

CURRICULUM VITAE

1. PERSONAL DETAILS

NAME PLANT, Jane Ann

ADDRESSES Department of Earth Sciences and Engineering
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STATUS Married – three children

DATE OF BIRTH 1 February 1945

AGE 65

NATIONALITY British

3. ACADEMIC QUALIFICATIONS

1977 PhD, Geochemistry
1967 BSc Honours, Geology (special geochemistry), Class 1
1966 BSc, Geology (Ordinary with distinction)

2. EDUCATION AFTER SCHOOL

1973-1977 University of Leicester (Part-time PhD while working at the British Geological Survey (BGS))
1963-1967 University of Liverpool

4. SENIOR POSITIONS

4.1 Present position

2005- Anglo American Professor of Geochemistry, Imperial College, London

4.2 Former senior positions

2000 – 2005 Chief Scientist, British Geological Survey (BGS) (Natural Environment Research Council)
2001 -2005 Professor of Geochemistry (Department of Environmental Science & Technology (DEST) & the Department of Earth Sciences & Engineering (DESE)), Imperial College London

- 2000-2002 Chief Scientist, Head of Geoscience Resources and Facilities Directorate (GRDF).
- 1990-2000 Assistant Director (AD), Minerals, Environment & Geochemical Surveys Division (MEGSD).
- 1995-1997 Deputy to Director, BGS
- 1989-1990 Head, of Applied Geochemistry Group.
- 1988-1989 Sabbatical year to work in industry in North America. Vice President of Middleton Exploration (40 employees).
- 1983 Senior Principal Scientific Officer (Individual Merit Promotion). To research the geochemistry of the British Caledonides in relation to their geological and metallogenic evolution.

5. PRIZES, HONOURS AND AWARDS

- 2009 Coke Medal of the Geological Society
- 2006 Prize for best paper in the Transaction of the Institution of Mining and Metallurgy in 2005, awarded for Plant, J.A., Reeder, S., Smith, B. and Voulvoulis N. 2005. Chemicals in the environment: implications for global sustainability. Trans. Instn. Min. Metall. Vol. 114: B65-97.
- 2005 Fellowship of the Royal Society of Medicine
- 2005 Honorary Degree of Doctor of Science from University of Leicester for contribution to science
- 2005 Honorary Degree of Doctor of Science from Keele University for contribution to science and technology and in particular Earth Sciences in the UK
- 2005 Honorary Doctorate from Åbo Akademi, Finland
- 2003 Honorary Degree from Kingston University for services to Environment and Earth Sciences
- 2002 Fellowship of the Royal Society of Edinburgh
- 2001 Honorary Doctorate of the University of Exeter for services to Earth Sciences
- 2000 Fellowship of the Royal Society of Arts
- 1999 Freeman of the City of London
- 1999 Lord Lloyd of Kilgerran Award of the Foundation of Science & Technology for the application of science and technology for the benefit of society (previous winners include Tim Berners-Lee, inventor of the world wide web and Ian Wilmut, creator of Dolly the Sheep)
- 1997 CBE for Services to Earth Sciences
- 1997 Honorary Doctorate of the Open University (for academic and scholarly distinction)
- 1985 Murchison Fund of the Geological Society
- 1971 Consolidated Goldfields Premium Award
- 1967 Liverpool and Manchester Geological Society Prize

6. OTHER SENIOR APPOINTMENTS AND TEMPORARY POSTS

- 2003 Honorary Research Fellow of the Macaulay Institute
- 2003 United Kingdom Nirex Limited

7. PROFESSIONAL ASSOCIATIONS AND MEMBERSHIP OF LEARNED SOCIETIES

Water Bailiff and Member of the Worshipful Company of Water Conservators
Fellow of the Institution of Materials, Minerals and Mining (FIMMM)
Fellow of the Geological Society (FGS)
Fellow of the Association of Exploration Geochemists (AEG)
Fellow of the Royal Geographical Society (RGS)
Honorary Research Fellow of the Macaulay Institute, Aberdeen
Chartered Engineer (CEng)
Chartered Geologist (CGeol)
Member of the Mineralogical Society (MinSoc)
Member of the Society of Environmental Geochemistry & Health (SEGH)
Member of Society for Geology Applied to Mineral Deposits (SGA)
Member of the Irish Association of Exploration Geochemists (IAEG)

