

SPMS OPEN HOUSE 2020

8 FEB

10.00 AM
- 3.00 PM

Programme Schedule

	LECTURE THEATRE 1	LECTURE THEATRE 2	LECTURE THEATRE 3	MAS ATRIUM STAGE	CHEMISTRY LABORATORIES	PHYSICS LABORATORIES
10.00 AM						
10.30 AM	Chemistry Degree Programme Talk 10.00am - 10.30am					
11.00 AM		Physics Degree Programme Talk 10.30am - 11.00am		Chemistry Experiment 10.30am - 11.00am		
11.30 AM	Chemistry Sample Lecture 11.00am - 11.30am		Math Degree Programme Talk 11.00am - 11.30am	Physics Experiment 11.00am - 11.30am		Physics Lab Tour 11.00am - 12.00pm
12.00 PM	Chemistry Sharing Session Alumni & Students 11.30am - 1.00pm	Physics Sample Lecture 11.30am - 12.00pm		The Mathemagician 11.30am - 12.00pm	Chemistry Lab Tour 11.30am - 12.15pm Meeting point at level 4 above MAS Atrium	Meeting point at level 4 above MAS Atrium
12.30 PM		Physics Sharing Session Alumni & Students 12.00pm - 1.30pm	Math Sample Lecture 12.00pm - 12.30pm	Chemistry Experiment 12.00pm - 12.30pm		
1.00 PM			Math Sharing Session Alumni & Students 12.30pm - 1.30pm	Physics Experiment 12.30pm - 1.00pm	Chemistry Lab Tour 12.30pm - 1.15pm Meeting point at level 4 above MAS Atrium	Physics Lab Tour 12.30pm - 1.30pm
1.30 PM	Chemistry Degree Programme Talk 1.00pm - 1.30pm			The Mathemagician 1.00pm - 1.30pm	Meeting point at level 4 above MAS Atrium	Meeting point at level 4 above MAS Atrium
2.00 PM		Physics Degree Programme Talk 1.30pm - 2.00pm		Chemistry Experiment 1.30pm - 2.00pm	Chemistry Lab Tour 1.30pm - 2.15pm Meeting point at level 4 above MAS Atrium	
2.30 PM			Math Degree Programme Talk 2.00pm - 2.30pm	Physics Experiment 2.00pm - 2.30pm		Physics Lab Tour 2.00pm - 3.00pm
3.00 PM				The Mathemagician 2.30pm - 3.00pm		Meeting point at level 4 above MAS Atrium
3.30 PM	NTU Campus Tour on Bus to Pioneer MRT					

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Programme
Highlights

DEGREE PROGRAMME TALKS



CHEMISTRY PROGRAMME TALK BY DR SUMOD PULLARKAT

🕒 10.00 am - 10.30 am
1.00 pm - 1.30 pm

📍 Lecture Theatre 1



PHYSICS PROGRAMME TALK BY PROFESSOR CHEONG SIEW ANN

🕒 10.30 am - 11.00 am
1.30 pm - 2.00 pm

📍 Lecture Theatre 2



MATHEMATICS PROGRAMME TALK BY DR KU CHENG YEAW

🕒 11.00 am - 11.30 am
2.00 pm - 2.30 pm

📍 Lecture Theatre 3

SPMS LAB TOURS

*PLEASE ASSEMBLE AT THE LEVEL 4 MAS ATRIUM BEFORE THE SPMS LAB TOUR STARTS.

CHEMISTRY

🕒 11.30 am - 12.15 pm
12.30 pm - 1.15 pm
1.30 pm - 2.15 pm

📍 Chemistry Laboratories



Modeled after the new University of Oxford Chemistry building, we provide a safe and modern environment for teaching and research. The state-of-the-art instruments for research, including a range of mass spectrometers, confocal microscope and two SCD X-ray are open for use by undergraduates and graduate students.

- Central Instrumentation Lab
- Undergraduate Teaching Lab
- Research Lab

PHYSICS

🕒 11.00 am - 12.00 pm
12.30 pm - 1.30 pm
2.00 pm - 3.00 pm

📍 Physics Laboratories



Our professors include world-class experts in quantum technology, nanotechnology, superconductivity and more. We regularly publish in top scientific journals, and our Division has been highly successful in attracting competitive research funding, which has contributed to the establishment of one of the best laboratory facilities and research centres.

