

## Curriculum Vitae

### Professor Alan G. Jones, P.Geo., MRIA, MAE

Business positions: President and Managing Director  
Complete MT Solutions  
Email: [alan.jones@complete-mt-solutions.com](mailto:alan.jones@complete-mt-solutions.com)  
Email2: [complete.mt.solutions@gmail.com](mailto:complete.mt.solutions@gmail.com)  
Web page: <http://complete-mt-solutions.com/>

Also: President and Managing Director  
ManoTick GeoSolutions  
Email: [alan.jones@manotick-geosolutions.com](mailto:alan.jones@manotick-geosolutions.com)  
Email2: [manotick.geosolutions@gmail.com](mailto:manotick.geosolutions@gmail.com)  
Web page: <http://manotick-geosolutions.com/>

Home address: 5345 McLean Crescent  
Manotick (Ottawa), Ontario, Canada, K4M 1E3  
Email: [alan.jones.geophysics@gmail.com](mailto:alan.jones.geophysics@gmail.com)  
Telephone - business: +1-613-491-2888  
Telephone - personal: +1-613-692-2854

Academic positions: Senior Professor Emeritus, Dublin Institute for Advanced Studies  
Specially-Appointed Professor, China University of Geosciences  
Adjunct Professor, University of Western Australia  
Adjunct Professor, Macquarie University

Accreditations: Professional Geoscientist, Association of Professional Geoscientists of Ontario (APGO: <https://www.apgo.net>), #2790  
Member, Royal Irish Academy (elected 2010) (<https://www.ria.ie/>)  
Member, Academia Europaea (elected 2010) (<http://www.acadeuro.org/>)

#### EDUCATION

1969 - 1972	B.Sc. Honours (Physics)	Dept. of Physics, U. Nottingham
1972 - 1973	M.Sc. (Applied Geophysics)	Dept. of Geology, U. Birmingham
1973 - 1977	Ph.D. (Geophysics)	Dept. of Geophysics, U. Edinburgh

#### ACADEMIC EMPLOYMENT

##### Dublin Institute for Advanced Studies

Dublin, Ireland	Feb. 2015 – Present	Senior Professor Emeritus
	May 2003 – Jan. 2015	Senior Professor, Head of Geophysics
	Nov. 2005 – Nov. 2007	Director, School of Cosmic Physics

##### Geological Survey of Canada

Ottawa, Ontario, Canada	Jan. 1984 – March 1991	Research Scientist
	April 1991 – April 2003	Senior Research Scientist

<b>University of Toronto</b> Toronto, Ontario	Jan. 1982 – Dec. 1983	Research Associate
<b>Geological Survey of Sweden</b> Uppsala, Sweden	August – Dec. 1981	Consultant Geophysicist
<b>University of Münster</b> Münster, Germany	October 1977 – June 1981	Scientific Associate

## HONOURARY POSITIONS

### Present:

<b>University of Western Australia</b> Perth, WA, Australia	Jan. 2015 – Present	Adjunct Professor
<b>Macquarie University</b> Sydney, NSW, Australia	Jan. 2015 – Present	Adjunct Professor

### Past:

<b>Stanford University</b> Stanford, CA, USA	Jan. – March, 2016	Blaustein Visiting Professor
<b>National University of Ireland, Galway</b> Galway, Ireland.	Jan. 2004 – Dec. 2009	Adjunct Professor
<b>Geological Survey of Canada</b> Ottawa, Ontario, Canada.	July 2005 – August 2013	Visiting Scientist
<b>University of the Witwatersrand</b> Johannesburg, South Africa	July 2006 – July 2011	Honorary Professor
<b>Leicester University</b> Leicester, U.K.	June 2005 – June 2011	Visiting Professor
<b>Trinity College, Dublin</b> Dublin, Ireland	Jan. 2004 – July 2009	Visiting Professor
<b>Syracuse University</b> Syracuse, New York.	July 1996 – Dec. 2004	Adjunct Professor
<b>Queen's University</b> Kingston, Ontario	July 1996 – Dec. 2003	Adjunct Professor
<b>Carleton University</b> Ottawa, Ontario	July 1999 – Dec. 2002	Adjunct Professor

