

THE MONTHLY LIST

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GOODYEAR AND LIST ANNOUNCE €41M R&D INITIATIVE ON SMART AND SUSTAINABLE MOBILITY IN LUXEMBOURG

Goodyear and LIST have signed an agreement to start a partnership for R&D on sustainable mobility and next generation materials. The five-year partnership will focus on making tires more environmentally friendly in terms of materials, performance and the manufacturing process. The collaboration agreement is an example of best practice for the government endeavour to foster the interactions between public research and industry.

On November 17th 2016, Goodyear and the Luxembourg Institute of Science & Technology (LIST) announced significant Research and Development (R&D) investment focused on sustainable mobility and next generation materials. Goodyear has been at the forefront of tire innovation for more than a century and is honoured to collaborate with LIST on this crucial R&D initiative to address ongoing societal challenges and further drive innovation in the field of future mobility.

Together with LIST, Goodyear engineers will focus on making tires more environmentally friendly in terms of materials, performance and the manufacturing process. This joint R&D initiative offers opportunities to create a better future by:

- advancing data science that allows Goodyear to improve its processes to deliver tires of the highest quality and shorten product development cycles to better anticipate the evolving needs of OEM partners and end-consumers
- developing innovative lightweight materials to lower the rolling resistance of tires with a positive impact on the environment and the consumer through lower emissions and greater fuel efficiency.

In the presence of Deputy Prime Minister Etienne Schneider and Delegate Minister of Higher Education and Research Marc Hansen, LIST and Goodyear signed a framework agreement to cement their partnership.

Funded by Goodyear with support from applicable Luxembourg Government R&D State Aid, the five-year partnership will secure vital R&D talent for the future both in Luxembourg and the automotive industry more widely. It will create 38 full-time research posts and a significant number of PhD/post-doctoral positions in an important and growing area. Researchers will be based both at LIST and Goodyear Innovation Center Luxembourg.

Photo credit: Goodyear.

From left to right and from top to bottom: Georges Thielen (Goodyear), Jean-Pierre Jeusette (Goodyear), Etienne Schneider (Deputy Prime Minister), Marc Hansen (Minister of Higher Education and Research), Fernand Reing (LIST), Aziz Zenasni (LIST), Christophe Dieret (Goodyear), Carlos Cipollitti (Goodyear), Georges Bourscheid (LIST), Eva Kremer (LIST)

OTHER HIGHLIGHTS



Photo credit: Labgroup
From left to right: Pierre Dewez (PECB Europe), Bernard Moreau (Labgroup) and Sébastien Pineau (LIST).

Industry

LIST BRINGS EXPERTISE TO COMPANIES FOR THEIR CERTIFICATION STRATEGIES

For several years, LIST has developed a range of tools related to secure electronic archiving and Integrated Management Systems (IMS) to help companies in the management of their digital record storage and archiving systems, and in meeting all compliance requirements. In this context, LIST recently collaborated with Labgroup that works on its certification strategy together with the certification body PECB Europe. LIST designed a set of processes to target different standards and related certifications and developed further tools, facilitating the compliance with different regulations. [Learn more on www.list.lu](http://www.list.lu)

International

LIST LAYS FOUNDATIONS FOR 3D COMPOSITE PRINTING PARTNERSHIP WITH SINGAPORE

As part of a working visit to Singapore within a Luxembourg delegation, LIST formalised its collaboration effort with the Singapore Center for 3D Printing (SC3DP) of the Nanyang Technological University. The two institutions signed a Memorandum of Understanding in which they mutually commit to develop their respective skills in the materials sector where they are complementary. While the strengths of LIST lie in the development and the fine tuning of composite materials, the strengths of the SC3DP reside in printing technology. A pooling of the two will allow rapid progress in research on 3D printing using new materials. [Learn more on www.list.lu](http://www.list.lu).



From left to right: Prof. Philippe Dubois (LIST), Xavier Bettel (Prime Minister), Chee Kay Chua (SC3DP)

Environment

IDENTIFYING A BETTER CROP ROTATION SYSTEM FOR RAPESEED

LIST and its partners recently presented encouraging first results of the project "Efficient Crop Rotation Systems for Oilseed Rape" (EFFO), dedicated to reducing pesticides in Luxembourg's waters thanks to an improved crop rotation for rapeseed. Among the preliminary findings it was concluded that new cropping techniques can be successfully integrated in agriculture and will allow the reduction of both the number of herbicide applications and the risk of groundwater contamination, while some weed species could be targeted by alternative cropping techniques. Additionally the production of flaxseed oil has been identified as a potential substitute for rapeseed oil. [Learn more on www.list.lu](http://www.list.lu)



In the centre, Carole Dieschbourg (Minister of Environment) and Fernand Etgen (Ministry of Agriculture, Viticulture and Consumer Protection), Lucien Hoffmann (LIST)

Luxembourg

A NATIONAL WELCOME TO THE YOUNG SCIENTISTS

Early December, all PhD candidates who have chosen a public institution to begin their scientific careers in 2016 were welcomed with honours at the first edition of the National PhD Welcome Day organised by LIST in collaboration with all the public research stakeholders in Luxembourg, LuxDoc, Euraxess Luxembourg and Luxembourg National Research Fund. At the event, the young scientists were able to discuss their respective fields of research and to learn more about Luxembourg's well-connected scientific community. This joint initiative also allowed to introduce the second edition of the "Foreign Researcher's Guide to Luxembourg", published by Euraxess Luxembourg to help foreign researchers to settle in the country. [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.



LIST.LU

Belval Innovation Campus
Maison de l'Innovation

5, avenue des Hauts-Fourneaux
L-4362 Esch-sur-Alzette

Tel.: +352 275 888 1
Fax: +352 275 885

Your contact:
communication@list.lu