



Report of our activities in KMUTT, Thailand

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Visiting: King Mongkut's University of Technology Thonburi

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Purpose

- To introduce our research in Chiba university to high school students
- To interact with Thai people
- To develop our English skills: speech and conversation

What's KMUTT

- Located in Bangkok, Thailand
- Founded in 1960
- 3 faculties and 2 schools
- Number of academic students is 17,913.

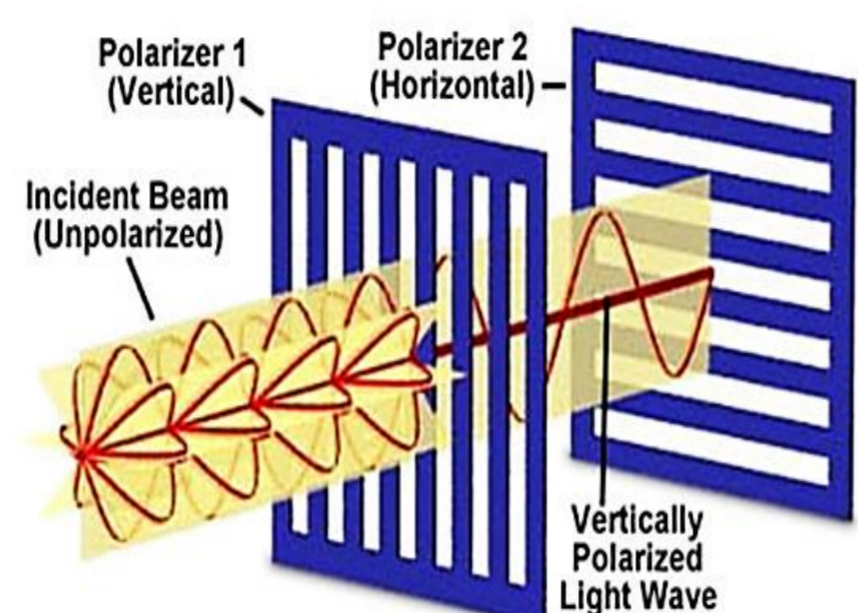
Contents of class : nature of light & optical communication

Nowadays, we often use optical communication in as internet and television.

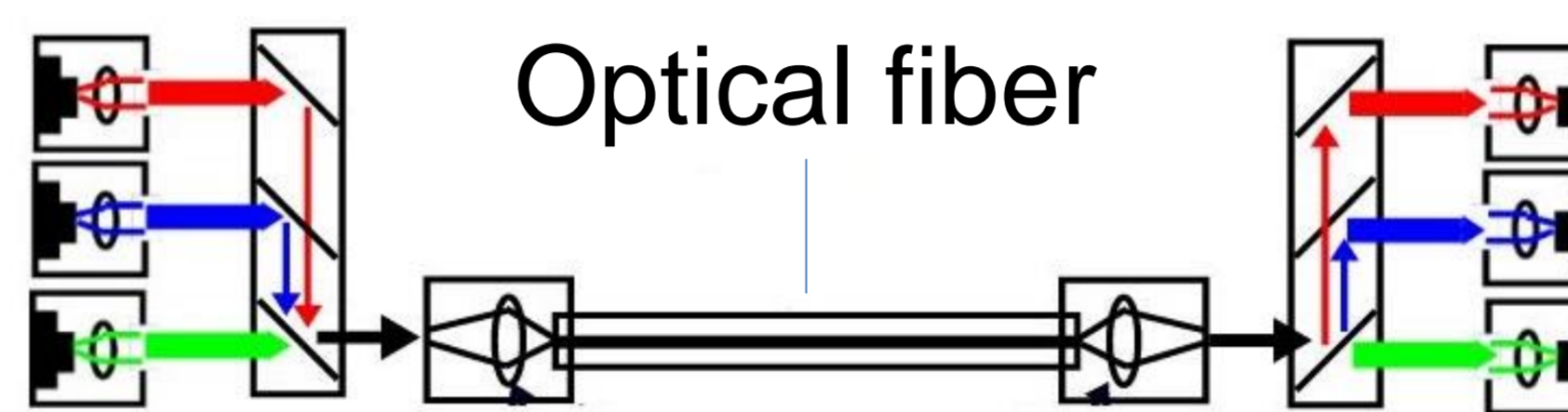
It's necessary for students to learn about optical communication in order to improve IT (society).

