

Saitama University

Research advisor / Graduate School of engineering,

Professor KOBAYASHI Shinichi

Former international student / Dr. Suharyanto (Indonesia)

◆Profile (Former international student)◆

Nationality: Indonesia

Educational Background in Japan:

October 2001 – March 2002: Saitama University (Research Student)

April 2002 – March 2004: Saitama University (Master)

April 2004 – March 2007: Saitama University (Doctor)

Present Institution / Status:

Gadjah Mada University / Lecturer and Researcher.



Entrance of the Department of
Electrical Engineering

◆Follow-up Research Fellowship◆

Period: August 1, 2009 – August 12, 2009 (11 days)

Institution: Gadjah Mada University

Field of Research Guidance: Electric and electronic engineering

◆Research advisor's Impressions for the former International student while studying in Japan◆

Dr Suharyanto came to Japan on October 2001 under the scholarship of Ministry of Education, Culture, Sports, Science and Technology (MECSST). He entered the program in Electrical and Electronic Systems of the Master's course of Graduate School of Engineering in Saitama University on April 2002, after he studied Japanese in Saitama University for half a year. He completed the program in Electrical and Electronic Systems on March 2004, and he entered the program in the Industrial Science of the Doctoral course of Graduate school of Science and Engineering on April 2004. Then he completed the doctoral course program and got PhD degree on March 2007. He is now Assist Prof of Gadjah Mada University. His research field concerned secondary electron emission (SEE) phenomena which influence on surface flashover characteristics of insulating materials in vacuum. To carry out this field of research professional knowledge of materials and skill in experiments are required. He studied material science and related experiment techniques enthusiastically. In consequence he could obtain novel experiment results and write many excellent papers. In particular the paper which was published in the Institution of Electrical and Electronic Engineers (IEEE) after International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV) was recognized as the best paper in ISDEIV. He was very popular with laboratory members as he grappled earnestly with an issue. In addition researchers outside the university, such as High Energy Accelerator Research Organization, gave him their trust as well.

◆Communication after studying in Japan◆

We have kept in contact with Dr Suharyanto to discuss how to manage our collaboration, since he returned to Gadjah Mada University to work as an Assistant Professor. In September 2008, we met

each other in Bucharest in Romania where ISDEIV that he attended as a best paper prize winner was held. On that occasion we made close discussion on our collaboration, agreed to start collaboration. As the first step of our collaboration he stayed our laboratory for about a month from September to October 2009 to carry out experiments under the support by Gadjah Mada University and Saitama University.

◆Further Cooperation and Communication◆

As described in 2, we have kept in close contact with Assist. Prof Dr Suharyanto. We hope to continue this close contact. In this context experiment results obtained during his staying for one month this year were discussed, and a conclusion that it would be possible to submit a paper involving the results to ISDEIV to be held in Germany 2010 if further experiments could be carried out was derived. In addition we discussed and confirmed to continue our collaboration, and decided to form a research plan and apply to seek support from an organization.

◆Further Cooperation between institutions◆

Last October Dr Tumiran, the Dean of Engineering Faculty of Gadjah Mada University, visited Saitama University. At that time the president of Saitama University expressed that the university has a mind to conclude exchange program between Saitama University and Gadjah Mada University. When I visited Gadjah Mada University this September, I met vice Dean of Engineering Faculty who is in charge of international affairs of the university and discussed exchange program. After coming back to Japan I asked Dr Suharyanto who was staying in our laboratory to hand over a draft of agreements. I hope to take necessary action to the next step. Further it should be noted that Dr Tumiran, the Dean of Engineering Faculty of Gadjah Mada University, was a international student supported by the scholarship of MECSST and got PhD degree from Saitama University. In addition he was a supervisor of Dr Suharyanto who was an undergraduate student.

◆Impression of this program by Former International student◆

I deeply appreciate JASSO for providing this Follow-up Research Guidance Program. This program helps me and my laboratory very much to advance our current researches. I together with the laboratory members have intensively discussed with Prof. S. Kobayashi about our currently researches, especially in high voltage engineering and electromagnetic fields. We are very pleased given the software for calculating the electric field distribution. I believe that the software could support us to improve the quality and quantity of our research. We expect very much the support of JASSO to our researches could still be continued in the near future.



General lecture



Front Gate of Gadjah Mada University