled our Home to purchase essential equipment such as masks, gloves and isolation gowns.

Our third digital giving initiative, A Desire to Serve, raised funds which were directed towards residents' medication fees and helped offset costs for adult diapers. We are also thankful for Tote Board's Enhanced Fundraising Programme which provides dollar-for-dollar matching, enabling our Home to meet targets despite the uncertain COVID-19 situation.

Introduction of e-Volunteering Programmes

At Lions Home, we remain unwavering in our cause to bring a higher standard of care to our patients, thinking ahead as we adjust to the new normal and navigating the uncertainties together. Inevitably, the pandemic had raised numerous challenges for Lions Home's key volunteering activities as well. By leveraging on virtual meeting platforms, interactions and activities guided by volunteers such as screening of pre-recorded videos and e-Volunteering sessions could continue. Despite the pandemic, we continued to have regular befriending and engagements with educational institutions and corporate partners.

Production of 40th Anniversary Commemorative Book

To produce the 40th anniversary commemorative book, the committee worked tirelessly to detail the journey, achievements and milestones made by Lions Home. The committee strived to present the continued contributions Lions Home had made to the community and acknowledged the efforts of stakeholders who had contributed their time, energy, skills, funds, and gifts in kind over the last four decades. We are very pleased to have launched the book on 5 May 2021 at the Marina Bay Sands Hybrid Studio which was graced by donors and members of the press. Lions Clubs members from overseas also attended the event over virtual platforms. We would also like to commend the dedication of everyone who had been involved in the archival of documents, memories and photos which celebrated these milestones in the last 40 years.

FINANCIAL STATUS

For FY 2020 (ending 31 March 2021), we are grateful to report that the total comprehensive income is \$1,488,896 as compared to \$1,081,464 in FY 2019. Also, the total income increased from \$19,552,647 to \$21,457,804. This amount includes donations raised by Lions Clubs, corporate organisations, fundraising projects and the general public.

Correspondingly, the increase in various government subsidies and grants from SGD \$13 million to SGD \$15 million helped to defray the high operating expenses of the two homes especially during the COVID-19 pandemic. The total expenses at Lions Home were also higher at \$19,968,908 as compared to \$18,471,183 in FY 2019 (ending 31 March 2020). Higher staff costs, as covered by government grants, were incurred so as to provide additional accommodation for nursing staff as part of Safe Management Measures to keep residents safe during the COVID-19 pandemic. In addition, Lions Home continued to provide subsidies for needy patients which helped defray their medical costs. We are very grateful for the additional government grants as well as those who generously donated to support meeting the needs of our residents.

MOVING TOWARDS A POST-COVID FUTURE

Although the current climate may be filled with uncertainty due to COVID-19, Lions Home will remain steadfast in continuing to transform so as to remain relevant and overcome challenges. Living in this new normal, as telecommunications becomes commonplace, our team will look towards strategising on how we can forge ahead to fulfil our mission by building relationships with all stakeholders, as well as improving on how we could engage and dedicate ourselves further to our cause.

Lions Home will remain unwavering in our mission to enable our elderly beneficiaries to lead enriched lives through holistic and integrated care. I am indeed thankful that all of our accomplishments were attainable with the hard work of everyone. I would like to express my heartfelt appreciation for the warm and generous hearts of all our corporate sponsors as well as donors. Similarly, to all our dedicated volunteers, thank you for your contributions over the past year in enabling our home to reach out to the residents we serve. I would also like to thank our health and social partners such as the Ministry of Health and AIC for continuing to support us in all our endeavours, seeing us through this period where together we will emerge stronger and more experienced than before.



Past Council Chairman (PCC)
Lion Henre WH Tan (PBM)
Chairman

Golden

TIMES

ISSUE 1 (JAN-FEB) | 2022




CHAIRMAN'S

Message



★

The Management Board and staff of Lions Home For The Elders wishes our readers good health and a bountiful year ahead as we usher in the Lunar New Year in 2022. I hope you will experience the joy of familial, close-knitted ties as we celebrate the Year of the Tiger. I am glad Lions Home has helped our residents feel the same warm spirit in this festive season.

