NEWSLETTER MAY 2018



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 "**Fiber-based 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. Professor Rodrigo Martins from UNINOVA, President of European Academy of Sciences, comments 1D-NEON's relevance in the EU.

PROJECT MEETINGS

- M12 Meeting in April 2017 at SAATI, Appiano Gentile, Italy
- M18 Review Meeting in November 2017 at Brussels, Belgium
- M24 Meeting to be held in June 2018

SCIENTIFIC EVENTS

iTechStyle Summit 2018

Partner CeNTI presented the 1D-NEON project's latest achievements and partner Bioage presented developments of electronics on fabric.

ISPO 2018

1D-NEON prototypes were represented at the multisegment fair in international sports business by partner CeNTI in their booth.

InnoLAE 2018

This year 1D-NEON partner Bioage presented prototypes in their booth, including a Bright Smart Curtain and a Supercapacitor on Fibre.

MRS Fall 2017

Partner UNINOVA presented project related results in the MRS Fall Meeting in Boston, USA.





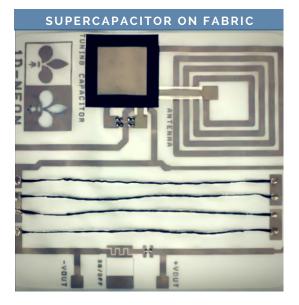








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OXIDE TFTS WOVEN INTO FABRIC





Consortium



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

- Juwon Lee, et al., Advanced Materials, 29, 1702206, 2017
- E. Carlos et al., ACS Appl. Mater. Interfaces, 9, 40428, 2017
- S. Lee and A. Nathan, **Science**, 354, 302, 2016.

UPCOMING EVENTS

25 May 2018

Fibre Components and Modelling/Simulation

This **free webinar** will focus on the development of components for smart textiles and will be provided by 1D-NEON partners UNINOVA, Oxford University and Silvaco FREE online Registration available NOW at www.1D-NEON.eu

INSIDE 1D-NEON

The challenges and missions of the Future deeply depend on solid grounds on science and technology.

They impact our lives and are relevant for what the Academic community as whole thinks for the Future.



In the past 13th April 2018 I had the honour of being elected the new president of the European Academy of Science, and this was due to the vision I have for the good of science in Europe. **Projects such as** 1D-NEON, that represents a breakthrough on traditional incremental innovative projects, are paramount to this vision. **1D-NEON** contributes to revolutionize the smart textile industry of the Future! Can you imagine weaving intelligent fibres of the Future,

able to bring light to walls, store energy and interface information? This is what 1D-NEON brings to our Horizon Europe! As academic and scientist I am proud to be involved on this wonderful project and be part of this outstanding consortium that is contributing for changes at technology and science levels. I also

would like to say how stakeholders are deeply impressed when I let

them know about the advances 1D-NEON is achieving!

Professor Rodrigo Martins 1D-NEON Partner UNINOVA































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