- Cold Atoms and Quantum Sensing Lab by Professor Lan Shau Yu
- Optical Spectroscopy of Nanomaterials by Professor Cesare Soci
- Spintronics Lab by Professor Piramanayagam

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Programme Highlights

ALUMNI AND STUDENT SHARING SESSIONS

CHEMISTRY AND BIOLOGICAL CHEMISTRY

🕒 11.30 am - 1.00 pm
📍 Lecture Theatre 1

ALUMNI

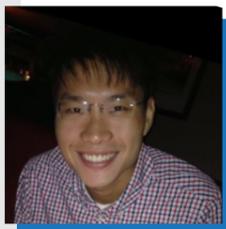


"IF YOU WANT TO GO FAST, GO ALONE.
IF YOU WANT TO GO FAR, GO TOGETHER."

SIVARAJAN S/O KASINATHAN
Senior Process Development Scientist at
Pfizer Asia Pacific Pte Ltd



CHERYL ONG
Governance and Strategy Manager at
New Zealand Banking Group Ltd



KENNARD GAN
Forensic Scientist at
Ministry of Home Affairs Singapore



ALAN CHEONG HAO LUN
Senior Chemist at Merck & Co.

STUDENT EXPERIENCE



"NEVER TRY,
NEVER KNOW!"

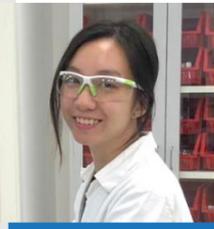
TAY WEE SHAN
Chemistry and Biological Chemistry,
Year 4 Student



NG ZI XUAN
Chemistry and Biological Chemistry,
Year 4 Student

*The Global Undergraduate Awards Summit
Highly Commended Paper
WorldSkills Singapore – Gold Medal*

INTERNSHIP EXPERIENCE



"DON'T FEAR CRITICISM;
FEAR STAGNATION"

CLAUDIA LEE KEHUI
Bioanalytical Research Intern at Illumina



"WHEREVER LIFE PLANTS YOU,
BLOOM WITH GRACE."

AMELIA TEO TZE YEE
Flavor Analytical Intern at
International Flavors & Fragrances

PHYSICS & APPLIED PHYSICS

🕒 12.00 pm - 1.30 pm
📍 Lecture Theatre 2

ALUMNI



PHUA YU NING
Regional Operations Associate at
Shopee Singapore



"PLAY HARD, WORK SMART.
FOLLOW YOUR HEART, PLAN YOUR PATH."

THONG JIA RUI
Integration Engineer at
GlobalFoundries

STUDENT EXPERIENCE



"DIFFICULT ROADS OFTEN
LEAD TO BEAUTIFUL DESTINATIONS."

SOE GON YEE THANT
Physics and Applied Physics,
Year 2 Student



"YOU ARE CONFINED ONLY
BY THE WALLS YOU BUILD YOURSELF."

YAP SHU RUI JULIANNA
Physics and Applied Physics,
Year 3 Student
Accelerated Bachelors Programme (ABP)

INTERNSHIP EXPERIENCE



ANG JIA MIN
Reliability Engineer Intern at
GlobalFoundries



"THAT WHICH YOU BELIEVE
BECOMES YOUR WORLD."

CHUA YING XUAN JOCELYN
Technology Consultant Intern at
PricewaterhouseCoopers (PwC)

MATHEMATICAL SCIENCES

🕒 12.30 pm - 1.30 pm
📍 Lecture Theatre 3

ALUMNI



VALERIE EVANGELIN
Account Manager at
Facebook Singapore



"ALWAYS LOOKING FORWARD
TO LEARNING MORE!"

