

## Jean Jerphagnon Award: Antoine Dubrouil wins the 2019 Award

Every year, researchers, students and industry representatives come together for the Jean Jerphagnon Award, which rewards innovation in the field of optics and photonics. This year, the jury and its president, Alain Aspect, have rewarded Antoine Dubrouil, physicist and founder of Femto Easy. The ceremony is part of the Optics-Photonics Events for the Industry of the Future organized by Institut Mines-Télécom and the Academy of Technologies. These events showcase technological innovations in a wide variety of industries. For this year's ceremony which was broadcast via webinar on 9 July, Gilles Le Saux, Senior Vice-President of "Foresight and Research" at Essilor International, gave a talk on the evolution of the ophthalmic optics industry.

### The Jean Jerphagnon Award

The Jean Jerphagnon Award, organized by IMT and the Academy of Technologies with support from Fondation Mines-Télécom, seeks to honor the memory and extend the work of Jean Jerphagnon, who died in 2005 after leading a distinguished career, from basic research to innovation, in the field of optics and photonics.

This €10,000 award aims to promote technological innovation and the diffusion of optics and photonics in all fields of application.

It is awarded to a researcher or engineer aged 40 or over who proposes an innovative project:

- of high scientific value or high industrial potential
- that marks a milestone in his or her career
- comprising at least one optical or photonic element

**The President of the Jury, Alain Aspect, professor at the Institut d'Optique and member of the French Academy of Technologies, presented the Award to Antoine Dubrouil.**



### Antoine Dubrouil, winner of the 2019 Jerphagnon

**Award**, holds a doctorate in physics and lasers and specializes in ultrafast lasers. He completed his PhD at the Centre for Intense Lasers and Applications (CELIA) in 2011, where he focused on

research, production, characterization and use of fast laser pulses ranging from a few femtoseconds to attoseconds. These unprecedented temporal resolutions, which had hitherto been unattainable by humans, paved the way for new applications, in fundamental research, industry and medicine. He then went on to develop a new laser source based on post-compression and decided to complete a post-doctorate at Swinburne University of Technology in Australia.

After observing that the measurement instruments available on the market only partially met researchers' needs, he started to develop his own tools based on new concepts, which he would continue to explore at Politecnico di Milano in Italy, where he completed a second post-doctorate. He then returned to CELIA in 2014 with the goal of starting a business based on his research, Femto Easy, which he launched in 2016.

A large part of his company's work focuses on R&D and developing instruments for measuring ultrafast lasers (femtoseconds) that are both reliable and easy to use. Unlike state-of-the-art devices that must be accurately aligned to obtain a measurement, his products can be placed directly in the laser beam and obtain a measurement in a few seconds.

#### **About IMT [www.imt.fr](http://www.imt.fr)**

Institut Mines-Télécom is a French public higher education institution under the aegis of the Ministry for the Economy, Industry and Digital Sector. It includes 8 engineering schools, 2 subsidiary schools and a network of strategic affiliated partners. Its activities in the fields of engineering and digital technology contribute to training engineers and managers, developing research partnerships, promoting innovation and supporting economic development. Always attentive to the economic world, IMT combines strong academic and scientific legitimacy, close corporate relations and strategic positioning in the key transformations of the 21st century: digital technology, industry, energy and ecology, and education. IMT is a founding member of the Alliance for the Industry of the Future and co-founder of the Franco-German Academy for the Industry of the Future with Technische Universität München (TUM). It is recognized by 2 Carnot Institute certifications for the quality of its partner-based research. Each year, IMT trains over 1,200 students, concludes nearly 70 million research contracts, and hosts some 100 start-ups in its incubators.

#### **About the Academy of Technologies <http://www.academie-technologies.fr/>**

Placed under the protection of the President of the Republic, the mission of the French Academy of Technologies is to make proposals and recommendations to public authorities and socio-economic players to help society make better use of technology.

As a think tank on industrial policy in France, it contributes to the governance of technological issues as an advisor on all issues related to technology and its impact on society, the environment and economic growth.

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