## OTHER ACADEMIC ROLES

Irish Geoscience Graduate Programme <a href="http://www.iggp.ie">www.iggp.ie</a>	August 2008 – Jan. 2015	Founder and Director
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## MAJOR RECENT AWARDS and HONOURS

- 2017: Accredited as a Professional Geoscientist, *Association of Professional Geoscientists of Ontario*
- 2016: Appointed a Life Affiliate Member of the *Geological Society of South Africa*
- 2016: Awarded a Blaustein Visiting Professorship, *Stanford University*, January-March, 2016.
- 2010: Elected as an Ordinary Member of the *Royal Irish Academy*.
- 2009: Elected as a Member of *Academia Europaea*.
- 2006: Awarded the J. Tuzo Wilson medal of the *Canadian Geophysical Union*.

**MAIN RESEARCH ACTIVITIES****Refer to publications as numbered on:**<http://complete-mt-solutions.com/users/ajones/papers/publications.html>***Physics of Induction:***

Publications: 61, 73, 77, 81, 83, 96, 105, 108, 110, 113

***Mantle Studies:*** Slave, SAMTEX

Publications: 55, 75, 87, 88, 89, 97, 109, 116, 121, 122, 126, 131

***Continental Studies:*** LITHOPROBE, SEA, INDEPTH, SAMTEX, ISLE-MT, TopoMed, IRETherm, WAXI

Publications: 59, 60, 62, 63, 65, 66, 70, 71, 72, 74, 76, 79, 82, 85, 86, 90, 91, 92, 93, 97, 98, 99, 101, 102, 103, 104, 106, 107, 109, 119, 120, 125, 127, 128, 129, 131, 132, 136, 138, 142, 143, 144, 145, 150, 151, 153, 154, 157, 159, 160, 161, 164, 168, 169, 172, 173, 174, 175, 176, 178, 183

***Near-surface Studies:*** EMAP, AMT, UTEM, EXTECH-III, AMT characterization, volcano characterization, Geothermal energy, CO<sub>2</sub> sequestration

Publications: 84, 95, 110, 124, 149, 163, 165, 170, 177, 180, 181

***Mineral Exploration:***

Publications: 84, 95, A2000-1

***MT Data Processing and Analysis:*** AMT, MT, Distortion

Publications: 64, 67, 78, 96, 113, 117, 135, 140, 162, 185, 187

***MT Modelling and Inversion:***

Publications: 133, 148, 152, 155, 156, 170, 177, 182

***Joint Inversion/Integrated Modelling:***

Publications: 114, 123, 130, 146, 147, 167, 171, 184

***Rock Properties:*** electrical, seismic, diffusion

Publications: 58, 64, 68, 94, 100, 116, 118, 132, 137, 145, 158, 166, 179

***Space Weather:***

Publications: 186

**SIGNIFICANT ACADEMIC COLLABORATORS IN PAST FIVE YEARS**

Dr. Juan Carlos Afonso, Prof. W. Griffin, Prof. S. O'Reilly (Macquarie University, Sydney, Australia)

Dr. Javier Fullea (CSIC, Madrid, Spain)

Prof. Juanjo Ledo, Prof. Pilar Queralt (Barcelona University)

Dr. Rob Evans, Dr. Alan Chave (Woods Hole Oceanographic Institution)

Prof. Wei Wenbo, Dr. Gaofeng Ye, Dr. Jin Sheng, Hao Dong (China University of Geosciences, Beijing)

Dr. Max Moorkamp, Dr. Stewart Fishwick (University of Leicester, UK)

Prof. Stephen Daly, Dr. Mike Long (UCD, Ireland)

Dr. Colin Brown (National University of Ireland, Galway)

Prof. David Eaton (University of Calgary, Canada)

Prof. Ian Ferguson (University of Manitoba)

Prof. Martyn Unsworth (University of Alberta, Edmonton)

**INDUSTRY COLLABORATION**

**Diamond-exploration activities:** Anglo American Co. Ltd., BHP Billiton Ltd., De Beers Group Exploration Inc., Kennecott Exploration Ltd., Rio Tinto Mineral Exploration Ltd.

