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## 2018 Nobel Prize winner Gérard Mourou invited to give a public lecture

- GIST (President Kiseon Kim) – 2018 Nobel Prize winner Gérard Mourou gave a public lecture in Oryong Hall on October 22, 2019.
  - This lecture was hosted by the Korea Academy of Science and Technology (President Min-koo Han) and co-sponsored by GIST and Institute for Basic Science Center for Relativistic Laser Science (IBS CoReLs Director Chang Hee Nam).

<p>Overview of Lecture</p> <p>Lecturer: Professor Gérard Mourou of France's École Polytechnique and winner of the 2018 Nobel Prize in Physics</p> <p>Date/Time: October 22, 2019, at 17:30 to 18:00 in Oryong Hall</p> <p>Host: Korea Academy of Science and Technology, GIST, and IBS</p>
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- Professor Gérard Mourou along with Professor Donna Strickland \* (University of Waterloo) who was his graduate student in 1985 was credited with the "Circle Pulses Amplification (CPA) \*\* technology, which contributed greatly to the use of laser as a medical, industrial, and scientific tool.

\* Professor Donna Strickland was the third female Nobel Prize in Physics winner and the first in the last 55 years.

\*\* circle pulses amplification: a technique that can increase laser intensity by 1,000 times more than before and that enables a new form of interaction between light and matter

- Professor Gérard Mourou proposed the Extreme Light Infrastructure (ELI), a large laser project supported by the European Union to build large laser facilities in three countries: Czech, Hungary, and Romanian. Professor Mourou has been advising CoReLs since 2013.
- In the lecture, Professor Mourou explained super powerful lasers its uses for exploring science, and he also introduced research on the origin of ultra high-energy cosmic radiation, loss of information in black holes, and the destruction of vacuums.
- Prior to the lecture, Dr. Seong-gu Lee of the Advanced Photonics Research Institute gave a lecture on "Nobel Prizes in Physics" to help students and the general public understand Professor Mourou's lecture. After the lecture, Professor Mourou met separately with 10 engineering students in the master's program.
- GIST President Kiseon Kim said, "I hope this will be an opportunity for us to share a new understanding of physics and a passion for research through the lecture by Professor Mourou, a world-renowned physicist. In particular, I hope that young people will expand their scientific perspectives through this lecture to greatly develop and inspire their dreams to become scientists."