NEWSLETTER MAY 2019



1D NANOFIBRE ELECTRO-OPTIC NETWORKS



ABOUT

1D-NEON is a 4 year Innovation Action of H2020 funded by the European Commission under the NMP-22 2015 call topic "Fiberbased materials for non-clothing applications".

The **VISION** of the 1D-NEON project is to create outstanding added value for the textile manufacturing industry. This will be accomplished by developing fibre-based smart materials along with an integrated technology platform for the manufacturing in **Europe** of new products enabling applications in sensing, lighting, energy and electronics.

NEWS & UPDATES

In this Newsletter we provide a summary of 1D-NEON project technical activity, dissemination actions and upcoming events. Petar Jovancic from Eurecat, comments on 1D-NEON's impact in the Functional Textile Unit of Eurecat.

PROJECT MEETINGS

- M24 Meeting in July 2018 at Eurecat, Barcelona, Spain
- M30 Meeting in October 2018 at Bioage, Lamezia, Italy
- M36 Review Meeting in May 2019 at Brussels, Belgium

SCIENTIFIC EVENTS

InnoLAE 2019

Partners TiTV, Eurecat and UCAM presented 1D-NEON project's results in Science, technology & commercialisation of electronic textile Workshop

CAD-TFT 2018

Partner Silvaco represented 1D-NEON at the Conference on Computer Aided Design for Thin-Film Transistor Technologies in Shenzhen, China

E-MRS Spring 2018

This year 1D-NEON partner UNINOVA presented project related results in the E-MRS Spring Meeting in Strasbourg, France.

LOPEC 2018

1D-NEON demonstrators were presented at the international printed electronics trade fair by partners UNINOVA and Bioage in their booth.







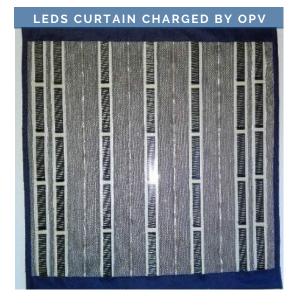








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AUTOMATIC EMBROIDERY LED DISPLAY





Consortium

MAIN ACHIEVEMENTS

1D-NEON new **SMART TEXTILE DEMONSTRATORS** videos here. 1D-NEON **PUBLICATIONS HIGHLIGHTS**. Full list is available here.

- T. Carey, et al., Nature Communications, 8, 1202, 2017
- A. Rovisco et al., ACS Appl. Nano Mater. 1, 3986, 2018
- X. Cheng et al, IEEE Journal of Electron Devices, 1, 195, 2018

UPCOMING EVENTS

24 May 2019

Fibre Manufacturing and System Integration

This **free webinar** will focus on the development of components for smart textiles and will be provided by 1D-NEON partners Eurecat, SAATI and TITV.

FREE online Registration available NOW at www.1D-NEON.eu

INSIDE 1D-NEON

Projects like 1D-NEON represent real breakthroughs to the existing knowledge of smart textile products with a general perspective to substantially change the textile industry market in the future.



The project objectives are very challenging but at the same time, by combining the expertise from universities, industry and research companies are solid guarantee that the project could bring novel perspectives and even to create outstanding added value for the textile manufacturing industry by developing fibre-based smart materials along with an integrated technology platform for the manufacturing of innovative products.

Personally, I am really proud of being part of this excellent **consortium** giving me a chance to interact with experts from different fields and change my way of thinking about the traditional weaving technology converting it into the valuable mean to produce intelligent structures able to bring light to walls, harvest and store energy to light up the LEDs etc.

Thanks to the 1D-NEON. Functional Textile Unit of Eurecat is developing new skills and valuable experience in multi-functional devices and wearable electronics in novel system integration possibilities and fascinating design for multiple market sectors.

- Petar Jovancic, PhD. 1D-NEON Partner Eurecat































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