

Lunch Talk PSV I Mon 13:15 HE 101
What Counts in Public Transportation — ●JAN SABLATNIG —
 Interautomation Deutschland, Berlin, Germany

This talk will tell you how an astrophysicist came to work with people counting sensors in public transportation. Further, how one can improve the counting results of existing sensors using standard physical and mathematical principles. And finally, how the most important part of finding solutions is not finding better numbers but rather of explaining your approach and finding a common base and standard to interpret these numbers. Therefore, surprisingly, as an off-campus researcher, much actual science, i.e. both *finding* rules about the subject researched and *spreading* that knowledge to those affected is required.

Lunch Talk PSV II Mon 13:15 H 0104
Promoting academic Cooperation: The Alexander von Humboldt Foundation — ●DAGMAR BROEMME — Alexander von Humboldt Foundation

The Humboldt Foundation promotes academic cooperation between excellent scientists and scholars from abroad and from Germany (after the doctorate).

If you would like to become a member of the Humboldt Family, only one thing counts: your own excellent performance: the Humboldt Foundation supports people, not projects.

Research fellowships and research awards allow you to come to Germany to work on a research project you have chosen yourself together with a host and collaborative partner. If you are a scientist or scholar from Germany you can profit from our support and carry out a research project abroad as a guest of one of more than 28,000 Humboldt Foundation alumni worldwide - the Humboldtians.

Every Humboldtian needs an academic host. Become a host and encourage your young, collaborative partners from abroad to apply for a Humboldt Foundation research fellowship for a research stay at your institute, or nominate a cutting-edge researcher of your choice for a Humboldt Research Award.

As an intermediary organisation for German foreign cultural and educational policy the Humboldt Foundation also promotes international cultural dialogue next to the academic exchange.

Lunch Talk PSV III Tue 13:15 HE 101
Protecting Identities - as a Physicist in the Business for international Government Solutions — ●SILKE BARGSTÄDT-FRANKE — Veridos GmbH, Munich, Germany

Today's globalized world is fast, mobile, and highly virtualized. Governments thus face a major challenge: to reliably identify citizens and travelers and effectively protect them from the threat of identity theft and fraud. Veridos GmbH is a joint venture of Bundesdruckerei GmbH and Giesecke + Devrient GmbH - we are realizing high-performance identity solutions - from personalized documents such as passports, ID cards, driver's licenses, and healthcare cards to end-to-end system solutions for data acquisition, personalization, and issuance to verification, border control, authentication, and mobile e-government. In this lunch talk an overview inside this business as well as an introduction into the challenges in my daily work as division head for Product Management will be presented. Furthermore various career opportunities for physicists in the industry including in technical and management career will be discussed.

Lunch Talk PSV IV Tue 13:15 H 0104
FET Open: the European Innovation Council's exploratory engine for research on future disruptive technologies — ●MARTIN LANGE — Research Executive Agency, European Commission

The new European Innovation Council (EIC) pilot supports top-class innovators, scientists, researchers, entrepreneurs and small companies with bright ideas, offering €2.7 billion in funding for the period 2018-2020. It brings together those parts of Horizon 2020 that support high-risk/high-return, breakthrough research or market creating innovation.

As part of the EIC pilot, the Future and Emerging Technologies (FET) Open programme aims at mobilising Europe's most creative and forward thinking researchers from all disciplines to work together

and explore what may become the disruptive technologies of the future.

Researchers are able to submit their ideas to a call for proposals (next submission deadline: 16 May 2018) open to any scientific discipline. Proposals must focus on ambitious high-risk / high-impact interdisciplinary research, addressing a clear and radical vision, and targeting a novel science-to-technology breakthrough as a first proof of concept for this vision. The participation of excellent young researchers and ambitious high-tech SMEs is strongly encouraged.

In my presentation, I will introduce the EIC pilot and explain the most important features of the FET Open programme, including scope, objectives, expected impact, budget, the evaluation process and criteria. I will also provide some statistics and examples of projects, with a specific focus on Condensed Matter Physics related topics.

Lunch Talk PSV V Wed 13:15 HE 101
Physics meets optical manufacturing — ●ULRIKE FUCHS — asphericon GmbH, Stockholmer Str. 9, 07747 Jena, Germany

Optics is a rapidly growing industry since photonics is one of the driving technology of our days. Next to optical design and simulations, manufacturing of optical components becomes more challenging due to increasing complexity in designs and novel components, such as freeform optical surfaces. This traditional craftsmanship is nowadays dominated by various CNC-based grinding and polishing processes, which call for a deeper understanding of material science, chemistry, physics, and mathematics. This talk will give an overview of the different technologies involved and how they relate to questions asked by physicists.

Lunch Talk PSV VI Wed 13:15 H 0104
The German Research Foundation – overview and international programmes — ●COSIMA SCHUSTER — Deutsche Forschungsgemeinschaft, Bonn

The German Research Foundation (DFG) is the central funding organization for basic research in Germany. As a self-governing organization for science and research it offers a broad spectrum of funding opportunities from individual grants to larger coordinated programs. Thereby, DFG funding shall enable interdisciplinary and international cooperation between researchers. The DFG supports international research cooperation in all of its funding programmes and with a multitude of instruments.

The talk will give an overview about DFG funding possibilities and the decision processes. In particular, international programmes will be discussed in detail, e.g. the postdoctoral research fellowship for a stay abroad, the initiation of international collaboration, and most importantly, bilateral projects.

Lunch Talk PSV VII Thu 13:15 HE 101
Physicists in Consulting — ●ROLF LOSCHEK — CHRONOS Management Consulting (Owner), Köln

The speaker reports about stations of his career in the telecommunications industry at Philips, Siemens, Accenture, PSI AG, Steria-Mummert Consulting and finally his own company. Where does physics help in dealing with issues of terminals, network infrastructure and consulting? Some considerations like "What skills and experiences are essential for a career?", "Can careers be planned?" conclude the talk.

Lunch Talk PSV VIII Thu 13:15 H 0104
Funding Opportunities Provided by the German Academic Exchange Service (DAAD) — ●HOLGER FINKEN — DAAD, Bonn

Researchers international mobility is key to the successful advancement of science. The German Academic Exchange Service (DAAD) has been offering support schemes for scientists and scholars since its foundation as a grass-root movement in 1925, both for Germans wishing to study and/or do research abroad and for foreign academics wishing to do the same in Germany. The presentation will discuss PRIME (Postdoctoral Researchers International Mobility Experience), the EU-supported DAAD signature programme for both German and international postdocs, alongside other funding schemes. It will give an overview of funding details, application procedures, selection criteria, and recent results.