

2019 CAMBRIDGE UK-JAPAN YOUNG SCIENTIST WORKSHOP

PRESENTATIONS

Friday 26th July, 2019
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 a team and to think for themselves. We welcome again Professor Wade Allison, Emeritus Professor of Physics, University of Oxford who led the “Energy Generation and Environmental Radiation” 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 by working together, have come to see themselves and their futures in a new global context and have formed 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 short days.

The 2019 UK-Japan Young Scientist Workshop programme, which includes both this Workshop and a similar Workshop to be hosted in Kyoto University immediately afterwards, 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, as well by donations from private individuals, and in Japan also by the Japan Science and Technology Agency. We thank the Royal Institution of Great Britain for support in kind and the scientists & engineers of the University of Cambridge for all they have done to make this Workshop such a success. We also thank the Rikkyo School in England and the Kaetsu Centre for their invaluable support and organisation.



TOSHIBA
Leading Innovation >>>



KAETSU CENTRE



RIKKYO SCHOOL IN ENGLAND
立教英国学院
— 立教大学系属校 創立 1972年 —



The Royal Institution
Science Lives Here

PROGRAMME

13.00 WELCOME

Dr Eric Albone

Clifton Scientific Trust

13.15 Supramolecular Hydrogels for Drug Delivery

University of Cambridge Department of Chemistry; Prof Oren Scherman's Group

Science Leaders; Dr Vijay Rana, Dr Shintaro Kawano, Ms Beini Zhan,

Ms Wiebke Schnettger. **Facilitator;** Mr Munetomo Takahashi

Archie Harris

County Upper School, Bury St Edmunds

Ethan Clark

Thomas Hardye School Dorchester

Keito Kanagawa

Tohoku University "Tamago" Programme

Nao Sodai

Rikkyo Ikebukuro High School

Nazeer Zameer

Newham Collegiate 6th Form Centre, East Ham

Yudai Nakamura

Rikkyo School in England

13.35 Bacterial Phenotypes in the Local Environment

University of Cambridge Department of Biochemistry/CRUK Cambridge Centre

Cellular and Molecular Biology Programme

Science Leaders; Dr Rhys Grant, Dr Siolian Ball, Mr Rory Triniman, Ms Amy Hill

Facilitator; Dr Emily Fox

Hannah Conway

St Benedict's School, Bury St Edmunds

Joshua Bailey

Fulford School, York

Kanami Muraki

Kamaishi High School

Mio Yoshioka

Rikkyo School in England

Shotaro Mino

Furukawa Reimei High School

13.55 Aerodynamics in Jet Engines

The Whittle Laboratory. University of Cambridge Department of Engineering

Engineering Leaders; Dr Sam Grimshaw, Dr Chris Clark, Mr Victor Sun,

Mr Phoenix Tse, Mr Lachlan Jardine, Mr Will Ager

Facilitators; Mr Ryo Mizuta, Ms Jenny Jobling, Mr Taka Shirasu

Daisuke Takano

Fukushima High School

Damien Mason

Thomas Hardye School Dorchester

Fujito Odashima

Kamaishi High School

George Oswick

Hinchley Wood School, Esher

Ishaaq Mohammed

Newham Collegiate 6th Form Centre, East Ham

Logan Pyle

County Upper School, Bury St Edmunds

Mana Takahashi

Soma High School

Naoki Sonobe

Iwaki High School

Takaaki Yamaguchi

Rikkyo Ikebukuro High School

Thomas Bidewell

St Benedict's School, Bury St Edmunds

Yutaro Takanaka

Rikkyo School in England

14.25 REFRESHMENT BREAK

14.55 Cretaceous Cambridge; Investigating Climate Change from a 120 million year old clay sequence and its relevance today.

