



NOMAD Hosts Second Industry Meeting

On 06 - 07 February 2017, NOMAD hosted its second *Industry Meeting*, an event that brought together NOMAD researchers and *Industry Representatives* from EU-based industries. The two-day meeting was held at the Center for Free-Electron Laser Science in Hamburg. Centred around informative talks from both NOMAD and *Industry Representatives*, the meeting was characterized by a friendly and highly constructive exchange between researchers and industry. The aim of the meeting was to gather feedback from industry on NOMAD's progress since the first *Industry Meeting* (March 2016) and learn more about industry requirements for future use of NOMAD tools. *Industry Representatives* included members of our *Industry Advisory Committee* (IAC) (BASF, BP International Ltd, Dassault Systemes BIOVIA, Fraunhofer, Haldor Topsøe, Nokia Technologies, ONYX, QuantumWise A/S and SpringerMaterials) and representatives from other industries with materials science needs and know-how (Deregallera Ltd, Granta Design Ltd, Greenetica GmbH, GTT Technologies, ISFOC, Materials Design, MCL, Nanolayers, Schott AG, Shell, Tecnalia).

NOMAD Coordinator Prof. M. Scheffler opened the meeting by summarizing two of the main focuses of NOMAD: Data Quality and Data Analytics. Since one of the fundamental elements of NOMAD is collaboration with industry, Prof. A. De Vita then outlined the results of one-to-one interviews and other engagement with industry, as well as on-going work with the IAC. Lead researchers from the project presented an overview of the last 15 months of work, including updates on the *NOMAD Encyclopedia* and its web-based Interface (Dr. G. Huhs) and the *NOMAD Big-Data Analytics Toolkit* (Dr. L. Ghiringhelli). In addition, examples of how *NOMAD Advanced Graphics* and virtual reality platforms can be used to facilitate analysis were presented (Dr. R. Hernandez, Dr. S. Levchenko).



Discussion and brainstorming session

A number of industry representatives (Jürgen Spitaler (Materials Center Leoben Forschung GmbH), Michael Klinge (SpringerMaterials), Praveen Pankajakshan (Shell), Sorin Filip (BP), and Erich Wimmer (Materials Design)) then presented the needs and requirements of their companies, and how they envisioned interacting with NOMAD in future. These presentations served as a starting point for discussion and brainstorming, to help NOMAD researchers to further understand industry needs and adapt NOMAD research activities to meet these needs.

The 'take-home' messages for the NOMAD team were that:

- Long-term availability of NOMAD data and tools is important to industry. NOMAD has committed to keeping parsers up-to-date for 3 years and storing data for 10 years - this commitment needs to be clear.
- An API for the *NOMAD Archive, Repository and Toolkit* would be very welcome.
- Industry is interested in case studies and examples of how NOMAD has helped industry. Slides, case studies, newsletter other dissemination resources would be welcome. New materials now available at: <https://nomad-coe.eu/index.php?page=promotional-materials>.
- NOMAD needs to be visible (online, at conferences...). In particular, reaching out to SMEs needs lower-commitment, low-cost activities (e.g. webinars).
- Embedding NOMAD researchers in industry and student placements should be pursued.

We look forward to meeting with industry representatives again in February 2018 in London!

If you are interested in joining us, email kylie.obrien@pintailservices.com

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