In affirming the commitment of all who dedicated their time and effort to support Lions Home, I am pleased to share that we recently held our Meeting and Recognition event at Marina Bay Sands on 11 December 2021. Both the Long Service Awards and Outstanding Clinical Leader Awards were presented to inspirational administrative and clinical staff who consistently provided quality care and service. In addition, the Distinction, Merit and Excellence Awards, as well as the Friends of Lions Home Award were presented to our donors and partners in recognition of their steadfast support to Lions Home. Furthermore, a panel of thought leadership experts shared on the topic of 'Future of Healthcare and Technology, including Metaverse and AI'. We will continue to innovate, weave new ideas and implement future technologies to benefit our residents.



In line with the direction of pivoting Lions Home towards the broader digital transformation trend, I am also pleased to announce that we have launched our official Facebook Page at www.facebook.com/LionsHomeSG. In addition, our publication for Golden Times will make the transition from print to digital format. In light of progress, Lions Home will remain unwavering in our efforts to transform by leveraging on digital tools and platforms in the year ahead, amidst the changing times.

Past Council Chairperson (PCC)
Lion Henre WH Tan (PBM)
Chairman





Lions Home is now on
Facebook! Follow us
@ LionsHomeSG

01

Chairman's Message

As the year draws to a close, Lions Home has experienced a challenging time in the wake of a global pandemic. This is especially so for our clinical and care staff. With the support of the management and donors, a series of reduced but significant celebrations were held on Nurses' Day as a gesture of appreciation for our clinical team.

“

We are optimistic that the new year in 2022 will herald a better time ahead.

”

In maintaining safe management measures, we have stepped up Antigen Rapid and Polymerase Chain Reaction Testing frequency from fortnightly to at least twice a week. Since September 2021, visitors to the two Homes at Bedok and Bishan have been suspended. Measures were also taken to ensure that residents and staff remain within their wards/work area with no intermingling allowed.

A Recognition Night event will traditionally take place in December where our volunteers, donors and friends of the Lions Home For The Elders - our valued partners - who have shown their grit, heart and passion to serve with pride in service in this difficult period, will be honoured.

We are optimistic that the new year in 2022 will herald a better time ahead.

Past Council Chairperson (PCC)
Lion Henre WH Tan (PBM)
Chairman

Mind-Able Programme



Are you able to piece this puzzle together?

Turn the page to find out more about our intervention programme to slow the deterioration of mental function.

"While no one can change the outcome of dementia or Alzheimer's, with the right support, you can change the journey."

~ Tara Reed, author of "What to do between the Tears"

What is Mind-Able Programme?

Dementia is a chronic, progressive deterioration of mental function typified by loss of memory. It is prevalent and often overlooked among the elderly, especially in Singapore's ageing population. In 2005, there were 22,000 elderly (65 years and above) with dementia and this number is projected to increase to 53,000 by 2020.*

Clues to the presence of dementia may be subtle and nonspecific, and unrecognised early dementia may tend to worsen over time. Hence, it is vital to have early intervention to slow the progress. Upon receiving a diagnosis of dementia, a life-changing transition will take place.

Early intervention includes providing support and care to help them deal with the challenges of their diagnosis and to aspire them towards a meaningful and positive life. Caregivers would also be well-informed on how to cope and the type of help available to them.

Hence, the Mind-Able is introduced to help the elderly at risk or diagnosed with mild dementia.

Objectives

- The Mind-Able programme aims to:
- Slow the progression of dementia
 - Improve quality of life for the elderly
 - Increase ability to communicate and socialisation
 - Alleviate caregivers stress

What types of activities?

Elderly will be engaged with our Therapy Aides in our centres with activities such as:

- Puzzles and games
- Art therapy
- Musical interaction
- Physical exercise
- Reminiscing environment and related games

Some of these can then be continued at home with their caregivers.

What are the benefits?

Improvement of cognitive functionality for elderly with dementia



Improvement in the quality of life of elderly

Alleviate stress of caregivers & foster better relationship with their loved ones

Other related services

- Home-based programmes
- Cognitive screenings for communities and corporations

Who should attend?

- **Healthy elderly aged 55 and above** who are interested in participating in cognitive stimulating and physical activities that are geared towards promoting maintenance of cognitive function can join this programme.
- **Elderly aged 55 and above** at early stage of dementia.
- **Caregivers aged 21 and above** who wish to learn new skills to engage their elderly at home and provide support for their elderly while accompanying them through the sessions.

Chairman's Message

The Management Board and staff at Lions Home would like to wish our readers a Happy New Year. We hope that you are doing well and keeping safe. For the many ways in which you have supported the Lions Home and its residents, we would like to express our gratitude.

