

SUMMARY CURRICULUM VITAE

Name and Title	Professor Andrew Hugh Rankin	
Current Position	Professor of Applied Geology School Geography, Geology and Environment Kingston University, UK	
Higher Education and Qualifications	University of Leicester, UK BSc (Upper Second Class Honours) in Chemistry with subsidiary Geology. <i>Awarded in July 1970.</i>	1967-1970
	University of Leicester, UK PhD (Geology). Thesis entitled: "Fluid inclusion studies in apatite from some E. African carbonatites and Ijolites". <i>Awarded in November 1973</i>	1970-1973
	The Engineering Council C.Eng. <i>Awarded in 1984</i>	
	The Geological Society C.Geol. <i>Awarded in 1991</i>	
Membership of Learned Societies and Professional Bodies	<i>The Mineralogical Society.</i>	<i>Fellow since 1975</i>
	<i>Council</i>	
	Member	1983-1986
	Member	1992-1995
	Vice-President	1992-1994
	President	1996-1997
	<i>Board of Trustees</i>	
	Trustee	1993-1996 1998-2007
	<i>Applied Mineralogy Group Committee</i>	
	Member	1975-1978
	Secretary	1980-1983
	Chairman	1983-1986
	<i>International Mineralogical Association</i>	<i>Member since 1975</i>
	<i>International Working Group on Inclusions in Minerals</i>	
	Chair	1998 -2002

<i>Institution of Materials, Minerals and Mining</i>	<i>Member since 1984</i>
<i>The Geological Society.</i> <i>Accreditation Committee</i>	<i>Fellow since 1991</i>
Member	2006-
<i>Mineral Deposits Studies Group Committee</i>	
Member	1975-1977
Member	1992-1994
<i>Petroleum Group Committee</i>	
Member	1993-1994
<i>Gemmological Association</i>	<i>Member since 1998</i>
<i>Editorial Advisory Board (J Gemmology)</i>	
Member	
President	2008-
<i>Society of Economic Geologists</i>	<i>Member since 2001</i>
<i>Committee of Heads of UK Universities Geoscience Departments (CHUGD)</i>	<i>Member since 1991</i>
Chair	2006-2007
Vice Chair	2004-2006
	2008 –
<i>HEFCE Subject Centre for Geography, Earth and Environmental Sciences</i>	2006-2008
<i>Advisory Board</i>	
Member	

Appointments

<i>Full-time Academic Appointments</i>	
NERC Research Student, University of Leicester	1970-1973
Lecturer in Mining Geology, Imperial College	1973-1989
Head, Fluid Process Research Group, Imperial College	1988-1991
Reader in Applied Mineralogy, Imperial College	1989-1991
Professor of Applied Geology, Kingston University	1991-
Head of Geological Sciences, Kingston University	1991-2000
Head, School of Earth Sciences and Geography, Kingston University.	2000- 2006
Co-ordinator, Enterprise and Innovation activities, and Research Professor, Faculty of Science, Kingston University.	2006-
<i>Editorships and Editorial Boards</i>	
Editorial Board, Mineralogical Magazine	1984-1987
Editorial Board, Mineralium Deposita	1983-1989
Guest Editor, Mineralogical Magazine (June)	1990
Guest Editor, Mineralogical Magazine (September)	1994
Editorial Board, Journal of Gemmology	1998-

Major external advisory roles

HEFCE, Member, Earth Science and Environmental Studies Panel for the 1992 Research Assessment Exercise.	1992
HEFCE, Member, Review Panel for the Allocation of DevR monies from the 1992 RAE.	1993
Advisor, Joint Nature Conservancy Council Conservation reviews.	1992
British Council, Training Design Group, Associate Advisor for Geological Sciences and subjects allied to the Petroleum and Extractive Minerals Industries	1994-date
NERC Geochemistry Review Panel	1996-1997
NERC BGS Minerals and Geochemical Division Programme Review Panel Member	1997
HEFCE External Assessor for the Earth Science and Environmental Science Panel for the 2001 Research Assessment Exercise.	2000
C-Questor Plc, Scientific Advisory Board Member	2005-present

External University Examiner Duties

PhDs. (10+) UK and abroad	1979-date
MSc Ore Geology, University of Wales, Cardiff	1990-1992
MSc Mineral Exploration, University of Leicester	1995-1997
BSc Mining & Exploration Geology, UoW, Cardiff	1989-1992
BSc Geochemistry, University of Reading	1994-1997
BSc Joint Geology, Brunel University (WLIHE)	1992-1995
BSc Geology, Manchester University	1997-1999
BSc Applied Geology, Exeter University (CSM)	1999-2003
BSc/MSci Geology, Imperial College	2000-2003
BSc/MSci Geology/Resource Geology, University of Birmingham	2003-2006
BSc Geology, National University of Ireland, Galway	2004-2007