8. OTHER APPOINTMENTS AND TEMPORARY POSTS

2007-2003 Trustee of the Prince's Foundation for Integrated Health
2003 Technical Advisor to the International Atomic Energy Agency panel on Natural Background of Radioactivity associated with Uranium deposits.
2001 - Member of the Council of the Parliamentary and Scientific Committee
2001 - Member of the All-Party Parliamentary Group for Earth Sciences
2001 -2008 Chairman of the DEFRA Advisory Committee on Hazardous Substances
2001 -2008 Member of the Chemical Stakeholder Forum
2001 Tetelman Fellowship at Yale University
1999 -2005 Member of the Royal Commission for Environmental Pollution
1997-2003 Visiting Professor, University of Nottingham, School of Chemical, Environmental and Mining Engineering
1993 -2005 Visiting Professor, University of Liverpool, Department of Earth Sciences
1992-94 Distinguished lecturer for Association of Exploration Geochemists
1988-89 Vice President Middleton Exploration Services Inc, Canada and a Director of Glen Auden Resources plc (sabbatical year to work in industry)
1985-87 Visiting Professor of Economic Geology, University of Strathclyde
1985 Visiting Professor, University of Berne, Switzerland

9. COMMITTEES, LEARNED SOCIETIES, ACADEMIC ACTIVITIES AND SOME MAJOR INTERNATIONAL MEETINGS

9.1. Learned Societies

2003	Member of Institute of Materials, Minerals & Mining Council and Management Board
2002 -	Associate Editor, 'Episodes', the journal of the International Union of Geological Sciences
2001-2002	President, IMM
2000-2001	President Elect IMM
2000 -	Councillor, International Union of GeoSciences
1999 -	Vice President, IMM
1999 -	IMM Council Member (Vice Chairman, Library and Information sub-committee)
1998-2001	Member of Council, Minerals Industry Research Organisation
1998	Member, Awards Committee of the Geological Society
1997	Honorary Advisory Committee member, Society for Geology Applied to Ore Deposits
1997-2001	Associate Editor <i>Episodes</i> , the journal of the International Union of Geological Sciences
2004-	
1995	Member, Geological Society Working Group on Women Geologists
1992-1994	Member Council of the Institution of Mining and Metallurgy
1992-1994	Distinguished Lecturer of Association of Exploration Geochemistry, (world-wide remit to deliver lectures with funding from the Association)
1986-1988	Member, Council of the Geological Society
1985-1989	Associate Editor, Applied Geochemistry
1985-1987	Member, Promotions Board, Geological Society, London
1982-1999	Member, Editorial Board of the Institution of Mining and Metallurgy.
1982	Member, Mineralogical Society Geochemistry Sub-Committee
1981	Convenor of Mineralogical Society meeting on Uranium Mineralogy and the Geochemistry of Natural Radioelements in Crystalline Rocks
1980-1983	Member, Council of Mineralogical Society
1977-1982	Sub-editor for geochemistry; Mineralogical Abstracts
1977-1987	Member of the Geochemistry and Cosmochemistry Sub-Committee of the Royal Society
1974-1981	Treasurer, Geochemistry Group Committee of the Mineralogical Society

9.2. Government and National Committees other than as stated under 6

1999-2000	Member of Foresight panel on Energy and Natural Environment
1999	Member of OST/Research Assessment Exercise 2001 Earth & Environmental Sciences
1999	Member of Tomorrow Project – A 3-year programme of research and consultation about people's lives by 2020
1998-2001	Member of DTI LINK/TCS Board
1998 -	Member of Parliamentary & Scientific Committee
1998-2001	Associate of The Conservation Foundation (Chairman, David Bellamy)
1998-2003	Member of Science Panel, National Museums and Galleries of Wales
1997	Leader of NERC-MRC Environment & Health Initiative
1997 -2000	Member of NERC URGENT Thematic Programme Steering Committee
1997	Chairman, OST, Environment Means Business, Conference, London