This issue covers heart-warming stories on how pre-schoolers and students have raised funds for Lions Home through their own initiatives. It is uplifting to witness the younger generations carrying out meaningful endeavours with a passion to support the residents. Over the last few months, wellness programmes were launched to help keep residents fit and energised. Our talented staff had a delightful time decorating the Home in the spirit of the festivities. Readers will also find out about how the residents are faring in this second year of the pandemic.

Majority of Lions Home's frontline workers and residents have taken the full doses of the vaccine. Those who have yet to or opted not to take the vaccination are required to have a swab test that is conducted once every two months. Lions Home continues to implement stringent monitoring of entry into the Home with registration and temperature taking for all visitors.

“ **Lions Home marked a significant milestone in 2020, celebrating its fortieth year since it began as a community home in 1980.** ”

Lions Home marked a significant milestone in 2020, celebrating its fortieth year since it began as a community home in 1980. The 40th Anniversary Commemorative Book was published, featuring Lions Home's journey through history and detailing milestones made by our stakeholders. It showcases how Lions Clubs members for the last “40 years celebrate and transform lives”. A Book Launch will be made in conjunction with a Recognition Event in May, to show our appreciation to donors and healthcare staff amidst this pandemic.

Do remember that charitable donations are not defined by age; it is an act of kindness, that no matter how small, will make an impact on someone's life.

Past Council Chairperson (PCC)
Henre WH Tan (PBM)
Chairman



Golden TIMES

ISSUE 2 (MAR-APR) | 2022



From left: Ms Doreen Lye, CEO (Lions Home), Mr Lee Ah Seng (Chairman of Chin Lum Club, 1967 to 2010), Ms Patsy Pang, Director of Nursing (Lions Home) and Mr Christopher Teo, Deputy CEO (Lions Home).

LIGHT UP A SMILE

Fundraising Campaign

Our Light Up A Smile fundraising campaign has concluded on 31 March, and we are glad to share that we have achieved our fundraising target of \$80,000. In addition, the total funds raised will be matched dollar-for-dollar under the Community Silver Trust fund, doubling the impact of your donation!

We would like to express our sincerest thanks to Chin Lum Club (镇南俱乐部) for donating \$30,000 to our campaign. Chin Lum Club was established in 1920 for Singaporean Hainanese sailors.

We would also like to thank all donors and Lions Clubs of Singapore who have generously contributed to the campaign, especially during this pandemic period. Your support provides us with the resources to continue providing wellness and recreational activities for our residents over the next three years.

Every contribution matters and makes a difference in helping our residents remain active with a sense of purpose and fulfilment. We can do so much more because of you. Thank you for lighting up the smiles of our residents!

You can still continue to support us at <https://lionshome.org.sg/make-an-impact/donate/>



Engaging our residents through a variety of wellness activities.

In partnership with fundraising crowd-funding platform Ray of Hope Initiative (ROHI), HealthServe was invited to Airbnb Singapore office to break fast with their team.

Before we broke fast together, Yvonne (HealthServe Casework and Social Services) had the opportunity to share with them about the work HealthServe does, who we help and why.

Four of our migrant brothers also had a chance to share about their stories, the issues they faced when they got injured, difficulties encountered navigating a system unfamiliar to them, as well as the help they have received from HealthServe and how it impacts their current situation. Many of the team there were visibly moved and during a time where they were able to introduce themselves they were able to express their thanks directly to our migrant brothers:

"I'm very grateful you are here today to share your story. Thank you so much for your contribution, your nation building..."

"We hear you, we see you, we feel you..."

After the sharing session everyone broke fast together with a delicious buffet spread provided by Airbnb Singapore which consisted of Satay, Butter Chicken, Keropok, and many more sumptuous delicacies. Many conversations were exchanged over dinner where Airbnb and ROHI staff were given the opportunity to get to know our migrant brothers better. It was during the conversations that some of the staff recognized how similar they were, especially having to live in another country for an extended period of time.

RJ was one of our migrant brothers who attended. It was the first time he got the opportunity to visit the headquarters of a large corporate company. He shared with a tear in his eye, "In Singapore, the office are all very beautiful. Good to see many people get to enjoy. Many sweat and tears go into construction."



End

In April Singaporeans aged 21 and above will receive a Solidarity Payment of \$600 as part of government measures to tackle COVID-19.

