



Osaka University Anniversary Lecture Series

Announcing a special lecture series to commemorate the 90th anniversary of Osaka University and 100th anniversary of Osaka University of Foreign Studies.

Program Outline

Day 1

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event

Day 2-4

Featured Lectures by OU Distinguished Professors*



Hiroshi ISHIGURO

Live*/ On demand

Professor, Graduate School of Engineering Science

Interactive robots and our future society (2021/5/10)

(Web Information) <https://eng.irl.sys.es.osaka-u.ac.jp/home>



Toshio YANAGIDA

On demand

Director, Center for Innovation and Neural Networks

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

(Web Information) <https://cinet.jp/english/director-of-cinet/>



Takuo DOME

On demand

Director, Social Solution Initiative

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

(Web Information) <https://www.ssi.osaka-u.ac.jp/en/>

Day 5-7

Eleven Thematic Lecture Streams (3 lectures per stream)*

Day 8

Student Discussion Session

*Lectures vary by course stream

Program	All lectures are offered online to undergraduate and graduate students at Osaka University partner universities. A transcript and certificate will be issued upon successful completion of the program. While most courses will be streamed real time, videos on demand will be available for viewing to account for time differences. Students may <u>only choose one</u> of 11 courses to complete.
Program period	The entire program will be delivered between May and July 2021. Each lecture is ninety minutes long.
Program fee	Free of charge. 1 credit.

Applications should be submitted to the exchange coordinator of your home university.



Course List

Common theme: Solutions to Societal Issues

No	Course Name	Course Affiliation	Language	Capacity	Course Term	Country/Region	Grading Policy
1	SDGs I : Chemical Approaches for Sustainable Development Goals (SDGs)	School of Engineering	English	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail
2	SDGs II : SDGs and Asia Pacific Region	Center for Global Initiatives	English	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail
3	SDGs III : Aligning the Sustainable Development Goals and Climate Science	Center for the Study of Co* Design	English	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail
4	Natural Sciences I : Material, Bio, and Synthetic Chemistry	School of Science	English	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail
5	Natural Sciences II : Quantum Information Science	School of Engineering Science	English	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail
6	Natural Sciences III : Science and Society in Nanoscience and Nanotechnology as Manufacturing Core	Institute for NanoScience Design	English	100	Spring-Summer (2021.05-2021.08)	ASEAN Only	Letter Grading
7	Natural Sciences IV : Advanced Biotechnology and Technology	International Center for Biotechnology	English	120	Spring-Summer (2021.05-2021.08)	Asia Only	Letter Grading
8	Humanities and Social Sciences I : UNESCO Chair in Global Health and Education	School of Human Sciences	English	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail
9	Humanities and Social Sciences II : Digital Transformation (DX) and Modern Society	School of Law	English/ * Japanese	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail
10	Humanities and Social Sciences III : Halal Science	Center for Global Initiatives	English	100	Spring-Summer (2021.05-2021.08)	ASEAN Only	Letter Grading
11	Medical and Life Sciences I : Medical Science	Faculty of Medicine	English	100	Spring-Summer (2021.05-2021.08)	All	Pass-Fail

Students may choose the top 3 of the eleven courses they wish to take, and will only be chosen for 1 of those courses. Students are not guaranteed to take their top choice.

*Course 9: JLPT N2 or equivalent required

Chemical Approaches for Sustainable Development Goals (SDGs)

Lectures by *World Leading Researchers*
of the School of *Engineering*



2021/5 Lecture (1) **On demand**

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20 **Live*/ On demand**

Interactive robots and our future society

Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3) **On demand**

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

Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4) **On demand**

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

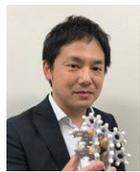
Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) **Live*/ On demand**

Nanometal Catalyst: A Modern Alchemy

Prof. **Hidehiro SAKURAI**



2021/6 Lecture (6) **Live*/ On demand**

Molecular Catalysts for Artificial Photosynthesis

Distinguished Prof. **Shigeyuki MASAOKA**



2021/6 Lecture (7) **Live*/ On demand**

Bioplastics

Prof. **Hiroshi UYAMA**



2021/6 Lecture (8) **Live*/ On demand**

Discussion

Prof. **Hidehiro SAKURAI**



School/Graduate School of Engineering,
Osaka University

(Web Information)

OU: osaka-u.ac.jp/en/

EN: eng.osaka-u.ac.jp/en/

*This lecture will also be streamed live.

