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## Enrico Fermi Lecture series

**TITLE: Science and Europe 60 years after the Treaties of Rome**

**SPEAKER: Prof. Massimo Inguscio, President of the Italian National Research Council (CNR)**

**DATE: Tuesday, 21 March 2017, 16:00**

**VENUE: The Cyprus Institute - Guy Ourisson Building, Seminar Room (1st Floor)**

*\*The lecture will be in English, the event is open to the public, light refreshments will be served after the talk.*

**ABSTRACT:**

Scientists naturally establish international links to develop their research (e.g. Guglielmo Marconi, Vito Volterra – who were both pan-European researchers). This talk will focus on CNR's efforts to build-up its considerable international networks, from the Arctic to the Himalayas. CNR's approach recognizes a privileged role for Cultural Heritage in these efforts – and the fact that science knows no borders. For this reason, scientists are pioneers of political choices in Europe. Science contributes to creating Europe, but Europe also contributes to creating Science. In the context of the 60<sup>th</sup> anniversary of the Treaty of Rome, the talk highlights the role of the European Union in creating a multi-national research space, and will showcase the example of the recently announced Flagship in Quantum Technologies challenge, a ten-year programme that will see the involvement of all Member States, with a total investment of one billion euros from 2018. The CNR is the Italian coordinator of this challenge.

## ABOUT THE SPEAKER:



Massimo Inguscio, President of the National Research Council of Italy (CNR), of which had previously directed the Department of Physical Sciences, member of the National Academy of Lincei, has been president of the Institute of Metrological Research National (INRIM). He was awarded the Legion d'Honneur by the French Government, received the prize Enrico Fermi of Italian Physical Society, the Herbert Walther Award of the Optical Society of America and the German Physical Society and has been included in the Thomson-Reuters list of "most influential scientific minds" for his activities in atomic physics research close to absolute zero at LENS-European Laboratory for Non-linear Spectroscopy, University of Florence, of which he was director.

Massimo Inguscio has a long-standing experience of experimental research in: atomic, molecular and optical physics; quantum optics; light-matter interaction; spectroscopy and metrology; laser cooling; quantum simulation with ultracold quantum gases; development of spectroscopic and metrological instrumentation for physics and chemistry.

His most important achievements include: experimental tests of Quantum Electro-dynamics theory of the helium fine structure (for the high-precision determination of the fine structure constant) and of symmetry properties of molecules; first Italian Bose-Einstein condensation (BEC) with Rubidium atoms; invention of the sympathetic cooling technique with different atomic species; first Bose-Einstein condensation of Potassium atoms (41K and 39K); pioneering studies of bosonic and fermionic gases in optical lattices and demonstration of their application as accurate force sensors with high spatial resolution; first investigation of disorder physics with ultracold gases and demonstration of Anderson localization of matter waves; pioneering experimental demonstrations of quantum simulation and, more in general, of the new revolution of atom-based quantum technologies; development of instrumentation for spectroscopy, metrology and cross-fertilization of frontier and interdisciplinary fields in science.



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NOI IDENTITÀ MEMORIA  
60 ANNI DEI TRATTATI DI ROMA

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CONTACT: [office.events@cyi.ac.cy](mailto:office.events@cyi.ac.cy)