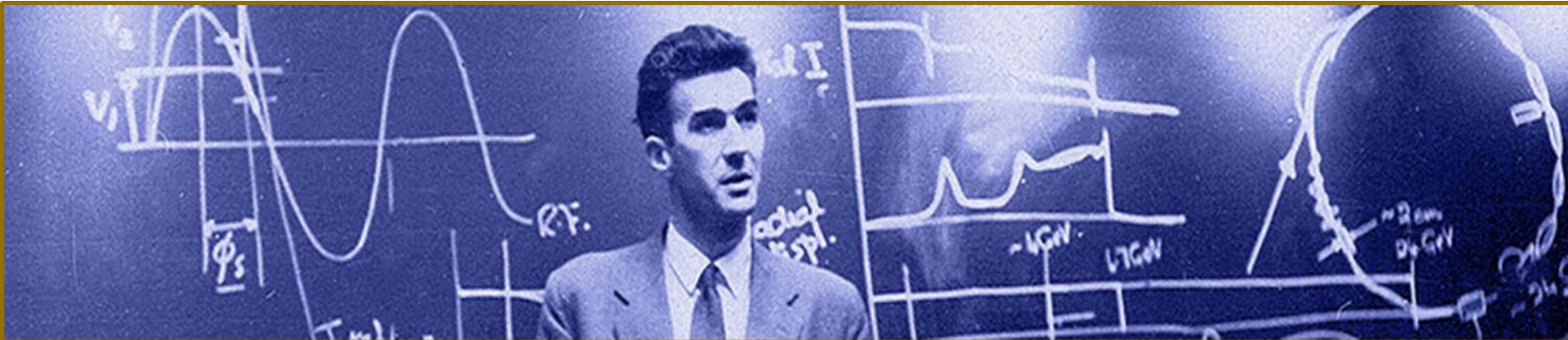




John Adams Institute Festival 2018



JAI Fest 2018: welcome!



Philip Burrows

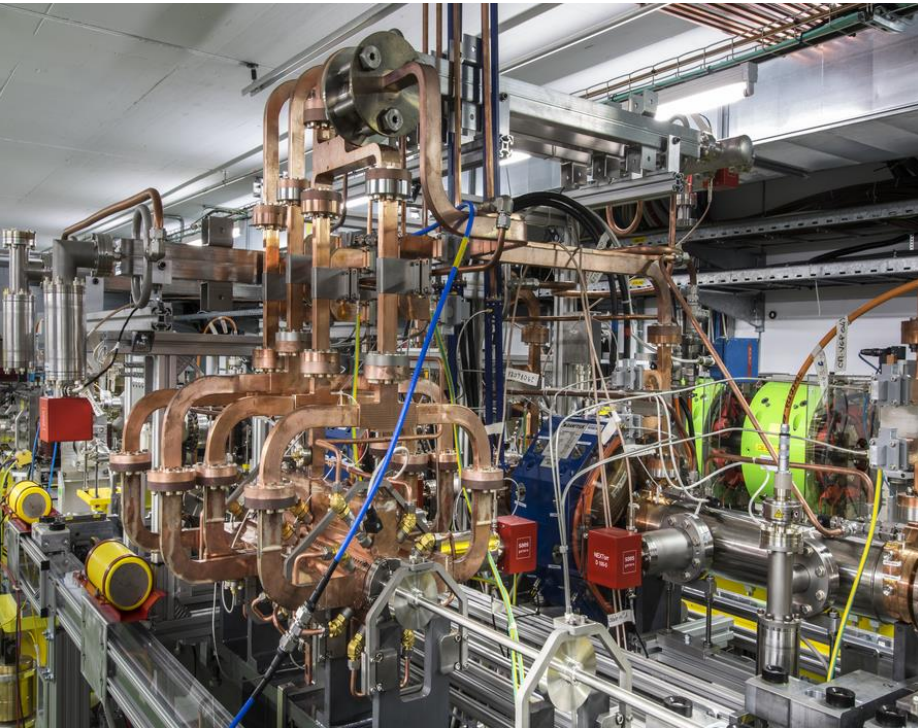
Oxford University

Interim Director, John Adams Institute

JAI Fest 2018: welcome!

| | |
|----------------------------------|--------------------------------|
| Peter Ratoff | (CI) |
| Manjit Dosanh | (CERN) |
| Deepa Angal Kalinin | (ASTeC) |
| John Thomason | (ISIS) |
| <i>Emmanuel Tsesmelis</i> | <i>(via Melbourne!)</i> |

John Adams Institute



A centre of excellence for advanced and novel accelerator technology, providing expertise, research, development and training in accelerator techniques, and promoting advanced accelerator applications in science and society

