

Sungkyunkwan University (SKKU) – NUS, Institute for Functional Intelligent Materials (I-FIM)

Joint Symposium on 3 Sep 2026, Thursday

Visiting Scientists from SKKU:

(1) Prof. Jae-Hyun Lee, (2) Dr. Sukang Bae, (3) Prof. Min Sup Choi, (4) Prof. Kyoung-Duck Park, (5) Dr. Kwang-Seop Kim, (6) Prof. Tae-Wook Kim

3 September 2026 (Thursday)	
Venue: National University of Singapore, Block S9, Level 7 meeting room	
10.00am – 10.15am	Arrival & Seating
10.20am – 10.30am	Introductory greeting & presentation Prof. Sir Kostya Novoselov , Director I-FIM https://ifim.nus.edu.sg/people/konstantin-sergeevich-novoselov/
10.30am – 10.45am	Prof. Jae-Hyun Lee Sungkyunkwan University (SKKU), Dept. of Electrical and Computer Engineering Topic: Introduction to K-DARPA Project “Wafer-Scale vdW Technologies for 3D Semiconductor Integration”
10.45am – 11.00am	Prof. Oezylmaz Barbaros National University of Singapore, Institute for Functional Intelligent Materials, Dept. of Material Sciences & Engineering https://ifim.nus.edu.sg/people/oezylmaz-barbaros/ Topic: Multilayer Amorphous Carbon as Ultralow-k Dielectric
11.00am – 11.15am	Dr. Sukang Bae Korea Institute of Science and Technology (KIST), Functional Composite Materials Research Center Topic: Doing Engineering for van der Waals Materials
11.15am – 11.30am	BREAK
11.30am – 11.45am	Dr. Liming Zheng Peking University School of Chemistry and Molecular Engineering) https://www.chem.pku.edu.cn/hp/cy/ Topic: Graphene revolutionizes ice control in cryo-electron microscopy
11.45am – 12.00pm	Prof. Min Sup Choi Chungnam National University, Department of Materials Science and Engineering Topic: Contact engineering for van der Waals materials-based electronic devices
12.00pm – 12.15pm	Asst. Prof. Ahmet Avsar National University of Singapore Dept. of Material Sciences & Engineering https://cde.nus.edu.sg/mse/staff/ahmet-avsar/ Topic: Gate-Tunable, Interaction-driven Transport in a 2D Semiconductor
12.15pm – 1.15pm	BREAK

3 September 2026 (Thursday)

Venue: National University of Singapore, Block S9, Level 7 meeting room

1.15pm – 1.30pm	Prof. Kyoung-Duck Park Pohang University of Science and Technology (POSTECH), Department of Physics. Topic: Near-field characterizations and nanoscale light-matter interactions for low-dimensional quantum materials
1.30pm – 1.45pm	Asst. Prof. Maciej Koperski National University of Singapore, Institute for Functional Intelligent Materials, Dept. of Materials Science Engineering https://ifim.nus.edu.sg/people/maciejkoperski/ Topic: Excitons coupled to magnetic order in 2D Cr-based magnets
1.45pm – 2.00pm	Dr. Kwang-Seop Kim Korea Institute of Machinery & Materials (KIMM), Nano-devices & Display Research Division Topic: Scalable Manufacturing of Multilayer Graphene Films for Infrared and Electromagnetic Control
2.00pm – 2.15pm	BREAK
2.15pm – 2.30pm	Prof. Tae-Wook Kim Daegu Gyeongbuk Institute of Science & Technology (DGIST), Department of Energy Science and Engineering, Daegu Topic: Synthesis and Assembly of Single-Crystalline 2D Metal Nanosheet
2.30pm – 2.45pm	Mr. Leonid Elesin PhD student (Supervisor: Asst. Prof. Denis Bandurin), National University of Singapore, Institute for Functional Intelligent Materials, Dept. of Materials Science Engineering https://ifim.nus.edu.sg/people/leonid-elesin/ Topic: Giant far-infrared photoconductivity from photon-driven collapse of a correlated gap in magic-angle twisted bilayer graphene
2.45pm – 3.00pm	Prof. Antonio H. Castro Neto National University of Singapore, Institute for Functional Intelligent Materials, Dept. of Materials Science Engineering https://ifim.nus.edu.sg/people/antonio-helio-castro-neto/ Topic: Data-efficient machine learning accelerates discovery of 2D-based alkali-activated materials
3.00pm – 3.15pm	Prof. Eda Goki National University of Singapore, Dept. of Physics https://www.physics.nus.edu.sg/faculty/eda-goki/ Topic: Nanoscopic photovoltaic junctions with doped 2D semiconductors
3.15pm – 5.00pm	OPEN DISCUSSION / NETWORKING