

## Let's Join International Video Exchange Live Lectures on Nano-Science between OU and UG !!

### INSD NanoScience Video Exchange Lectures 2022

The following international video exchange live lectures in English will be held between Osaka University (OU) and the University of Groningen (UG). A couple of one-hour lectures, one from OU and the other from UG, will be given four times. On UG side, there attend the students belonging to the Top Mater Course of NanoScience conducted by *Zernike Institute*, UG. On OU side, not only those Master and PhD students who are registered as the INSD\* nanoprogram students but also those who are interested in the lectures are welcome to join the class and discussion. Do not miss such a valuable opportunity! These lectures are regarded as “International Exchange Lectures on Nanoscience and Nanotechnology A” (credit: 1 unit). Please register your name in advance in order to receive the on-line website and lecture slides in advance.

\*INSD: *R<sup>3</sup> Institute for Newly-Emerging Science Design*, OU

**Exchange lectures:** every Friday from October 14<sup>th</sup> to November 18<sup>th</sup>, 2022 except on November 4<sup>th</sup>. On October 14<sup>th</sup> the introductory lecture is given only in Osaka, together with the video Nobel Prize lecture given by the 2016 Nobel Laureate, UG Prof. Benard L. Feringa.

**Time (JST):** 16:00-18:15 for October 14<sup>th</sup>, 21<sup>st</sup> and 28<sup>th</sup>, and  
17:00-19:15 for November 11<sup>th</sup> and 18<sup>th</sup> (because of winter time in Europe).

**Places:**

(Main: Toyonaka Campus) INSD Lecture Room 305, 3<sup>rd</sup> floor, Interdisciplinary Research Building, <http://www.osaka-u.ac.jp/en/access/toyonaka/toyonaka.html>

On 10/14 and 10/21, the place may change to INSD Meeting Room 304.

(Live on-line) URL of Webex Meeting System will be delivered upon registration.

	Date	time	Lecturers	Topics
0	10/14 (Friday)	16:00-18:15	Tadashi Itoh	Introduction, Photophysics of quantum dots, Video address by Prof. Benard L. Feringa
1	10/21 (Friday)	16:00-18:15	Yoshitada Morikawa, Jagoda Slawinska	Computational materials design for surfaces Spin-orbit-related phenomena for energy-efficient electronic devices
2	10/28 (Friday)	16:00-18:15	Yasufumi Fujiwara, Rifka Vlijm	LED with rare-earth-doped semiconductors Super-resolution light microscopy
3	11/11 (Friday)	17:00-19:15	Syoji Ito, Jan Anton Koster	Single-molecule fluorescence detection Organic semiconductors for thermoelectrics
4	11/18 (Friday)	17:00-19:15	Yasuhiro Nakazawa Loredana Protesescu	Molecular superconductors and their thermodynamics Functional inorganic nanomaterials

The lectures 1~4: Groningen-Osaka Joint Lectures. The abstracts of the lectures will be soon uploaded on the website: <http://www.insd.osaka-u.ac.jp/nano/>.

The program is also shared by University of Science-Malaysia, King Mongkut's Institute of Technology Ladkrabang-Thailand, and Institute of Materials Science and GUST, VAST-Vietnam.

**Grading Policy:** Attendance more than 60% among the five days and submission of short report every time, and a report about the summary of two topics out of the nine lectures. This lecture series is assigned as “**International Exchange Lectures on Nanoscience and Nanotechnology A**” (credit: 1 unit).

**Deadline and method of application:**

Deadline\* is Wednesday, October 12<sup>th</sup>. Send the following information either in Japanese or in English to the INSD program office.

E-mail address: nano-program@insd.osaka-u.ac.jp

\* On-site registration is also possible for those who attend the lecture No.0 or No.1 at Toyonaka Campus

Students: full name, affiliation (graduate school/school, department, D/M/B, school year, affiliated research laboratory), e-mail address, specify whether one takes nanoprogram or not, place of attendance (Toyonaka/on-line).

Other members: full name, affiliation (institution, affiliated research laboratory, position), e-mail address, place of attendance (Toyonaka/on-line).

\* If one cannot attend some classes during the series of lectures, please specify the date of absence in advance.