

# Introduction

---

## Goals of STOC

- Learn recent research trends in Silicon Photonics
  - Understand the need for Silicon Photonics
  - Review the basics for Silicon Photonics building blocks
  - Study recent publications

# Introduction

---

- Teaching Staffs

- Lecturer: Prof. Woo-Young Choi (최우영)

- Room: B625, Tel: 2123-2874

- Email: wchoi@yonsei.ac.kr, tera.yonsei.ac.kr

- Class Hours

Mon. 2:00-2:50 pm at B701, Wed. 10:00-11:50 am

Lectures: Review of the basics

Student presentation and discussion on recent publications

- Prerequisite:

Basic knowledge of optoelectronics and/or strong interests in the topic

# Introduction

---

- Textbook:

*Silicon Photonics: the state of the art* Edited by Graham T. Reed  
Class Presentation Materials

- Major topics

- Waveguides (Chap. 2 and 7)
- Modulators (Chap. 4)
- Lasers (Chap. 5)
- Photodetectors (Chap. 6)

- Class web page: [tera.yonsei.ac.kr](http://tera.yonsei.ac.kr) (Click Classes)

- Grades

- Class Participation: 70 points
- Quiz: 30 points