

ILLUMINATE

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Message from the Chairman/Co-director

I hope you are enjoying a fruitful start to 2023. With the new year, we are pleased to present Illuminate with a fresh look and format.

In this first issue of 2023, you can read about highlights such as our LUX's 1st Quarter Members' Meeting, where we welcomed six new Industry members (DELO, Evatec, Excelitas Technologies, Fingate Technologies, Lotus Microsystems, and MMI systems), as well as our LUX Faculty member Assoc Prof Cesare Soci's exciting work on a light detector for quantum technologies, medical imaging, and metrology devices...[more](#).

Consortium Happenings

First Quarter Members' Meeting on 1st March 2023

Nearly 100 attendees attended LUX's 1st Quarter Members' Meeting of 2023, with 51 companies (including six non-member ones) represented. The meeting held at NTU's Innovation Centre drew close to 100 participants to network and immerse in technology sharing...[more](#).



Tech Talks:

1. [Silicon Photonic Chips Enabling 6G Wireless](#), Assoc Prof Ranjan Singh, NTU
2. [Flexible Optoelectronics from Materials to Devices](#), Asst Prof Kim Munho, NTU
3. [Versatile Laser Optics for Manufacturing, Imaging & Inspection](#), Dr Li Hao, A*STAR SIMTech
4. [MXene Fibers](#), Assoc Prof Wei Lei, NTU
5. [Precise, Tunable X-rays from Quantum Materials and Quantum Recoil](#), Asst Prof Wong Liang Jie, NTU

Company Introduction:

1. [CTmetrix](#)
2. [LightSpeed](#)
3. [Liteon](#)
4. [Materion Balzers Optics](#)
5. [Nagase](#)
6. [OIP Technology](#)

LUX presented at EPIC AGM

LUX Chairman Prof Tjin Swee Chuan and Programme Director Dr Soo Choi Pheng participated in the European Photonics Industry Consortium (EPIC) Annual General Meeting 2023 on 29-30 March in Helsinki, Finland.

Find out more [here](#).



Research Highlights

Light Detector for Quantum Technologies, Medical Imaging and Metrology Devices

Single photon detection has led to tremendous improvements in instrumentation. Its vast scientific application provides extreme sensitivity and signal-to-noise ratio, higher image contrast and resolution, and lower doses used.

Find out more [here](#).

New Members

DELO

INDUSTRIAL ADHESIVES

DELO is a leading manufacturer of high-tech adhesives and other multifunctional materials as well as corresponding dispensing and curing technology. The company's products are mainly used in the automotive, consumer electronics and semiconductor industries. They can be found in almost every mobile phone and every second car worldwide, for example in cameras, loudspeakers, electric motors, or sensors. DELO's headquarters are in Windach near Munich, with subsidiaries in China, Japan, Malaysia, Singapore, and the USA and distributors in numerous other countries.

www.delo-adhesives.com



Based out of its headquarters in Switzerland, Evatec designs and manufactures high-tech thin-film production platforms. From micro-LEDs, face recognition and efficient power management technologies for smart consumer devices, to enabling advanced IC substrates or 5G mobile networks, Evatec's delivers thin film processes that give customers the lead across a whole range of applications in the advanced packaging, semiconductor, optoelectronics and photonics industries. www.evatecnet.com

EXCELITAS

TECHNOLOGIES®

Excelitas Technologies is a technology leader in delivering high-performance, market-driven photonic innovations to meet the illumination, optical, optronic, sensing, detection and imaging needs of customers worldwide. Serving a vast array of applications across automotive, consumer products, defense and aerospace, industrial, medical, safety and security, and sciences sectors, Excelitas Technologies stands committed to promoting our customers' success. www.excelitas.com



Fingate Technologies is an integrated photonics fabless technology company, whose mission is to develop highly integrated optical systems, enabling widespread applications including environmental monitoring and healthcare, etc. www.fingatech.com



MMI Systems is a capital equipment factory automation & systems integrator organization that performs Design-and-Build (D&B) and Build-to-Print (B2P) factory automation; so as to improve efficiency, quality and scale in multiple industrial sectors. Industrial we serve includes Consumer Electronics, Data Storage, Life Science Healthcare, Medical Device, Semiconductor and more. We provide world class precision machining components and a full range of electro-mechanical components and system, contract manufacturing services for various industries. www.mmi-systems.com.sg

Upcoming Events



LUX-ESG Silicon Photonics Workshop

By Invitation only.



2nd Quarter Members' Meeting

In-conjunction with Spanish partner SECHO virtual delegation meeting.



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