

INSTITUTE OF ADVANCED STUDIES

NANYANG
TECHNOLOGICAL
UNIVERSITY

Catalyse high-impact research | Transcend disciplinary boundaries | Expand knowledge & education frontiers

EVENT HIGHLIGHTS

IAS Lee Kong Chian Distinguished Professor Public Lecture by Prof Duncan Haldane | 5 January 2023



In his lecture titled "Entanglement, Topological Quantum Matter and the Second Quantum Revolution", Nobel Laureate Prof Duncan Haldane (Princeton University) highlighted the development of quantum mechanics over the years and its role in the development of intriguing materials and advanced technologies such as topologically protected quantum computers.

His motivational message to the students, "Any of you potentially could end up being a great scientist, you don't need to be a special "genius" like Einstein. You need LUCK to stumble across something truly unexpected... the ability to recognise what you found as something remarkable and the commitment to follow through and fight for it".

[Read more](#)

Nobel Laureate and Fields Medallist Public Lecture (Partner Event of the Global Young Scientists Summit) | 18 January 2023



The public lecture by Nobel Laureate Prof Brian Kobilka (Stanford University) and Fields Medallist Prof Wendelin Werner (ETH Zürich) was held as a partner event of the National Research Foundation's Global Young Scientists Summit (GYSS) held in the same week.

Titled "Structural Insights into G Protein Coupled Receptor Activation: Implications for Drug Discovery", Prof Brian Kobilka discussed how GPCRs transmit signals across the plasma membrane, the challenges in GPCR drug discovery, and the potential impact of structural biology and other scientific advances on future drug discovery efforts.

Prof Wendelin Werner's talk was titled "A Journey Towards a Research Topic" and he emphasised how one's interests can be shaped into creative ideas and passionate work. While the title of his lecture was along general lines of pursuing research, he creatively made smooth transitions into details of his work on probability theory etc.

[Read more](#)

Nobel Laureate Prof Brian Kobilka's Tea Session with NTU Scholars and PhD Students | 19 January 2023



In this tea session jointly organised with CN Yang Scholars Programme, Prof Brian Kobilka discussed a variety of topics with the scholars and students, including when and what got him interested in intensive care medicine, and the obstacles he faced during his research etc.

[Read more](#)

Quantum Industry Day 2022 2 December 2022



Co-organised by IAS, InspIRE and GAIN, the event featured the applications of quantum computing and how quantum algorithms can be coded. Three industry speakers candidly shared about the potential and limitations of quantum computers. In the IBM Quantum Workshop, participants gained an insight into quantum computational principles and quantum algorithms, and had the opportunity to try out basic programming.

[Read more](#)

MSE-IAS seminar by Prof Nam-Gyu Park | 13 December 2022



Titled "For the Stable and Efficient Perovskite Solar Cells", Prof Park's talk was jointly organised by IAS, MSE and the MSE Graduate Students' Club. He is the Director of the Institute of Energy Science and Technology at Sungkyunkwan University. He shared how perovskite was adopted for photovoltaic applications, breakthrough in better efficiency and the future directions needed to further the frontier of solar cell research.

[Read more](#)

15th International Science Youth Forum | 15 to 19 January 2023



Held by Hwa Chong Institution with support from IAS NTU, the Forum provides a platform for talented students from all over the globe to participate in intellectual discourse with eminent scientists, technopreneurs, and government officers etc. The NTU speakers included Prof Peter Preiser and Prof Xu Rong. This year ISYF resumed the in-person format after two digital iterations.

[Read more](#)

IAS@NTU STEM Graduate Colloquium by Prof Guglielmo Lanzani | 15 November 2022



The webinar was jointly organised with the Graduate Students' Clubs of SBS, SPMS, and EEE. Prof Lanzani is the Director of Center for Nano Science and Technology at Politecnico di Milano. Titled "Organic Semiconductor Nanoparticles Restore Vision in Blind Retinas", he discussed the use of conjugated polymer nanoparticles to mediate light-evoked stimulation of retinal neurons, and possibilities of rescuing vision.

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UPCOMING EVENT

IAS@NTU Discovery Science Seminar "AI-Empower Monitoring and Intervention of Neurodegenerative Diseases in Community Settings" by Dr Zeng Zhiwei (Presidential Postdoc Fellow, Joint NTU-UBC Research Centre of Excellence in Active Living for the Elderly)

7 March 2023 | LT4 (North Spine)

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