

# Welcome to University of Oxford and Waseda University International Workshop on Multiphase Flows: Analysis, Modelling and Numerics



**Hironori Kasahara, Ph.D., IEEE Fellow, IPSJ Fellow**  
**Senior Executive Vice President, Waseda University**  
**IEEE Computer Society President 2018**



**1980 BS, 82 MS, 85 Ph.D. , Dept. EE, Waseda Univ.**  
**1985 Visiting Scholar: U. of California, Berkeley,**  
**1986 Assistant Prof., 1988 Associate Prof., 1989-90**  
**Research Scholar: U. of Illinois, Urbana-Champaign,**  
**Center for Supercomputing R&D, 1997 Prof.,**  
**2004 Director, Advanced Multicore Research Institute,**  
**2017member: the Engineering Academy of Japan (2020**  
**Board Mem) and the Science Council of Japan**  
**2018 IEEE Computer Society President**  
**Nov. Senior Vice President, Waseda Univ.**

**AWARD: 1987 IFAC World Congress Young Author Prize**  
**1997 IPSJ Sakai Special Research Award,**  
**2005 STARC Academia-Industry Research Award,**  
**2008 LSI of the Year Second Prize,**  
**2008 Intel Asia Academic Forum Best Research Award,**  
**2010 IEEE CS Golden Core Member Award**  
**2014 Minister of Edu., Sci. & Tech. Research Prize**  
**2015 IPSJ Fellow, 2017 IEEE Fellow, Eta Kappa Nu**  
**2019 Spirit of IEEE Computer Society Award,**  
**2020 IPSJ Contribution Award**

**Reviewed Papers: 221, Invited Talks: 189,**  
**Granted Patents: 54 (Japan, US, GB, China),**  
**Articles in News Papers, Web News, TV etc.: 625**

**Committees in Societies and Government 263**  
**IEEE Computer Society: President 2018, Executive**  
**Committee(2017-2019), BoG(2009-14), Strategic**  
**Planning Committee Chair 2018, Multicore STC Chair**  
**(2012-), Japan Chair(2005-07),**  
**IPSJ Chair: HG for Magazine. & J. Edit, Sig. on ARC.**  
**【METI/NEDO】 Project Leaders: Multicore for**  
**Consumer Electronics, Advanced Parallelizing**  
**Compiler, Chair: Computer Strategy Committee**  
**【Cabinet Office】 CSTP Supercomputer Strategic ICT**  
**PT, Japan Prize Selection Committees, etc.**  
**【MEXT】 Info. Sci. & Tech. Committee,**  
**Supercomputers (Earth Simulator, HPCI Promo., Next**  
**Gen. Supercomputer K) Committees**  
**JST Moonshot Project G3 Robot & AI Vice Chair,**  
**【COCN】 Board Member in Council of**  
**Competitiveness Nippon, etc.**

# Oxford-Waseda in Mathematics ( Tuesday, 1<sup>st</sup> December )

## Opening Speech

18:20  
|  
19:00



**Chas Bountra**

Pro-Vice-Chancellor for  
Innovation  
University of Oxford



**Mike Giles**

Head of Mathematics  
University of Oxford



**Hironori Kasahara**

Senior Executive Vice  
President for Research  
Waseda University



**Yoshihiro Shibata**

Director  
Department of Mathematics  
Waseda University

19:10  
|  
20:00

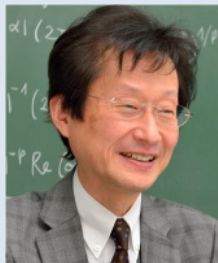


**Gregory Seregin**

Mathematical Institute, University of Oxford  
Department of Mathematical Institute of Russian Academy of Science

**“Local Regularity of Axisymmetric Solutions to the Navier-Stokes Equations”**

20:10  
|  
21:00



**Tohru Ozawa**

Department of Applied Physics, Waseda University

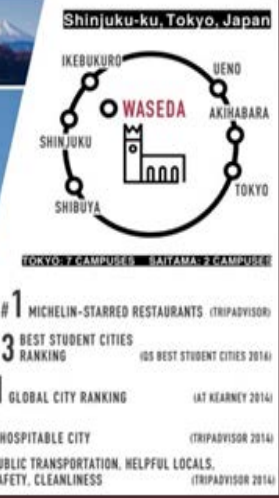
**“On the Poincaré and Related Inequalities”**

