

Lecture:

Optics and Photonics

(in the period 2019 November 18~ 22)

Speaker: **Yoshimasa Kawata**

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Overview:

Based on my expertise in the field of optics and photonics, this series of lectures on optics and photonics is updated to most modern progress and recent technologies available in Japan and around the world.

I plan to provide a unique perspective through my experience for more than 20 years in this mentioned field. Such insight may bring some added value to some students from different years (levels) also provide an important feedback to build future connections and to improve the mobility between UAIC and Shizuoka University, offering a good opportunity to extend the knowledge of the teaching staff on the research situation in both partner Universities.

The main topic of these lectures is on “Optics and Photonics.”

The contents are listed below:

1. Basic optics and photonics.
2. Principle of laser oscillation.
3. High resolution optical microscope.
4. Plasmonics.
5. Advanced research topics.

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