

## **The Summer Experience**

Aroosa Ijaz

The physics lab at SSE is an ideal place for someone with the passion to decipher the mysteries of nature under the umbrella of the paradigm of natural sciences. Fortunately, I had had the opportunity to work under the experienced and knowledgeable guidance of the physics lab staff during my internship in summer 2010. I found all of them extremely friendly, dedicated in their passion, eager to help and erudite in their fields. There was no bias in the allotment of work on the basis of gender, I found to my delight. Every one did their own work and I found myself working with different machines which may have been thought to require strong male hands.





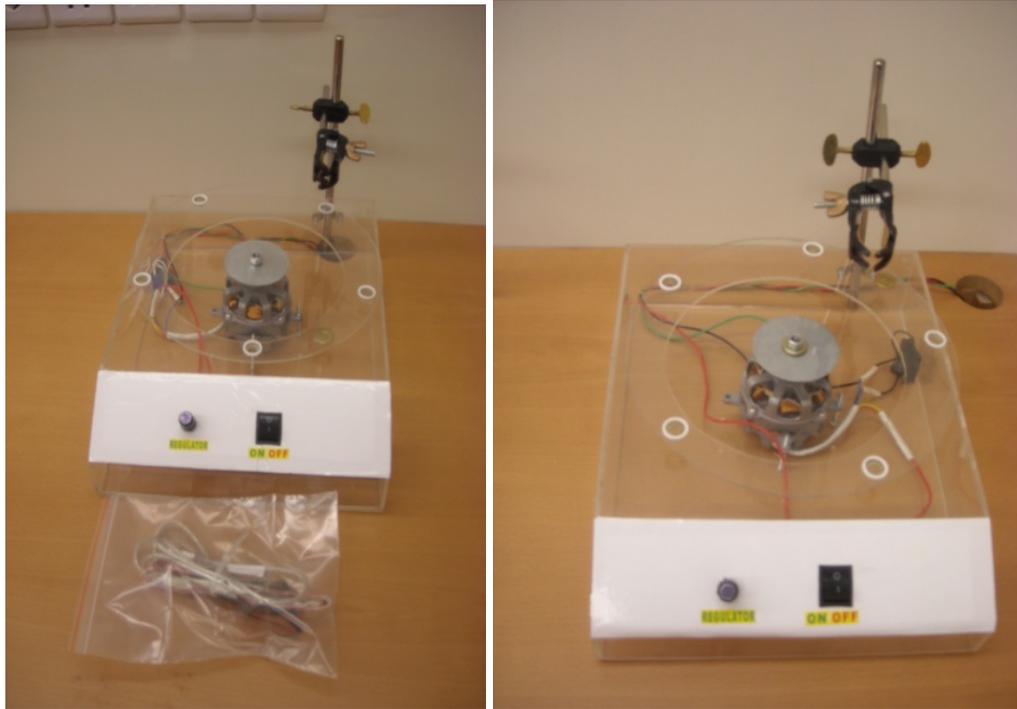
Before the use of any machine, I was supposed to go through its manual and even look at some videos which elaborated how to use them and explained the safety precautions. I worked with the conventional Lathe machine and even machines like Jigsaw and Band saw while working on my initial project; which was to replicate our lab's freshman year's electromagnetism experiment with any necessary improvements for the IST in Islamabad.



My understanding about the functioning of the equipment increased day by day as I set down to complete my project. My first day consisted of opening up the exhaust fan's motor to look at its inner coils and to understand how they worked. I always found guidance when I needed it from my exceptionally learned and accommodating supervisor, Sir Wasif Zia.



My work continued on into the hot June as I geared up the required components; made the Hall probes, the Teflon rings to contain the magnets on the rotating disc, the clamp stands, and the rotating discs and worked on the outer casing of the experiment. I even had the opportunity to go on a visit with the lab staff to the KM enterprises in Kot Lakhpat to learn about the functioning of the CNC Lathe machine. It was a very informative experience and we all gained first hand experience and knowledge about the tools and parts of Lathe and milling machines.



Every day had surprises for me in the form of revealing new things about physics to me; every day had new tasks for me to perform and hence new excitement. I want to thank the physics lab staff for providing me with the opportunity to learn from them and for all their time and effort. Thanks a lot.

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