Curriculum Vitae

Personal and Contact Details:

Andrew Kennard Heath

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Employment History

April 06 - cont	**Self-employed consultant in Accessibility Technology Standards** as applied to Learning Technology
Nov. 06 – Mar 11	**Senior Research Fellow, The Open University** – The European Unified Approach for Accessible Lifelong Learning (EU4ALL) fixed term part time contract
Mar 86 – Mar 06	**Senior Lecturer in Computing, Networking and Multimedia, Sheffield Hallam University**, Pond. Street, Sheffield, UK (formerly Sheffield City Polytechnic). Teaching Programming, Computer Science, Networking and Multimedia Technologies and in later years research and participation in eLearning Technology standards in general and with respect to accessibility particularly. During my time at SHU there were several secondments to pursue learning technology and accessibility work.
Autumn 99 – Feb 02	**Seconded to Centre for Educational Technology Interoperability Standards.** Liaison between groups working in Learning Technology Standards work in US (IMS), Europe (CEN-ISSS) and other groups and UK Higher Education community during development of CETIS Special Interest Groups. At various periods seconded to The Open University, Bangor University a research group at SHU and for a time to the UK eUniversity and undertook various consultancy work, including for the University for Industry, BECTA etc.
Pre 1986	**Teaching posts in Further Education and Secondary School teaching Mathematics and Computing**
Pre 1976	Many part time and short term posts in office and other work

Tertiary/Higher Education

Master of Science in Computer Studies	March 1986, Sheffield City Polytechnic
Post-graduate Diploma in Networked Information Engineering (Distinction)	1999, Sheffield Hallam University
Teachers Certificate	1979, University of Durham

Selected Papers (further details and sources for most of these are available on or referenced from http://axelafa.com/biblio)

Journal:

A. Heath and M. Cooper, "Access For all to eLearning," *Research, Reflections and Innovations in Integrating ICT in Education, ISBN of Collection: 978-84-692-1788-7 / ISBN Vol. 2: 978-84-692-1790-0 FORMATEX,Bajados, Spain*, vol. 2, pp. 1139 – 1143, 2009.

A. Heath, "The Accessibility Jigsaw Puzzle," *in The Learning Citizen, pp. 9 – 12, Jan. 2003.*

A. Heath, "Exploiting opportunities computers provide to deliver content people can use in context: A response to 'Accessibility and adaptability of learning objects: …'," *ALT J: Research in Learning Technology*, vol. 14, Jun. 2006.

A. Heath, L. Nevile, and J. Treviranus, "Individualized Adaptability and Accessibility in E-learning, Education and Training Part 1 : Framework," *ISO International Organisation for Standards*, vol. ISO/IEC 24751-1:2008, 2008.

A. Heath, L. Nevile, and J. Treviranus, "Individualized Adaptablity and Accessibility in E-learning, Education and Training Part 2: AcessForAll Personal Needs and Preferences Statement," *ISO International Organisation for Standards*, vol. ISO/IEC 24751-2:2008, 2008.

A. Heath, L. Nevile, and J. Treviranus, "Individualized Adaptablity and Accessibility in E-learning, Education and Training Part 3 : AcessForAll Digital Resource Description," *ISO International Organisation for Standards*, vol. ISO/IEC 24751-3:2008, 2008.

A. Chapman, B. Kelly, L. Nevile, and A. Heath, "Personalization and accessibility: integration of library and web approaches," *Proceedings of the 15th international conference on World Wide Web, ACM New York, NY, USAWWW-06*, pp. 871 – 872, May 2006.

P. Bacsich, A. Heath, P. Lefrere, P. Miller, and K. Riley, "The Standards Fora for Online Education," *D-Lib Magazine, Corporation for National Research Initiatives ©1999D-Lib Magazine*, vol. 5, Dec. 1999.

Conference Papers

N. Sclater, A. Heath, and I. Grove-Stephenson, "Building a compliance audit for BS7988 'Code of practice for the use of information technology (IT) in the delivery of assessments'," in *Proceedings of the Sixth International Computer Assisted Assessment Conference*, Loughborough, England, 2002.

D. Sloan, A. Heath, F. Hamilton, B. Kelly, H. Petrie, and L. Phipps, "Contextual Web Accessibility-Maximizing the Benefit of Accessibility Guidelines' for' Building the Mobile Web: Rediscovering Accessibility," in *W4A '06 Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility?*, Edinburgh, Scotland, 2006, p. 191 – 191.

C. Douce, W. Porch, A. Heath, and M. Cooper, "European unified framework for accessible lifelong learning," in *ALT-C 2007*, Nottingham, UK., 2007.

C. Douce, M. Cooper, W. Porch, J. White, and A. Heath, "Exploring the extension of learning technology systems for accessibility (ALT-C 2008)," in *ALT-C 2008: Rethinking the digital divide*, Leeds, 2008.