# 早稲田大学



# WASEDA University

## Tokyo - Attractive Location



## Tokyo, Japan



Microsoft: Dr. Bill Gates  
British Prime Minister: Boris Johnson



**1882** »  
Okuma Shigenobu founded Tokyo Sonno Gakko (College)

The founding and opening ceremony of Tokyo Gwanakoku College was held on October 21. At the ceremony, the Principal, Hideozumi Okuma, opened a hall on the territory of the school, Anan Ota delineated an address, and a declaration was made on the spirit of "Independence of Learning." The departments of political science, law, physical sciences, and English were established, and 60 students were admitted as the first batch of students.



The "Group of Four" who contributed to the development of Waseda University

The "Group of Four" refers to the four individuals who participated in the founding and management of Waseda University, and contributed to its development. Sumio Ishida served as the first Principal and third President of the institution, and passed his efforts into raising the institution to the peak of university as well as establishing the school of sciences and engineering. Junzaburo Aoyama was the Director of the School of Commerce when it was first opened, and was later the second Principal of the University. Shozo Inokuchi laid the foundation for the present-day Department of Literature. Keiichi Ishiguro worked hard to make the academic independence of the university, and also contributed to the expansion of the library.



**1903** »  
Start of the Waseda-Kate baseball match (Sokakomai)

Along with the Cambridge-Colonel Inoue match and the Harvard-Yale football match, the Waseda-Kate baseball match (Sokakomai) is regarded among the three major university sporting events in the world. A tradition that can be traced back to 1903, an appeal for in the baseball teams of the two universities leading to promote the honor of their alma maters, as well as on the grand scale of support offered from the stands.

**1922** »  
Visit by physicist Albert Einstein to Waseda University

On November 29, 1922, Professor Einstein visited Waseda University during his visit to Japan, and held a meeting with President Masamasa Shiozawa who had once studied at Berlin University. At the welcome ceremony held in the main courtyard, more than 10,000 students and faculty welcomed Professor and Mrs. Einstein with enthusiastic applause. When they left, they were sent off with a chorus of the university's anthem.

**1928** »  
Japan's first gold medalist

At the Amsterdam Olympics, Minoru Oda from Waseda University's track and field club became the first Japanese to win a gold medal for the triple jump. The same track and field team attended a sports meet for international students held in Pisa on their way back to Japan from the Olympics, opening the path to participation in the Olympics later on.

**1940** »  
"Viceroy for life" from diplomat Chikage Sugihara

In 1938, Chikage Sugihara served as the Director of the Faculty of Waseda University's Higher Normal School (the School of Education today). In 1940, Sugihara, who was then working at the Japanese Consulate in Lithuania, issued visas against orders from the Ministry of Foreign Affairs, thus saving about 6,000 Jews. His heroic deed is highly appreciated by the international community.

**1956** »  
The beginnings of the Ishibashi Cabinet, first alumnus of Waseda to become Prime Minister

In December 1956, Tomoo Ishibashi, former student of Waseda, was elected as President of the Liberal Democratic Party. In the nomination for the head of the government in both the upper and lower houses of the Diet held during the same month, Ishibashi defeated Masuoka Shunzo, Chairman of the Socialist Party and then Chairman of Waseda, to become the Prime Minister of Japan. Thus, he is the origin of our first Prime Minister from Waseda.

**1962** »  
Robert Kennedy attends student debate

In the midst of the protest against the Japan-U.S. Security Treaty in 1960, then U.S. Attorney General Robert Kennedy and his wife attended a student debate at the Chuoza Auditorium. The couple was touched by the just message of the university's anthem by groups that were both for and against the Treaty. They first visited Japan again, they remained in Japan for three days.



Archaeological excavation of the Maibara site

In 1985, an archaeological team from Waseda University became the first Japanese party to search an archaeological excavation overseas at an ancient Egyptian site. In 1974, the team became the first in the history of archaeological excavations in Egypt to discover the "National Museum" in Maibara. The team carried out a friendly exchange with Egypt's Ministry of Antiquities, and was established in Japan.



**1993** »  
Visit to Waseda University by then U.S. President Bill Clinton

In 1993, Bill Clinton, then President of the United States of America, visited Waseda University. Thereafter, the university continued to welcome visits by many distinguished guests from around the world, including Bill Clinton, former President of the People's Republic of China in 2008, and former UN Secretary-General Kofi Annan in 2010.

