

ILLUMINATE

October 2023 * ISSUE #28

Consortium Happenings

First LUX Workshop on Flat Optics

The workshop held on 23 Aug 2023 at NTU Innovation Centre aims to explore and share opportunities, challenges, trends and innovations with the community; and discover the local flat optics capabilities and ecosystem support ...[more](#).



LUX Chairman Speaking at Asia Photonics Expo Press Conference

The Asia Photonics Expo (APE) 2024, Asia's premier photonics event, was announced in Shenzhen, China, on Sept 6, 2023, in conjunction with the China International Optoelectronics Exposition (CIOE)...[more](#).

Five Tech Offers on Show at LUX Q3 Meeting

The event held on 19 Sep at NTU Innovation Centre introduced new industry and research members and showcased technology demonstrations from NTU and NUS professors...[more](#).



Tech Talks:

1. [Open Path Gas Detection Device Using Waveform Matching Technology](#)
Assoc Prof Cuong Dang, NTU
2. [Three-dimensional Label-free Imaging of Blood Flow with High Quantification Accuracy](#)
Assoc Prof Chen Nanguang, NUS
3. [Functional Time-Resolved in Situ Measurements on Metal Halide Perovskite Luminophores](#)
Assoc Prof Soo Han Sen, NTU
4. [2D Optics for High Resolution Imaging and Optical Lithography](#)
Dr Wang Zeng, A*STAR IMRE

Tech Demos:

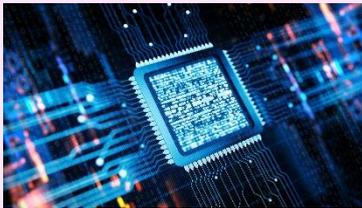
1. [High-Quality, Long-Distance Gas Detection System](#)
Assoc Prof Cuong Dang, NTU
2. [Light-sheet Laser Speckle Imaging](#)
Assoc Prof Chen Nanguang, NUS
3. [Functional Time-Resolved in Situ Measurements on Metal Halide Perovskite Luminophores](#)
Assoc Prof Soo Han Sen, NTU
4. [Hand-held Ultraportable Ophthalmic Imaging Device](#)
[Ultraspectral Vision Based Corrosion Detection Probe](#)
Assoc Prof Murukeshan Vadakke Matham, NTU

Research Highlights

Metasurface and Metalens for Highly Compact Optical Systems

Refractive lenses – such as those used in objectives and telescopes – offer valuable features but are generally big, heavy, expensive, and have a long focal length, which limit the minimization of optical devices. NTU's Assoc Prof Luo Yu's metasurface research provides a solution to this challenge. Find out more [here](#).

Market News



About LUX new member - Lightelligence

Growing demand for compute power cannot be met by discrete computing systems and large-scale distributed computing systems deployed in data centres. One such solution focuses on a new data centre computing paradigm based on silicon photonics. Find out more from LUX new member Lightelligence and their views [here](#).

Upcoming Events



Industrial Transformation Asia Pacific (ITAP) 2023

- Singapore Expo, Hall 2 - 3
- LUX members exhibiting: **Hakuto, Innovave Tech, JM Vistec, LINX, Liteon, PI (Physik Instrumente)**



TechInnovation 2023

- Marina Bay Sands, Roselle-Simpor Ballroom, Level 4, Booth B40
- LUX will be showcasing these innovative technologies:
 - **MXene functional textiles;**
 - **Ultraspectral vision corrosion detection;**
 - **Nanoscale 3D optical elements for authentication;**
 - **Spectroscopic gas sensing system;**
 - **Wireless fiber optic sensing;**
 - **Direct write maskless lithography system and**

- **Open path gas leak detection.**



Photonics@SG Conference 2023

- 30 Nov, NTU
- Theme: Integrated Photonics Coming of Age?

International Photonics Delegation Visit to Singapore

- 29 Nov & 1 Dec



Asia Photonics Expo (APE) 2024

- Marina Bay Sands, Sands Expo & Convention Centre
- Exhibition booths at LUX Pavilion and SG Pavilion are open for booking. Contact us now!



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