

NOMAD hosts First Industry Workshop

On 01 – 02 March 2016, NOMAD hosted its first Industry Workshop, an event that brought together NOMAD researchers and representatives of companies that have supported NOMAD from when the project was first proposed. The NOMAD team hopes that these companies, and others, will use the tools developed by NOMAD to further their businesses. The team also listened attentively to understand the needs of different companies with respect to utilisation of our Big-Data materials database.

Industry representatives included members of our Industry Advisory Committee (BASF, BIOVIA, Dassault Systemes, BP International Ltd, Fraunhofer IWM, Haldor Topsøe, Nokia Technologies, QuantumWise) and other industries with materials science needs and know-how (Granta Design Ltd, Greenetica GmbH, ISFOC, Joanneum Research, Lockheed Martin, Materials Design, MCL, NOVALED GmbH, REPSOL S.A., Shell, Siemens, Tecnalia).

The meeting took place at the Seminaris Conference Centre in Berlin, and was characterised by a friendly and collaborative atmosphere. Lead researchers from the project presented our objectives and plans to apply Big-Data Analytics to Materials Science, and we had the opportunity to listen to industry needs and requirements.

NOMAD's Coordinator Prof. M. Scheffler opened the meeting by introducing the *NOMAD Laboratory Centre of Excellence (CoE)*. Presentations on the tools the CoE will deliver followed, including building the *NOMAD Materials Encyclopedia* based on state-of-the-art simulations data (Prof. C. Draxl), developing and applying Big-Data tools to leverage our open access database (Dr. L. Ghiringhelli), and using advanced graphics and virtual reality platforms to facilitate analysis (Dr. R. Hernandez). Importantly, NOMAD's plans for establishing and maintaining collaborations with industry were discussed by Prof. A. De Vita.



Once the *NOMAD Laboratory CoE* had been introduced, our industry representatives took the stage, with contributions from our valued industry partners, including Ansgar Schäfer (BASF), Angela McKane (BP), Jani Kivioja (Nokia Technologies), Stefan Lempenscherf (Siemens), Kurt Stokbro (QuantumWise) and Michael Krein (Lockheed Martin). Their presentations served as a starting point for further discussion and brainstorming, which allowed NOMAD researchers to better understand industry needs and propose ways in which our tools can meet these needs.

Based on the meeting, the NOMAD team has developed an 'Industry Wish List', which will help us as we develop the tools to equip the *NOMAD Laboratory CoE*:

- Establish links between simulations and properties of interest
- Enable selection of the most promising materials for a given application
- Develop a seamless Graphic User Interface (GUI)
- Make NOMAD a platform for boosting multi-scale modelling and link NOMAD to design and manufacturing processes
- Pose no obstacle to third parties wishing to build proprietary tools on top of NOMAD tools
- Create new market niches
- Avoid recording/tracing of users' identity
- Ensure that NOMAD data will have a long life time
- Publicize success stories to raise awareness

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