**2007** »  
125th founding anniversary—Toward the "second establishment" of the university

Waseda University has continued to move forward toward its three goals of tackling the challenge of innovative advanced research, resolving global issues, and raising the quality of education. At the anniversary held on October 21, 2007 to commemorate its 125th anniversary, 106th President Kazuhiko Shimizu delivered the "Second Century Declaration of Waseda."

**2012** »  
Formulation of Waseda Vision 150

Waseda Vision 150 was formulated in 2012 with a view to the 150th anniversary of the university's founding in 2030. Waseda University has drastically improved the quality of education and research, and will continue to contribute to the world as a cutting-edge university.

# WASEDA UNIVERSITY



Alibaba Mr. Jack Ma

# About WASEDA - 早稲田大学 -

Number of International Students

7,942\*

125\* countries and territories  
(Undergraduate and Graduate)

Alumni CEOs in Japan

10,606

8 Prime Ministers

Founder  
Shigenobu OKUMA



Graduate Employability

#1

In private university of Japan  
(#2 in Japan, #27 in the world)  
QS Graduate Employability Rankings 2019

ENROLLMENT  
[学生数]

49,436

ALUMNI  
[卒業生]

630,000

FACULTY  
[教員]

5,468



Masaru IBUKA



Tadashi YANAI



PARTNER INSTITUTIONS  
[協定大学・機関]

848 (93 countries)

NUMBER OF BOOKS  
[図書館蔵書]

5,800,000

GRADUATE STUDENTS  
[大学院生]

8,385

UNDERGRADUATE STUDENTS  
[学部生]

41,051



Hiroshi YAMAUCHI

Prime Ministers

- 8th Shigenobu Okuma
- 17th Shigenobu Okuma
- 55th Tanzan Ishibashi
- 74th Noboru Takeshita
- 76th Toshiki Kaifu
- 84th Keizo Obuchi
- 85th Yoshiro Mori
- 91st Yasuo Fukuda
- 95th Yoshihiko Noda

Business Leaders

Founders of global companies

- Sony
- Samsung
- Casio
- LOTTE

Business Leaders

CEOs of global companies

- ANA (All Nippon Airways)
- HONDA
- Nintendo
- UNIQLO
- Shiseido
- Nomura Securities Co., Ltd.
- Tokio Marine & Nichido Fire Insurance Co., Ltd.
- Olympus Corporation

Aiji TANAKA



President  
International Political  
Science Association (IPSA)  
President 2016

Hironori KASAHARA



Senior Executive Vice President  
IEEE Computer Society President  
2018. The first president from  
outside USA and Canada in 72  
years CS history. CS has 84,000  
members from 168 countries.

HEROZ  
JAPAN



mercari

Shintaro YAMADA



Toshio FUKUDA



The University Professor Waseda.  
Waseda Alumnus, Prof. Emeritus  
Nagoya Univ., Prof. Meijo Univ.  
IEEE President 2020. The first from  
Asia in 135 years history.  
IEEE has 420,000 members.



Haruki MURAKAMI



Hirokazu KOREEDA



Yuzuru HANYU



S. ARAKAWA

# Univ. of Oxford and Waseda Univ. Signed MoU in April 2020



DEPARTMENT OF  
**COMPUTER  
SCIENCE**



HOME ADMISSIONS RESEARCH **NEWS & EVENTS** ABOUT US ALUMNI OUR STUDENTS INNOVATION

HOME > NEWS & EVENTS > NEWS > UNIVERSITY OF OXFORD SIGNS MEMORANDUM OF UNDERSTANDING WITH WASEDA UNIVERSITY

## News

Latest News  
Inspired Research Newsletter  
Media Wall  
Blogs  
News Archive

## Events

## University of Oxford signs Memorandum of Understanding with Waseda University

Posted: 22nd April 2020

To support exchanges of graduate students and staff and to collaborate on research, a Memorandum of Understanding has been signed between the Departments of Computer Science, Mathematics, and Physics at Oxford and Waseda University in Tokyo. The new Memorandum of Understanding was established following the visit of **Professor Hironori Kasahara** (senior executive vice president of Waseda) in November to give a lecture on green computing; **Professor Jeremy Gibbons** (Computer Science) and **Professor Peter Braam** (Physics) made the return visit to Waseda in January to set up the memorandum. Waseda is one of the top private universities in Japan, with particular strengths in robotics and green computing, and this agreement will provide new opportunities for working together, particularly in machine learning and programming languages.

