

AGjDPG 5: Postersession Internationaler Erfahrungsaustausch

Scientists are global networkers. They cooperate and exchange their knowledge across borders and around the globe, interacting between countries and cultures. This environment offers wonderful possibilities for everyone, but it also requires skills and experience beyond scientific knowledge to successfully benefit from it. It is an essential part of scientific education to gain this experience and to spend time abroad in different scientific cultures, even if this is not explicitly required by the curricula. All the more, one's own initiative is required and curiosity has to be stimulated to see and experience other countries and scientific contexts.

In this session, students and young researchers share where in the world they have been, what they did, how they got there, and what they experienced. Beyond that there is also the possibility to collect information about universities, institutions, and physics studies abroad and inform yourself about international events for physics students.

The world is full of opportunities, take your chance!

Zeit: Mittwoch 17:00–19:00

Raum: HSZ 4.OG

AGjDPG 5.1 Mi 17:00 HSZ 4.OG

Gel dosimetry – a laser based 3D scanner for gel samples – research in India — ●JOHANNES WIDMER^{1,2}, SENTHIL KUMAR DHIVYARAJ KALAISELVEN^{2,3}, and JEBASEELAN SAMUEL JAMES² — ¹Institut für Angewandte Photophysik, TU Dresden, Germany — ²Photonics Division, VIT University, Vellore, Tamil Nadu, India — ³Department of Therapeutic Radiology, University of Minnesota, Minneapolis, USA

A laser based 3D scanner is developed to take tomography images of partly transparent samples. The scanner is optimized to characterize gel samples from spatially resolved dosimetry measurements. The resulting device should be suitably designed to be constructed in India. This gave me valuable insight into the scientific and technological environment of the country and made me find my way through a quite different culture of research and commerce, within and beyond the scientific context of the university. The project was implemented during a nine months stay at the Vellore Institute of Technology University in Vellore, Tamil Nadu, India, in co-operation with the Christian Medical College, Vellore, in 2006/07. It was conducted within the framework of existing research activities of the host university.

AGjDPG 5.2 Mi 17:00 HSZ 4.OG

Studienaufenthalt an der Cornell University, Ithaca, NY — ●ROBIN ROTH — Karlsruher Institut für Technologie, Karlsruhe, Deutschland

Dieses Poster beschreibt meinen Auslandsaufenthalt in den USA an der Cornell University, Ithaca, NY. Dargestellt werden Planung, Bewerbung und Finanzierung des Aufenthalts, Leben in den USA im Allgemeinen und Ithaca im Besonderen, das amerikanische Universitätssystem, der Studienalltag und welche Möglichkeiten sich auf und abseits des Campus bieten. Der Aufenthalt wurde gefördert von der Fulbright Kommission und der Studienstiftung des deutschen Volkes.

AGjDPG 5.3 Mi 17:00 HSZ 4.OG

Visit the Northern Parts of the World – RISE Worldwide Internship in Canada and ERASMUS Studies in Sweden — ●MATTHIAS ZIMMERMANN — Ulm University, Germany

International experiences become increasingly important in our globalized world. This poster presents the experiences I had during a RISE Worldwide internship at York University in Toronto in summer 2011. The internship lasted two and a half months and during that time I worked on a theoretical description of the double ionization of neon by electron or ion impact. We used generalized Dyson wave functions for our description which can be seen as an overlap integral over the wave functions of the neutral and the double ionized atom. The focus of the internship lied on the properties of the Dyson wave functions and their visualization. These wave functions can be used as initial states for the calculation of the cross section of the ionization process.

I will also present some insights into my ERASMUS studies at Lund University in Sweden during the autumn semester 2012. It has been a fascinating time with interesting courses and a Nobel lecture.

AGjDPG 5.4 Mi 17:00 HSZ 4.OG

Ein Semester in Grenoble — ●STEFAN BREMS — Universität Heidelberg, Deutschland

Seit dem Wintersemester 2008/09 bin ich Student der Mathematik und Physik auf Lehramt in Heidelberg. Im Wintersemester 2012/13 habe

ich dann ein Semester in Grenoble studiert, wobei der Schwerpunkt deutlich auf der Physik lag. Die an der Universität besuchten Veranstaltungen waren: Theoretische Quantenmechanik, Halbleiterphysik, Geschichte und Epistemologie der Mathematik, Sprachkurs Französisch, Klettern und Klettersteige sowie zwei Zweitagespraktika an der Neutronenquelle am Institut Laue-Langevin (ILL). Dies und was man in und um Grenoble noch so alles machen kann, würde ich mit meinem Poster gerne vermitteln.