John Adams Institute

Oxford University, Royal Holloway, Imperial College

**One of two UK national academic centres of excellence in
accelerator science, set up in 2004**

20 faculty

30 staff

37 PhD students

**Research projects at: CERN, DESY, KEK, Daresbury,
Diamond, ISIS, CLF ...**

Comprehensive PhD training programme

JAI faculty

Royal Holloway: Stewart Boogert, Stephen Gibson, Pavel Karataev

Imperial College:

Zulfikar Najmudin, Stewart Mangles, Steven Rose, Bucker Dangor

Oxford:

Riccardo Bartolini, Philip Burrows, Brian Foster, Simon Hooker,

Ivan Konoplev, Peter Norreys, Armin Reichold, Suzie Sheehy,

Emmanuel Tsesmelis, Frank Van Den Heuvel, Roman Walczak

Emeritus: George Doucas, Ken Peach

Thanks and congratulations!

Andrei Seryi

**Appointed
Director of
Accelerator
Division at JLab**



Congratulations!

Riccardo Bartolini

**Appointed
Technical
Director
of SESAME**



Congratulations!

Suzie Sheehy

**Appointed to
faculty post in
Physics Dept at
Melbourne
University**



JAI staff

Imperial College:

Saleh Alatabi, Rory Baggott, Ollie Ettliger, George Hicks, Brendan Kettle, Zhi Qiao, Rob Shalloo, Matthew Streeter, Jonathan Wood

Oxford:

Douglas Bett, Ryan Bodenstein, Paul Coe, Emilia Cruz Alaniz, Jose Abelleira Fernandez, James Holloway Mark Jones, Colin Perry M. Korostelev, Emi Yamakawa

Royal Holloway:

Alberto Arteche, Paul Bamford, Gary Boorman, Alessio Bosco, Richard Elsom, Robert Kieffer, Konstantin Lekomsev, Alexey Lyapin, Laurie Nevay, Hector Garcia Morales, Markus Palm, William Shields

Congratulations!

Jose Abelleira Fernandez

**Awarded an
ASI Data Science
Fellowship**



JAI students

Oxford:

Luke Dyks, Chetan Gohil, Jakob Jonnerby, Pierre Korysko, Ji Li, Lucy Martin, Jan Paszkiewicz, Alexander Picksley, David Posthuma de Boer, Rebecca Ramjiawan, Aimee Ross, Eugenio Senes, Leon Van Riesenhaupt, Robert Williamson

Imperial College:

Savio Rosario, Elias Gertschmayer, Emma-Jane Ditter, Jan-Niclas Gruse, Robbie Watt, Cary Colgan, Michael Backhouse, Eva Loss, Wei Wu

Royal Holloway:

Stuart Walker, Swann Levasseur, Sophie Bashforth, Helena Pikhartova, Gian Luigi D'Alessandro, Siobhan Alden, Andrey Abramov, Theodoros Christodoulou, Michele Bergamaschi, Tom Vaughan, Niki Vitoratou, Andrei Olenik, Kirill Fedorov, Daniel Harryman

Welcome!

| | |
|-------------------------------|---------------------------------|
| Luke Dyks | (CLIC) |
| David Posthuma de Boer | (ISIS) |
| Aimee Ross | (PWFA) |
| Daniel Harryman | (Cerenkov DR) |
| Siobhan Alden | (FETS) |
| GianLuigi d'Alessandro | (CERN PS beamline) |
| Eva Los | (LWFA) |
| Michael Backhouse | (LWFA) |
| Yuxuan Cai | (ion accel) |
| Thomas Hoffman | (Hon Research Associate) |
| Rob Shalloo | (RA) |

Congratulations on completing PhD!

Alberto Arteche

Michele Bergamaschi *

Christopher Arran

Talitha Bromwich

Hannah Harrison

Robert Shalloo

Huibo Zhang *

**** Viva scheduled!***

Congratulations!

Awarded CERN Fellowships:

Leon Van Riesenhaupt



Swann Levasseur



JAI PhD studentships

3 STFC project studentships awarded 2018

2 Royal Society studentships (Suzie)

2 CASE studentships (Ox, IC)

1 studentship via ERC grant (Stewart)

JAI enters STFC quota studentship exercise 2019

Agreement for 2 joint studentships with ISIS

Possibilities for CERN doctoral studentships + ...

