

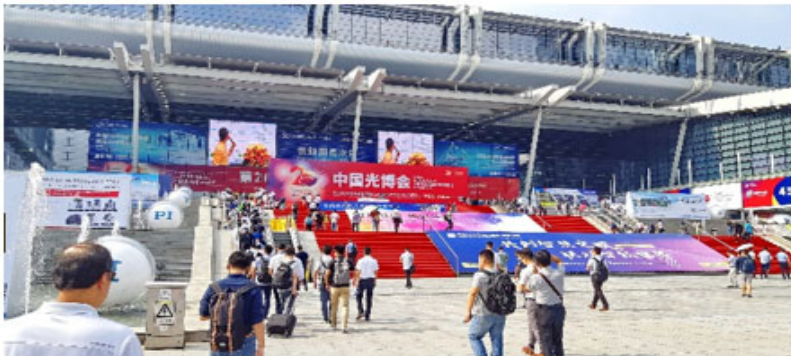
INCOM NEWSLETTER 21; FRIDAY AUGUST 23RD 2019

NEW TEAM MEMBER WITHIN TASK 1.3

On July 1st, 2019, **Lars Søgaard Rishøj** has joined INCOM / DTU Fotonik. Lars will be spending half of his time within Task 1.3 working on higher order mode (HOM) fibers including in and out coupling of modes into HOM fibres as well as multiplexing of MOMs. Lars has been at Boston University, MA, USA, for almost five years in the group headed by Prof. Siddharth Ramachandran working on HOM fibers and fiber lasers with applications for example within Biophotonics. Consequently, Lars has a perfect match to contribute to solving the challenges within Task 1.3 and without question Lars will be able to make a significant contribution to the success of INCOM. During the first couple of months at DTU Fotonik, Lars has been working with the team in Task 1.3. to characterize HOMs carrying orbital angular momentum.



BIFROST COMMUNICATIONS EXHIBITS IN CHINA



During the first week of September, Bifrost Communications will be part of the Danish Pavilion at [China International Optoelectronic Exposition - CIOE](#). Taking place each year in Shenzhen - the biggest photonics hotspot in the world - this has become the most important Asian event you can attend. The Danish Pavilion, initiated in 2010 by Alight Technologies CEO Dirk Jessen, gives the Danish companies a unique visibility which would have been impossible should the participating companies have chosen to have separate booths scattered all over the showroom floor. In addition, it highlights Denmark as an important center for photonics industry and innovation, and it showcases the great collaboration and synergy between the Danish photonics companies - a collaboration spirit that is also reflected in the INCOM project where Danish photonics industry and academia join forces to mitigate the ever increasing carbon footprint of the Internet. Bifrost Communications will display their latest breakthroughs in Quasi-Coherent (QC) Receiver Technology, namely 25 Gbps QC receivers with built-in dispersion compensation for 20 km C-band DWDM transmission. This technology is very attractive for 5G fronthaul as well as DWDM 20 km links. CTO Jesper Bevensee Jensen says, "Our goal is to initiate partnerships with optics- and transceiver vendors interested in our unique technology. CIOE is, quite simply, the best place to meet them."

INVITATION TO THE INTERNET DAY; SEPTEMBER 5, COPENHAGEN

'**The Internet Day**' is a conference on the many possibilities and dilemmas of the Internet anno 2019. The conference is taking place September 5th at Tivoli Hotel & Congress Center, Copenhagen and in reference to the current climate discussions, urgent actions needed to reduce Co₂ and the discussions, recent newspaper articles, and radio interviews on a greener Internet the Head of INCOM Steering Committee and prime investigator Prof. Leif K. Oxenløwe will join the panel debate 'The Improving Internet Sustainability' during the conference (see more [here](#) in Danish). The conference is free and open to all. You can sign up [here](#) - there is a limited number of seats.

INCOM PROOF-OF-CONCEPT FUNDING

We have with thanks received 6 application for the 2019 Proof-of-Concept call of DKK 500.000; two applications from industry partners, two from AU, and two from DTU. The INCOM Advisory Board will evaluate the applications and provide recommendations to the INCOM Steering Committee who will make the final decision. The result will be announced, once the decision is made and by no later than the end of September 2019.

INCOM TALK

In late June, INCOM Associated Partner CEA Leti organized and hosted an innovation event, the Leti Innovation Days (see more [here](#)). The full week programme included talks on AI, integrated photonics, optical networks, cyber security and quantum computing as well as art & science, all topics relevant for INCOM. On Tuesday, June 25th Prof. Leif K. Oxenløwe gave a keynote talk about 'Silicon Photonics for Advanced Telecommunications' at the Silicon Photonics Workshop track of the event, which took place in Grenoble, France. The innovation event featured presentations from industry and research leaders on AI-related opportunities & technologies and an exhibition space as well with live demos and a dedicated route on AI.

NEWS FROM THE INCOM TEST LAB



In the past weeks, we have advanced in the procedure of connecting both the management system and the shelves. In parallel, we have also progressed mounting some racks with all the equipment necessary. We expect to have a base test system in the coming months.

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