## Photos



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Topic  
トピック

オックスフォード大学と研究交流促進

## オックスフォード大学と大学間協定締結

2020年4月17日付で、早稲田大学とオックスフォード大学は大学間協定を締結しました。この協定により、早稲田大学とオックスフォード大学の“Computer Science”、“Mathematics”、“Physics”分野での研究・教育面の組織的な交流の活性化が実現します。



オックスフォード大学とは、かねてより幅広い分野での研究交流が行われていましたが、個々の教員同士の交流が点在している状態でした。この度、両大学に於いて更なる組織的な研究交流の促進を模索する中、研究交流に特化した大学間協定を締結する運びとなりました。今後は大学間協定の締結を土台として、よりスケールの大きい研究・教育面での交流が可能となります。相互に研究者や大学院生の交換を促進し、研究プロジェクトを推進することになります。



また、この3分野にとどまらず、多方面での研究交流へと幅を広げるべく協議していくことが合意されており、今後、さらなる2大学間の交流の発展を目指していきます。

## ヨーロッパにおける研究交流を加速

本学は2016年にヨーロッパにおける研究拠点として、ベルギーのブリュッセルにオフィスを開設しました。すでにヨーロッパの多くの大学との研究交流が進んでいますが、オックスフォード大学との大学間協定の締結によって、これまで本学が推進してきたヨーロッパにおける研究交流を、さらに加速させることが可能となります。

## Tags

Vision 150, 国際課, 教務部, 教育, 研究活動, 総長室

## Posted

Wed, 22 Apr 2020

ツイート

Like Share

メールで送信

# Oxford University, Nov.13, 2019, Prof. Kasahara made Invited Lecture

**Vice Chancellor Prof. Louise Richardson**

(Wol 2020での基調講演(予定))

Head of Astrophysics: Prof. Rob Fender

Dept. of Physics: Prof. Ian Shipsey

Astrophysics: Prof. H.Falche, et. al.

**Merton College**

**Warden: Prof. Irene Tracy**

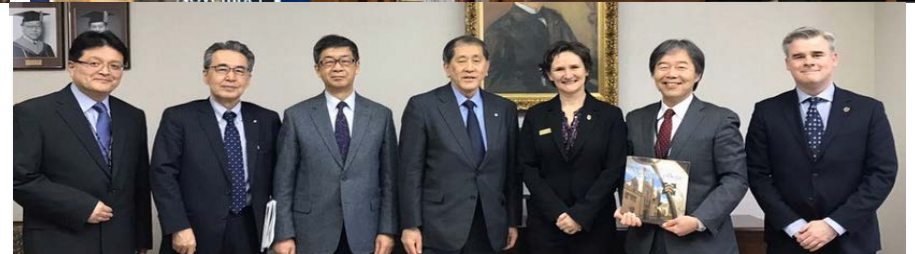
Fellow: Dr. Peter Braam

Sub Warden: Prof. Judy Armitage

CS: Prof. Jeremy Gibbons



U of Oxford Merton College Warden Prof. Irene Tracey and Development Director Dr Duncan Barker visited Waseda U. Thank you very much for fruitful discussion about interdisciplinary collaboration.



2020/1/23

# Waseda Open Innovation Ecosystem

## Waseda University

### Research revitalization

- Participation of graduate students for Collaboration :
  - Increase PhD students with monetary supports
  - Increase top journal & conference papers & patents solving difficult problems from social needs
  - Motivate Professors and Researchers with incentives: reward, reduced lecture hours, space

### Promote industry-academia cooperation

- **Support collaboration with industry**
  - Build teams for satisfying needs from Industry
- **One-stop support desk**
  - Introduce university seed technologies (PR)
  - Matching of succeeded and new Ventures
  - Meeting of Industry, Ventures, Researchers & students
- **Wol Forum on March 10 every year**

- Contract support with Industry: IP & Budget Estimation
- Student Agreement support (IPs and NDAs)

### Patent Support

- Help acquire Intellectual Property through-out patent filing and examining to minimize researchers' loads
- Help utilize intellectual property: Licensing
- Research ethics course support

### Venture startup and acceleration

- Introduce venture funds and teams including management, accounting, legal specialist
- University IP licensing by Cash, Stock, etc.
- Acceleration/Value-Up support: Customer matching etc.

