FEMTO-ST Colloquium

an opportunity to meet prestigious researchers

Thomas W. Ebbesen

USIAS & ISIS, Université de Strasbourg & CNRS, France

Monday, April 1st, 2019 - 14.00

Amphi Emilie du Chatelet - ENSMM, Besançon

Thomas W. Ebbesen is a physical chemist born in Oslo, Norway. He was educated in the United States and France, receiving his bachelor degree from Oberlin College (USA) and his PhD from the Curie University in Paris. He then did research in both the US and Japan, most notably at NEC, before returning to France in 1999 to help build a new institute (ISIS) at the University of Strasbourg. He is currently the head of the Center for Frontier Research in Chemistry and the Strasbourg Institute for Advanced Studies (www.usias.fr). He holds the chair of physical chemistry of light-matter interactions. The author of many papers and patents, Ebbesen has received numerous awards for his pioneering research on nanostructured materials including the 2014 Kavli Prize in Nanoscience for his transformative contributions to nano-optics. He is a member of the Norwegian Academy of Science and Letters and foreign member of the French Academy of Science.

The Alchemy of Vacuum

Hybridizing Light and Matter

Light-matter strong coupling can give rise to a multitude of exciting physical effects through the formation of hybrid light-matter states. The implications for molecules and material have remained mostly unexplored. After introducing the fundamental concepts, examples of modified properties of strongly coupled systems, such as charge and energy transport, and chemical reactivity will be given to illustrate the potential of light-matter states.

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