

Pr Marc Lamy de la Chapelle is professor at the Le Mans University at the Institute of Molecules and Materials of Le Mans (IMMM UMR 6283) since 2017.

Engineer from the Polytechnical school of the University of Nantes, Material sciences speciality (1996), he got his PhD in science physics in 1998 at the University of Nantes on the study of carbon nanotubes by Raman spectroscopy. After two post-doctoral positions at the Office National d'Etude et de Recherche en Aéronautique (ONERA) in Paris (Optimisation of the synthesis method of carbon nanotubes by laser ablation, 1998-2000) and at the physics department of the Tsinghua University in Beijing (China) on the study of nanostructures by Raman spectroscopy (2000-2001), he got a position of associate professor at the Université de technologie de Troyes (UTT) in 2001. His research activities were focused on nanooptics (Optical properties of metallic nanoparticles (surface plasmon), near-field optics...) and Raman spectroscopy. He notably worked on Surface Enhanced Raman Scattering (SERS) (effect of the plasmon resonance on the enhancement, enhancement optimisation). From nov. 2007 to aug. 2017, he was professor at the Paris 13 University. His research activities are focused on nano-optics and Raman spectroscopy. He develops SERS sensors to detect pollutants or to study biological media (disease diagnosis, study of the biomolecule structure...). He joined Le Mans University in sept. 2017 to develop some research activities in plasmonics, SERS and sensors.

He was involved in several research projects at the national and international level as partner or coordinator. He is notably the coordinator of the Nanoantenna european project including 12 partners on the development of a nanobiosensor from 2009 to 2013. He also coordinates an international project in China for the development of biosensor for the diagnosis of the pancreatic cancer combining the THz and SERS detection methods. He was also director of the CNRS national research network on the Molecular Plasmonics and Enhanced Spectroscopies from 2011 to 2018.

He has been awarded Etoile de l'Europe (Star of Europe) in 2013 by the French ministry of Research and Higher Education for his coordination of the European project Nanoantenna (FP7-Health-241818).