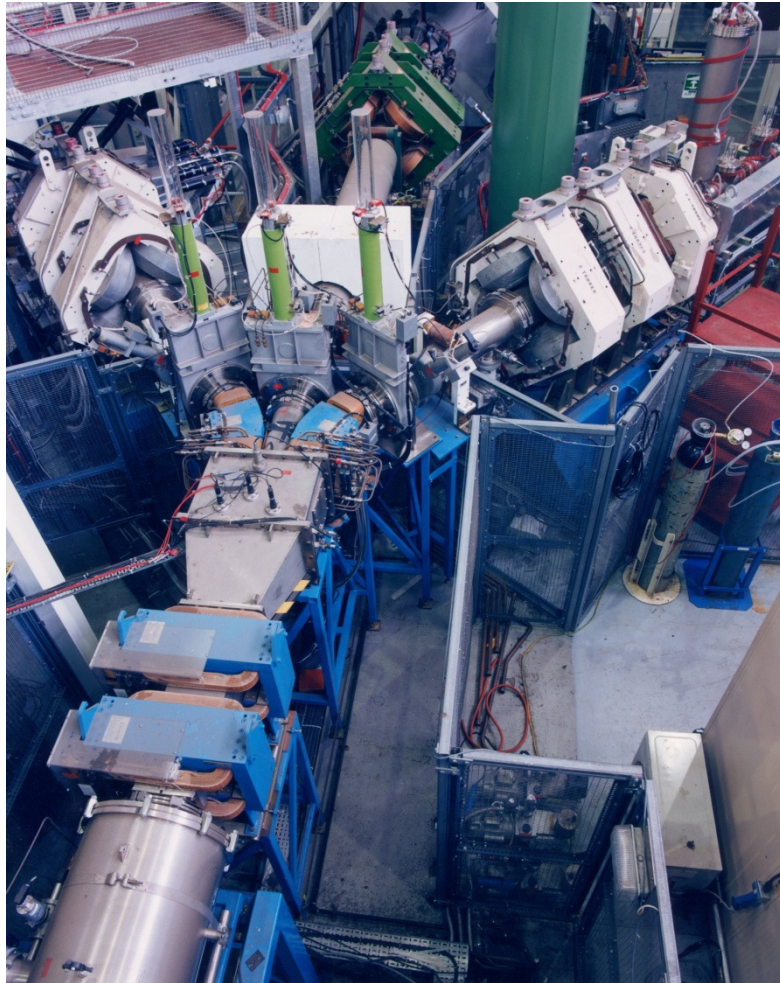


# ISIS Muon Training School 19-23 March 2018



## Writing Beamtime Applications

*Adrian Hillier*  
*ISIS Muons*



Science & Technology Facilities Council

ISIS

# The Proposal Process



- 2 calls per year  
(deadlines **3<sup>rd</sup> Wednesday** in **April** and **October**)
- All submissions via ISIS website
- ~70-80 proposals submitted per round
- Oversubscription ~2-3
- 6 weeks after the deadline, the selection panel meets
- Results a few weeks after that (with comments)
- Instrument scientist will then ask for preferred dates
- Schedule produced, local contacts assigned
- Run experiments!



Please click here to [sign in](#)

### Manage My Account

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<https://www.isis.stfc.ac.uk/Pages/Apply-for-beamtime.aspx>

- 1) Experiment
  - 2) Experimenters
  - 3) Facility Access
  - 4) Support
  - 5) Instrument
  - 6) Publications
  - 7) Samples
  - 8) Other Facilities
  - 9) File Upload
  - 10) Final Submission
- [View Proposal](#)

### Step 3 of 10: Facility Access and Funding

The proposed access route is\*

The proposal falls under the following science programmes (select multiple, if required - Ctrl+Click)\*

- Biology and Bio-materials
- Chemistry
- Energy
- Engineering
- Environment
- Materials

#### Chinese, Indian and South African researchers

ISIS has limited funds to support researchers from the above countries to come to ISIS for experiments. Details can be found on the [ISIS website](#). Please tick this box if you wish to be considered for this funding.

Has this or a similar proposal been submitted to another facility recently?

[Save](#) | [Prev](#) | [Next](#)

If the proposal PI is from China, India or South Africa, you can ask for Newton funding (but this is oversubscribed).



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### Step 4 of 11: Support for your research

We would like to understand how your research at ISIS is supported within your overall research programme. This is so that we can better understand how ISIS contributes to the programmes of other research councils or research funders, or the programmes of industrial partners.

**Do you or another co-investigator on this proposal have one or more grants which relate to this proposal? \***

**Are there any industrial links related to this proposal (including CASE awards, etc)\***

Please list any other ways that this proposal is supported, e.g. through fellowships, etc

#### PhD Students on this Proposal

**Please specify up to 3 funding sources per PhD student**

You have not added any PhD students as co-applicants on your proposal. Please tell us in the 'Other' box above if there are likely to be any students associated with this proposal and what their funding source is.

How the proposal is supported (associated grants, or studentships, or industry links) is important.



