

## 2018 CAMBRIDGE UK-JAPAN YOUNG SCIENTIST WORKSHOP

# PRESENTATIONS

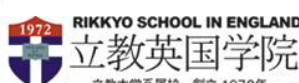
Friday 27<sup>th</sup> July, 2018  
The Kaetsu Centre, Cambridge

*This past week, students from schools in Britain and in Japan have been working together in small UK-Japan teams with a wide range of University of Cambridge scientists and engineers in explorations which have challenged them to work as teams and to think for themselves. We are also pleased to welcome again Professor Geraldine Thomas from Imperial College to lead the “Energy Generation–Risks and Benefits” project. In “toe-dipping” the world of cutting edge research and application, the students have not only put school knowledge to real life use, but also, by working together, have come to see themselves and their futures in a new global context and to form new international bonds of friendship. Today we learn something of their achievements. Time constraints mean that each team can only give the briefest account of all they accomplished together in just a few days.*

*The 2018 UK-Japan Young Scientist Workshop programme, which includes both this Workshop and a similar Workshop hosted at Tohoku University in Japan, has been supported by grants and charitable donations from Barclays Bank, The Great Britain Sasakawa Foundation, Mitsubishi Electric Europe, Toshiba Research Europe and The Japan Women’s Association in Great Britain, and in Japan by the Japan Science and Technology Agency. We particularly thank the scientists & engineers of the University of Cambridge and Imperial College for all they have done to make this Workshop such a success; and also thank the Rikkyo School in England and the Kaetsu Centre for their invaluable support and organisation.*



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# PROGRAMME

## 13.00 WELCOME

**Dr Eric Albone**

Clifton Scientific Trust

**Mr Shuichi Akamatsu**

Minister for Economy, Embassy of Japan

## 13.15 Hydrogel Platform for Loading and Release of Cargo

*University of Cambridge, Department of Chemistry; Prof Oren Scherman's group*

*Science Leaders Dr Marlous Kamp, Dr Shuntaro Amari*

*Facilitator: Ms Yukiko Fujii*

**Eddie Wilkinson**

County Upper School, Bury St Edmunds

**Haruka Nasu**

Kyoto Prefectural Rakuhoku Senior High School

**Lucy McKay**

Newham Collegiate Sixth Form Centre, East Ham

**Sara Moroki**

Kyoto Seibogakuin Senior High School

## 13.35 Bacterial Phenotypes in the Local Environment

*University of Cambridge, Department of Biochemistry and CRUK Cambridge Centre*

*Cellular & Molecular Biology Programme*

*Science Leaders Dr Rhys Grant, Dr Rita Monson, Dr Siolian Ball*

*Facilitator Mr Ga Kitada*

**Ben Kelly**

St Mary Redcliffe & Temple School, Bristol

**Samrah Saddiqi**

City of London School for Girls

**Nicole Tung**

Wycombe Abbey School

**Lian Yanagida**

Rikkyo School in England

**Ayaka Ujita**

Kyoto University ELCAS

**Kyohei Tsuji**

Kyoto University of Education attached SHS

## 13.55 Aerodynamics in Jet Engines

*The Whittle Laboratory. University of Cambridge Department of Engineering*

*Engineering Leaders Dr Sam Grimshaw, Dr Chris Clark, Ms Heather Jameson,*

*Mr Victor Sun, Mr Phoenix Tse*

*Facilitators Mr Ryo Mizuta, Mr Yuta Tsuchiya, Dr Emi Maruo*

**Angela Ng**

Wycombe Abbey School

**Daichi Horie**

Ritsumeikan Uji Senior High School

**Finn Devlin**

Thomas Hardy School, Dorchester

**Mahir Saciid**

Digitech Studio School, Bristol

**Nadia Vryoni-Dickson**

St Mary Redcliffe & Temple School, Bristol

**Reiko Hatta**

Ritsumeikan Moriyama Senior High School

**Reona Katayama**

Ritsumeikan Uji Senior High School

**Shahir Ali**

Newham Collegiate Sixth Form Centre, East Ham

**Taiki Murano**

Kyoto University ELCAS

**Tamami Hirai**

Kyoto University ELCAS

**Tharanjaraa Sivarupan**

City of London School for Girls

**Toshiki Nakamura**

Rikkyo School in England

## 14.25 REFRESHMENT BREAK

#### **14.55 Earth Science- Climate Signal in Coastal Clays**

*University of Cambridge Department of Earth Sciences*

*Science Leaders Mr Simon Crowhurst, Dr Maryline Vautravers*

*Facilitator Mr Adam Roberts-Taira*

<b>Fynn Cunningham</b>	County Upper School, Bury St Edmunds
<b>Mary Taylor</b>	Thomas Hardye School, Dorchester
<b>Muhsina Abdulhaq</b>	Newham Collegiate Sixth Form Centre, East Ham
<b>Yudai Kusano</b>	Rikkyo School in England
<b>Yuma Hishinuma</b>	Ritsumeikan Moriyama SHS
<b>Yuta Kangawa</b>	Kyoto University ELCAS