- 1996-1999 Member of OST Natural Resources & Environment (NRE) Technology Foresight Panel
- 1996 Co-chairman of the OST NRE Sustainable Resource & Environment Management Sub-Group
- 1996 Member of OST Health & Life Sciences Technology Foresight Panel
- 1996 -1999 Member of Organising Committee, CBI UK Minerals '98 Event
- 1996 Member, Parliamentary Minerals Group
- 1996 Co-organiser and Panel Chairman, UK Minerals Industry Forum
- 1996 Contribution on Draft Statutory Guidance on Contaminated Land, London
- 1995 Member, NERC Environmental Diagnostics sub-committee
- 1994-2000 Member, CBI Minerals Committee
- 1993-1996 Member, DTI Mineral Resources Investigation Review Committee
- 1987 Member, NERC Deep Drilling Working Party
- 1987 Member, NERC Chemistry Review Panel
- 1980-1982 Member of the Royal Society Ordnance Survey Scientific Committee.
- 1979-1982 Member, Royal Society working group on Environmental Geochemistry and Health.

9.3. Some other academic and international activities

- 2008 Convened and delivered keynote lectures at the 2008 International Geological Congress in Oslo sessions on Geomedicine and Environmental Geochemistry
- 2007 Chaired IMM meeting on Co2 disposal, London
- 2005 Co-chairman, International Symposium on Uranium Production and Raw Materials for the Nuclear Fuel Cycle - Supply and Demand, Economics, the Environment and Energy security, IAEA-CN-128, Vienna. Topic 3, Session 1.
- 2004 Member of Scientific and Management Audit of the National Environmental Council Centre for Ecology and Hydrology
- 2004 Co-Convenor of two Geochemistry Sessions, International Geological Conference, Florence
- 2003 External PhD examiner, Bristol University
- 2003 External Examiner MSc course on Environmental Sciences, Lancaster University
- 2000-2003 External PhD examiner, University of Surrey
- 2000-2002 Member of Advisory Board of The Science in the Total Environment (STOTEN)
- 2000 Member of committee reviewing Australian captive research centre on landscape evolution
- 2000 Leader of interpretation team for FOREGS geochemical mapping programme
- 2000 Member of Editorial Board for the Journal of Applied Earth Observation and Geoinformation
- 1999 - Member of editorial board of International Journal of Applied Earth Observation and Geoinformation

- 1999-2003 Reviewer / panel member on EU 5th Framework Programme
- 1999 Member of Appointment Committee for Professor of Earth Sciences, University of Trondheim, Norway
- 1999 Member of UNESCO International Union of GeoScientists (IUGS) Strategy Group
- 1999 Member of international panel of experts to evaluate report on Kakadu National Park, on behalf of the International Council of Science
- 1998 Member of organising committee of 2nd Conference on Environmental Geochemical Baseline Mapping in Europe, September 1999, Vilnius
- 1998-2002 External Examiner, Lancaster University
- 1998 - Member of Advisory Panel for Centre for Earth & Environmental Science Research, Kingston University
- 1997 Member of Individual Merit Panel for scientist of Norwegian Geological Survey
- 1997 External Examiner, PhD, Wageningen, Holland
- 1997 External Examiner, MSc course, University of Cape Town
- 1996 - Honorary President of the Environment Society, Nottingham University
- 1996 Member of appointment panel for Professor of Economic Geology, Trondheim, Norway
- 1996 External examiner, University of Helsinki
- 1996 Leader of the Scientific Committee for, Environmental Geochemical Baseline Mapping in Europe, Conference, Slovakia
- 1996 Co-convenor, AEG International Workshop on Legislative uses of Geochemical Baseline Data for Sustainable Development, Norway
- 1995-1998 External examiner, University of Leicester
- 1995 Chairman of session on sediment-hosted ore deposits, international SGA meeting, Prague
- 1995 Advisor on Geochemistry Course, Hull University
- 1995 -2004 Co-Leader, International Geological Correlation Programme (IGCP) Project 360, Global Geochemical Baselines; now International Union Geosciences/International Association Geochemistry and Cosmochemistry Continental Geochemical Baselines Programme (adopted by UN committee on land resources)
- 1995-1997 Chairman, Forum of European Geological Surveys (FOREGS) Geochemistry Task Group
- 1994-1997 Referee of proposals on Training and Mobility for Researchers, EU programmes (1994-1998)
- 1994 Member of panel of referees of European Science Foundation concerned with economic geology
- 1994 Co-chairman (with head of London Metal Exchange), of Mining & Metal Agency of Japan (mineral resources section of MITI, Japan) MMAJ Forum'94 on the global minerals market, London
- 1991-1994 External Examiner, MSc Course, University of Leicester
- 1991 Co-convenor with Professor Bjorklund, Finland, of session on Environmental Geochemistry and Health, International Symposium on Environmental Geochemistry, Uppsala
- 1989 Ontario Geological Survey: member of review team on the Minerals and Geochemistry Programmes

