



# Sakura and SSSV exchange program



# Introduction

Shizuoka University has conducted JST-Sakura and SSSV program (Laboratory Exchange Program) of five days in graduate school of engineering sponsored by JST and organised by Shizuoka University with SRM University. This program inspired the students with new creative ideas and new fields in which professors of Shizuoka University are currently working and the students of Shizuoka University and SRM University presented about their research works.



Shizuoka University



SRM University

# Members of Sakura and SSSV exchange program

## SRM University

1. Prof. S. Ponnusamy
2. Sidharth Suman
3. Ashwin Agathya.B
4. Prakash Reddy
5. Vignesh A
6. Arun Ragavendar A
7. Sabarikrishvaran P
8. R.Balaguru
9. Prabhudesai Gaurang Pramod Harshada
10. Gurunisha.N
11. Manimozhi.T
12. Moon Paul
13. Vinusha Reddy K
14. Laxmi Depika Bharatula
15. Arun Ragavendar
16. Vignesh V

## Shizuoka University

1. Prof. Y. Hayakawa
2. Prof. H. Tatsuoka
3. Prof. H. Ikeda
4. Prof. M. Shimomura
5. Prof. A. Ogino
6. Prof. M. Hakamata
7. Prof. Y. Ryan
8. Prof. S. Miyasaun
9. Dr. M. Navaneethan
10. Dr. S. Harish

# Day 1



Students with Prof. Watanabe (Dean of doctor course) and Prof. Ponnusamy.

The Dean of doctoral course gave a brief introduction about various scholarship provided by the university and the government of Japan and various courses provided by the university and facilities available for the Asian students.

# Day 1 – Laboratory visit

The Professors of Research Institute of Electronics explained their research work and ongoing research in their laboratory and also explained the working and function of each instrument.

## 1. Prof. Tabe Lab (Time – 13:30 – 14:30)



Students with Prof. Tabe and Prof. Ponnusamy.

Prof. Tabe explains his research on atom devices and nanoscale PN junction diodes.

## 2. Prof. Hara Lab (Time – 13:30 – 14:30)



Students with Prof. Hara.

Prof. Hara explains the growth of thin films, and their related applications in light emission techniques.

### 3. Prof. Suzuki Lab (Time – 15:00 – 15:30)



Students with Prof. Suzuki, Prof. Wakiya, Prof. Sakamoto and Prof. Ponnusamy.

Prof. Suzuki explains the novel methods used in the development of ferroelectric thin films on the basis of chemical and process flow control at the utmost detail.

#### **Instrumentation Lab.**

Prof. Suzuki and Prof. Sakamoto explained various instruments that are used in nanomaterial and nano device characterisation, including a special type of XRD, SEM, STM, TEM and XPS instruments.

## Day-2

### Hamamatsu cave (09:45-12:00)



Students at Hamamatsu cave with Prof. Hayakawa and Prof. Ponnusamy.



Students at Suzuki museum with Prof. Hayakawa and Prof. Ponnusamy.

### Suzuki museum (14:30-16:00)

At the Suzuki exhibition they enjoyed the 3D show about the invention and how the cars are made in the company.

# Day 3 – Student symposium

The symposium started with an opening address of Prof. Hayakawa which was followed by a short address of Prof. S. Ponnusamy towards the lab exchange program. Professors from different fields in Research Institute of Electronics, Shizuoka University actively participated in the research symposium.

Following the opening addresses (split into two sessions,), students from both Shizuoka University and SRM University made presentations of their research projects mainly on material sciences, thermionics, solar cell etc.

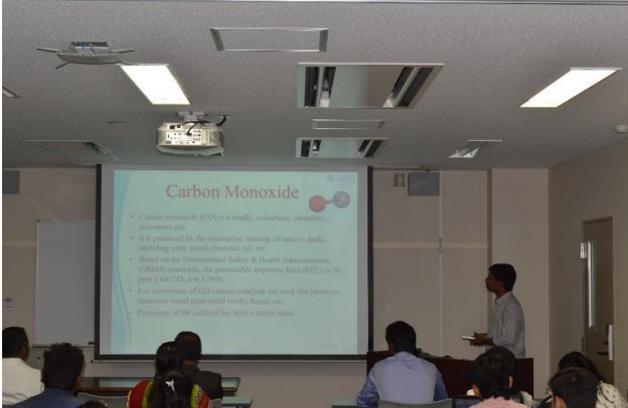


Prof. Hayakawa addresses at symposium.