SDGs and Asia Pacific Region

Lectures by **World Leading Researchers**
of the Center for **Global Initiatives**



2021/5 Lecture (1) **On demand**

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5 Lecture (2) 18:30-20:00 **Live*/ On demand**
Anthropocene: from poverty to climate change

Associate Prof. **Yoshinori SUMIMURA**



2021/5 Lecture (3) 18:30-20:00 **Live*/ On demand**
Appropriate technology: good health and clean water

Associate Prof. **Yoshinori SUMIMURA**, Associate Prof. **Yousuke SHIMAZONO**



2021/5 Lecture (4) **On demand**
Aiming for a sustainable society rooted in sympathy from the viewpoint of economic thoughts

Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) 18:30-20:00 **Live*/ On demand**
Multidisciplinary collaboration: sustainable cities and energy

Associate Prof. **Yoshinori SUMIMURA**



2021/6 Lecture (6) 18:30-20:00 **Live*/ On demand**
Regional partnership: food and bio-diversity

Associate Prof. **Yoshinori SUMIMURA** Specially Appointed Prof. **Masahiro TAWA**



2021/6 Lecture (7) 18:30-20:00 **Live*/ On demand**
Career and SDGs

Associate Prof. **Yoshinori SUMIMURA** Specially Appointed Prof. **Quamrul HASAN**

2021/6 Lecture (8) 18:30-20:00 **Live*/ On demand**

Discussion & Introduction w/int'l students



All Professors



(Web Information)

OU: osaka-u.ac.jp/en/

GI: ccc.osaka-u.ac.jp/cgin/en

*This lecture will also be streamed live.

Aligning the Sustainable Development Goals and Climate Science

Lectures by *World Leading Researchers*
of the Center for the Study of **Co* Design**



2021/5 Lecture (1)

On demand

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20

Live* / On demand

Interactive robots and our future society

Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3)

On demand

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

Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4)

On demand

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

Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) 18:30-20:00

Live* / On demand

Understanding Accelerated Decarbonisation of the Economy: Role of the SDGs

Specially Appointed Prof.

Brendan BARRETT

2021/6 Lecture (6) 18:30-20:00

Live* / On demand

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

Univ. College London Prof.

TBC

2021/6 Lecture (7) 18:30-20:00

Live* / On demand

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

Univ. of Groningen Prof.

TBC

2021/6 Lecture (8) 18:30-20:00

Live* / On demand

Group Discussions

Specially Appointed Prof.

Brendan BARRETT

Material, Bio, and Synthetic Chemistry

Lectures by **World Leading Researchers**
of the School of **Science**



2021/5 Lecture (1) **On demand**
Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20 **Live* / On demand**
Interactive robots and our future society
Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3) **On demand**
A cyber world connecting the heart-to-heart created by brain information
Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4) **On demand**
Aiming for a sustainable society rooted in sympathy from the viewpoint of economic thoughts
Distinguished Prof. **Takuo DOME**



2021/5 Lecture (5) 16:50-18:20 **Live* / On demand**
Functions required for next-generation supramolecular materials and their development trends Prof. **Yoshinori TAKASHIMA**



2021/5 Lecture (6) 16:50-18:20 **Live* / On demand**
Cutting Edge of Catalysis: Bond Activation
Prof. **Naoto CHATANI**



2021/6 Lecture (7) 16:50-18:20 **Live* / On demand**
Sugar and immunity
Prof. **Kouichi FUKASE**



2021/6 Lecture (8) 16:50-18:20 **Live* / On demand**
Discussion
Prof. **Takashi KUBO**



(Web Information)

OU: osaka-u.ac.jp/en/

SCI: sci.osaka-u.ac.jp/en/

*This lecture will also be streamed live.