- 1989-1994 Co-ordinator of EU countries activities for IGCP 259 (World Geochemical Atlas)
- 1989-1995 Member of Western European Geological Surveys (WEGS) programme to prepare Geochemical Maps of Western Europe
- 1988-1993 Member of Steering Group of IGCP 259 (World Geochemical Atlas)
- 1988-1993 Member of Field Methods Committee, IGCP 259
- 1987 Co-Chairman, Anomaly Selection Criteria Workshop at 12th International Geochemical Exploration Symposium, Orleans, France
- 1985 Chairman. Regional geochemistry session at 11th International Geochemical Exploration Symposium, Toronto, Canada
- 1985 Co-convenor, Royal Society Discussion Meeting on Environmental Geochemistry
- 1983 United Kingdom representative on Geochemical Exploration Working Group of International Association of Geochemistry and Cosmochemistry
- 1982 Chairman, Litho geochemistry Session, 9th International Geochemical Exploration Symposium, Saskatchewan, Canada
- 1982 Consultant to Finnish Geological Survey with Professor W S Fyfe FRS on Interpretation of Geochemical Data
- 1974-1978 Member of International Working Group on Global Exchange and Processing of Information (GEPIC) (IGCP project No. 154. National correspondent for 'GEPIC' and 'IGCP' project No. 154

10. INVITED LECTURES/LECTURE SERIES/PRESENTATIONS

British and overseas universities and research institutes including: the Hatfield Lecture, Sheffield; the Horstmann Lecture, Bristol University; the Goldschmidt lecture, Trondheim, Norway; the Norwegian Geological Survey; the University of Turku and the University of Helsinki, Finland; Geological Survey of Denmark & Greenland, Copenhagen; the Free University and the Technical University, Berlin; the University of the West Indies, Jamaica; University College Dublin and University College Galway; the Universities of Berne and Zurich, Switzerland; the Geological Survey of Canada; the Ontario Geological Survey, Canada; the United States Geological Survey; the Geoinstitute, Belgrade; the Hahn Meitner Institute, Berlin; Eidgenossische Technische Hochschule (ETH), Zurich; the University of Aveiro, Portugal; Commonwealth, Scientific & Industrial Research Organisation, Sydney and Perth; Bureau de Recherches Geologiques et Minieres, France; BGR, Hannover; Institute of Geology, Chinese Academy of Sciences, Beijing; Beijing University; Geological Surveys of Zimbabwe; Geological Survey of South Africa; Cape Town University; KIGAM, Taejon, Korea; Seoul National University, Korea; University of Perth, Australia; University of Toronto; Wyndhoek University, Namibia;

In addition, more than forty lectures were presented internationally as part of the AEG Distinguished Lectureship.