Contents

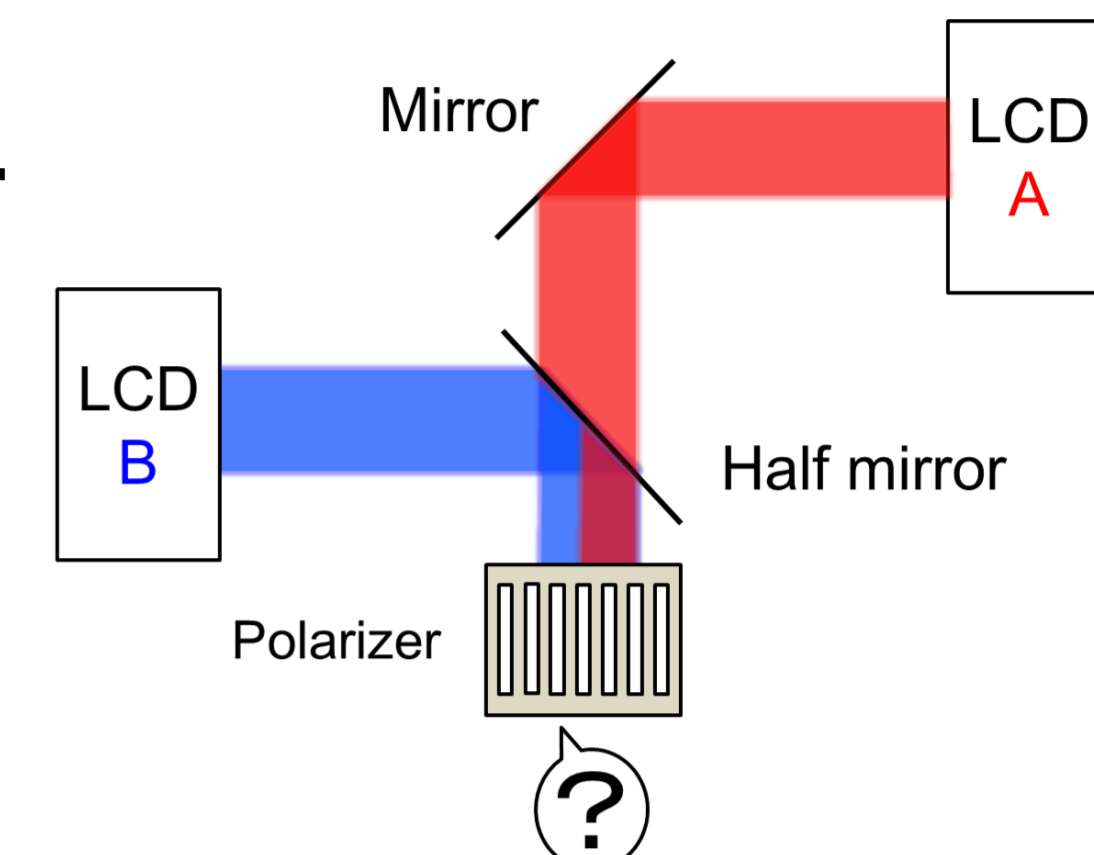
1. introduction
2. nature of light
3. polarization
4. optical communication
5. Oishi's research work



What is polarization



Optical multiplex communication



Experiment for future communication system

Class 1

- **Good point**
Many experiments
→ we got students interested & understood through experiment.
- **Bad point**
Difficult explanation: English, Technical term

Class 2

- **Improved points**
 - ✓ Spoke more slowly
 - ✓ Repeated terms again and again
 - ✓ Made more gestures
 - ✓ Took some technical terms away



