Contribution ID: **94** Type: **Poster Presentation**

Proposals for ISIS Target Station 1 upgrade

Tuesday, 20 May 2014 17:30 (1h 30m)

From the original vision over 30 years ago, ISIS has become one of the UK's major scientific achievements. It is a world-leading centre for research in the physical and life sciences at the STFC Rutherford Appleton Laboratory near Oxford in the UK. The suite of neutron and muon instruments gives unique insights into the properties of materials on the atomic scale. ISIS supports a national and international community of more than 3000 scientists for research into subject ranging from clean energy and the environment, pharmaceuticals and healthcare, through to nanotechnology and materials engineering, catalysis and polymers and on to fundamental studies of materials.

With the knowledge and computational tools now available it is widely believed that the useful neutronic output of the ISIS First Target Station (TS1) can be significantly improved. There is a current project to assess the feasibility of this proposal. The overall aim is to have the implementation phase of the project complete by 2019.

This poster will cover some of the proposals and work carried out as part of the feasibility phase of this upgrade project.

Summary

An overview of some of the on-going work on the ISIS Target Station 1 upgrade project.

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Session Classification: HPTW Poster Session & Reception

Track Classification: Target Facility Challenges