L. Nevile, A. Heath, M. Cooper, M. Rothberg, and J. Treviranus, "Learner-centred accessibility for interoperable web-based educational systems," in *In: 14th International World Wide Web Conference (WWW2005)*, Chiba, Japan, 2005.

A. Heath, "Making Sense of the State of e-Learning Standards Developments: A Personal View," in *Future of Interoperability Standards Meeting 2010 http://wiki.cetis.ac.uk/Future_of_Interoperability_Standards_Meeting_2010*, 2010, pp. 1 – 4.

J. Treviranus, A. Heath, and M. Cooper, "Meeting the diversity of needs and preferences-A look at the IMS AccessForAll specifications' role in meeting the accessibility agenda efficiently," in *Accessible Design in the Digital World …*, Dundee, Scotland, 2005.

A. Heath, "Position Paper on Accessibility and Inclusion aspects of Learner Interoperability Framework for Europe," Cambridge, 2005, pp. 1 – 4.

A. Heath, "Position Paper on Accessibility aspects of Learner Interoperability Framework for Europe," 2006, pp. 1 – 4.

Magazine Articles

A. Heath, "Personalisation is coming," *In: SALTIS Briefing*, (*http://www.axelafa.com/sites/default/files/papers/2011%20Heath.pdf*), Apr. 2011.

Keynotes, presentations etc (this is a tiny sample of those I have done)

A. Heath, "Access For All 3.0 at ARC," (*http://www.axelafa.com/sites/default/files/papers/Meeting%20at%20ARC%20Teeside%20University%202011%20Heath.pdf*), Apr. 2011.

A. Heath, "Access For All 3.0 at Joint BSI/JISC CETIS Accessibility Standards Workshop," – a workshop I initiated and organised, (described and slides from: http://wiki.cetis.ac.uk/Accessibility_SIG_Meeting_28th_February_2011#Access_For_All_3.0_.28PowerPoint_format_-_3.78Mb.29), Feb. 2011.

A. Heath, "Accessibility Aspects of the IMS Question and Test Interoperability Specification," (Described on: *http://www.axelafa.com/content/accessibility-aspects-ims-question-and-test-interoperability-specification*), (slides on:*http://www.axelafa.com/sites/default/files/papers/Japanqtiacc5_0.pdf*), Osaka, Japan, Jul. 2001.

A. Heath, "IMS Question and Test: A short overview of current development," Shinjuku Washington Hotel, Tokyo, Japan, (*http://www.axelafa.com/sites/default/files/papers/Japanqtiacc5.pdf*), Jul. 2001.

A. Heath, "Learning Content Personalisation for Accessibility : Keynote at ICALT 08," (http://www.axelafa.com/sites/default/files/papers/icalt08%2053.pdf), May 2008.

Web Articles

A. Heath, "BSI BS8878:2010 Web Accessibility Code of Practice Now Available for Public Comment," *blogs.cetis.ac.uk*, (*http://blogs.cetis.ac.uk/accessibility/2010/05/18/bsi-bs88782010-web-accessibility-code-of-practice-now-available-for-public-comment/*), May 2010.

Reports (also available from http://axelafa.com/biblio)

A. Heath, "EU4ALL Contribution to Standards," (*http://www2.eu4all-project.eu/index.php?option=com_remository&Itemid=36&func=fileinfo&id=85*), Aug. 2011.

A. Heath, "EU4ALL Implications of Standards for Content Personalisation, User and Device Modelling and the Learning Object Metadata Repository," (*http://www2.eu4all-project.eu/index.php?option=com_remository&Itemid=36&func=fileinfo&id=94*), Aug. 2011.

Samples of standards work I have done or authored contributions to

- ISO/IEC 24751:2008 Individualised Adaptation for eLearning, Education and Training and its current revision (under way)
- BS 8878:2010 Web Accessibility - Code of Practice
- IMS Learner Information Package Accessibility for LIP
- IMS Access For All 1.0
- IMS Access For All 2.0 and its equivalent in ISO (see the Papers section of this Website)
- IMS Access For All 3.0 in preparation - Public Copy at http://tinyurl.com/afa3publicdraft
- IMS Guidelines for Developing Accessible Learning Applications
- ISO Technical Reports output from Special Working Group on Accessibility
- IMS Content Packaging 1.2
- IEEE Resource Aggregation Model for Learning Aggregation and Training
- IEEE P1484.12.3 LOM Corrigenda
- CEN-ISSS Document Processing for Accessibility
- IMS LIP version 1.0
- IMS QTI versions 1.1 and 1.2
- BSI BS7988 A Code of Practice for the use of Information Technology for the Delivery of Assessments
- BSI BS 8426:2003 A Code of Practice for e-support in e-learning systems
- IMS ePortfolio 1.0 Specification
- Global Public Inclusive Infrastructure (gpii.net)

