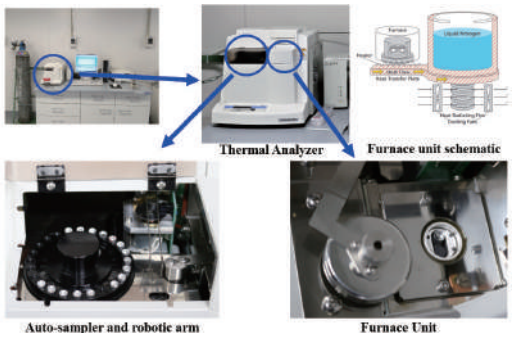
Tahmid Hasan Rupam

総合理工学府
環境エネルギー工学
一貫制博士１年(修士１年)

This is Tahmid Hasan Rupam. I belong to the sixth batch of Green Asia Students in Kyushu University. I have completed my graduation from the Department of Electrical and Electronic Engineering (former Applied Physics, Electronics & Communication Engineering) at University of Dhaka with a CGPA of 3.81 in a scale of 4.00.

My primary research objective is in the field of Energy Engineering focusing on efficient use of produced energy as well as searching for other green sustainable energy sources. Being a Bangladeshi I grew up experiencing the scarcity of energy. As a result, I always had a thought of contributing in the energy sector of my country. So I conducted my undergraduate project work titled “Design and Construction of Microcontroller Based Smart Solar Charge Controller with Automatic Brightness Controlling of Solar Based LED Street Light”. The primary goal of the project was to reduce the pressure on grid energy by empowering the street lights using solar panels. Apart from this, it can also be used for the electrification of remote places using solar energy as the smart solar charge controller is cost effective and easy to implement. Now, as a Green Asia Student, I am doing my masters course in Energy and Environmental Engineering because of its significant role in society especially in developing nations, and across a variety of environmental technologies including thermally powered air conditioning cycles, next generation power generation technologies and material sciences. I am very much interested in the field of cooling systems since; it is a fast growing area with tremendous potential for research. It has an increasing number of applications in today's world. A big challenge in the cooling science today has been the development of miniaturized coolers for electronics cooling purposes, which can revolutionize the thermal management of electronics and opto-electronic systems, as well as in the small-scale integration of refrigeration equipment. Another big concern is the compressors responsible for high energy consumption in refrigerators and air conditioning systems. An initiative can be taken by introducing new adsorption science and technology between the interchanging gas-liquid phases of the refrigerant with a view to replacing the compressors in the systems so that the systems can operate efficiently with less power resulting in more cost effective systems. Now in Saha Laboratory, under the supervision of professor Bidyut Baran Saha, I am looking forward to having a contribution regarding the developments in the refrigeration and cooling systems.



■コース生(第５期生)自己紹介

Kim Sung Jin

総合理工学府
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一貫制博士２年(修士２年)

私は韓国からの留学生で九州大学に入学して勉強している学生であります。
私の研究内容は開水路乱流場において風応力と温度成層効果がどのように作用するかについて直接数値シミュレーション(Direct Numerical Simulation)を用いて解析することであります。この物理現象はガス交換速度を求める過程で大きな役割を果たしています。ガス交換速度を正確に見積もることができれば、今後の気候変動を予測するに大きな影響を与えることが期待されます。
また、グリーンアジア国際戦略コースでは、昨年インドネシア学会に参加しました。私にとっては今回が初めての国際学会であり緊張して、自分が伝えたいものはしっかり伝えられてはなかったと思いますが、今後の成長過程で大変役に立つ経験だと考えています。
今後、博士課程ではもっと環境に触れられた研究を目標に研究に励んでいきたいと思います。