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About

Alexander Bevan is a research fellow at the school of Metallurgy & Materials in the hydrogen materials group, headed by Dr David Book

Qualifications

PhD, University of birmingham, 2007

MPhil, University of Birmingham, 2002

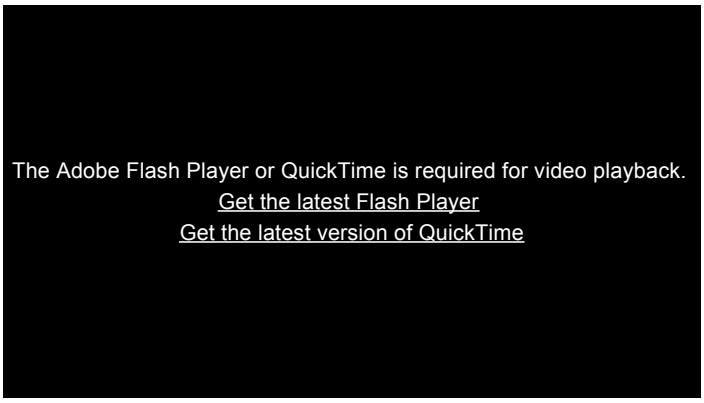
BEng, Metallurgy, University of Birmingham, 2000

Biography

Alexander Bevan qualified with a Beng (Hons) in metallurgy from the University of Birmingham in 2000 and went on to complete an Mphil and PhD from the University in 2002 and 2007 with the investigation in soft magnetic materials.

In 2007 Alexander Bevan completed the Protium project (**http://www.hydrogen.bham.ac.uk/protium.shtml (http://www.hydrogen.bham.ac.uk/protium.shtml)**), officially launched on the 21st September 2007 it is the worlds first hydrogen powered canal boat, which serves as an interface demonstrating the various technologies and current research activities in the field of energy storage and usage of hydrogen.

In 2010 Alexander Bevan completed an interdisciplinary research project called SCRATCH (Supply Chain Research Applied To Clean Hydrogen) funded by EPSRC and AWM involving the further development of hydrogen storage materials and the interaction with a range of local SME's



Research

RESEARCH THEMES

Hydrogen processing of functional and structural materials

Development of materials for hydrogen storage

Processing of rare earth magnetostrictive materials

Other activities

Member of the institute of Materials, Minerals and Mining

Publications

A. Bevan, A. Zuttel, D. Book and I. R. Harris, Performance of a metal hydride store on the "Ross Barlow" hydrogen powered canal boat, Royal Society of Chemistry, [In press]

C.E.J. Dancer,P. Mikheenko, A. Bevan, J.S. Abell, R.I. Todd, C.R.M. Grovenor, A study of the sintering behaviour of magnesium diboride, Journal of the European Ceramic Society 29 (2009) 1817–1824

S.M. Koohpayeh, D. Fort, A.I. Bevan, A.J.Williams, J.S.Abell, “Study of ferromagnetism in Co-doped rutile powders and float-zone grown single crystals”, Journal of magnetism and magnetic materials, Vol. 320(6) (2008) pp. 887-894

S.M. Koohpayeh, J.S. Abell, K.K. Bamzai, A.I. Bevan, D. Fort and A.J. Williams, The influence of growth rate on the microstructural and magnetic properties of float-zone grown $ErFeO_3$ crystals, Journal of magnetism and magnetic materials, 309 (2007) 119-125

P. Mikheenko, A.I. Bevan, and J.S. Abell, Nucleation and growth of dense phase in compressed MgB2, Journal of Physics: Conference Series 43, 535–538 (2006).

J.S. Abell, P. Mikheenko and A.I. Bevan, Nucleation and growth of dense phase in compressed MgB2, 7th European Conference on Applied Superconductivity (Vienna, Austria, September 11-15, 2005), Book of Abstracts, p. 259.

A.I. Bevan, P. Mikheenko and J.S. Abell, Resistive sintering of MgB2, 7th European Conference on Applied Superconductivity (Vienna, Austria, September 11-15, 2005), Book of Abstracts, p. 255.

P. Mikheenko, A. Bevan and J.S. Abell, Ni assisted growth of dense MgB2, Condensed Matter and Materials Physics Conference, CMMP 2006 (University of Exeter, UK, 20-21 April 2006), Abstract Book, p. 139.

P. Mikheenko, A.I. Bevan and J.S. Abell, Hot isostatic pressing and resistive sintering of MgB2, Eighth Meeting of the European Forum for Processors of Bulk Superconductors (EFFORT) (Place du XX Août, University of Liege, Liege, Belgium, 18 - 19 March, 2005), Book of Abstracts, p.4

Publicity surrounding the Protium project

TV coverage: BBC Midlands Today, Central News, ITV (Ellen MacArthur), Sky.

Radio: BBC Radio WM.

Newspapers: Birmingham Mail (two articles), Birmingham Post, Daily Telegraph, Guardian (feature article). Observer (20 big green ideas).

Journals: Waterways World, Electric Boat Association, Engineering Technology, Professional Engineering. EPSRC pioneer, magnetic society.

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