University of Cambridge Department of Earth Sciences Godwin Laboratory, with special thanks to the Sedgwick Museum, Collections Manager, Dr Dan Pemberton, and Museum Director, Dr Liz Hide

Science Leaders; Mr Simon Crowhurst, Dr Maryline Vautravers, Dr Simon Kelly

Facilitators; Mr Max Clark, Mr Yuta Tsuchiya

Amy Bishop	Hinchley Wood School, Esher
Jon Starkey	Thomas Hardye School Dorchester
Mohammed Kamran Afzul Mirza	Newham Collegiate 6 th Form Centre
Kouta Miyakoshi	Iwaki High School
Reon Imakawa	Furukawa Reimei High School
Suzuna Ogata	Fukushima High School

15.15 Radiation All Around Us

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

Science Leader; Mr Giles Rought Whitta

Facilitators; Mrs Yoko Leedham, Ms Marino Sakuda

Bimakaisei Numashita	Furukawa Reimei High School
Hirari Nakamura	Fukushima High School
Natsuki Ueno	Kamaishi High School
Nisan Kotik	Hinchley Wood School, Esher
Shahnawaz Chaudhry	School 21, West Ham
Wilfrid Harvey	County Upper School, Bury St Edmunds

15.35 Energy Production and Environmental Radiation

Science Leader; Prof Wade Allison, Emeritus Professor of Physics, Oxford University

Facilitators; Mr Yasuo Adam Roberts-Taira; Ms Roberta Ignirri

Chika Yoshida	Kamaishi High School
Eisei Ito	Fukushima High School
Haruku Kanazawa	Tohoku University "Tamago" Programme
Kanato Sasakawa	Rikkyo Ikebukuro High School
Mimi Avworo	President Kennedy School, Coventry
Naveed Ishtiaque	Newham Collegiate 6 th Form Centre, East Ham
Umar Malik	School 21, West Ham
Yukina Yokota	Furukawa Reimei High School

15.55 Science Communication- Creating a Workshop Podcast

Science Leaders; Mr Adam Murphy, Ms Heather Jameson (Naked Scientist Team)

Facilitators; Mr Andrew Fox; Ms Yukari Shiozawa

Alfred Dry	St Benedict's School, Bury St Edmunds
China Kikuchi	Furukawa Reimei High School
Hajime Nakakura	Rikkyo Ikebukuro High School
Isra Shaikh	Hinchley Wood School, Esher
Nanako Honda	Fukushima High School
Satomi Hase	Soma High School
Will Adler	Thomas Hardye School Dorchester
Yuna Sakuma	Tohoku University "Tamago" Programme

<https://www.thenakedscientists.com/podcasts/short/uk-japan-workshop-young-scientists-2019>
<https://www.thenakedscientists.com/podcasts/short/2019-uk-japan-workshop-young-scientists>

16.25 COMMENTARY

Mr Toshinori Sano Education Attaché, Embassy of Japan
Rt Hon Baroness Garden of Frognal
Prof Alexander Boksenberg, FRS, Emeritus Professor of Experimental
Astronomy and formerly Director, Royal Greenwich Observatory

CLOSING REMARKS

Naoki Sonobe, Kouta Miyakoshi Iwaki High School
Mr Shinichi Nihei Iwaki High School
Alfred Dry St Benedict's School, Bury St Edmunds
Mr Darrin Steward St Benedict's School, Bury St Edmunds
Dr Eric Albone Clifton Scientific Trust

WORKSHOP DINNER (St John's College)

18.30 Leave for walk to St John's College

met at St John's College Northampton Street 18.50

19.00 Reception St John's College The Backs (Paddock); New Court Cloister if wet

19.35 Dinner in Hall

WELCOME & GRACE

Dr Michael De Volder Fellow, St John's College &
Reader in NanoManufacturing &
Engineering Design, Institute for Manufacturing

AFTER DINNER SPEECHES

Dr Eric Albone, Clifton Scientific Trust
Mr Kentaro Kiso President, Barclays Japan
Daisuke Takano Fukushima High School
Mr Ryota Endo Fukushima High School
Damien Mason Thomas Hardy School, Dorchester
Mr Simon Lewis Thomas Hardy School, Dorchester

CERTIFICATES presented by Mr Kentaro Kiso, President, Barclays Japan