

Traineeship Report at CSIRO Fiber & Textile Technology

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On June 19th 2006, I started my five months' traineeship at CSIRO Fiber & Textile Technology in Geelong with the funding of Australian Wool Innovation Limited (AWI). So I would like to express my appreciation to AWI for their economic support at the beginning of this report. Also my thanks will go to International Wool Textile Organization (IWTO) for their kind organizing this program.

My report has the following parts as: general impression, gained experience and finished tasks. I would like to explain them in detail.

General Impression

With the aim of learning advanced wool textile technology, I came to CSIRO Fiber & Textile Technology, the most famous textile research organization. The general impression is that CSIRO is a fantastic place to carry out science research and in turn change science and technology into industrial reality; it is a fantastic place to improve myself and exchange ideas with others; it is a fantastic place to meet some talented scientists and learn more about wool industry; it is a fantastic place where I can work and cooperate with other staffs to complete a very successful project.

Gained Experience

It is a very valuable experience in my life which is never forgettable. It is more than a simple studying experience. I learned how to arrange or carry out a project, which involved review, design, making schedule and thinking about budget. Because the project is from spinning to the finished woven and knitting fabric, I need to contact with staffs in different departments and take their opinions into consideration. This kind of cooperation is quite important in my future work. Here is the photo of the project team.



More importantly, I learned more about Australia wool industry which made me love what I did and what I will do. From this point of view, I would like to devote myself in development of wool industry even though it is not a smooth way to go. During my stay in CSIRO, I also read a lot of science paper in advance material and attend some seminar opened to students. It is a good opportunity to learn some new technology in this field and broaden my view.

With regards to culture, it is also a terrific exchange with staffs and Europe students who were taking their internship there. By talking with them, I knew about how people think about China and what aspects China should pay attention to. It is a quite happy time we spend together in some famous place in Australia. Of course, I made some good friends there and still kept in touch even after their leaving. I will cherish the friendship in my whole life.

Finished Tasks

I worked on a woolen project at CSIRO. By the time of my leaving, I successfully designed and modified woolen spinning frame which is adapted to spin woolen elastic core-spun yarn. The following photo shows the scheme of modified woolen spinning frame.



Properties of wool Lycra[®] woolen core-spun yarn were compared with different yarn parameters and in turn the optimal yarn parameter was obtained. With this kind of yarn, elastic knitting and woven fabric were designed and finished to meet the need of market. At last, I did some review work on bi-component fiber.

