

# Osaka University Anniversary Lecture

Osaka University celebrated its 90th anniversary on 1 May 2021, while the 100th anniversary of the Osaka University of Foreign Studies, which was integrated with OU in 2007, was also in 2021.

As one of our celebration events, we held the Osaka University Anniversary Lecture Series, a special online lecture program offered to students at our partner universities. These lectures were delivered by OU professors in a wide variety of fields ranging from the natural sciences to the humanities.

This time we decided to share these special lectures with you asynchronously (on demand). You can select any 5 lectures or more you like by yourself from [the selective lectures from 4 to 29](#) below in addition to [three required lectures](#)! After you learn at least 8 lectures among 29 lectures, submit required assignment, and meet requirements, you can earn 1 credit.

## 《Special Lectures by Distinguished Professors》

### <Required lectures>

①



#### *Interactive robots and our future society*

Distinguished Prof. **Hiroshi ISHIGURO**

②



#### *A cyber world connecting the heart-to-heart created by brain information*

Distinguished Prof. **Toshio YANAGIDA**

③

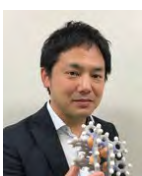


#### *Aiming for a sustainable society rooted in sympathy from the viewpoint of economic thoughts*

Distinguished Prof. **Takuo DOME**

### <Selective lectures>

④



#### *Molecular Catalysts for Artificial Photosynthesis*

Distinguished Prof. **Shigeyuki MASAOKA**

⑤



#### *Singularity created by fluorescent/bioluminescent protein technologies*

Distinguished Prof. **Takeharu NAGAI**

⑥



#### *Platform competition (introduction)*

プラットフォーム 競争 序論 (in Japanese)

Distinguished Prof. **Noriaki MATSUSHIMA**

7



## ***Nanometal Catalyst: A Modern Alchemy***

Prof. **Hidehiro SAKURAI**

8



## ***Bioplastics***

Prof. **Hiroshi UYAMA**



9



## ***Sugar and immunity***

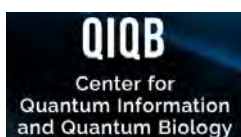
Prof. **Koichi FUKASE**

10



## ***Functions required for next-generation supramolecular materials and their development trends***

Prof. **Yoshinori TAKASHIMA**



11

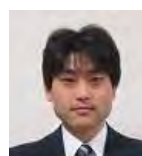


## ***Invitation to Quantum Information***

Prof. **Masahiro KITAGAWA**

## ***Quantum Sensing***

Prof. **Takashi MUKAIYAMA**



12



## ***Quantum Computing***

Prof. **Keisuke FUJII**

13



## ***Quantum Cryptography and Quantum Network***

Prof. **Takashi YAMAMOTO**

14



***Photoscience in nanoscience and nanoengineering***  
Specially Appointed Prof. **Tadashi ITOH**

15



***Visualization of chemical reaction process caused by solid nano-catalyst***  
Specially Appointed Prof. **Seiji TAKEDA**

16



***Sensors and actuators with micro/nano solid structure*** Guest  
Prof. **Masanori OKUYAMA**

17



***Crop development by genome editing***  
Prof. **Toshiya MURANAKA**

18



***Fermentation technology in Japan***  
Prof. **Kohsuke HONDA**

19



***Imaging mass-spectrometry***  
Associate Prof. **Shuichi SHIMMA**

20



***Public Health (tentative)***  
Prof. **Hiroyasu ISO**

21



***Diagnostic Pathology***  
Prof. **Eiichi MORII**

22



## **Introduction of OU UNESCO Chair in Global Health and Education**

Prof. **Beverley Anne YAMAMOTO**  
Assistant Prof. **Rie OGASAWARA**

23



## **AI Health Care and Stakeholder Involvement**

Prof. **Beverley Anne YAMAMOTO** Doctoral Stu. **Amelia KATIRAI**

24



## **Planetary Health and Ageing**

Associate Prof. **Mohacsi GERGELY**

Associate Prof. **Yumi KIMURA**



25



## **Platform competition (Law)**

プラットフォーム 競争(法規制) (in Japanese)  
Prof. **Kuninobu TAKEDA**

26



## **Intellectual Property Law**

知的財産法 (in Japanese)  
Prof. **Shigeki CHAEN**



27



## **Understanding Accelerated Decarbonisation of the Economy: Role of the SDGs**

Specially Appointed Prof. **Brendan BARRETT**  
University of Hawaii, Prof. **Makena COFFMAN**, OU, Specially Appointed Associate Prof. **Michinori UWASU**

28

## **Climate Science in the Context of the SDGs: What to expect in the next decade?**

Univ. College London, Prof. **Mark MASLIN**  
Univ. College London, Associate Prof. **Rokia RASLAN**, Asian Institute of Technology, Prof. **Shobhakar DHAKAL**

29

## **Net-Zero Carbon Energy Transition in the Context of SDG7: What can we achieve in the next years?**

Univ. of Groningen, Distinguished Prof. **Andre FAAIJ**  
Univ. of Groningen, Associate Prof. **Evrin URSAVAS**, OU, Associate Prof. **Yohei YAMAGUCHI**