



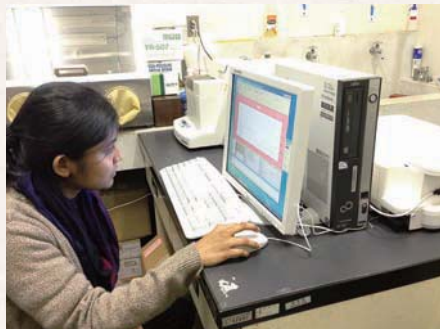
**Khanam Marzia**

総合理工学府  
環境エネルギー工学専攻  
修士 1年

I am Marzia Khanam from Bangladesh. I have completed Bachelor of Science in Mechanical Engineering degree from Military Institute of Science and Technology, Dhaka, Bangladesh in 2012. Now I am 1st year student of M.Sc leading to PhD under Green Asia program. I belong to the department of Energy and Environmental Engineering. I feel honored to be a student of Green Asia program.

Adsorption cooling system is a promising technology to provide a safe alternative to CFC based refrigeration devices powered by waste heat sources or renewable energy sources. There are some parameters on which the performance of the system depends such as adsorption characteristics, kinetics, isosteric heat of adsorption of the assorted adsorbent refrigerant pair as well as the heat and mass transfer rate in the adsorbent bed.

To improve the performance of the adsorption system it is indispensable to optimize all the parameters. Now my research work is to analyze thermal conductivity of composite materials to develop the performance of adsorption cooling system by enhancing the heat and mass transfer rate in the adsorbent bed.



**Pal Animesh**

総合理工学府  
環境エネルギー工学専攻  
修士 1年

I am, Animesh Pal from Bangladesh, a first year (MI) student of Green Education Center, Kyushu University. I completed B.S and M.S. in the dept. of Applied Physics, Electronics and Communication Engineering from University of Dhaka, Bangladesh in 2011 and 2013, respectively. After that I had an opportunity to teach undergraduate students in one of the public universities in my country since July, 2013 to September, 2013. In October 2013, I enrolled in an Advanced Graduate Program in Global Strategy for Green Asia as a Master leading to PhD student.

My research theme is to develop composite adsorbent materials for thermally-driven adsorption cooling and heat pump system. Thermally-driven adsorption cooling/heat pump systems have gained wide popularity and attention because, firstly, they could utilize low temperature waste heat or renewable energy sources and secondly, their usage of recovered waste heat contributes to the reduction of greenhouse gas emission. To make the composite adsorbent blocks using promising adsorption materials and suitable binder and hence to investigate the adsorption characteristic is the beginning of my research. The purpose of the "Green Asia" program is to foster a creative leader who can take on the challenges of balancing economic development and greening in the Asia region and also all over the world. I am very felicitous to become a student of this program. I will do my best to contribute to this program and its enlightenment towards the further development of my country and Asia.



**Sindy Dwiki**

工学府  
地球資源システム  
工学専攻  
修士 1年

I am master 1st year student, belongs to Rock Engineering and Mining Machinery Laboratory, Department Earth Resource Engineering in Ito Campus Kyushu University. My life in Japan has already started about 5 months, since I come from Indonesia at the end of September last year. So far I feel very fortunate with the opportunities given to me, especially for formal education and life education, because I had to get out of my comfort zone and interact with people from another nationality. I began to understand the concept of a world citizen, where the ownership feeling of the earth should be divided not only within the region but must be based on the awareness that we are human beings who live on the same earth.

Green Asia program itself has been very interesting for me from the beginning, especially for its goal to produce global leaders who are expected to become the leader in their respective countries. Surely it is not grandiose concept for me, because I believe every person is formed by the path of education, both formal such as a university and informal, which can be obtained from anywhere. By educating generations not only for those aspects of formal education, I am really sure that it is liable the goal of Green Asia program to produce global leaders can be succeeded. To make this dream happen, I as Green Asia student will try my best to be actively involved in all of Green Asia program and activities.

My research is about acid mine drainage (AMD) that caused by mining activities. Since mining is infamous activity that influence environment, it is important to deal with possibility of bad impact that can happen during mining activity and when after mining is finished. One of serious environmental problem from mining is AMD that generally has low pH and/or high concentration of heavy metal, which is very toxic for environment. How to prevent and treat the AMD in mining site is the focus of my research.

After graduated from Kyushu University, I hope to continue my study but in real practice of application from my research study. After that, I really would like to work in Indonesia government ministry, especially for ministry of energy and mineral resources Republic Indonesia. Still long way and maybe not an easy one but I will try hard to pursue my dream.