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[View Proposal](#)

### Step 7b of 11: Sample Environment

Standard ISIS SE equipment (choose multiple if applicable - Ctrl+Click)\*

- None
- Do Not Know
- Helium Cryostat
- CCR
- T < 1K cryostat

Temperature range:  to  K

Pressure range:  to  MPa

Magnetic field strength:  to  gauss

Details of any specialist equipment or user supplied equipment :

**Please note:** Special equipment must be discussed in advance with Zoe Bowden [zoe.bowden@stfc.ac.uk](mailto:zoe.bowden@stfc.ac.uk)

[Prev](#) [Next](#)

You need to choose appropriate sample environment equipment. Ask a member of the ISIS Muon group if you're not sure, or see <https://www.isis.stfc.ac.uk/Pages/Muon-Instrument-Comparison.aspx>



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[View Proposal](#)

### Step 7c of 11: Sample Safety

Are there any hazards associated with your sample?\*

Sensitive to air?

Sensitive to water vapour?

Are there any other hazards associated with the experiment?\*

Are there any other hazards associated with the sample preparation at ISIS?\*

Are there any other hazards associated with experiment equipment?\*

Will you need to use the sample prep labs?

Other special equipment requirements ?

After the experiment the sample will be\*

Please note that a more detailed Experiment Risk Assessment will be required for all successful proposals before an experiment is run.

[Prev](#) [Next](#)

You need to tell us about sample hazards.  
Once your experiment is scheduled, a more detailed Experiment Risk Assessment (ERA) will also be needed.

# Science Case

- Proposals judged on science
- Upload a 2-page scientific case.
  - **Don't use colour**
  - Will be reduced to 70%: don't use fonts <12pt size.
  - Self-contained (but can include references)
- Explain the background (timeliness, technological relevance, etc)
- What question(s) are you trying to answer?
- How will muons help - what information will you get? Why muons?
- Describe the measurements (no. samples, temp. / field scans)
- Justify the time you are asking for (be specific)
- Samples - do you have them? Say how they been characterised
- Demonstrate you've used previous beamtime well





# Things to avoid . . .

‘we will search for the multi-spitoon excitations’

‘CsNiBr<sub>3</sub> is isomorphic to CsNiBr<sub>3</sub> [2]’

‘we will probe the two mango dispersion’

‘the burst of muons, rather than one muon at a time, will simulate hydrogen diffusion and encourage competition for traps . . .’

‘In the past, several of these systems have been studied by means of muSR. Reanalysing the data shows that substantial parts of the data are missing . . . .’

---

‘I am overwhelmed by the feeling that I have spent longer reading this proposal than the author spent writing it’



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# Muon Facility Access Panel Members Dec 2017



Steve Bramwell (UCL) - Chair  
Fabrice Bert (Paris-Sud)  
Nigel Clayden (UEA)  
Rustem Khasanov (PSI)  
Martin Mansson (Royal Institute  
of Technology)  
Rick Mengyen (Northern Michigan)

Lei Shu (Fudan)  
Ian Tucker (Unilever)  
Isao Watanabe (RIKEN)  
Adrian Hillier (ISIS Representative)  
Mark Telling (Secretary)



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# Other types of Proposals

## Rapid Access

- For rapidly-moving science areas, new sample discoveries, other urgent studies
- Proposals can be submitted any time
- Rapidly reviewed by FAP Chair and one other FAP member
- If awarded time, scheduled as soon as possible
- Must be a clear case as to why the measurement is urgent

## Xpress Access

- For initial characterisation of samples or feasibility checks on samples for future beamtime
- Proposals are short, and can be submitted any time
- Reviewed internally
- Awarded up to 5 hours of beamtime on either MuSR or EMU.
- Users need not come for the measurement - can send the sample in

Further details on website

<https://www.isis.stfc.ac.uk/Pages/ISIS%20Proposal%20Routes%20copy.pdf>

# Research Complex at Harwell (RCaH)

- RCaH is located on the RAL site
- It provides additional experimental facilities (e.g. electron microscopes, NMR) which UK users of ISIS can use
- You can request access to RCaH facilities in the proposal system.



See [ISIS website](#) for more details



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# ISIS User Office



Available to answer questions, deal with problems, etc:

Telephone: +44 1235 445592

Fax: +44 1235 445103

Email: [isisuo@rl.ac.uk](mailto:isisuo@rl.ac.uk)