## High added-value products and services

### Industry-Academia collaborative research

- Professors, graduate students, industry engineers, and researchers participate
- Solve difficult problems from social needs together
- **Create only one or best technologies**

Sophisticated personnel

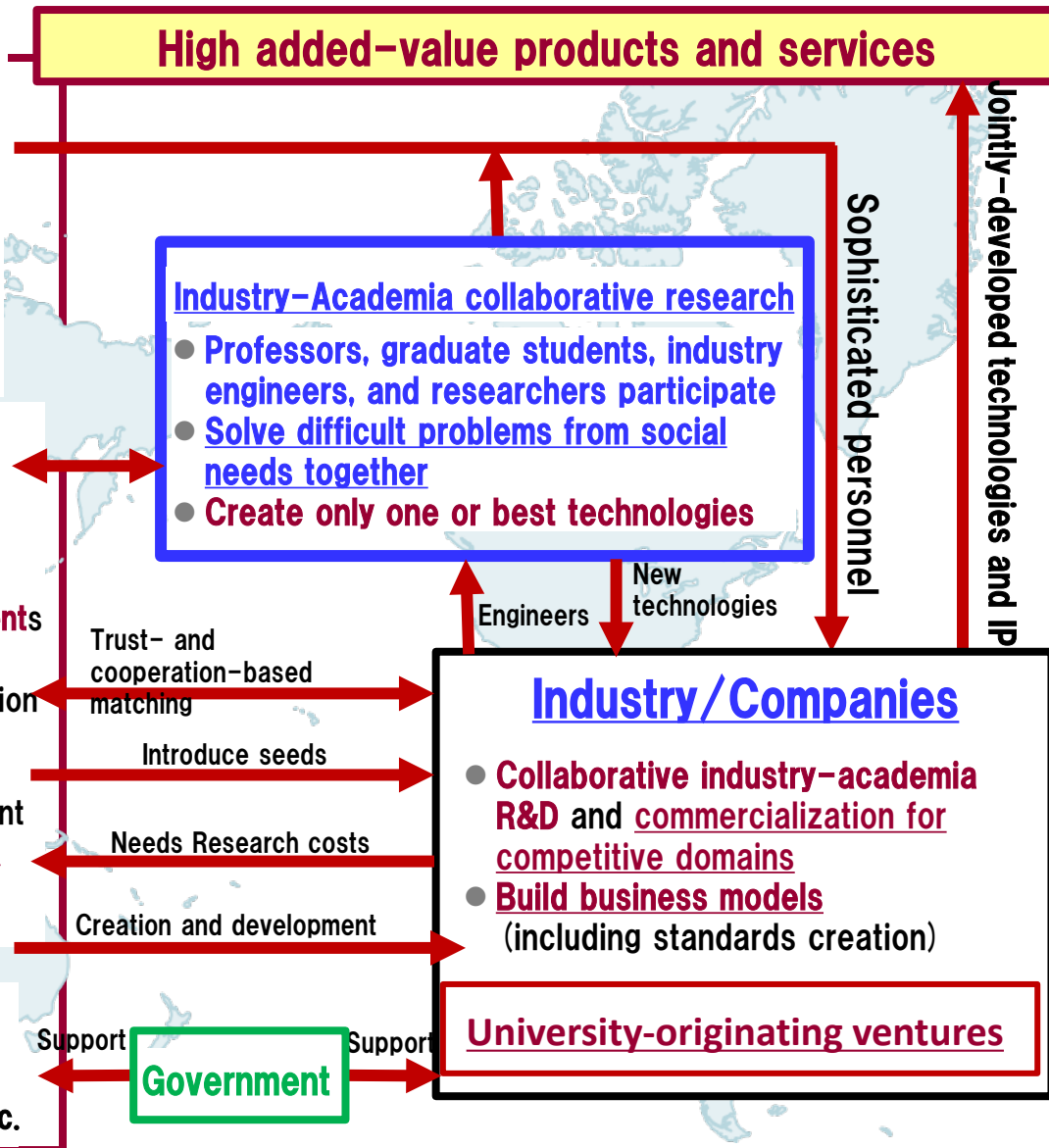
Jointly-developed technologies and IP

## Industry / Companies

- Collaborative industry-academia R&D and commercialization for competitive domains
- Build business models (including standards creation)

