

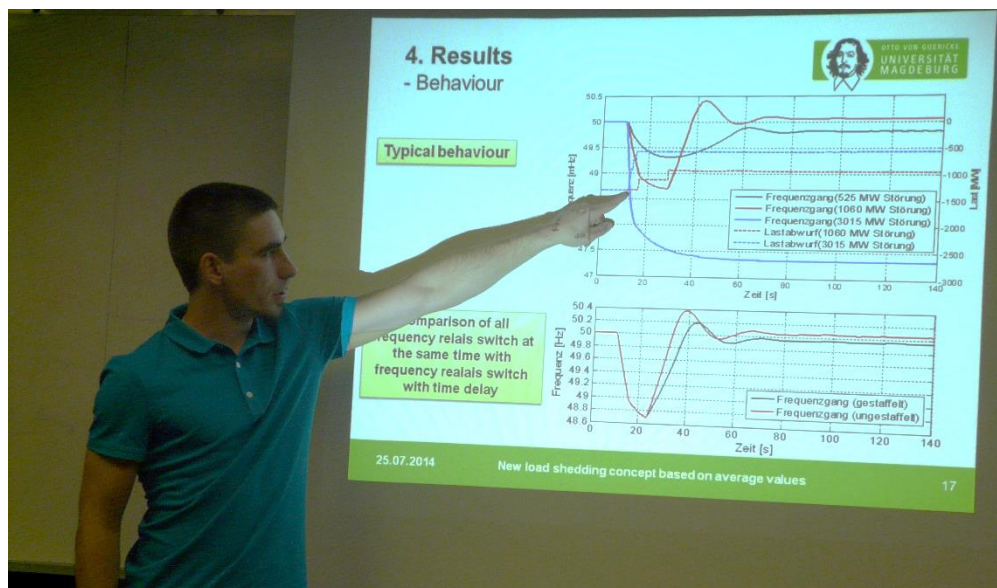
ELECON Secondments OVGU -> USP

USP, São Paulo, June – August 2014

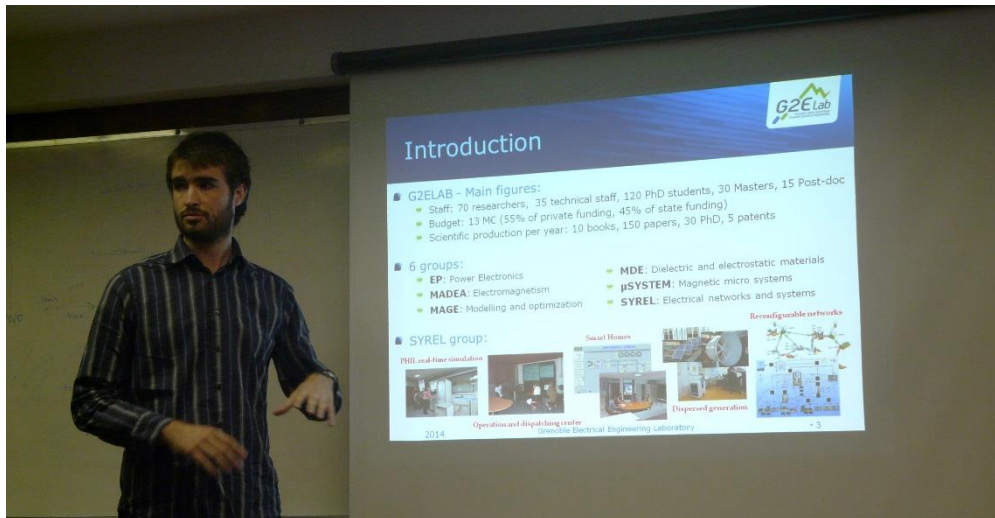
André Richter, PhD student of the OVGU, has been at the USP, Brazil during a secondment from 1st of June 2014 till the 31st of August 2014.

During his stay he analyzed typical consumer load profiles for small consumers in Germany. Mr. Richter was greatly supported at his work by the colleagues of the faculty Politecnica, at the chair of ENERQ (Departamento de Engenharia de Energia e Automação Elétricas). He got the opportunity to visit one of the faculty laboratories with a solar panel, diesel generator, current and voltage waveform simulation system and further more. With the help of professors, colleagues and students and their research topics he got possibility to get introduction and overview in the Brazil electricity system and the methodology to handle consumer problems, for example voltage drops, in the low voltage grid in São Paulo. As a summary of the knowledge and experience exchange, the German standardized load profiles for small consumers, which are presented in a report, cannot be easily transferred to the Brazilian energy system.

On the 25th of July he attended an interesting presentation of the ELECON participants from the OVGU (André Richter) and from INPGRENOBLE (Victor Gouin) where they present their research topics. Mr. Richter presented load shedding concepts and grid behavior in case of disturbance especially in case of strong demand increase.



Mr. Gouin presented the beneficiary concept of smart grid integration in a city distribution grid like Grenoble and effects on generation and demand as well as on line burden.



The interested audience consists of colleagues from the USP and some colleagues from the local electricity provider Eletropaulo who work together with the chair of ENERQ. After the presentation was a discussion about experience in Brazil, France and Germany about voltage stabilization, measurement and further more.



In the end it was successful secondment for experience, research and knowledge exchange in the field of the electricity systems in Brazil especially in Sao Paulo which is one of the largest cities on the world. In comparison to the German electricity system with the rising renewable energy influence it was different new experience.