<https://www.isis.stfc.ac.uk/Pages/User-Office.aspx>



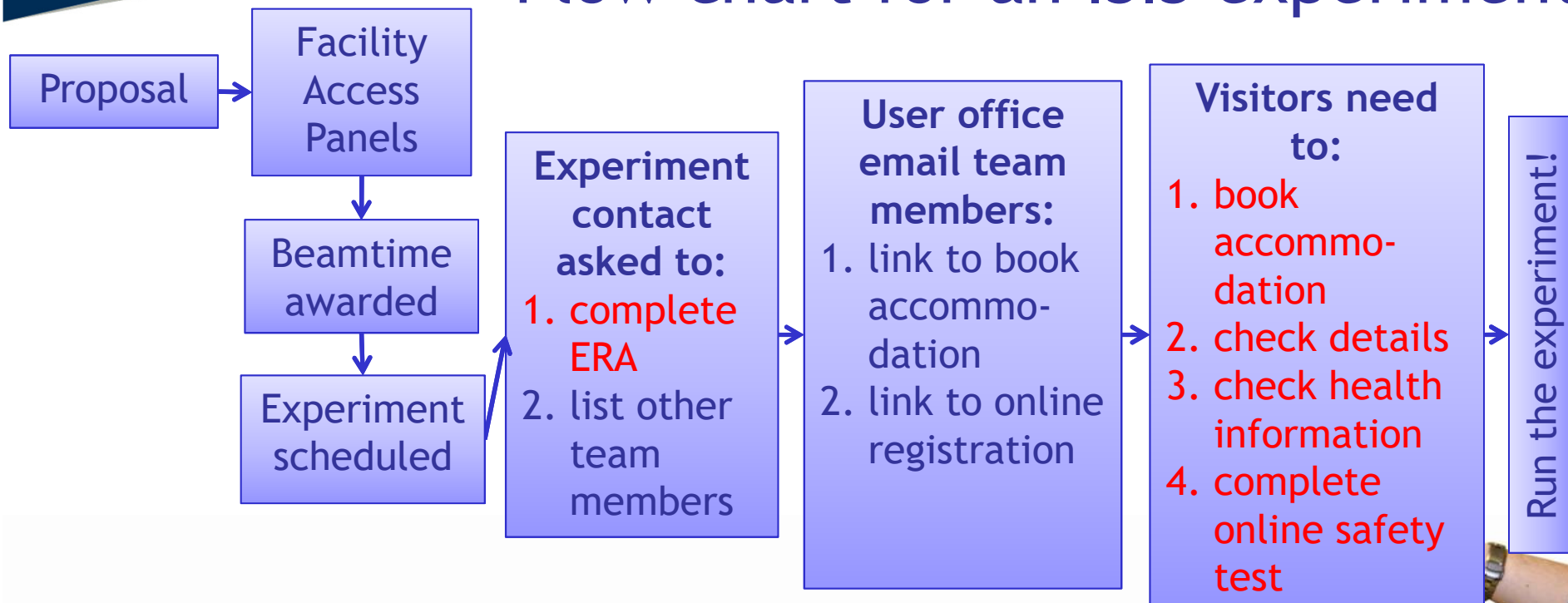
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## Flow chart for an ISIS experiment



# Online systems



[Home](#) | [My Details](#) | [philip.king@stfc.ac.uk](mailto:philip.king@stfc.ac.uk) [Logout](#)  
 **Facility Safety Test System**

## Welcome

This system should be used to build your experimental risk assessment (ERA) for your experiment. This system replaces COSHH forms.

The information collected by this system will help us improve our service, as well as properly evaluating the hazards of your experiment. (You may need to take the tests for the facility you will be working at.)

## Your ISIS Experimental Risk Assessments

You do not have any saved assessments.

## My Safety Tests

This system should be used to complete the safety tests you must pass before using the facilities at RAL. The information collected by this system will also help us improve our registration process and in turn our service to you.

[Home](#) | [My Details](#) | [philip.king@stfc.ac.uk](mailto:philip.king@stfc.ac.uk) [Logout](#)

**Visits**  only date.



## My Visits

to Rutherford Appleton Laboratory

This system should be used to inform us who will be visiting the ISIS Facility or Central Laser Facility (CLF) and why (e.g. as part of an experimental team). It is important you use this system to record all visitors who will require access to site regardless of whether they need accommodation or travel for the duration. This will help us improve our registration process and in turn our service to you.

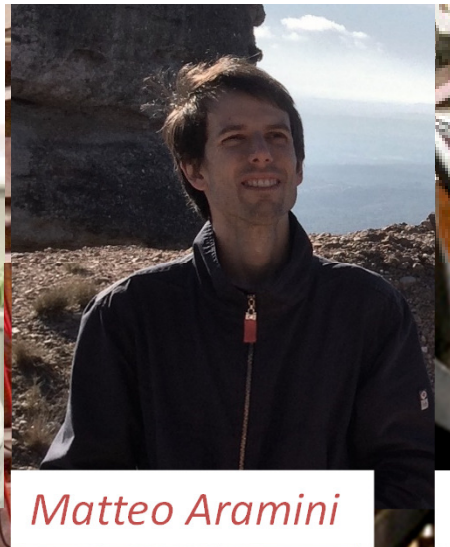
Visit Reference	Earliest Date of Arrival	Primary Purpose	Status	<a href="#">Edit</a>	<a href="#">Delete</a>
be38c8ca-pjck34	2011-04-28	ISIS Experiment eaert	Draft		

[Create New Request](#)





*Pabitra Biswas*



*Matteo Aramini*



*Koji Yokoyama*



*Adrian Hillier*



*James Lord*



*Adam Berlie*



*Francis Pratt*



*Mark Telling*



*Peter Baker*

Here to help!