As Singaporeans receive this one-time payout, we ask members of the public to think of the 981,000 over low wage migrant workers in Singapore during this difficult time.

For the past 14 years, HealthServe has provided holistic care to Singapore's migrant community. We are a NGO that provides assistance on all fronts:

1. Physical Health: Through our Geylang, Mandai, Jalan Papan clinics, we provide affordable medical and dental services to low wage migrant workers.
2. Mental Health: HealthServe is the first NGO to address the mental and emotional wellbeing of migrant workers through various initiatives such as counselling, group work sessions and self development workshops.
3. Casework Assistance: HealthServe provides casework support to Special Pass and Work Permit holders with injury claims or employment issues.
4. Social Assistance: HealthServe secures free meals for migrant workers in need through our Food Project at Geylang and Jalan Besar. We also provide weekly MRT top-ups to fund transportation.
5. Advocacy and Education: We work holistically with hospitals, other NGOs, universities, government agencies and even employers to raise awareness and increase understanding of the problems and issues migrant workers face to affect policies behind-the-scenes.

HealthServe depends largely on public donations for our daily operations. To help us continue to provide long-term support for migrant workers in need, consider contributing some of your Solidarity Payment to us! Donate at <https://www.healthserve.org.sg/donate> and visit our website for more information! As an IPC Registered charity, all donations to HealthServe are 250% tax deductible.

End

STAND IN SOLIDARITY WITH HEALTHSERVE

By 14 April, all Singaporeans aged 21 and above will receive a **Solidarity Payment of \$600**. We ask Singaporeans to think of the over **981,000** low-wage migrant workers during this time. By donating, you can help HealthServe continue to provide **HOLISTIC CARE** for migrant workers in these 5 key areas:



PHYSICAL HEALTH

Through our Geylang, Mandai, Jalan Papan clinics, we provide **affordable medical and dental services** to low wage migrant workers.



MENTAL HEALTH

HealthServe is the first NGO to address the mental and emotional wellbeing of migrant workers through various initiatives such as counselling, group work sessions and self development workshops.



CASEWORK ASSISTANCE

HealthServe provides **casework support** to Special Pass and Work Permit holders with injury claims or employment issues.



MRT SOCIAL ASSISTANCE

HealthServe secures **free meals** for migrant workers in need through our Food Project at Geylang and Jalan Besar. We also provide weekly **MRT top-ups** to fund transportation.



ADVOCACY & EDUCATION

We work with hospitals, other NGOs, universities, government agencies and employers to raise **awareness** and increase understanding of the issues migrant workers face to affect policies behind-the-scenes.



HealthServe depends largely on public donations for our daily operations. To help us continue to provide long-term support for migrant workers in need, consider contributing your Solidarity Payment to us!

5 WAYS TO DONATE

1. Credit/debit card (Preferred)
2. PayNow
3. Internet Transfer
4. Cheque
5. Giving.sg



#ISTANDWITH HEALTHSERVE

Donate to us online at healthserve.org.sg/donate

HealthServe is registered as a charity under the Charities Act and is approved as an Institution of Public Character (IPC). All outright cash donations for \$50 or more will receive from IRAS 2.5 times the value in tax-deduction. For any questions please email giving@healthserve.org.sg

Recently, HealthServe organised our first #OurHome tours to give an opportunity for our active volunteers to learn more about the places where migrant workers typically meet. During the tour, some of the places visited around Little India included a bank, a Bangladeshi restaurant and provision shops frequented by migrant workers.

We were happy to partner with Debbie Fordcye from Transient Workers Count Too - TWC2 to lead the tour for our volunteers who were able to learn more about the stories behind the spaces which our South Asian migrant brothers frequent on a Sunday evening. The tour was both educational and thought-provoking as Debbie gave our participants time to ask questions and encouraged them to think about how the spaces are used and designed. Other interesting highlights of the tour include understanding the deeper implications behind the decision making of migrant workers as well as how they socialise on a Sunday evening after a long week at work.

We are glad that #OurHome tours allowed participants who took part to immerse themselves in the way of life of South Asian migrant workers here in Singapore. One of our participants shared that "It provided a rare opportunity to observe the lives of the migrant worker communities from up close", whilst another of our volunteer who participated shared that "It was good to get to know more about the migrant workers besides seeing them at the clinic."

