

Business Trip Report

Name: Rafael Gutierrez

Destination: Madrid

Event: Conference Nanospain 2022 & scientific meeting at the Universidad Complutense

Departure: 17.05.2022

Return: 20.05.2022

Contents (in detail!):

The trip combined attending the Nanospain 2022 conference (<https://www.nanospainconf.org/2022/>), where I was invited to give a keynote talk

Chairperson: Andres Castellanos-Gomez (ICMM-CSIC, Spain)				
14:45-15:15	KEYNOTE	Atomistic Studies of Thermal Transport at the Nanoscale	Rafael Gutierrez, TU Dresden, Germany	↓
15:15-15:45	KEYNOTE	Amorphous Materials for Applications in Nanoelectronics and Neuromorphic Computing	Stephan Roche, ICREA/ICN2, Spain	↓
15:45-16:15	KEYNOTE	Electronic excitations and energy dissipation of atoms and molecules approaching metallic surfaces	Ricardo Diez Muño, DIPC / CFM-CSIC, Spain	↓
16:15-16:30		Permeation and Recombination of Hydrogen Chemisorbed on Graphene: Insights from Computations	Marta I. Hernández, Instituto de Física Fundamental, Spain	↓
16:30-16:45		Thermal Conductivity in Nanostructured Thermoelectric PbTe	Jorge Kohanoff, Universidad Politécnica de Madrid, Spain	↓

and to have a scientific meeting at the Universidad Complutense with Prof. Francisco Dominguez-Adame, Prof. Elena Diaz and Prof. Leonor Chico and some of their students.

During the conference I got in touch with Dr. Wynand Dednam, University of South Africa, South Africa, who has been implementing a transport code to address the CISS effect on a DFT basis. We will organize soon a meeting to discuss some possible ways to collaborate. I also met Dr. Hugo Perez Garza, DENS Solutions, The Netherlands, who studied Molecular Bioengineering at TUD and who is now CEO of a company distributing highly advanced TEM devices for real time resolution of dynamical processes like cluster or dendritic growth. Getting in touch with him may be surely of interest for the experimental people at the chair as well as other groups at the faculty or institutes.

At the meeting in the Complutense we discussed 1) some new ongoing funding

possibilities for cooperations between Spain and Germany (subject to approval by the Spanish government) 2) topics related to thermoelectric properties of 2D materials and the CISS effect. Leonor Chico was very much interested in the latter, so that we may have the chance to develop some cooperation with her

24.05.2022

date

Rafael Gutiérrez

(signature)