

PRESS RELEASE**Plessey invited to speak at SPIE. AR VR MR Conference 2020**

Dr. Kat Vinden

San Francisco, California, USA, 29th January 2020: Plessey Semiconductors announced today that Dr. Kat Vinden, Senior Engineer Product Design and Development, will present at the upcoming [SPIE. AR VR MR Conference](#) on 2nd February 2020, at 3 p.m. PDT.

The SPIE. AR VR MR conference is a three-day event that includes a technical program which is new for 2020, invited industry talks, panel discussions, demonstrations, networking opportunities and more. The event runs concurrently with [SPIE. Photonics West](#) from February 1st to 6th, 2020 at the Moscone Center in San Francisco, California.

Dr. Vinden will be presenting paper 11310-29: Utilisation of micron-scale LED arrays as display projection light sources, authored by herself and colleague Dr. Samir Mezouari, Optical Engineering Manager in the Product Design and Development group. The presentation will discuss the advantages and technical challenges faced when collimating the light at the very small dimensions needed for augmented reality applications.



Plessey's microLED illuminator light source

"This is my first time speaking at a major conference and I am honoured to be accepted as a speaker at this year's AR VR MR Conference, which is renowned for showcasing cutting edge research in optoelectronics. It's important as scientists and engineers to talk about not just our paradigm-busting discoveries, but the stepping stones that pave the way, like the Plessey illuminator project and our on-going microLED display innovations." **said Dr. Kat Vinden, Senior Engineer Product Design and Development, at Plessey.**

Plessey developed the microLED-based illuminator light source in 2018 as an alternative light source for use in DMD/LCOS type display systems. It was an interim product before developing the world's first GaN-on-silicon microLED wafer to CMOS backplane wafer, bonded active-matrix display in 2019.

The light source is an integrated monolithic blue array coloured with phosphor; with advanced first-level micro-optical elements to create a bright, largely collimated and highly uniform light source. The resulting optical system is up to 50% smaller than incumbent solutions. Size, weight and power reduction are key considerations in AR/MR wearables.

The presentation by Dr. Kat Vinden will take place at 3.00pm on Sunday, February 2, 2020 in Room 2007 (Level 2 West). To add this to your schedule, please register [here](#).

To arrange a meeting with Plessey during the SPIE. Photonics West, please contact: microLEDs@plesseysemi.com

About Plessey

Plessey is an award-winning provider of full-field emissive microLED displays that combine very high-density RGB pixel arrays with high-performance CMOS backplanes to produce very high-brightness, low-power and high-frame-rate image sources for head-mounted displays (HMDs), and augmented reality (AR) and virtual reality (VR) systems. Plessey operates leading-edge 150mm and 200mm wafer processing facilities to undertake design, test and assembly of LED products, and a comprehensive suite of photonic characterization and applications laboratories. For more information, visit Plessey's [website](#), [Twitter](#), [Facebook](#) and [LinkedIn](#) pages.

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About SPIE. AR, VR, MR Conference

The SPIE AR, VR, MR Conference features must-see presentations and demonstrations from the biggest names in consumer electronics and up-and-coming XR companies. Between these top speakers, head-set demos, technical presentations, and more—it is going to be a busy few days.

About SPIE

SPIE, the international society for optics and photonics, was founded in 1955 to advance light-based technologies. SPIE annually organizes and sponsors approximately 25 major technical forums, exhibitions, and education programs in North America, Europe, Asia, and the South Pacific, where more than 35,000 scientists, engineers, and entrepreneurs showcase the latest innovations across a wide range of technologies.