John Adams Agreement

JOHN ADAMS INSTITUTE AGREEMENT

Between

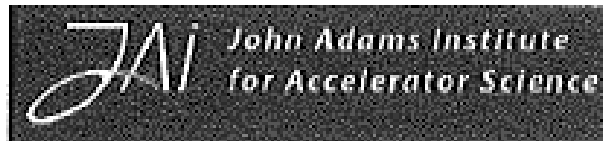
The Chancellor, Masters, and Scholars of the University of Oxford

Royal Holloway and Bedford New College

And

Imperial College of Science, Technology and Medicine

**Updated
and signed
by legal
teams
5/12/18**



JAI www site

‘main’ www site hosted in Oxford

cross links to www sites at RHUL + IC

JAI www site - then



John Adams Institute for Accelerator Science

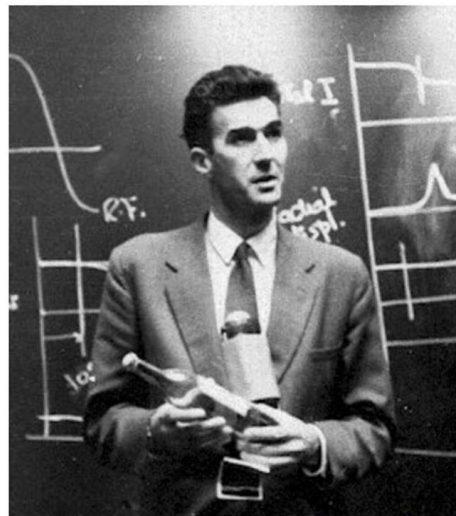
Centre of excellence in the UK for advanced and novel accelerator technology

Navigation

- ▼ About the John Adams Institute
 - Contacts
 - History
 - More Information
 - Sir John Adams
 - What the Adams Institute Does
- Discover
- Events
- Lectures
- News

About the John Adams Institute

The John Adams Institute for Accelerator Science is a centre of excellence in the UK for advanced and novel accelerator technology, providing expertise, research, development and training in accelerator techniques, and promoting advanced accelerator applications in science and society.



Latest news

Posted: 15/03/2018 - 15:04



[Continuity of Successful Operation of JAI](#)

Posted: 02/11/2017 - 10:34

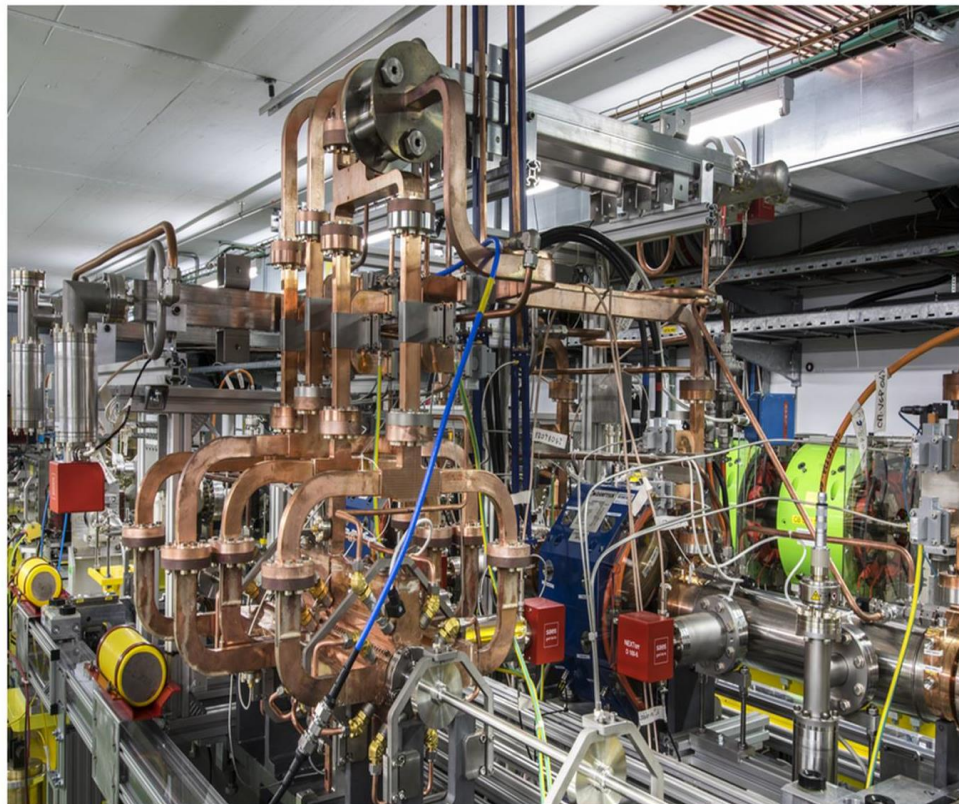


[Accelerate! show at the Curiosity Carnival](#)

JAI www site - now

About the John Adams Institute

The John Adams Institute for Accelerator Science is a centre of excellence in the UK for advanced and novel accelerator technology, providing expertise, research, development and training in accelerator techniques, and promoting advanced accelerator applications in science and society.