Imperial College (many), University College, Bedford and Royal Holloway New College and Chelsea College, London, Liverpool (many), Oxford,

Oxford Brookes, Cambridge, Edinburgh, Birmingham, Bristol, Hull, Leicester (several), Nottingham (several) and Leeds Universities; the Atomic Energy Research Establishment (AERE), Harwell; select committees of the House of Lords; the Prince of Wales Committee; learned societies including the Royal Society of Edinburgh and the Royal Society; Royal Museum of Scotland, Edinburgh; Macaulay Land Use Research Institute, Scotland; National Radiological Protection Board, Harwell.

Keynote Lecture, International meeting on the environment, Hong Kong; Invited keynote paper on geochemistry of gold deposits, AEG International Symposium on Geochemical Exploration, Prague; Keynote address on Regional Geochemical Exploration, Exploration '87 Symposium, Toronto, Canada (Chair of Session); Keynote address on the geochemical classification of metalliferous granites, SGA-EEC Meeting, Aachen, West Germany.

Recent invited lectures include: [Shell London Lecture, Geological Society of London, 2012](#); two keynote lectures at the International Geological Congress, Oslo 2008, the distinguished lecture of the Royal Society of Chemistry (2005), the Tercentennial Tetelman Lecture (Yale University 2001); Ireland, Moscow and Irkutsk; Turku, Finland; Vail, Colorado; Oxford University; Toronto; Potsdam, Germany; and Kazakhstan; Morocco (representatives from most government departments), Parliamentary & Science Committee.

Presentations at Meetings - 2009

William Smith Meeting 2009 – London, England, 2009, Co-Convenor

- J. Plant, V. Ragnarsdottir, E. Valsami-Jones, 2009, The anthropocene and chemicals in the environment.

19th Annual VM Goldschmidt Conference, Davos, Switzerland, 21 Jun 2009

- Misra SK, Dybowska AD, Berhanu D, Boccaccini AR, Luoma SN, Plant JA, Valsami-Jones E, 2009, The solubility and reactivity of silica nanoparticles.

Geological Society - Anglo American Environmental Geochemistry Poster Competition, London, England, October 5, 2009, Hosted by Baroness Jenny Tonge

- Christian Ihlenfeld, Christopher Oates, Jane Plant, 2009, Anglo American, Global Mining, Sustainable Environmental Performance.

Oxford Workshop : Safe Storage and Disposal of Redundant Mercury, October 14th 2009

- Chair on behalf of Oxford University and UK DEFRA, Professor Jane Plant

11. OTHER LINKS WITH USER COMMUNITY

Professional and trade associations including the Institute of Quarrying, Minerals Industry Research Organisation; British Association for Construction Minerals Industries; Mining Association of Great Britain; Soil and Groundwater Technology Association and the Chemical Industries Association; Royal Institution of Chartered Surveyors; Eurometaux, International Atomic Energy Agency, relevant sections of DTI, DEFRA, MoD, DoH; many staff of UK, International and European-based companies, universities and geological survey organisations.

12 RECENT PHD PROJECTS SUPERVISED

Rob Lewis

PhD thesis: Low Temperature Formation of Ferric Arsenate.

Rebecca McKinlay

PhD thesis: Risk Assessment of Endocrine Disrupting Pesticides in Biological Systems.

Jilang Pan

PhD thesis: Environmental risk assessment of inorganic chemicals in mining environment.

Claudia Columbo

The Speciation and Bioavailability of Platinum, Palladium and Rhodium in the Environment

Current PhD Students

Carmina Jorquera – Start date: 2008

Geochemical Baselines of stream sediments and waters for environmental studies. Anglo American Plc mining districts in Central Chile as a case study

Khareen Singh – Start date: 2008

Mine Chemical Risk

Aisha Gloudon – Start date: 2009

Geochemical baseline using rocks and soils for environmental studies. AAPlc mining areas in the Los Bronces and Collahuasi Districts, Chile as a case study

13. PUBLIC UNDERSTANDING OF SCIENCE

Internet Conference on behalf of OST; lecture for SET '97 week; two presentations to the British Association for the Advancement of Science; two television programmes for the Open University; articles/reference in magazines and newspapers including RTZ in-house magazine; Times Higher Educational Supplement; Daily Telegraph; Times; BBC and BBC World Service. Lectures averaging 50 a year to amateur societies and adult education groups.