## University-originating ventures

## Government



# Waseda Research Innovation Center

## Supporting for Ventures, IP, Collaboration

Director  
Hironori Kasahara  
SEVP  
Waseda Univ



**Research Innovation Center** (June 2020~)  
Hub of Waseda Open Innovation Ecosystem

**Research Strategy Center**

Strategy for  
Open Innovation

**Waseda TLO**

IP Creation,  
Licensing, Contract

**Waseda Center for Entrepreneurship**

Venture  
Startup,  
Acceleration



**Open Innovation Research Project  
with Industry Supported by MEXT**

Energy

Environment

Recycle

ICT

City Design

Life

Automotive

etc.

Industry  
Collaboration





# Waseda Open Innovation Valley Project



➤ **Research Innovation Center to be completed in March 2020**  
➤ **Industry Academia Collaboration One Stop Desk, Research Support and Strategy, TLO, Contract Support, Venture Start-up Support**

**Waseda Main Campus**



**New Research Innovation Center (Open: April 2020)**

**March 10, 2021 in Waseda Arena**  
**Waseda Open Innovation Forum (Wol) 2021**  
(Matching among Leading Professors & Researchers, Industry, Ventures, Students)

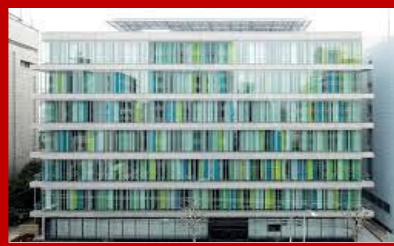


**Supported by MEXT Open Innovation Project**



**Waseda Arena with roof garden: Collaboration in Sport Science**

**Toyama Campus**



**Supported by METI**

**Green Computing Center for Industry Collaboration**

# ROAD TO SILICON VALLEY

Y Combinator  
MEETUP  
IN TOKYO

28.29.30 Sep  
18:00 - 20:00 SVJP

Japanese Technology in Demand around the World

Oct. 20 Tue - 22 Thu



Twitter 'Road to Silicon Valley'

## The Role of the University in the Innovation Ecosystem

This session will introduce startup incubation initiatives lead by Japanese universities and will draw upon Silicon Valley examples to explore ideal environments for university-initiated innovation. New insights on how entrepreneurs can leverage universities will be provided.



**Teruhide Sato**

BEENEXT

[Profile](#)



**Kat Mañalac**

Y Combinator

[Profile](#)



**Prof. Hironori Kasahara**

Waseda University

[Profile](#)



**Yoshihiro Kawahara**

The University of Tokyo

[Profile](#)



**Tetsuo Kitani**

Kyoto University

[Profile](#)



**Kazuo Tsubota**

Keio University

[Profile](#)



# 早稲田オープン・イノベーション・フォーラム2020

## Waseda Open Innovation Forum 2020

# WOI'20

**入場無料**  
要事前登録

2020年3月10日(火) 10:00~18:00(予定)  
※受付時間 9:30~  
早稲田アリーナ(早稲田大学戸山キャンパス内)



〒162-8644 新宿区戸山1-24-1 <https://waseda-oif.jp>  
主催:学校法人早稲田大学 後援:一般社団法人日本経済団体連合会



経済界、ベンチャー、研究者、学生との交流の場がここに!  
早稲田大学史上、最大の産学連携イベント!

**展示エリア 参加企業例(五十音順)** 企業・ベンチャー・早稲田大学研究者による100ブース以上の展示

**〈企業エリア〉 産学連携企業の展示ブース**  
ウエルインベストメント株式会社/株式会社SRA東北/株式会社mct/洋電気工業株式会社/株式会社オプトラン/システムズ合同会社/スタートアップソリューションズ/ソニービジネスソリューション株式会社/クハカタプレジジョン株式会社/廣芝(株式会社東芝・東芝エレベーター株式会社/日本電産株式会社)/Beyond Next Ventures株式会社/株式会社フィックスターズ/初田建設工業株式会社/株式会社みずほ銀行/三井不動産株式会社/株式会社青島会/楽天モバイル株式会社