Standards Roles I currently hold

- Invited expert to IMS Accessibility Special Interest Group
  - currently working on Access For All 3.0 (publication imminent)
- Co-editor ISO 24751:2008, Individualized Adaptability and Accessibility in E-learning, Education and Training 2008 – currently under revision
- Participant and contributor to development of Global Public Inclusive Infrastructure (http://gpii.net) as editor of ISO 24751:2008 (http://wiki.fluidproject.org/display/ISO24751/AccessForAll+Working+Group)
- Vice Chair BSI ICT/00-/06 ICT Accessibility Co-ordination
  - Committee responsible for national co-ordination of all UK input to international accessibility standards
- Member BSI IST/043 Information Technology for Learning Education and Training
  - Supply Accessibility expertise, ISO Standards development representation and liason with other committees
- Head of UK delegation to ISO/IEC JTC1 SC36
  - ISO Committee responsible for Standards related Information and Communications technology in Learning Education and Training. Active in the sub-group Culture, Language and Individual Needs, and active in Management and Delivery of Learning Resources where I co-edit a Technical Element part of Metadata for Learning Resources Standard. Also active in an ad-hoc looking at a future "packaging" standard to incorporate eBooks.
- Head of UK delegation to ISO/IEC JTC1 SC35
  - ISO Committee responsible for Standards related to User Interfaces
- Liaison between ISO/IEC JTC1 SC35 and a Joint Task Accessibility Group working across CEN and ETSI to revise ISO Guide 71, which is a standard relating to the needs of older persons
- Frequent Head of UK delegation to ISO/IEC JTC1 Special Working Group on Accessibility Group
  - attempting harmonisation across accessibility standards and related goals
- Member and Contributing Author BSI IST/45
  - Group that have just produced a ground-breaking standard BS 8878, putting many accessibility activities within organisations in a useful process framework
- ISO/IEC JTC1 Study Group on Green Information and Communication Technology I
  - Recently co-edited a Report on Green ICT as applied to Education

Strengths

Research
Presentation
Writing
Organisation
Networking (and appropriate community and individual links)
Strategic Foresight
Implementation experience (extensive software technology experience over 30 years)
Extensive experience of the capabilities and business aspects of Learning Management Systems such as Moodle.
Knowledge and experience in the field (extensive experience in the field of eLearning over a period of 12 years)
Social and political skills
Some experience of Blackboard (use for teaching some years ago)
Direct experience of Moodle (used to implement personalisation as part of my work with the Open University)
Extensive experience of the "chalk-face" in universities
Extensive experience of Learning Technologies

Context

Able and willing to travel
Close to York and Hull
Seeking work having some flexibility to enable my standards work to fit with it – part time would be perfect for me
Established reputation in the field

Refererees

Rich Schwerdtfeger Co-Chair IMS Access for All Standards Rich Schwerdtfeger, CTO Accessibility IBM Software, IBM 11501 Burnet Rd., Austin, TX 78758, USA Phone +15128769689 Mobile +15128769689 Email schwer@us.ibm.com	Bruce E. Peoples Chair, ISO/IEC JTC1 SC36 IT for LET Bruce E. Peoples Principal Systems Engineer, Raytheon, 300 Science Park Road, State College, PA 16801, USA Phone +1 814 278 3803 Mobile +1 814 883 1490 Email Bruce_E_Peoples@Raytheon.com

Summary

After 15 years teaching Computer Studies at a University I have spent the last 12 years working in development of international technical standards supporting the accessibility (specifically personalisation) of Information and Communications Technology (ICT) largely based around eLearning. During this time I have acquired an international reputation for my work and have achieved, and continue to achieve, many strategic objectives. One such, achievement, which I give as example, is the inclusion of a mechanism for personalisation of resources that are packaged with the IMS Content Packaging 1.2 specification.

I am also well-known nationally, have published many papers in the area, made many prestigious presentations, organised many workshops, and am invited to participate in many groups working in this area. I have worked for several organisations to support this work, including a deal of private consultancy. Since April 2011 all of my work has been supported solely by consultancy.

In recent times the economic circumstances in the UK have made it gradually more and more difficult to find financial support for pure accessibility standards work and I am seeking to take advantage of my extensive and continuing experience of eLearning. Much of my accessibility work has been in a context of eLearning because accessibility is essential to make eLearning really work. I am seeking now to work in this broader context and believe I have much to offer to such work whilst at the same time continuing to do my accessibility standards work where there is no conflict of availability or resources.

I continue to work in many unpaid roles in accessibility standards and as part of that work I frequently attend many eLearning research and community events and of course national and international standards meetings (though I am seeking to reduce my international commitment to a minimum at this point). During the working week I participate in many groups that work by telephone conference and email but do not see any conflict between these activities and a part time eLearning job – in fact I see these activities as a way to stay in touch with events in the market place and both technical and pedagogic aspects of the products and technologies. Staying in touch with developments I see as essential to the post.