**Hydrocarbon-exploration related:** Tullow Oil

**Mineral-exploration activities:** Falconbridge Ltd., Gallery Resources Ltd., Geosystem Canada Ltd./Geosystem Srl. (Milan), INCO Ltd., Phoenix Geophysics Ltd., Teck, Boliden

**Other activities:** ABEM, Gaelectric Developments Ltd., GT Energy

**TRAINING RESPONSIBILITIES****Post-Doctoral Fellows****Past:**

<b>Name</b>	<b>Years</b>	<b>Institution</b>	<b>Research Topic</b>
Juanjo Ledo	1996-2000	Geological Survey of Canada	Lithoprobe Southern Cordillera and SNORCLE transects
Xavier Garcia	1998-2000	Geological Survey of Canada	Mining-scale MT studies
C.K. Rao	2004-2006	DIAS	Ireland MT work
Dmitry Avdeev	2004-2006	DIAS	High-performance computation of electromagnetic problems using the CosmoGrid infrastructure
Xavier Garcia	2004-2008	DIAS	Southern African MT Experiment (SAMTEX) Marine EM
Mark Muller	2007-2009 2009-2013	DIAS	Southern African MT Experiment (SAMTEX) Irish Geothermal Assessment (IRETHERM)
Estelle Roux	2008-2010	DIAS	Joint inversion of MT and teleseismic data
Javier Fullera	2009-2011 2001-2012	DIAS	TopoMed: Integrating geophysical observations & physical properties Irish Geothermal Assessment (IRETHERM)
Marion Miensopust	2010-2012	DIAS	Southern African MT Experiment (SAMTEX) Volcano studies
Florian Le Pape	2013-2015	DIAS	WAXI: West African Exploration Initiative
Eric Mandolesi	2013-2015	DIAS	SIMER: Simulation of electromagnetic response of real rocks
Jan Vozar	2009-2011 2011-2016	DIAS	Tibet INDEPTH MT data Irish Geothermal Assessment (IRETHERM)
Joan Campanyà	2013-2016	DIAS	Irish Geothermal Assessment (IRETHERM) Irish Carbon Sequestration Assessment (IRECCSEM)
Xenia Ogaya	2014-2016	DIAS	Irish Carbon Sequestration Assessment (IRECCSEM)
Voker Rath	2014-2017	DIAS	Irish Geothermal Assessment (IRETHERM) Irish Carbon Sequestration Assessment (IRECCSEM)

			Paleoclimate studies
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**Graduate students****Past:**

Name	Degree	Year	Institution	Research Topic
Gary McNeice	M.Sc.	1998	Memorial University of Newfoundland	Lithoprobe East MT work and extended tensor decomposition
Kurt Solon	M.Sc.	2001	Syracuse University	Tibet INDEPTH MT data
Jessica Spratt	M.Sc.	2003	Syracuse University	Tibet INDEPTH MT data
Shane Evans	M.Sc.	2003	Queen's University, Kingston, Canada	Northern margin of the Paleoproterozoic Trans-Hudson Orogen as expressed in central Baffin Island
Max Moorkamp	Ph.D.	2007	NUI Galway	Joint inversion of MT and teleseismic data
Mark Hamilton	Ph.D.	2008	University of the Witwatersrand	Southern African MT Experiment (SAMTEX)
Anna Avdeeva	Ph.D.	2008	NUI Galway	High-performance computation of electromagnetic problems using the CosmoGrid infrastructure
Marion Miensopust	Ph.D.	2010	NUI Galway	Southern African MT Experiment (SAMTEX)
Jan Schmoltdt	Ph.D.	2011	NUI Galway	Spain, PICASSO project
Markus Loewer	M.Sc.	2011	ETH-Aachen-Delft	Geothermal potential of Loch Neigh, Northern Ireland
Sara Sihelnik	M.Sc.	2011	ETH-Aachen-Delft	Imaging of halite deposits in Larne, Northern Ireland
Florian Le Pape	Ph.D.	2012	NUI Galway	Tibet INDEPTH MT data
Pieter-Ewald Share	M.Sc.	2013	University of the Witwatersrand	Southern African MT Experiment (SAMTEX)
Eric Mandolesi	Ph.D.	2013	NUI Galway	Joint inversion of MT and teleseismic data
Xenia Ogaya	Ph.D.	2014	U Barcelona	Hontomin CCS project
Duygu Kiyani	Ph.D.	2015	NUI Galway	Morocco, TopoMed
David Khoza	Ph.D.	2015	University of the Witwatersrand	Southern African MT Experiment (SAMTEX)
Christina Walter	Ph.D.	2016	U Auckland	Geothermal energy of Taupo Volcanic Zone
Sarah Blake	Ph.D.	2016	NUI Galway	Irish Geothermal Assessment (IRETHERM)