KENNETH OOI
Doctoral student at School of Electrical and
Electronic Engineering, NTU

STUDENT EXPERIENCE



LI YONG MING
Mathematical Sciences,
Year 4 Student

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Programme Highlights

SAMPLE LECTURES



USING CHEMISTRY TO SOLVE CRIMES BY PROFESSOR RODERICK BATES

🕒 11.00 am - 11.30 am

📍 Lecture Theatre 1

In his sample lecture, Professor Roderick Bates will give you a glimpse of what it is like to be in one of the largest and most popular courses in NTU - Forensic Science - which attracts over 1,000 students each year in NTU and more than 16,000 online worldwide via Coursera.



FANTASTIC SCIENCE: THE LAWS OF OUR PHYSICAL WORLD AND HOW TO USE THEM BY DR HO SHEN YONG

🕒 11.30 am - 12.00 pm

📍 Lecture Theatre 2

Dr Ho Shen Yong is currently the Principal Lecturer at the School of Physical and Mathematical Sciences and Assistant Dean (Academic) of College of Science in Nanyang Technological University, Singapore. Dr. Ho has won three Nanyang Education Awards at College and University levels. He was also awarded the SPMS Teaching Excellence Award consecutively for four years from 2012 to 2015.



INFINITE EXPECTATIONS: ANOTHER LOOK AT PROBABILITY BY PROFESSOR NICOLAS PRIVAULT

🕒 12.00 pm - 12.30 pm

📍 Lecture Theatre 3

Prior to joining NTU, Professor Nicolas Privault had been teaching at the Universities of Evry, La Rochelle, and Poitiers in France. Some of his research interests include Stochastic Analysis, Probability, and Mathematical Finance. Currently, he is also heading the Master of Science in Analytics as the Programme Director.

LIVE EXPERIMENTS & INTERACTIONS

CHEMISTRY SPECIAL SHOWCASE

🕒 10.30 am - 11.00 am
12.00 pm - 12.30 pm
1.30 pm - 2.00 pm

📍 MAS ATRIUM STAGE

PHYSICS SPECIAL SHOWCASE

🕒 11.00 am - 11.30 am
12.30 pm - 1.00 pm
2.00 pm - 2.30 pm

📍 MAS ATRIUM STAGE

MICHELSON INTERFEROMETER: AN EYE ON THE UNIVERSE BY PROFESSOR DAVID WILKOWSKI

Widely used today, interferometers were actually invented in the late 19th century by Albert Michelson. The Michelson Interferometer was used in 1887 in the "Michelson-Morley Experiment", which set out to prove or disprove the existence of "Luminiferous Aether" - a substance at the time thought to permeate the Universe. All modern interferometers have evolved from this first one since it demonstrated how the properties of light can be used to make the tiniest of measurements.

MATHEMATICS SPECIAL SHOWCASE

🕒 11.30 am - 12.00 pm
1.00 pm - 1.30 pm
2.30 pm - 3.00 pm

📍 MAS ATRIUM STAGE

THE MATHEMAGICIAN BY DR FEDOR DUZHIN

The magician keeps the method secret, but the mathematician wants you to understand.

LIVE EXPERIMENTS BY SPMS CHEMISTRY STUDENTS

Are you interested to learn chemistry? Come and experience the thrill of manipulating chemicals directly, study their properties and reactions, and watch the use of laboratory equipment and modern laboratory instrument live in action.

MECHANICAL PAUL TRAP: HOW TO STABILISE THE UNSTABLE BY PROFESSOR DAVID WILKOWSKI

The quadrupole ion trap, also known as a Paul trap, was conceived in 1954 by Wolfgang Paul, a German physicist, whilst working in the fields of molecular beam and particle accelerator physics at the University of Bonn, Germany. A Paul trap confines charged particles, for example ions, using an oscillating radio frequency field in combination with a static electric field to produce a 3D quadrupole potential. His work on the Paul trap earned him a share of the 1989 Nobel Physics Prize, alongside Hans Dehmelt (who constructed the Penning trap, another type of ion trap which combines an electric and magnetic field to trap charged particles).

Here's the first trick:

Think of a number between 20 and 100. Got it? Now add your digits together. Subtract the total from your original number. Finally, add the digits of the new number together. What did you get?

That's the Magic of 9.

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Event Map

LEVEL 3 MAS ATRIUM