End



Interested to learn more about migrant worker issues, what HealthServe does, and the various volunteering/donor/partner opportunities available? Come along to our Interest Night next Tuesday evening, 20th August 2019 to hear from our Head of Medical Services, Casework

and Social Services, Communications and Engagement as well as from some of the migrant brothers in our community!

DETAILS:

Date: Tuesday, 20th August 2019

Time: 7pm - 8.30pm (light snacks will be provided)

Venue: HealthServe Head Office, 1 Lorong 23 Geylang #01-07 Building 4, Singapore 388352
(Inside Highpoint Social Enterprise)

SCHEDULE:

6.45pm - 7pm: Registration

7pm - 7.30pm: Overview of issues migrant workers face and various case studies

7.35pm - 8pm: Overview of HealthServe, volunteer opportunities and future plans

8pm - 8.30pm: Tour of the Geylang centre and clinic and FAQ session with HS Staff and migrant brothers.

End





HealthServe would like to invite you to our upcoming fund-raising event held in conjunction with W!LD RICE - one of Singapore's leading professional theatre companies. Come join us for this meaningful event, which includes a luncheon, and the award winning play - Supervision.

Date: Sunday, 11th August 2019

Time: 12pm - 4pm (Performance at 2.30pm)

Venue: Ngee Ann Kongsi Theatre @ W!LD RICE (Inside the New Funan Mall)

Thank you to everyone who already purchased tickets during the presales. We are excited for all of you to join us! If you have yet to purchase tickets, we still have Platinum and Gold tickets available here: <http://www.healthserve.org.sg/healthserve-fundraiser-2019>

Proceeds of the event will go towards supporting the work that HealthServe does in serving our community of migrant workers through healthcare, counselling, casework and social services as well as to raise awareness about the migrant worker community in Singapore.

If you would like to find more about what HealthServe does or learn other ways to support HealthServe, please join us at our interest night this Thursday evening, 7:30-8:30pm at the

HealthServe Geylang Main Office. You can sign up here until Tuesday, 2nd July.
<https://forms.gle/2GNJbzkzrmM2omD6A>

End

In partnership with Jurong Town Corporation (JTC), HealthServe brought our Chinese migrant brothers for a gallery tour a few weeks ago. The tour was held at JTC's office at One North where our Chinese brothers learnt about the vibrant research and business park – an icon of Singapore's knowledge economy. For some of our Chinese brothers, this unique work-live-play-learn environment reminds them of similar knowledge city projects back home!

Our Chinese migrant brothers also learnt how residential, lifestyle communities and educational institutes are integrated with industry-centric development within one-north to provide for an environment where people can come together to collaborate and co-create.

After the tour, our Chinese migrant brothers participated in a 3D Pen Workshop at the atrium of Fushionopolis, The Connexis. Here, they expressed their creativity and created 3D printed replicas of their hometown, and even a model artwork of HealthServe too!

This workshop was also held in collaboration with Sama Sama, Singapore's first ever migrant worker traveling art-tech exhibition. HealthServe partnered with Sama Sama previously in February 2019 for its inaugural exhibition at SMU. Sama-Sama which means "Same Same", draws parallels between the aspirations of migrant workers and ourselves.

End

	LYDIA BOWDEN DIRECTOR OF STRATEGIC PARTNERSHIPS IJM SINGAPORE Originally from America, Lydia has been living in Singapore for the past seven years with her husband, Jonathan, and two small children. She holds an undergraduate degree in Social Work and a Masters in International Development, and has previously lived and worked in Moscow and London on issues related to forced migration and human trafficking. While in Singapore, Lydia launched her church's Mercy and Justice ministry, overseeing local and international partnerships and facilitating volunteer opportunities for over 100 people. In February 2019, Lydia launched the Singapore office of the International Justice Mission (IJM), a global anti-slavery organization that protects the poor from violence throughout the developing world. IJM partners with local authorities to rescue victims of violence, bring criminals to justice, restore survivors, and strengthen justice systems. MICHAEL CHIAM EXECUTIVE DIRECTOR, HAGAR SINGAPORE Having spent 20 years serving in the international humanitarian sector with a MBA in NGO leadership, Michael brings with him extensive programme and executive experience, providing direct oversight of numerous global development projects in about 25 countries worldwide. Grateful for the chance to marry both his life mission and his career, Michael's personal mantra keeps him focused and rooted even in turbulent times – "You only live once, so make the life in your years count." Michael is the Executive Director of Hagar Singapore. Hagar is an international NGO committed to the recovery and economic empowerment of women and children who are survivors of extreme human rights abuse, particularly in the area of human trafficking, gender-based violence, & sexual exploitation..	
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On September 9th, we had the pleasure of hosting our third 'Coffee and Kaya Chat' sharing thoughts about the topic of "Corporate leaders who give back". This was an opportunity to hear how corporate leaders today can push for better volunteering and giving back. These talks are held in partnership with Twitter Singapore.