Consultancies

Short periods spent on various consultancies for Mining, Mineral Exploration and Petroleum Companies involving applied geology, mineralogy and geochemistry	1974 - date
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Honorary Appointments

New Mexico Institute of Mining and Technology, USA, Visiting Professor, USA (4 month Sabbatical).	1986
Natural History Museum, London, Mineralogy Dept., Honorary Research Fellow	1994-1999

Other External appointments

Westfocus (Consortium of 7 SW London Universities)

Leader, Materials and Manufacturing Network 2004-2007

Summary of Main Research Outcomes Since 1980 25 PhD students supervised to successful completion
6 post doctoral research fellows supervised
8 international/national conferences convened
4 overseas workshops convened
17 Major external research grants as PI
70+ peer-reviewed major publications on topics listed below

Current research interests (see <http://www.kingston.ac.uk/ceesr/staff/Rankin.htm>)

Mineralization and fluid processes in crustal rocks with particular reference to magmatic and hydrothermal environments.

Abiogenic hydrocarbon resources in crystalline rocks.

Characterisation and Genesis of Gem deposits

Development of micro-methods of geochemical and mineralogical analysis and their application in the earth, environmental and archaeological sciences.

Summary of main teaching areas

Earth and Environmental Resource Management.
Mineral and Energy Resource Development and Exploration.
Mineral deposit geology,
Applied mineralogy and gemmology
Ore genesis

Some Recent Publications

BUEHN, B., SCHNEIDER, J., DULSKI, P. and **RANKIN, A.H.** 2003. Fluid–rock interaction and element fractionation during progressive migration of carbonatitic fluids, derived from small-scale trace element and Sr,Pb isotope distribution in hydrothermal fluorite. *Geochimica et Cosmochimica Acta v. 67, 4577-4505*

RANKIN A. H., GREENWOOD, J. and HARGREAVES, D. 2003. Chemical fingerprinting of some East African gem rubies by Laser Ablation ICP-MS. *J. Gemmology 28, 473-482.*

POTTER, J., **RANKIN, A H.**, TRELOAR, P.J. 2004. Abiogenic Fischer–Tropsch synthesis of hydrocarbons in alkaline igneous rocks; fluid inclusion, textural and isotopic evidence from the Lovozero complex, N.W. Russia. *Lithos, 75, p. 311-330*

KODERA, P., LEXA, J. **RANKIN, A. H.** and FALLICK, A.E. 2004. Fluid evolution in a subvolcanic granodiorite pluton related to Fe and Pb-Zn mineralization (Stiavnica-Hodrusa ore district, Slovakia. *Economic Geology 99, 1745-1770*

BEEKSOW, B., **RANKIN, A.H.**, MURPHY, P. and TRELOAR, P. 2005. Raman spectroscopy of the methane triple point in mixed CH₄-CO₂ fluid inclusions –natural low temperature calibration standards for microthermometric analysis. *Chemical Geology, 233, 5-15,*

KODERA, P., LEXA, J. **RANKIN, A. H.** and FALLICK, A.E. 2005. Fluid inclusion and stable isotope evidence for the genesis of Epithermal Au-mineralization at Rozalia mine, Banska Hodrusa, Slovakia. *Mineralium Deposita* **39**, 921-943.

RANKIN A.H. 2005. Carbonatite-associated Rare Metal deposits: Composition and evolution of ore-forming fluids – the fluid inclusion evidence.. In: Samson, I. and Linnen, R (eds). Rare Element Geochemistry and Ore Deposits. *Mineralog. Assoc. Canada Spec. Pub., Short course notes v.17*, 299-314).

BEESKOW, B., TRELOAR, P., **RANKIN, A.H.**, VENNEMANN, J and SPANGEBERG, T.W. 2006. A reassessment of models for hydrocarbon generation in the Khibiny nepheline syenite complex, Kola Peninsula, Russia.. *Lithos*.**91**, 1-18

RANKIN A.H. 2007. Fluid inclusion anomalies as exploration guides for granite-hosted Sn-W mineralization: prospects for the future. *Acta Petrologica Sinica* **23**, 3-14.

CHAPMAN, R., MERCER, I.F., **RANKIN, A/H.** and SPRAT, J. 2008 Thortveitite – a new gem material. *J. Gemmology*. (in press).

SAX, M., WALSH, J.M., FREESTONE, I., **RANKIN, A.H.** and MEEKS, N.D. 2008. The origin of two purportedly pre-Columbian Mexican crystal skulls. *J. Archaeological Sciences* (in press)