Quantum Information Science

For more information

Lectures by **World Leading Researchers**
of the School of **Engineering Science**



2021/5 Lecture (1) **On demand**

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20 **Live* / On demand**

Interactive robots and our future society

Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3) **On demand**

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

Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4) **On demand**

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

Distinguished Prof. **Takuo DOME**



2021/6/22 Lecture (5) 16:50-18:20 **Live* / On demand**

Invitation to Quantum Information

Prof. **Masahiro KITAGAWA**



Quantum Sensing

Prof. **Takashi MUKAIYAMA**



2021/6/29 Lecture (6) 16:50-18:20 **Live* / On demand**

Quantum Computing

Prof. **Keisuke FUJII**



2021/7/6 Lecture (7) 16:50-18:20 **Live* / On demand**

Quantum Cryptography and Quantum Network

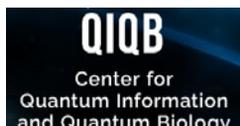
Prof. **Takashi YAMAMOTO**



2021/7/13 Lecture (8) 16:50-18:20 **Live* / On demand**

QIS-ES for SDGs Discussion

Assistant Prof. **Kosuke MITARAI**



(Web Information)

OU: osaka-u.ac.jp/en/

QIQB: qiqb.otri.osaka-u.ac.jp/en/

ES: es.osaka-u.ac.jp/en/

*This lecture will also be streamed live.

Science and Society in Nanoscience and Nanotechnology as Manufacturing Core

Lectures by *World Leading Researchers*
of the Institute for *NanoScience Design*



2021/5 Lecture (1) **On demand**
Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20 **Live*/ On demand**
Interactive robots and our future society
Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3) **On demand**
A cyber world connecting the heart-to-heart created by brain information
Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4) **On demand**
Aiming for a sustainable society rooted in sympathy from the viewpoint of economic thoughts
Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) 16:50-18:20 **Live*/ On demand**
Photoscience in nanoscience and nanoengineering
Specially Appointed Prof. **Tadashi ITOH**



2021/6 Lecture (6) 16:50-18:20 **Live*/ On demand**
Visualization of chemical reaction process caused by solid nano-catalyst
Specially Appointed Prof. **Seiji TAKEDA**



2021/6 Lecture (7) 16:50-18:20 **Live*/ On demand**
Sensors and actuators with micro/nano solid structure
Guest Prof. **Masanori OKUYAMA**



2021/7 Lecture (8) 16:50-18:20 **Live*/ On demand**
Student Discussion Prof. **ITOH, TAKEDA, OKUYAMA**



(Web Information)

OU: osaka-u.ac.jp/en/

Nano: insd.osaka-u.ac.jp/index_e.html

*This lecture will also be streamed live.

Advanced Biotechnology and Technology

Lectures by *World Leading Researchers*
of the International Center for *Biotechnology*



2021/5 Lecture (1) **On demand**

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5 Lecture (2) 18:30-20:00 **Live* / On demand**

Fermentation technology in Japan

Prof. **Kazuhito FUJIYAMA** Prof. **Kohsuke HONDA**



2021/5 Lecture (3) 18:30-20:00 **Live* / On demand**

Successful Research Outputs from Academia-Industry Partnership

Specially Appointed Prof. **Quamrul HASAN**



2021/5 Lecture (4) **On demand**

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

Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) 18:30-20:00 **Live* / On demand**

Crop development by genome editing

Prof. **Toshiya MURANAKA**



2021/6 Lecture (6) 18:30-20:00 **Live* / On demand**

Singularity created by fluorescent/bioluminescent protein technologies

Distinguished Prof. **Takeharu NAGAI**



2021/7 Lecture (7) 18:30-20:00 **Live* / On demand**

Imaging mass-spectrometry

Associate Prof. **Shuichi SHIMMA**



2021/7 Lecture (8) 18:30-20:00 **Live* / On demand**

Discussion on strategies for co-creation and co-operation of BIO-circular society

Prof. **FUJIYAMA** Prof. **HONDA**



(Web Information)

OU: osaka-u.ac.jp/en/

ICB: icb.osaka-u.ac.jp/index_e.html

*This lecture will also be streamed live.

UNESCO Chair in Global Health and Education

Lectures by *World Leading Researchers*
of the School of *Human Sciences*



2021/5 Lecture (1) **On demand**

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20 **Live*/ On demand**

Interactive robots and our future society

Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3) **On demand**

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

Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4) **On demand**

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

Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) **Live*/ On demand**

Introduction of OU UNESCO Chair in Global Health and Education

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



2021/6 Lecture (6) **Live*/ On demand**

AI Health Care and Stakeholder Involvement

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



2021/6 Lecture (7) **Live*/ On demand**

Planetary Health and Ageing

Associate Prof. **Mohacci GERGELY** Associate Prof. **Yumi KIMURA**



2021/6 Lecture (8) **Live*/ On demand**

Discussion

Prof. **Beverley Anne YAMAMOTO**



大阪大学 人間科学研究科/人間科学部
Graduate School of Human Sciences / School of Human Sciences Osaka University

(Web Information)

OU: osaka-u.ac.jp/en/

HUS: hus.osaka-u.ac.jp/en

*This lecture will also be streamed live.