Navigation

- ▼ About the John Adams Institute
 - Contacts
 - History
 - More Information
 - Sir John Adams
 - What the Adams Institute Does
- Discover
- Events
- Lectures
- News
- ▶ Research
- ▶ Training
- Thesis
- Vacancies
- Applications

Latest news

Posted: 14/11/2018 - 10:31



[Oxford Particle Physics Graduate Open Day 2018](#)

Posted: 12/11/2018 - 15:59



[Upcoming seminar - Advanced Channeling Technologies](#)

Posted: 09/11/2018 - 14:58



[New leadership at the John Adams Institute](#)

The new www team

www coordinator: Lucy Martin



Content team:

Alex Picksley (Oxford)
Siobhan Alden (RHUL)
TBC (IC)



Please contact the team with news, stories, events, publications ...

JAI www site

About the John Adams Institute

Join us for the JAIFest this Friday 7th December at Royal Holloway

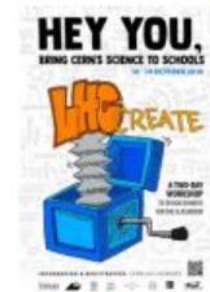


The John Adams Institute for Accelerator Science is a centre of excellence in the UK for advanced and novel accelerator technology, providing expertise, research, development and training in accelerator techniques, and promoting advanced accelerator applications in science and society.



Latest news

Posted: 16/11/2018 - 16:15



CERN LHCcreate outreach hackathon

Posted: 16/11/2018 - 16:01



JAIfest 2018

Posted: 14/11/2018 - 10:31



Particle Physics Graduate Open Days 2018

JAI research activities

Electron beams:

**Electron-positron linear colliders
Diamond Light Source + future FEL**

Proton beams:

**Large Hadron Collider
Future Circular Collider
Intense hadron beams (ISIS, FETS)**

Beam therapy:

Proton, ion, electron

Laser- and beam-driven plasma wakefield acceleration

Advanced accelerator systems:

**Beam instrumentation, feedback + control
RF systems
Metrology/alignment**

Today's programme (1)

Session 1 (Bourne Annexe): Chair: Stephen Gibson: Future frontier colliders (10:30-12:30)

-Conveners: Stephen Gibson

| time | [id] title | presenter |
|-------|--|------------------------------------|
| 10:30 | [1] Welcome and introduction | BURROWS, Philip Nicholas |
| 10:50 | [2] Luminosity and longitudinal density monitoring in the LHC | PALM, Marcus |
| 11:10 | [3] A holistic approach to simulating beam losses in the LHC using BDSIM | WALKER, Stuart Derek |
| 11:30 | [4] Future hadron colliders | ABELLEIRA, Jose |
| 11:50 | [5] Impact of stray magnetic fields on low-emittance beam dynamics | GOHIL, Chetan |
| 12:10 | [6] Low-latency beam feedbacks for e+e- colliders | BETT, Doug BETT, Douglas Robert |

Today's programme (2)

Session 2 (Moore Auditorium): Chair Ivan Konoplev: Novel acceleration and diagnostics (14:00-16:00)

-Conveners: Ivan Konoplev

| time | [id] title | presenter |
|-------|--|----------------------|
| 14:00 | [7] Status of CLARA and UK FEL plans | ANGAL-KALININ, Deepa |
| 14:20 | [8] Longitudinal beam profile diagnostics using coherent Cherenkov radiation at CLARA accelerator | FEDOROV, Kirill |
| 14:40 | [9] Pulse compression, depletion and power amplification of a laser pulse driving a non-linear wakefield | STREETER, Matthew |
| 15:00 | [10] Towards high-repetition-rate plasma accelerators with HOFI channels | JONNERBY, Jakob |
| 15:20 | [11] Transparency of overdense foils to intense laser pulses | DITTER, Emma-Jane |
| 15:40 | [12] Measuring the radiation reaction of energetic electrons interacting with light | GERSTMAYER, Elias |

Today's programme (3)

Session 3 (Moore Auditorium): Chair: Zulfikar Najmudin: Advances in medical accelerators (16:30-18:00)

-Conveners: Zulfikar Najmudin

| time | [id] title | presenter |
|-------|---|----------------------------|
| 16:30 | [13] From particle physics to cancer therapy | DOSANJH, Manjit |
| 17:00 | [14] BDSIM applications for proton therapy | SHIELDS, William |
| 17:20 | [15] LARA: a laser-based beamline for clinical applications | KURUP, Ajit KURUP, Ajit |
| 17:40 | [16] From medical accelerators to frontier accelerators... and back again | SHEEHY, Suzie |

Drinks & canapés (18:00-19:30)

JAI research activities

**Thanks to our RHUL colleagues for
hosting us!**

Let's enjoy the day!