**Current:**

Name	Degree	Year	Institution	Research Topic
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Thomas Hoskin	Ph.D.	2015	U Western Australia	Imaging faults
Robert Delhaye	Ph.D.	2016	NUI Galway	Irish Geothermal Assessment (IRETHERM)
Sean Blake	Ph.D.	2017	TCD	Geomagnetically Induced Currents
Lachlan Hennessy	Ph.D.	2017	RMIT, Australia	AMT source fields

## PROFESSIONAL ACTIVITIES

### Ireland

- 2014 – pres. Member, RIA Geosciences and Geographical Sciences Committee  
 2005 – 2015 Member, Committee of Heads of Irish Geoscience Institutes (CHIGI, [www.chigi.ie](http://www.chigi.ie))  
 2008 – 2009: Chair, CHIGI  
 2009 – 2014 Member, RIA Geosciences Committee  
 2006 – 2008 Member, Irish National Committee for the International Year of Planet Earth  
 2004 – 2015 Member, Consultative Committee to the Geological Survey of Ireland

### European Geosciences Union

- 2013 – 2016 Member, Geodynamics Division Committee  
 2008 – 2013 Member, Seismology Division Committee

### International Association of Geomagnetism and Aeronomy

- 1999 – 2003 Co-Chair, Division 1, Internal Magnetic Fields  
 Past Chair, Working Group I.2, Electromagnetic Induction in the Earth  
 1995 – pres. Webmaster, MTNet: <http://www.mtnet.info>  
 1995 – 1999 Chair, Working Group I.2, Electromagnetic Induction in the Earth  
 1991 – 1997 Member, IAGA Committee for Data Analysis Techniques  
 1991 – 1995 Co-Chair, Working Group I.2, Electromagnetic Induction in the Earth  
 1987 – 1991 Committee Member, Working Group I.2, Electromagnetic Induction in the Earth

### Chief Delegate Responsibilities

- 2015 Chief Delegate for Ireland to IUGG at Prague IUGG General Assembly  
 2015 Chief Delegate for Ireland to IAGA at Prague IAGA General Assembly  
 2013 Chief Delegate for Ireland to IAGA at Merida IAGA Scientific Assembly  
 2012 Chief Delegate for Ireland to IUGS at Brisbane IGC  
 2010 Chief Delegate for Ireland to IASPEI at Cape Town IASPEI Scientific Assembly  
 2009 Chief Delegate for Ireland to IAGA at Sopron IAGA Scientific Assembly  
 2009 – pres. National Correspondent for Ireland to IAGA  
 2009 Chief Delegate for Ireland to IASPEI at Cape Town IASPEI Scientific Assembly  
 2003 Chief Delegate for Canada to IAGA at Sapporo IUGG General Assembly  
 1999 Chief Delegate for Canada to IAGA at Birmingham IUGG General Assembly  
 1997 Chief Delegate for Canada to IAGA at Uppsala IAGA Scientific Assembly  
 1995 Chief Delegate for Canada to IAGA at Boulder IUGG General Assembly  
 1993 Chief Delegate for Canada to IAGA at Buenos Aires IAGA Scientific Assembly  
 1992 – 1999 Member, Canadian National Committee to the IUGG