What we learned through the classes

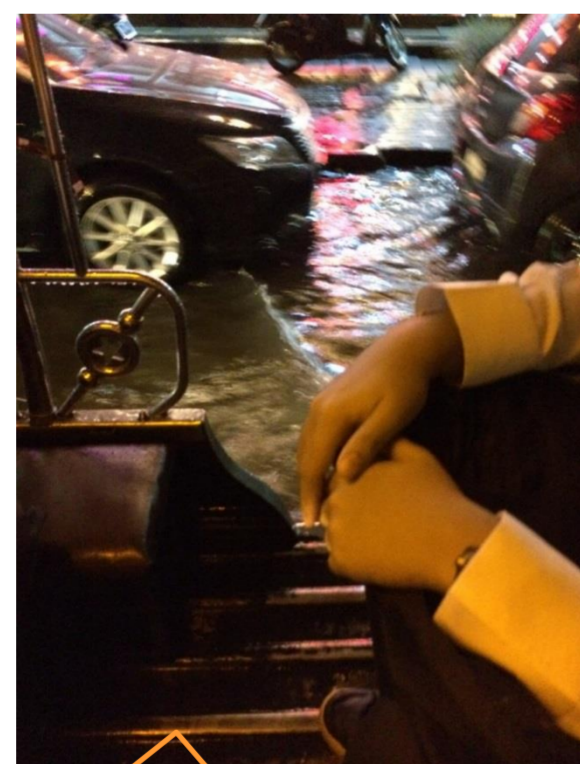
- ◆ Using technical terms is not always an appropriate way to explain concepts to ordinary people.
→ Technical terms can explain something only if people have enough background knowledge.
- ◆ Language is just a communication tool.
→ Our English skills can be supplemented in a variety of tools: gesture, eye contact and so on.
e.g. Jun introduced himself by dance. Then he could impress the students.
- ◆ Regardless of country, physics is essentially interesting.
→ It is possible to attract students by providing from interesting topic.



Cross-cultural communication

- We felt many climatic and cultural differences between Thailand and Japan e.g. high temperature, bath room...
- Thai buddies took us to many famous places. We got the impression that Thai people are kind and Bangkok is a lively place. We also want to be kind to foreigners who visit Japan from overseas.

