

# PRESS RELEASE

ENGLISH

**Date** 12 July 2017

**Contact** Thomas Schoos

**Phone** (+ 352) 275 888 2266

**E-mail** [thomas.schoos@list.lu](mailto:thomas.schoos@list.lu)

## LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY (LIST)

The Luxembourg Institute of Science and Technology (LIST) is a mission-driven Research and Technology Organization (RTO) that develops advanced technologies and delivers innovative products and services to industry and society. As a major engine of the diversification and growth of Luxembourg's economy through innovation, LIST supports the deployment of a number of solutions to a wide range of sectors, including energy, IT, telecommunications, environment, agriculture, and advanced manufacturing at national and European level. Thanks to its location in an exceptional collaborative environment, namely the Belval Innovation Campus, LIST accelerates time to market by maximizing synergies with different actors, including the university, the national funding agency and industrial clusters.

LUXEMBOURG  
INSTITUTE OF SCIENCE  
AND TECHNOLOGY



## ROLF TARRACH PRIZE 2017 FOR MADS WEBER, WHO CONDUCTED HIS PHD AT LIST

The physicist Mads Christof Weber has won the "Rolf Tarrach Prize 2017" for his outstanding doctoral thesis in physics and material science. The award for the best doctoral thesis in Luxembourg comes with a prize money of 10,000 euros and is bestowed by the "Amis de l'Université". Mads Weber received the prize at a ceremony chaired by Erna Hennicot-Schoepges, president of the Amis, on 11 July 2017 at the Chamber of Commerce of Luxembourg.

It is the first time this prestigious prize is awarded to a LIST PhD researcher. Mads Weber worked on his PhD entitled "Electronic and structural properties of bismuth and rare-earth ferrites" from 2013 to 2016 at LIST and was enrolled at the Faculty of Science, Technology and Communication of the University of Luxembourg.

For his work, supervised by MRT Director and FNR PEARL Chair Prof. Jens Kreisel, Mads Weber concentrated on so-called multifunctional materials, which present several functional properties that are often coupled. "Multifunctional materials have many potential applications in areas such as microelectronics, sensor technology, and medical technology. They could be used to engineer components that can perform several tasks in parallel, such as a single computer chip that at the same time stores and processes data," the researcher explains. In order to better understand the underlying physical phenomena, he applied a new approach to study interactions between light and matter, and namely the influence of magnetism on the atomic structure.

The 31-year-old Weber, who in March 2017 started to work as postdoctoral researcher at the ETH Zürich in Switzerland is very pleased to receive the award. "I feel deeply honored to receive the "Rolf-Tarrach-Prize". The prize is the highest possible recognition of the value of scientific outcome of my thesis and my competences as researcher. Having moved from Luxembourg, the prize affirms my feeling as a representative of the young researcher generation of Luxembourg. I am proud to be part of this new generation of researchers and scientists who received their education in Luxembourg," he said.

LIST warmly congratulates Mads Weber for his achievement. The prize also stands as a testimony of the excellent research done at LIST.