### Lithoprobe, Canada

- 1997 – 2005 Member, Pan-Lithoprobe subcommittee  
 1993 – 1996 Chair, Scientific Committee  
 Member, Board of Directors  
 1989 – 1993 Chair, Electromagnetism and Other Geophysics subcommittee  
 Member, Scientific Committee  
 1987 – 1989 Member, Electromagnetism and Other Geophysics subcommittee

### **Geological Society of America**

- 2001 – 2003 Past-Chair, Geophysics Division  
 2000 – 2001 Chair, Geophysics Division  
 1999 – 2000 First Vice-Chair, Geophysics Division  
 1998 – 1999 Second Vice-Chair, Geophysics Division

### **U.S. National Science Foundation**

- 1993 – 1998 Member, Continental Dynamics Panel  
 1990 Member, Committee of Visitors review of the Geophysics and Seismology small grants programs

### **Others**

- 2007 – 2012 Member and Irish representative, Life, Earth and Environmental Sciences Committee, European Science Foundation  
 2004 – 2005 Appointed to the Natural Sciences and Engineering Research Council of Canada's Grant Selection Committee 08 for Solid Earth Science  
 2000 Expert Advisor, U.S. Dept. of Energy workshop on *Subsurface Imaging*  
 1999 Expert Advisor, Academy of Finland  
 1993 Member, U.S. Dept. of Energy panel to assess programs funded by the U.S. Department of Energy during the period 1991-1993  
 1992 Member, Ad-Hoc External Advisory Appointments Committee, Wood's Hole Oceanographic Institution, Boston, Mass.  
 1990 Member, six-person international committee which reviewed geophysics at Swedish academic institutions over the decade 1981 - 1990. This committee is struck every ten years.

### **Editorial Duties**

- 2016 – pres. Associate Editor, *Surveys in Geophysics*  
 2010 – 2016 Associate Editor, special theme issue on the Lithosphere-Asthenosphere Boundary, *Geochemistry, Geophysics, Geosystems*  
 2005 – 2006 Guest Editor (with D. Eaton), *Physics of the Earth and Planetary Interiors* Special Issue devoted to Continental Anisotropy.  
 2003 – 2008 Associate Editor, *Journal of Geophysical Research – Solid Earth*.  
 2003 – 2004 Guest Editor (with Y. Ogawa and A. Junge), *Physics of the Earth and Planetary Interiors* Special Issue devoted to the 2002 Santa Fe EM Induction Workshop, vol. 150, pp. 1-237, 2005.  
 2002 – 2003 Guest Editor, *Lithos* Special Issue devoted to the proceedings of the Slave-Kaapvaal workshop.  
 1995 – 2001 Editorial Board Member, *GEOLOGY*.  
 1997 – pres. Overseas Editor, *Earth, Planets and Space*.  
 1991 – 1997 Associate Editor, *Journal of Geophysical Research – Solid Earth*.  
 1996 – 1997 Guest Editor (with Prof. Volker Haak) of a Special Section of *Journal of Geophysical Research – Solid Earth* devoted to the results of the German KTB

- drilling program.
- 1995 – 1996 Guest Editor, *Journal of Geomagnetism and Geoelectricity* Special Issue Magnetotelluric Data Interpretation Workshop - II, published in early 1997.
- 1992 – 1993 Guest Editor; *Physics of the Earth and Planetary Interiors* Special Issue The V.R.S. Hutton Symposium: Electromagnetic Studies of the Continents, vol. 81, nos. 1-4, December 1993.
- 1992 – 1993 Guest Editor; *Journal of Geomagnetism and Geoelectricity* Special Issue Electromagnetic Induction in the Earth, vol. 45, no. 9, 1993.
- 1989 – 1990 Guest Editor; *Physics of the Earth and Planetary Interiors* Special Issue Electromagnetic Induction Studies, vol. 60, nos. 1-3, April 1990.