Spicy and sour Thai food



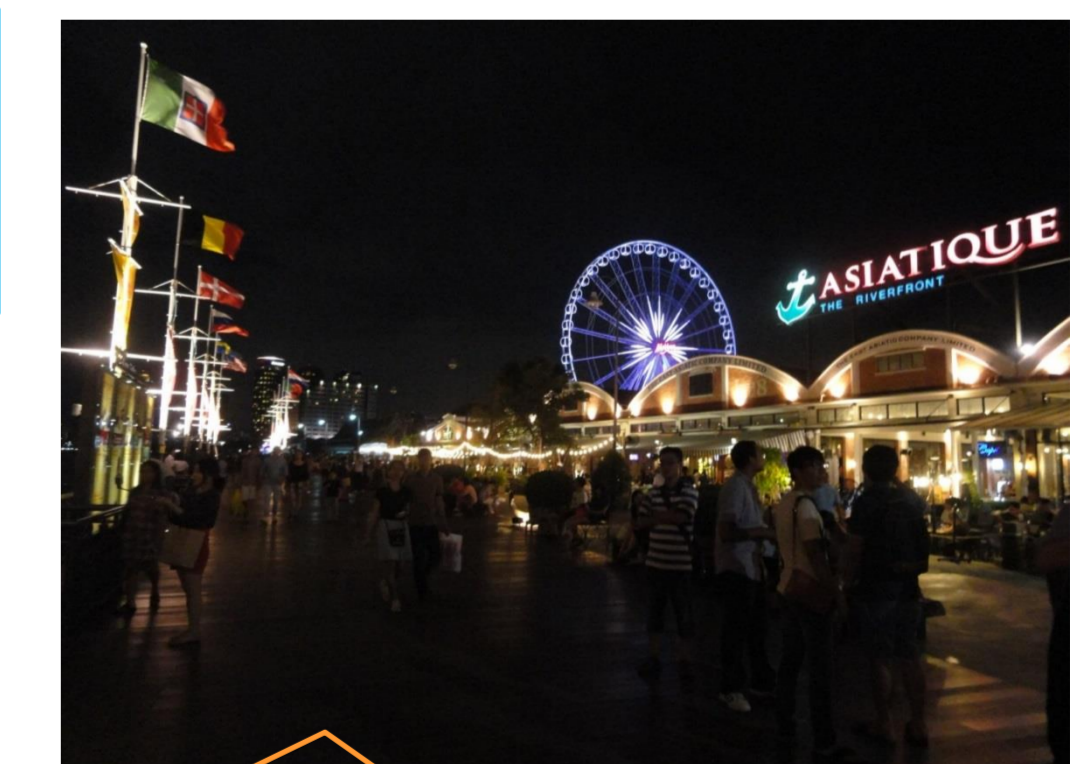
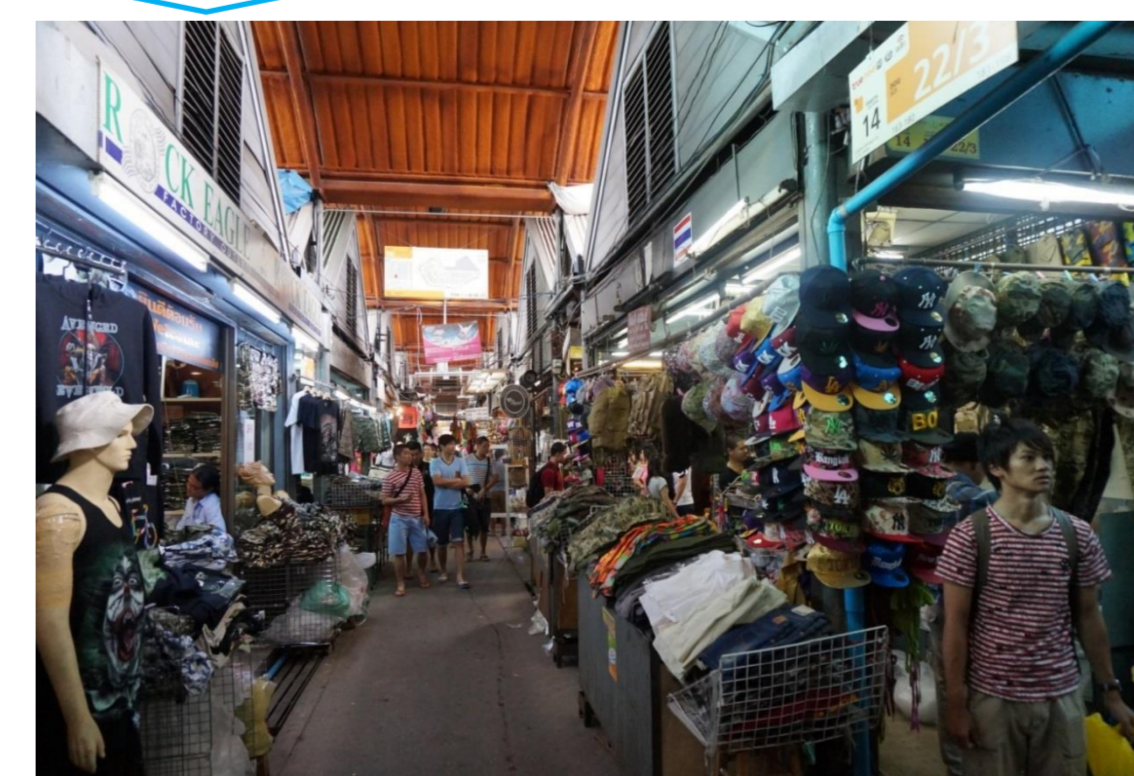
The heavy rain

Many great temples



The wide river as a means of transportation

The lively market with many kind of Thai style items



The beautiful night view.

- While we found the goodness of Thailand, we rediscovered the convenience of daily life in Japan and that is achieved by technology. We also realized the importance of science education for developing our lives.

Summary

- It was difficult to teach our research in English, but through some hands-on experiments, it seemed that we could make the students become interested in the nature of light.
- We were immersed in Thai daily life: Thai climate, foods, transportation and market.
- We enjoyed talking with Thai buddies and Thai people in English. We've got confidence to speak English.

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