



ARNAUD LE FEBVRIER
From Sweden to France



Project: **Thin film technologies**

Research topic: **Physics**

Swedish Institution: **Linköping University**

French Institution: **PMCU / Poitiers University / Studium Conference (Tours)**

Dates of mobility: **24/08/2018 to 14/09/2018**

Program: **SFVE-A (ex FRÖ)**



PRESENTATION

[Arnaud Le Febvrier](#) is Professor and Scientist at the Thin Film Physics Division at the [Department of Physics, Chemistry and Biology](#) at [Linköping University](#). His research interests include, among others, thin film technologies, thermoelectric and advanced X-rays analysis techniques. He graduated 2012 with a PhD degree in Chemistry and Material Science at [Rennes University](#).

ACTIVITIES IN FRANCE

Arnaud Le Febvrier started his mobility in Tours where he participated in the [Studium conference](#) on frontiers in nanotematerials for energy harvesting and storage. A new collaboration on thermoelectric characterization of films emerged between his research group and the [Gremam laboratory](#) of [Fabien Giovanelli](#) from the [IUT of Blois](#).

He visited moreover the [Prime Institute](#) at the [University of Poitiers](#) where he met with [Gregory Abadias](#). A first collaboration concerned the synthesis of thermoelectric thin films by physical vapor deposition process whereas the second one dealt with the thermoelectric application with a new approach of increasing the performance of a similar material by ion implantation.

Finally, he met with, among others, Fabien Beillard at Université Pierre et Marie Curie ([PMCU](#)). Arnaud Le Febvrier gave there a presentation at the conference entitled "Thermoelectric CrN: from n-type to p-type semiconductor behavior". They discussed moreover a project on thermal property characterization of films by thermoreflectance.