### Theses Examined

- 2006 Ph.D. thesis, Ms. Anna Marti (University of Barcelona)
- 1998 M.Sc. thesis, Mr. Kevin Stevens (University of Manitoba)
- 1992 Ph.D. thesis, Mr. Weizhong Wang (Brown University)
- 1992 Ph.D. thesis, Mr. Guy Marquis (University of Victoria)

### Meetings and Sessions Organised/Convened/Chaired

- 2017 Co-convenor, Session on ***Geophysical comparison of continental cratons and implications for mineral systems and exploration***, to be held at IAPSO-IAMAS-IAGA Joint Assembly, Cape Town, 27 August – 1 September
- 2016 Principle Organizer, Third Workshop on the theme ***Three-Dimensional Inversion of Magnetotelluric Data***, held in Bari, Italy.
- 2014 Co-Convenor, Session on ***Frontiers in Electromagnetic Methods***, held at Fall AGU, San Francisco, 15-19 December.
- 2014 Co-Convenor, Session on ***Volatiles and Earth's Mantle Processes***, held at Fall AGU, San Francisco, 15-19 December.
- 2014 Member, panel of experts, 1st Workshop for Early and Mid-Career Geoscientists, Macquarie University, December 1-2.
- 2014 Co-Convenor, Session on ***Integrated Geophysical Observations and Modelling in Geodynamics***, held at European Geoscientific Union meeting, Vienna, Austria, 27 April – 02 May.
- 2014 Co-Convenor, Session on ***Geodynamics of continental crust and upper mantle***, held at European Geoscientific Union meeting, Vienna, Austria, 27 April – 02 May.
- 2013 Co-Convenor, Session on ***Constraints and Uncertainties on the Composition and Structure of the Earth's Lithosphere, Upper mantle, and Transition Zone from Multidisciplinary Studies*** Fall AGU, San Francisco, 9-13 December.
- 2012 Co-Convenor, Session on ***Geophysical phenomena of volcanoes***, held at European Geoscientific Union meeting, Vienna, Austria, 23-27 April.
- 2011 Co-organizer and host, ***ThermoDynaMix-III Workshop***, Dublin, 2-4 November. (<http://www.dias.ie/ThermoDynaMixIII>)
- 2011 Co-Convenor, Session on ***The Lithosphere-Asthenosphere Boundary (LAB) dilemma***, held at European Geoscientific Union meeting, Vienna, Austria, 4-8 April.
- 2009 Convenor, Session on ***Continental Lithospheric formation and deformation***, held at IAGA 11th Scientific Assembly, Sopron, Hungary, 23-30 August.
- 2009 Lead Organizer, ESF-sponsored Exploratory workshop ***DefLAB: Defining the Lithosphere-Asthenosphere Boundary***, held in Dublin, 3-5 June.
- 2009 Co-Convenor (with Dr. Irina Artemieva, Univ. Copenhagen), Session on ***Multidisciplinary***