Prof. S. Ponnusamy addresses at symposium.

# Some of the pictures during the symposium





Group photo outside the GSST office.

# Day 4 – Laboratory visit

## 1. Prof. Kundoh Lab (13:00-13:40)



Prof. Kundoh explains his research work

Prof. Kundoh explains the surface acoustic waves and their operation as a acoustic filter as used in mobile phones.

## 2. Prof. Inokawa Lab (14:00-14:30)



Prof. Inokawa explains his research work

Prof. Inokawa explains the use of novel MOSFET like devices as single photon detectors.

### 3. Prof. Meizeikis Lab



Prof. Meizeikis explains his research work

### 4. Glass blowing lab

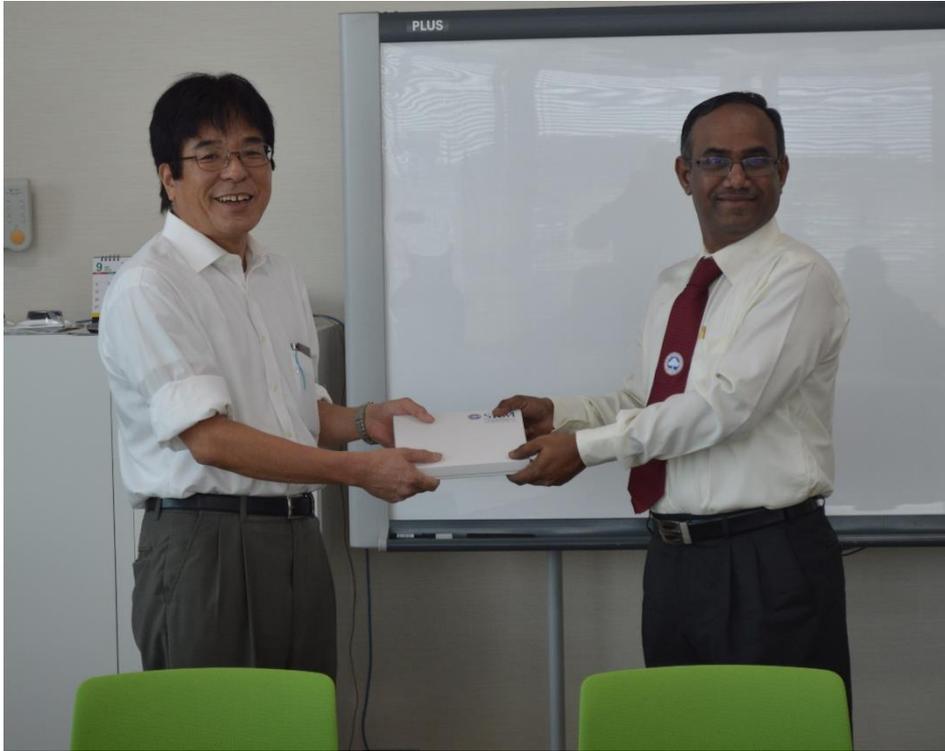


Demonstrated a glass blowing to students



Students with Prof. Hayakawa, Prof. Hakamata, Prof. Ryan and Prof. Ponnusamy.

International relation



Prof. Sako briefly explains all the programs under the faculty and the collaborations with other countries.

Prof. Sako (Dean of Engineering) and Prof. S. Ponnusamy.

## Day - 5



### **Musical instrumental –museum (Time 09:45-11:45)**

Students of SRM University visited the Hamanako musical box mesuem at Hamamatsu, where all the traditional instruments were displayed. The working of the musical box was explained.



### **Hamamatsu air base (Time 14:00-15:30)**

Students of SRM University visited air base and ancient air craft which have been used in world war II and enjoyed in taking pictures

# Summary

1. JST-Sakura and SSSV program conducted by Shizuoka University with SRM University had new ideas and scope in field of research.
2. Students visited research laboratories and got the opportunity to discuss about the advanced research work at Shizuoka University.
3. Student plan to pursue their higher education in Shizuoka University and to continue their collaboration.
4. The Japan culture is attractive and the students admired about the day to day life in Japan.
5. SRM University is willing to apply Sakura and SSSV for 2016 with Shizuoka University.

**Thank you**