Our panelists were Dr. Jeremy Lim, a medical doctor and currently a partner at Oliver Wyman SG and Ronald JJ Wong, a lawyer and Director at Covenant Chambers LLC. The panel was moderated by Suwen, HealthServe's Head of Communications and Engagement.

Dr. Jeremy Lim serves on the board at HealthServe and is also involved in other organisations like Dover Park Hospice, SNTC and Tampines-Meridian. He also teaches health system reforms at the National University of Singapore.

During the panel, Dr. Lim expressed his enthusiasm at how more and more people are looking to be informed about migrant issues and that volunteering isn't about having free time but making time to give back.

Our second panelist Ronald JJ Wong believes that lawyering is about serving people to bring about justice, well-being and peace. He volunteers pro bono with NGO's (including HealthServe). He also advocates for social justice on various platforms and his company consistently gives back through taking up pro bono cases.

The panel agreed that it was important for people to be exposed to the issues on the ground first and learn what help is needed through relationship building and listening instead of coming with their own initiatives which may not be helpful to the organisation who needs it.

After a Q&A, attendees had a chance to chat to the panelists and finish off the yummy food provided by Twitter.

Michelle, a previous HealthServe clinic Intern said, "I found the concept of how we should really focus on building upon the capabilities of the qualities that we want to serve, interesting, and I think it's really important for individuals as well as corporates to think about"

End



CHANGE IN HEALTHSERVE CLINIC PRICING FROM 1 AUGUST 2020

1. Acute Conditions

(cough, running nose, fever, muscle pain, etc)

- walk-in / collect queue number
- Includes doctor consultation and medication



Price:

\$8

No change

2. Chronic Medical Condition

(high blood pressure, diabetes, cholesterol, asthma, etc)

- by appointment booking
(Whatsapp/Call: +65 3138 5388)
- Includes doctor consultation and medication



Price:

\$15

NEW!!!

3. Dental

- Extraction, filling, scaling, cleaning
- Includes consultation, treatment and medication



Price:

\$15

No change

Our clinic services are available for Special Pass, Work Permit and S-pass holders.

The following clients will have their fees waived:

- Special pass holders
- HealthServe registered Casework clients
- If referral to A&E is made




Paul

“Seeing all the things that HealthServe has done for me, and all the little kinds acts that strangers on the street have offered, I cannot ask for more.”

During his time with HealthServe, Paul was known for two things: being an avid learner of English, and for splurging on gifts for the HealthServe office and staff.




AS

“Before my injury I don't know what is depression, but after that I knew.”

AS, the gentle giant, is father to a precious baby daughter he was unable to see for 6 months due to complications to his WICA claim. However, he received his rightful compensation and is now back in Bangladesh rearing ducks!



Q

A

“I have seen migrant workers sitting at the back of lorries. Can they travel safer?”

“How long do migrant workers work?”

“If migrant workers work longer in Singapore, would their pay be increased?”

“Why do migrant workers sit at the void deck and not at their dorms?”

“Do migrant workers get bullied?”



“They didn't know about the things we take for granted. For example, when we are sick we can take MC. We don't think much about it. But for migrant workers, **if they are not working, they are not paid**. If they don't show the medical certificate they will definitely not be paid.”

Michael Cheah
Executive Director, HealthServe




“

In my free time, I will cook my favourite Biryani dish. I would watch YouTube video to teach myself how to cook.

Mr A and Mr B's employers were no longer able to give them their salary. However, they still needed to pay rent. HealthServe supported them by providing rental aid and lunch for them.




“

It was humbling to hear the unique narratives, dreams and worries of the migrant brothers. This HealthServe journey has enabled me to develop empathy for this community.

Sarah

Sarah is currently an undergraduate at NUS studying social work and working towards becoming a medical social worker. Her internship here helped her learn about a disadvantaged community she previously wasn't so acquainted with.