

Report on European Summer School & 2nd Japanese-German Student Workshop

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It has been such a wonderful experience for me. A great environment, great lectures, and great people.

I participated in the short-term placement program to Germany from Oct. 4 to Oct. 16, 2008 and attended European Summer School and 2nd Japanese-German Student Workshop held in Germany.

In the first half of the program, at School, I had a variety of lectures from professors all around world, obtaining tremendous amount of knowledge on plasma from fundamentals to leading-edge technologies and applications. The lectures given were all not too hard to understand, and I hope I can apply what I have learned to the future. Master Class on the Physics and Technology of Fusion Plasma was also an interesting topic for me because I wasn't familiar with fusion plasmas. As a whole, lectures at the School deepened my understanding of plasmas, at the same time, I could expand my knowledge of plasmas because they referred to the area which I haven't studied.

Physikzentrum, where the School is held, was well equipped and I could stay in great comfort and had a quality time. At meal time, there were chances of getting to know young researchers around the world and exchange information on their own culture, lifestyle, area of specialty, etc. Also, I could talk to leading professors in face to face, so it was a great experience for me.

In a poster session, I presented my poster, titled "Gas-Phase Diagnostics of Novel Nonequilibrium Atmospheric-Pressure Plasma with Ultrahigh Electron Density (10^{16} cm^{-3}) and Glass Surface Cleaning". I learned what others have researched while I discussed my study with others participants and enhanced my knowledge

At 2nd Japanese-German Student Workshop, I gave a presentation under a title of "Development of Novel Nonequilibrium Atmospheric Pressure Plasma with Ultrahigh Electron Density (10^{16} cm^{-3}) and Its Application", which was my first oral presentation in English. I received some questions regarding how I had done VUVAS experiment in the atmosphere and measurement of electron densities, plasma homogeneity, etc. and I questioned to others as well. My presentation did not go well as I expected but I am happy that German students could understand what little German phrases that I used in my presentation. Anyhow, I gained my presentation experience on the international stage.

After that, there was a laboratory tour of Ruhr-Univ. Bochum and students kindly showed around their experiment. There are some studies on plasma applications but a lot of laser measurement systems caught my eyes. I had an impression that CPST focuses more on plasma diagnostics than applications. Some experimental techniques and environmental setups that I saw there can be used as a reference, and I am sure that they will help enhance my future research and others.

In summary, both European Summer School and 2nd Japanese-German Student Workshop were very much meaningful experience for me. I got to know many people from around Europe and absorbed a lot of information. I am certain that I take advantage of the knowledge and experience from this program and I will continue working on my research with a global view.

At last, I'd like to thank the ITP office and German parties for giving me the opportunity and making this short-term placement program to be a fulfilling one.