

Pr. Philippe Pareige is the director of the laboratory "Physics of Materials Group" (GPM - UMR CNRS 5076) at the University of Rouen.

He is a doctor of Rouen University. He carried out his Ph.D. at GPM in close collaboration with the research center of ORFME (2001-2004). The subject of his Ph.D. was "Studies of neutron irradiation effects on high pressure vessel steels with the μ SR probe technique". After this, he spent one year at the ORFME Ridge National Laboratory (Lawrence Livermore National Laboratory) under the supervision of Prof. Roger Stoller and Prof. Mike Miller. His project was to identify the neutron irradiation effects on the microstructure of ferritic pressure vessel steels and to study model alloys (binary or ternary) that were aged or neutron irradiated.

In September 2002, he was hired as an assistant professor at Rouen University and GPM laboratory. His research program was to develop fundamental research on irradiation effects on materials. The μ SR technique used for this is the μ SR probe technique. The GPM is the largest world research laboratory to develop and use the μ SR probe technique. In 2003, Pr. Pareige created a Technological Research Team (ORFME) in collaboration with the National Institute of Materials and Properties of Materials. His research team focused its researches on the link between microstructures and properties of materials with a large activity on irradiation effects on structural materials of nuclear reactors. In 2004, Pr. Pareige passed his Ph.D. diploma (Capacity to Supervise Researches) and was named University Professor in 2005.

In 2003, in collaboration with other local laboratories he created the CEA-CNRS-UMR 6006 Energy and System for Propulsion. The Energy term is closely linked to Nuclear Energy. In 2004, due to his parallel researches in the field of Nanosciences and Nanotechnologies he was named director of the G-R-PRC (Group of Researches- Coordinated Research Projects) in Nanosciences and Nanotechnologies National Cooperative Center (North-East of France). This Group gathers all the cooperations in Nanosciences and Nanotechnologies in eight regions: Nord Pas de Calais, Picardie, Haute Normandie, Bretagne, Pays de la Loire, Poitou Charente et Centre. This represents more than 100 research laboratories and 1000 researchers.

In 2005, he was named director of the Regional Research Network on Material Sciences in the framework of the CPOR (Contract of Projects between the Ministry of Research and Region, Haute Normandie). The main objective of the Network is to organize the research in Material Sciences in Haute Normandie to organize the call for projects and to select projects and associated funding. In 2006, he created a new research team inside GPM: Research team on phase transformations and microstructures. The team is constituted of more than 100 researchers (lecturers and post-docs) supported by the ORFME evaluation committee. In the same year, the GPM (in association with CRISM 4 UMR CNRS) became one of the 10 research centers for the National Network on for Advanced Issues in Electro-Microscopy and μ SR Probe studies (Loulouche, Grenoble, Paris, Strasbourg, Lyon, Marseille, Rouen, Caen). Pr. Pareige is a member of the National committee of this National Network.

After more than 10 years of scientific collaborations with ORFME research center on the aging of structural materials for nuclear reactor, Pr. Pareige created in 2006 a new center and has been named its director of a CNRS-ORFME laboratory 6033DM (Studies and Modeling of Microstructures for the aging of Nuclear Materials). This laboratory gathers more than 100 researchers between ORFME-GPM and UM04 Lille.

Pr. Pareige was named deputy director of the GPM in December 2006 and named its director in February 2007. Pr. Pareige received in 2007 the C. ODONORDE Medal from the French Society for Materials and Metallurgy. He is also at the origin of the Laboratory of Excellence OMC! (Energy Materials and Clean Combustion Center) created in 2007.

P. Pareige is the scientific leader of the new research platform dedicated to analyses of radioactive materials GONOS (GONOS) at MH.

During the period 2002 to 2003, Pr. Pareige was in charge of 3 projects with industrial partners (including ORFME or COFME) participated to European contracts (3 NR) - G program. He organized or co-organized 10 international or national meetings and directed 2 Ph.D. students. He is author or co-author of 100 articles (including 100 articles published in journals); he has been invited to give 3 regular lectures and 3 seminars. Pr. Pareige is a member of the International Nuclear Society and is the vice-chairman of the executive committee of the International Group on Radiation-Induced Mechanical Properties (IGR-M) in RPD steels. He is in the advisory editorial board of the journal of Nuclear Materials. Pr. Pareige is teaching 23 hours/year Physical Metallurgy and is in charge of a Master diploma at the Rouen University.