

**21st Century COE of Flow Dynamics
F2005 International Internship Program
Achievement Report**

Date: 08.09.05

Name: Kataeva Elena

Academic year: 1

Department: Physical Department

Institutions: Moscow State University, Russia

Research topic in International Internship Program: electron transport of the amorphous carbon film containing Ti metal nanocomposites.

Accepting supervisor in Tohoku University: Professor Takagi

Period of Internship: 13 / 06 / 2005 ~ 10 / 09 / 2005

Day Month Year

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Date	Itinerary during your stay in Japan (places of visit, etc.)
09.07.05	One day trip to Matsushima
24.07.05	Visited Aoba Castle
30.07.05	Trip to Aizu-Wakamatsu
05.08.05	Fireworks
14.08.05	Visited Zuihoden
other	Research work

Outline the scientific activities you conducted while in Tohoku University (e.g. experiments, discussions, research trips)

- Samples preparation
- Electron transport properties measurements
- Theoretical modeling
- Work with literature

Give your impressions of the present state of science in Tohoku University in your field

- I got new experience of work with modern equipments
- I got good results
- I continue work in new sphere of physics of semiconductors

Give your future plan of submitting a paper

I will write paper devoted evolution of the electron transport in amorphous carbon films on the concentration of Ti nanocomposites.

Give 21st Century COE of Flow Dynamics your comments or suggestions particularly with regard to the internship program

- Interesting program, which allow get new possibilities for work and communication with foreigners laboratories.

General impression you had of Sendai and Japan during your stay

- Sendai is very safe city
- Very politely people