AGjDPG 5.5 Mi 17:00 HSZ 4.OG

SNOLAB and CERN - Canada and Switzerland — ●ANNA BAKENECKER — Universität Heidelberg

Canada, Ontario, Sudbury, Lively, Creighton Mine - In the middle of nowhere, 2km under earth in a nickel mine is SNOLAB (Sudbury Neutrino Observatory) located. Detectors for neutrinos and dark matter particles are doing their work in the world's deepest underground laboratory. The laboratory, which is a clean room, can be only entered via a small cage (elevator) and a dirty mine drift. In order to work here as a physicist one has to undergo training for miners, however it is adventurous! I was working on a project on low background measurements as a summer student in 2010.

My second summer student job took me to Geneva, CERN in 2011. How to become a summer student? How does life look like at CERN? What kind of jobs can an undergraduate student do at CERN? Every year around 150 summer students from all over the world come together at CERN. The multicultural and the work experience made up an unforgettable summer in Switzerland.

AGjDPG 5.6 Mi 17:00 HSZ 4.OG

Opportunities for foreign students at Faculty of Physics and Astronomy, University of Wrocław — ●JAKUB BILSKI, JOANNA JOŃCZYK, and JAKUB KWIECIEŃ — Faculty of Physics and Astronomy, University of Wrocław, Wrocław, Poland

In the poster we give general information about Faculty of Physics and Astronomy, University of Wrocław and more details about main research areas and projects. We also present exchange programmes and internships available for foreign students.

AGjDPG 5.7 Mi 17:00 HSZ 4.OG

Auslandsstudium in Österreich und Frankreich — ●FREDERIK KESTING — Universität Innsbruck

Ein Studium im europäischen Ausland zu absolvieren ist, nicht zuletzt durch die Vorzüge der Europäischen Union, auch im Fach Physik sehr populär. Studenten profitieren dabei nicht nur von den exzellenten Studienbedingungen und interessanten Forschungsschwerpunkten, die viele ausländische Universitäten bieten. Auch der kulturelle und persönliche Austausch, sowie die Möglichkeit sich international zu vernetzen, spielen eine große Rolle.

Ich habe mein Bachelor- und Masterstudium in Physik in Innsbruck (AT) absolviert. Zusätzlich habe ich auch ein Semester in Grenoble (F) im Rahmen eines ERASMUS-Stipendiums verbracht. Auf meinem Poster möchte ich über diese Zeit informieren und einige interessante Tipps an Studienkollegen weitergeben.

AGjDPG 5.8 Mi 17:00 HSZ 4.OG

Studying abroad in the UK at the University of Bath —

•THOMAS KRÜGER — Institut für Kernphysik, Technische Universität Darmstadt — ExtreMe Matter Institute EMMI, GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt

Studying abroad provides a unique opportunity for students to discover academic and non-academic life in other countries and to learn or improve a foreign language.

I present details about my year abroad in 2009/10 at the University of Bath in the United Kingdom (UK). This includes a brief introduction of the institution and the higher education in the UK in general as well as a discussion of costs and financing. I also present as list of courses I took and possible activities beyond academic life.

AGjDPG 5.9 Mi 17:00 HSZ 4.OG

The International Conference of Physics Students (ICPS) 2014 in Germany — •MATTHIAS ZIMMERMANN¹, ANNA BAKENECKER², ANDREAS WEIDEN², PHILIPP FIGARD², and PETER MICKE³ — ¹Ulm University, Germany — ²Heidelberg University, Germany — ³Johannes Gutenberg University of Mainz, Germany

The ICPS is an annual conference and the main event of the International Association of Physics Students (IAPS). From year to year organized in a different country, it will take place in Heidelberg (Germany) in 2014. The intention of the conference is to give physics students from all over the world the opportunity to come together, to talk about science, studying and academic life, to practice presenting their research and, all in all, to have an exciting time.

We expect about 400 physics students from over 35 countries and interesting lectures given by Nobel laureates and other eminent physicists. The participants will visit laboratories of the university and further research facilities in the vicinity of Heidelberg. Furthermore they will have inspiring conversations, establish contacts to other physics students from all around the world and they will learn more about the different cultures that come together here. The one week of the conference has also its fair share of scientific, social and touristic program. About 25 members of the Young German Physical Society (jDPG) are organizing this amazing event for you!