Digital Transformation (DX) and Modern Society

Lectures by *World Leading Researchers*
of the School of *Law*



2021/5 Lecture (1) **On demand**

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20 **Live*/ On demand**

Interactive robots and our future society

Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3) **On demand**

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

Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4) **On demand**

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

Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) **Live*/ On demand**

Platform competition (introduction) プラットフォーム 競争(序論)

(in Japanese) Distinguished Prof. **Noriaki MATSUSHIMA**



2021/6 Lecture (6) **Live*/ On demand**

Platform competition (Law) プラットフォーム 競争(法規制)

(in Japanese) Prof. **Kuninobu TAKEDA**



2021/6 Lecture (7) **Live*/ On demand**

Intellectual Property Law 知的財産法

(in Japanese) Prof. **Shigeki CHAEN**



2021/6 Lecture (8) **Live*/ On demand**

Discussion 議論(in Japanese)

Prof. **Mari NAGATA**

***JLPT N2 or equivalent required**



(Web Information)

OU : osaka-u.ac.jp/en/

LAW: law.osaka-u.ac.jp/en/

*This lecture will also be streamed live.

Halal Science

Lectures by *World Leading Researchers*
of the Center for *Global Initiatives*



2021/5 Lecture (1) **On demand**
Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5 Lecture (2) 18:30-20:00 **Live* / On demand**
Halal Science and Technology
Specially Appointed Prof. **Quamrul HASAN**



2021/5 Lecture (3) 18:30-20:00 **Live* / On demand**
Application of science and technology to Halal
Specially Appointed Prof. **Eiichi TAMIYA**



2021/5 Lecture (4) **On demand**
Aiming for a sustainable society rooted in sympathy from the viewpoint of economic thoughts
Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) 18:30-20:00 **Live* / On demand**
Halal and Society
Associate Prof. **Yoshinori SUMIMURA**



2021/6 Lecture (6) 18:30-20:00 **Live* / On demand**
Halal industry
Specially Appointed Prof. **Quamrul HASAN**



2021/6 Lecture (7) 18:30-20:00 **Live* / On demand**
Halal and Career
Associate Prof. **Yoshinori SUMIMURA**, Specially Appointed Prof. **Quamrul HASAN**

2021/6 Lecture (8) 18:30-20:00 **Live* / On demand**



Discussion & Introduction w/int'l students

ALL Professors



(Web Information)

OU: osaka-u.ac.jp/en/

GI: ccc.osaka-u.ac.jp/cgin/en

*This lecture will also be streamed live.

Medical Science

Lectures by **World Leading Researchers**
of the Faculty of **Medicine**



2021/5 Lecture (1) **On demand**

Osaka University 90th and Osaka University of Foreign Studies 100th Anniversary Event



2021/5/10 Lecture (2) 16:50-18:20 **Live* / On demand**

Interactive robots and our future society

Distinguished Prof. **Hiroshi ISHIGURO**



2021/5 Lecture (3) **On demand**

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

Distinguished Prof. **Toshio YANAGIDA**



2021/5 Lecture (4) **On demand**

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

Distinguished Prof. **Takuo DOME**



2021/6 Lecture (5) **On demand**

Public Health (tentative)

Prof. **Hiroyasu ISO**



2021/6 Lecture (6) **On demand**

Immunology (tentative)

Distinguished Prof. **Atsushi KUMANOGOH**



2021/6 Lecture (7) **On demand**

Diagnostic Pathology

Prof. **Eiichi MORII**



2021/7 Lecture (8) **Live* / On demand**

Discussion

Prof. **Sachihiko KONDO**



Graduate School of Medicine
Faculty of Medicine, Osaka University

(Web Information)

OU: osaka-u.ac.jp/en/

MED: med.osaka-u.ac.jp/eng/

*This lecture will also be streamed live.