**〈ベンチャー・企業エリア〉 早稲田発ベンチャー企業、学生ベンチャーの展示ブース**  
IDM/リビカ/株式会社amulipo/アルキテック株式会社/EA/LYS/株式会社Emotion Tech/オスカーテック/ロッテ-株式会社/サケテ株式会社/株式会社Genica/biBlome株式会社/株式会社VLEAP/Photogenic Station/株式会社LOOK FOR group

**〈早稲田大学研究者エリア〉 6つの分野から70を超える展示ブース**  
\*情報技術、AI、数値、物産\* 分野 \*電気、機械、ロボット、エネルギー、環境\* 分野 \*農林、化学、医療、生命科学\* 分野 \*防災、建築、都市計画\* 分野 \*人文科学、社会科学、学際、総合\* 分野

**メインステージプログラム** 世界最先端の国内外企業・政府・大学のリーダーたちによる講演やパネルディスカッション

【午前】	【午後】
<p><b>ご挨拶</b></p> <p>ご挨拶 早稲田大学 副 長 田中 豊彦 実行委員長挨拶 早稲田大学 副校長 笠沢 孝隆 ご挨拶 文部科学省 大臣官房審議官 (科学技術・学術政策局長室) 藤原 寿 氏 ご挨拶 東京 都 長 荒川 秀 氏 ご挨拶 経済産業省 大臣官房審議官 (産業政策局長室) 渡邊 貞治 氏</p> <p><b>招待講演・講演</b></p> <p>藤原 寿 氏 一般社団法人 日本経済団体連合会 副会長 藤田 健 氏 日本電産株式会社 取締役会長 IEEJ(国際電気工学連合) COO会長 Mr. Dave West President and General Manager, Cloo Japan O.K. 濱野 茂 早稲田大学 特許学院 教授</p>	<p><b>招待講演・講演</b></p> <p>中野 昭弘 早稲田大学 オープンイノベーション 実行委員長 林 聖弘 早稲田大学 理工学部長 教授 クレック アミン 氏 楽天モバイル株式会社 取締役兼CTO Mr. Tamas Arvai 東欧株式会社 兼 兼松伸博創設CEO Mr. Phil Wolman Chairman of KeiFusion Fellows Founder and General Partner of Sozo Ventures 松田 智一 早稲田大学 名誉教授</p> <p><b>パネルディスカッション (パネリスト)</b></p> <p>山田 豊太郎 氏 株式会社メルカリ 代表取締役CEO 村上 亨子 早稲田大学 理工学部長 教授 渡邊 紳彦 早稲田大学 特許学院 准教授 宮澤 博哉 IEEJ Computer Society 2019会長 早稲田大学 副校長 〈モデレーター〉 松田 智一 早稲田大学 名誉教授</p>

**サブステージプログラム**

・早稲田大学学生によるセッションなど

**協賛企業 (五十音順)**

**・フナナ** ウエルインベストメント株式会社/洋電気工業株式会社/システムズ合同会社/クハカタプレジジョン株式会社/廣芝(株式会社東芝・東芝エレベーター株式会社/日本電産株式会社)/Beyond Next Ventures株式会社/三井不動産株式会社/楽天モバイル株式会社

**・ゴールド** 初田建設工業株式会社

**・シルバー** 日本電産株式会社/株式会社フィックスターズ

**・ブロンズ** SMD日興証券株式会社/株式会社メリカリ

お問い合わせ 早稲田オープン・イノベーション・フォーラム2020(WOI'20)事務局  
(株)早稲田大学アカデミックソリューションズ E-Mail: woi-jimu@list.waseda.jp



# WOI'21

## WASEDA OPEN INNOVATION FORUM 2021

### Toward Realization of Waseda Open Innovation Ecosystem

- Industry-Academia Collaboration
- Venture Startup & Acceleration
- Development of Human Resource
- Understanding Social Needs
- Social Sciences, Humanities, Science & Engineering Cooperation
- Research Promotion (Including Patents Creation & Licensing)
- International Collaboration

2021.  
**3.9 - 10**  
tue - wed

9:00 ▶ 18:00 (JST) <https://waseda-oif21.jp/>

Organizer: Waseda University Support: Japan Business Federation



**ONLINE**

Free of charge:  
Pre-registration is required