

Professor Name: Dr. Hamamoto kiichi

Department: Interdisciplinary Graduate School of Engineering Sciences, Department of Applied Science for Electronics and Materials

Curriculum: A/B

Research Project

1. Optical Bio-sensing Device for Mobile Health Diagnosis (Joint research with company)

The research based on optical integrated device for breath sensing. In order to apply to the future Health Diagnosis Equipment, new plasma process technology is used.

2. Semiconductor Laser for High-speed Networks to the next generation (Joint research with company)

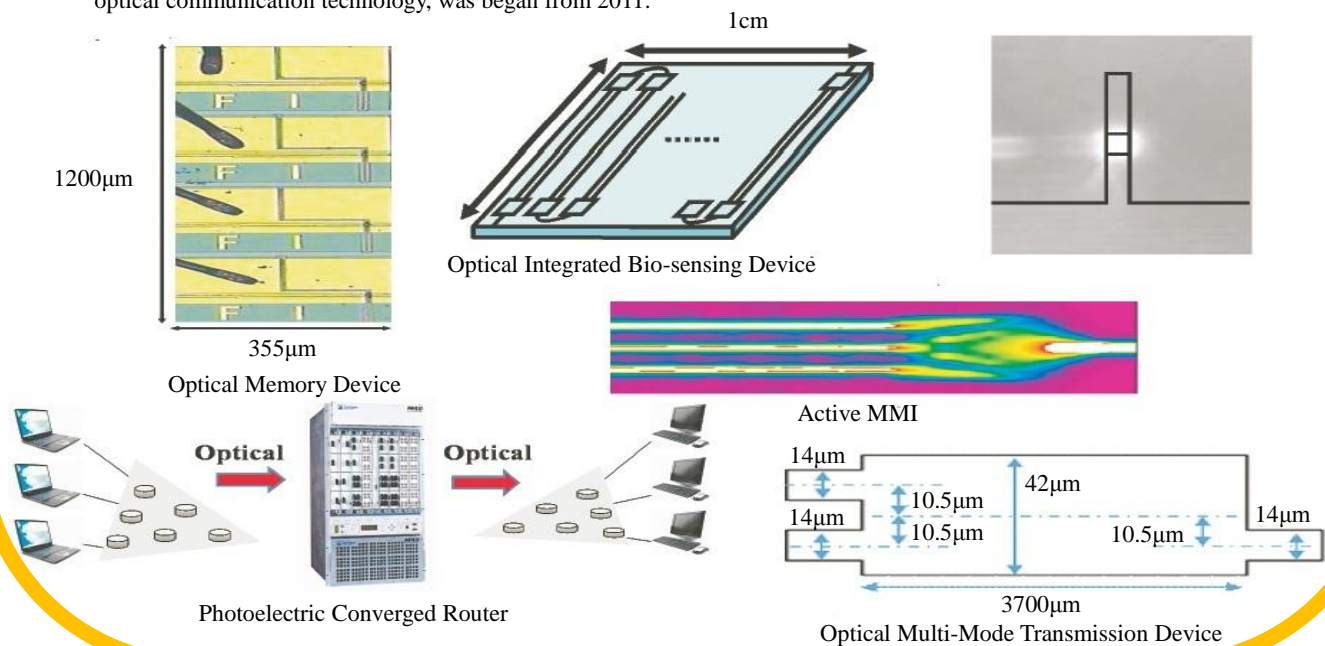
Using "Active MMI Phenomenon" which was been proved for the first time around the world, to do the research on the low-power-consumption high-speed semiconductor laser.

3. Optical Switch for High-speed and High-capacity Router (New national project)

The research about optical switch for high-speed and high-capacity router was began from 2011. The target is to remain the light and to freely change the connection, achieve the highest performance optical switch in the world.

4. Optical Device for High-capacity Communication (New national project)

The research about the multi-mode transmission system device and semiconductor laser which are applied in the high-capacity optical communication technology, was began from 2011.



- Not only working about the advanced research of the world, **human resource development which made a great contribution in society** is also our main work.
- The companies of internship: **Toshiba, NTT, Denso, ULVAC, NEC...**
- **Top-class research of the world** can be done. Also can take part in the international researcher exchange and international conference announcement.
Abroad study experience: **Danish Institute of Technology, Tsinghua University(China), University of Düsseldorf(Germany)**
- **4 Foreign researchers** acceptances are planned in 2012

☺we are waiting for your coming! ☺

[Keyword]: Optical Integrated Device, Semiconductor Laser, Optical Switch, Optical Device, Plasma Process, Optical Bio-sensing, Optical Communication, Photoelectric Converged Router, Multi-Mode Transmission

