

EE 492 Weekly Report 1

MAY15-29 Week 1&2 1/12/2015 - 1/25/2015

Advisors: Meng Lu

Members (roles): Wenbing Ma(Detection Part), Xuan Zhang (Detection Part, Webmaster) , Zhikai Cui (Leader, Detection Part), Chenyin Liu(Generation Part, Documentation), Jiangxiang Zhang (Generation Part)

Project Title: Ultrasonic detector using photonic crystals

Weekly Summary: Getting started with the new semester. We separate into two new groups now, which are detection part and generation part. For this semester, we plan to adjust the optical setup for the detection part again and then do some test.

Meeting notes:

1/14 & 1/21 Group Meeting with Advisor Dr. Lu Meng

Duration: 60min

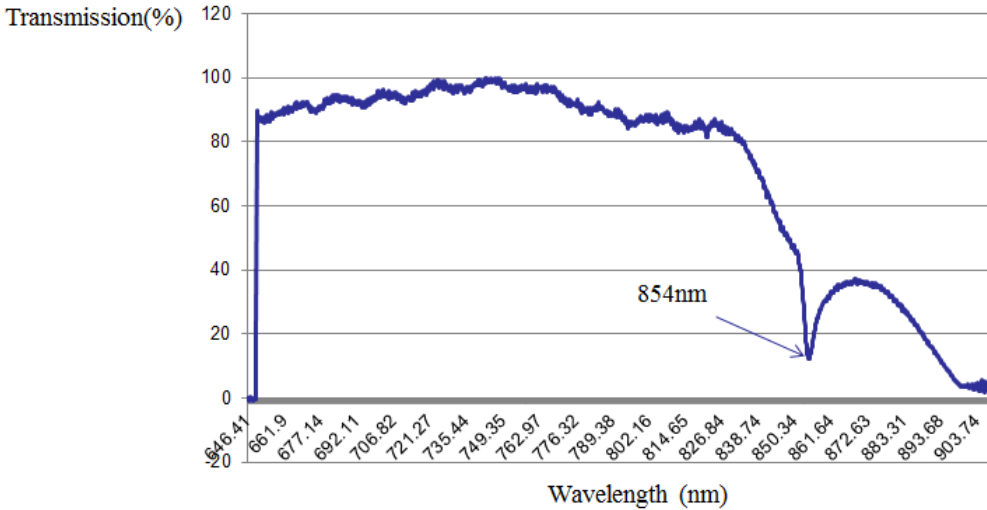
Members Present: All

Purpose and Goals:

Members in the first two weeks try to set up the lab equipment, and make schedule for the new semester. Members are assigned with different task in this semester. We made plan, and we summarize the process we have done in last semester.

Achievements:

1. Getting back to adjust the optical setup part.
2. We measure the transmission and reflection rate for the photonic crystal sensor.
3. Found the best wavelength for the best reflection rate.



Pending issues

1. Alignment for the setup still needs to be solved.
2. Beam splitter is not worked well.
3. Equipment for generation part has not ordered yet.
4. The water tank is not water proof, thus, members try to fix the water tank.

Plans for next week

1. Adjust the alignment for detection.
2. Researching on pulsed high frequency laser generator.

Individual Contributions (this two weeks)

- Wenbing Ma attended the meeting (1hr), measurement for transmission and reflection rate (5hr). Studying on resonant (4hr.)
- Jingxiang Zhang attended the meeting(1hr),
- Xuan Zhang attended the meeting.(1hr) , measurement for transmission and reflection rate (5hr). Studying on resonant (4hr.)
- Chenyin Liu attended the meeting.(1hr),
- Zhikai Cui attended the meeting.(1hr), measurement for transmission and reflection rate (5hr). Studying on resonant (4hr.)

Total contributions for the project

Wenbing Ma (10 hr)

Jingxiang Zhang (10hr)

Xuan Zhang (10hr)

Zhikai Cui (10hr)

Chenyin Liu (13hr)