#### **15.15 Radiation All Around Us**

*University of Cambridge Department of Earth Sciences, Dr Ian Farnan's group*

*Science Leaders Mr Giles Rought Whitta and Mr Peter Thomas*

*Facilitator Mr Andrew Fox*

<b>Iori Sugimoto</b>	Kyoto University of Education attached SHS
<b>Jigyasa Madan</b>	Newham Collegiate Sixth Form Centre, East Ham
<b>Lewis Wild</b>	Digitech Studio School, Bristol
<b>Misuzu Hamada</b>	Kyoto University of Education attached SHS
<b>Oluwatosin Alatise</b>	City of London School for Girls
<b>Rie Takeuchi</b>	Ritsumeikan Moriyama Senior High School

#### **15.35 Energy – Risks and Benefits**

*Science Leader Prof Geraldine Thomas (Imperial College)*

*Facilitators Ms Anna Melkina, Mr Yuki Taira*

<b>Alex Shingleton</b>	County Upper School, Bury St Edmunds
<b>Ayaka Ogasawara</b>	Kyoto Prefectural Rokuhoku Senior High School
<b>Ben Dzieniszewski</b>	St Mary Redcliffe & Temple School, Bristol
<b>Kelly Cheng</b>	Wycombe Abbey School
<b>Mayuko Tagawa</b>	Ritsumeikan Moriyama Senior High School
<b>Moeka Oki</b>	Kyoto Prefectural Rakuhoku Senior High School
<b>Olivia Pearson</b>	Thomas Hardye School, Dorchester
<b>Yuka Horiguchi</b>	Kyoto University of Education attached SHS

#### **15.55 Science Communication- Workshop Podcast**

*Science Leaders Ms Izzie Clarke, Mr Adam Murphy (The Naked Scientist Team)*

*Facilitators Ms Sayaka Fujita, Ms Kimie Roberts-Taira*

<b>Frankie Roger</b>	St Mary Redcliffe & Temple School, Bristol
<b>Georgy Ivakhnenko</b>	Thomas Hardye School, Dorchester
<b>Kohsuke Yoshikawa</b>	Kyoto Prefectural Rakuhoku Senior High School
<b>More Hatanaka</b>	Kyoto Seibogakuin Senior High School
<b>Nagi Tateno</b>	Comberton Village College
<b>Rohan Dewan</b>	Digitech Studio School, Bristol
<b>Taichi Yoshida</b>	University of Nagoya School of Education Affiliated Junior & Senior High School
<b>Wataru Osada</b>	University of Nagoya School of Education Affiliated Junior & Senior High School

## 16.25 COMMENTARY

**Mr Brendan Griggs**, Chief Executive, Great Britain Sasakawa Foundation  
**Prof Alexander Boksenberg, FRS**, Emeritus Professor of Experimental Astronomy and formerly Director, Royal Greenwich Observatory

## CLOSING REMARKS

<b>Iori Sugimoto</b>	Kyoto University of Education attached SHS
<b>Mr Nobuaki Ujita</b>	Kyoto Seibogakuin Senior High School
<b>Samrah Siddiqi, Oluwatosin Alatise, Tharanjaa Sivarupan</b>	City of London School for Girls
<b>Mrs Mary-Grace Browning</b>	Clifton Scientific Trust
<b>Dr Eric Albone</b>	Clifton Scientific Trust

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## WORKSHOP DINNER

### 18.30 Coaches to Christ's College

Huntingdon Road outside the Kaetsu Centre

### 18.55 Reception Christ's College Fellows Garden for 19.35 Dinner in Hall

## WELCOME & GRACE

<b>Mr Ryo Mizuta</b>	Graduate Student, Christ's College & Cambridge University Faculty of Engineering
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## AFTER DINNER SPEECHES

<b>Dr Eric Albone,</b>	Clifton Scientific Trust
<b>Mr Kentaro Kiso</b>	President, Barclays Japan
<b>Sara Moroki &amp; More Hatanaka</b>	Kyoto Seibo Gakuin
<b>Mr Shigenobu Nakano</b>	Kyoto Prefectural Rakuohoku SHS
<b>Eddie Wilkinson</b>	County Upper School, Bury St Edmunds
<b>&amp; Olivia Pearson</b>	Thomas Hardy School, Dorchester
<b>Mr Patrick Youmans</b>	St Mary Redcliffe and Temple School, Bristol

**CERTIFICATES presented by Professor Geraldine Thomas**  
Imperial College