～Information of School Life～

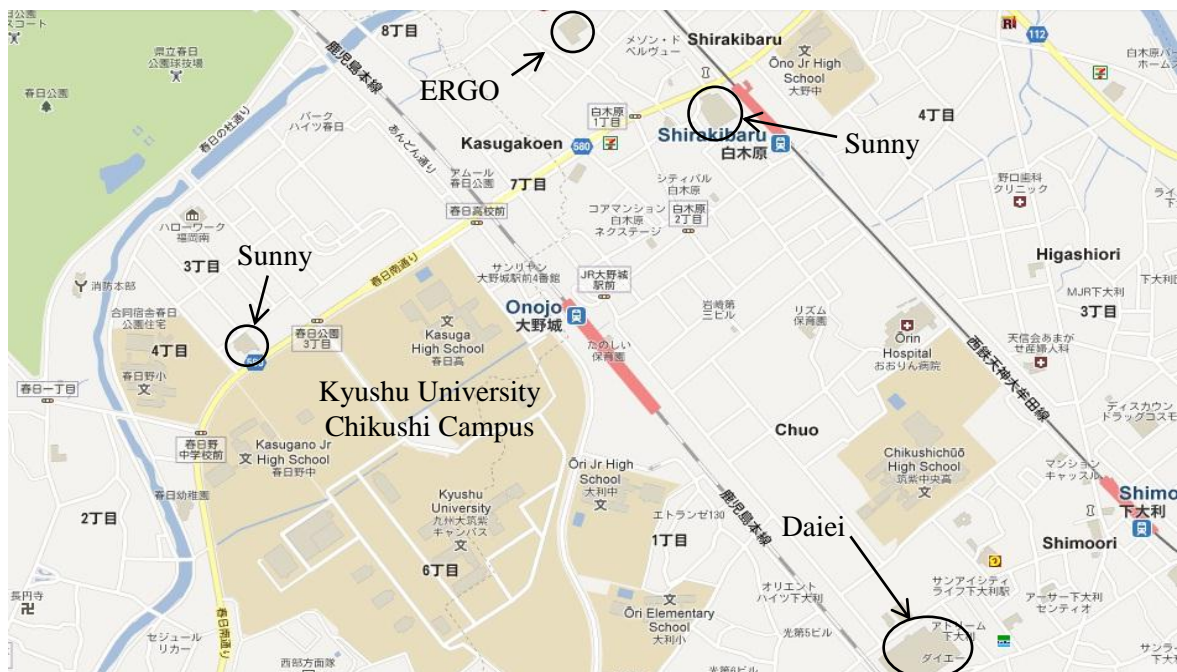
● Easy Access !

Access	From Chikushi Campus	From Ito Campus
Tenjin	20 min (280 Yen)	24 min (510 Yen)
Hakata	10 min (220 Yen)	30 min (510 Yen)
Commute method	Walking or Cycling	Moped or Bicycle

Chikushi Campus is both Convenience in time and monetary also useful monetary !

● Attractive Rent Price !

	Chikushi Campus	Ito Campus
Rent Market	33,000～38,000 Yen	39,000～45,000 Yen



【Access to the station】

- Onojo station : 5 min
- Shirakihara station : 10min

【Shops information around campus】

- Such as Sunny, Daiei
- Ramen ,Tavern
- Seven-Eleven, FamilyMart Convenience store

【Job Information of the seniors from Hamamoto Lab.】

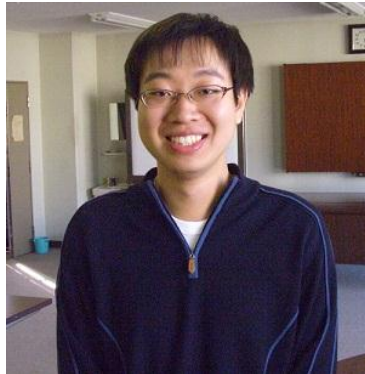
Sony, Panasonic, KDDI, TOTO, NEC, Fujikura, Mitsubishi Electric, Mitsubishi Heavy Industries, Murata, Roam, Stanley, Nikon, Olympus, Asahi Glass, Toyota, Denso, Honda, Daihatsu, Kyushu Electric Power, Chugoku Electric Power, Rakuten, Shizuoka University

As an aside...

Since the density of the students is small, a large number of recommendations can be got per person!

【Introduction of seniors and Teacher of Hamamoto Lab.】

• Introduction of seniors



Name	Chaen Yutaka	Hirohito Hokazono
Grade	DC1	MC2
Group	High-order Mode Device	Breath Sensing
Introduction	As the Leader to lead the next generation of Hamamoto Lab. Not only the point of view of the optical waveguide, but also have abundant knowledge on materials and physics.	Can deal with any simulation, device making, and experiment. a perfect and versatile senior. If you have any problem, just ask him!!

• Introduction of teacher



Prof. Hamamoto kiichi

Not only have the Academic perspective but also using the Company perspective to provide the research advice. Therefore, it is possible to do the research in a diverse perspective, such as cost and technical Issues. In addition, there is no doubt that it will be useful in the future work that receive various of advices , such as the richness of ideas and Presentation technique.

Introduction

【Introduction of event】

• Travel seminar in Kumamoto



• Home party at Hamamoto House

