

THE MONTHLY LIST

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LIST AND CIRCUIT FOIL WANT TO ENHANCE COPPER RESISTANCE TO LIGHTNING

The three-year partnership agreement between LIST and Circuit Foil aims to develop a new generation of copper with a very high ampacity that will be used to manufacture lightning-resistant composite aircraft.

Photo from left to right: Guillaume Lamblin (R&D Associate, LIST), Michael Lugnier (Production Director, Circuit Foil), Fabienne Bozet (CEO, Circuit Foil), Damien Lenoble (Head of Nanomaterials and Nanotechnologies Unit, LIST), Jean-Paul Schuler (CEO, Luxinnovation), Emmanuel Bidaine (Partnership Officer, LIST).

On Tuesday 18 April 2017, the Luxembourg Institute of Science and Technology (LIST) and Circuit Foil signed a three-year partnership agreement in the presence of the press.

This initiative, supported by the National Research Fund (FNR) within the framework of a CORE-PPP, aims to develop a new generation of copper. Its main characteristic will be a very high ampacity.

This technology could thus be used for the manufacture of lightning-resistant composite aircraft.

Damage can be caused by lightning: millimeter-sized holes, destruction of sensors, etc. The electromagnetic fields generated by the storm can interfere with the electronic system of the device.

Damien Lenoble, Head of the Nanomaterials and Nanotechnology Unit at LIST, stressed that "this collaboration is another proof of the Institute's important role as an RTO in transferring technology to businesses and thus strengthening the Luxembourg economy. This project is another example of the industrial impact of the research carried out over the last five years in the area of nanomaterials. Increased support from the FNR and the Ministry of the Economy should enable an acceleration of the technological transformations supported by LIST."

Fabienne Bozet, CEO of Circuit Foil, declares that "this research project will eventually add yet another string to Circuit Foil's bow. It enters Circuit Foil's strategy of product portfolio growth towards higher value-added products, particularly in sectors other than the electronics and automobile industry where the major part of our products are sold."

Circuit Foil joins its customers worldwide in their pursuit of continuous improvement and future growth. In accordance with the best available techniques and practices, combined with the experience and know-how of its employees, Circuit Foil develops, produces and markets high-quality copper foil, while constantly ensuring a safe and healthy environment in our plants, processes and products.

OTHER HIGHLIGHTS



Conference

LIST ORGANISES INTERNATIONAL LIFE CYCLE MANAGEMENT (LCM2017) CONFERENCE

LIST is organising, in close collaboration with the University of Luxembourg, the 8th International Conference on Life Cycle Management, taking place from 3rd to 6th September 2017 in the European Convention Center Luxembourg. Around 800 international experts are expected at the conference to address the theme "Designing sustainable technologies, products and policies: from science to innovation".

The objective of LCM 2017 is to discuss and advance the implementation of Life Cycle approaches along the businesses' value chain, supporting environmental, social and economic sustainability. They can influence the development of industrial technologies, products, services and policies, and the management of smart agricultural systems, smart mobility systems, urban infrastructures and energy for the built environment. [Learn more on www.list.lu](http://www.list.lu)

International

120 RESEARCHERS BROUGHT TOGETHER IN LUXEMBOURG AROUND THE TOPIC OF OXIDE BASED ELECTRONICS

LIST hosted the Spring Meeting of the European Cooperation in Science and Technology (COST) action "Towards oxide-based electronics" (TO-BE), in Luxembourg. It aimed at networking and bringing together researchers working in the field of the science and technology of transition-metal oxides. The programme gave the occasion to share expertise, define future strategies and cluster for future funding opportunities. The 3-day, Luxembourg TO-BE Spring meeting was the 6th of the kind since the launch of the action in 2014, and gathered at the Neumünster Abbey about 120 participants from 23 different countries. This edition was also supported by the Luxembourg National Research Fund (FNR). [Learn more on www.list.lu](http://www.list.lu)



Europe

LIST'S DIRECTOR OF PROGRAMMES ELECTED TO THE EARTO BOARD

Aziz Zenasni, LIST's Director of Programs, was elected as a member to the EARTO's Board during the association's annual conference, held last month in Munich. This stands as further evidence of LIST's recognition among its fellow European RTOs.

This election will be another brick helping to build and foster promising cooperations. Such partnerships are required to create impactful innovation benefitting the Luxembourgish economy and quality of life in our country. [Learn more on www.list.lu](http://www.list.lu)

Industry

LIST RESEARCH HIGHLIGHTED BY THE SCIENTIFIC AMERICAN MAGAZINE

LIST's role in our country's RDI ecosystem has been hailed in a special issue of Scientific American Magazine. "Luxembourg's Innovation Is Out of This World", says the world's oldest continuously running magazine with a readership of about 2 million.

This globally distributed publication follows the participation of LIST to the Luxembourg Economic Mission to the United States in April 2017. Scientific American focused on four main subjects: "The new capital of the private space industry", "The tech center at the heart of Europe", "The collaboration factory" and "A testbed for the industrial revolution". LIST is mentioned numerous times in relation to projects in materials science, nanotechnologies and data analytics.

[Learn more on www.list.lu](http://www.list.lu)



WHERE TOMORROW BEGINS

Located at the heart of Belval's Research & Innovation Campus, LIST can ideally connect its over 500 specialists in materials, environment and IT, including its more than 70 PhD students, through a broad range of joint projects, programmes and partnerships with virtually all of Luxembourg's other major research players. At Belval, the University of Luxembourg, LIH, LISER, Technoport, Luxinnovation and the Luxembourg National Research Fund are all literally within arm's reach.

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