- Studies of the Continental Lithosphere*, held at European Geoscientific Union meeting, Vienna, 19-24 April.
- 2008 Convenor, Session on *Multidisciplinary Studies of the Continental Lithosphere*, held at EGU2008, Vienna, 13-18 April.
- 2008 Principle Organizer, Second Annual St. Patrick's Geophysical Workshop on the theme *Three-Dimensional Inversion of Magnetotelluric Data*, DIAS, Dublin, March 12-14.
- 2007 Principle Organizer, First Annual St. Patrick's Geophysical Workshop on the theme *Joint Inversion of Geophysical Data*, DIAS, Dublin, March 14-16.
- 2004 Organizer, *SAMTEX (Southern African MagnetoTelluric Experiment) MT Data Modelling Training Workshop*, held in Dublin, 14-27 March.
- 2004 Organizer, *SAMTEX (Southern African MagnetoTelluric Experiment) Processing Training Workshop*, held in Dublin, March 2-12.
- 2004 Principle Convenor, Keynote General Symposium on *Structure and evolution of continental lithosphere*, held at the 32<sup>nd</sup> International Geological Congress, Florence, Italy, 20-28 August.
- 2003 Co-organizer. Pan-Lithoprobe workshop on *Orogenic Comparison* to be held in Merrickville, February 19-23, 2003.
- 2002 Member, Program Committee, 16th Workshop on Electromagnetic Induction in the Earth, held in Santa Fe, New Mexico, USA, June 16-22, 2002.
- 2001 Principle Organizer, Slave-Kaapvaal Workshop, held in Merrickville, Ontario, September 5-9, 2001.
- 2000 Member, Program Committee, 15th Workshop on Electromagnetic Induction in the Earth, held in Cabo Frio, August 16 - 23, 2000.
- 2000 Co-Organizer, Pan-Lithoprobe workshop on *Where Crust meets Mantle* held in Banff, May 23-25, 2000.
- 1999 Convenor, Symposium on *Characteristics of the Lithosphere-Asthenosphere Boundary* at 22<sup>nd</sup> General Assembly of the International Union of Geodesy and Geophysics, Birmingham, England, July 19 - 30, 1999
- 1998 Principle Convenor, Keynote symposium on *Deep Crustal Processes* at 1998 meeting of the Geological Society of America, Toronto, Canada, October/November, 1998
- 1998 Chairman, Program Committee, 14th Workshop on Electromagnetic Induction in the Earth, Sinaia, Romania, August 16 - 23, 1998.
- 1997 Convenor, Session on *Electromagnetic Induction Studies* at the 8th Scientific Assembly of the International Association of Geomagnetism and Aeronomy, Buenos Aires, Argentina, 1997
- 1996 Chairman, Program Committee, 13th Workshop on Electromagnetic Induction in the Earth, Hokkaido, Japan, July 12 - 18, 1996.
- 1996 Chairman, Session on *EM methods: new techniques and advances* at Society of Exploration Geophysicists Annual General Meeting.
- 1995 Convenor, Session on *Multidimensional Currents over Multidimensional Earth Structures: Theory and Observations* and Chairman, Symposium on *Lithospheric Anisotropy: Observations and Interpretation* at the 21st General Assembly of the International Union of Geodesy and Geophysics, Boulder, U.S.A., July, 1995.
- 1994 Member, Program Committee, 12th Workshop on Electromagnetic Induction in the Earth, Brest, France, August 8 - 13, 1994.
- 1994 Principle organiser. Second MT Data Interpretation Workshop. Cambridge, England

- 1993 Convenor, Session on *Interpretation of conductivity models of the continental lower crust: Fluids or carbon - can we tell the difference?* at the 7<sup>th</sup> Scientific Assembly of the International Association of Geomagnetism and Aeronomy, Exeter, England, 1993
- 1992 Member, Organising Committee, and Convener of session *Contributions by EM studies to multidisciplinary transects* at 11th EM workshop
- 1992 Principle organiser. First MT Data Interpretation Workshop. Wellington, New Zealand
- 1992 Member, Organising Committee, and Convener of session *Integrated multidisciplinary studies of key geological targets* at Deep Reflection Seismics Workshop, Banff.
- 1992 Convener of session *The Hutton Symposium: Electromagnetic studies of the continents*, at the European Geophysical Society meeting, Edinburgh.
- 1991 Co-convenor of session *Electromagnetic methods in the study of the Earth*, at Fall AGU meeting
- 1989 Chairman of session *Electromagnetics 2: MT and EMAP* at Society of Exploration Geophysicists meeting
- 1989 Co-convenor of session on *The Lower Crust*, Geological Association of Canada Annual General Meeting
- 1987 Co-convenor of IAGA session on *Comparison of Electrical Conductivity Models with Results from Other Geophysical Techniques*, and Co-convenor of Interdisciplinary Symposium on *Lower Crust Properties and Processes* at 16th General Assembly of the International Union of Geodesy and Geophysics, Vancouver, Canada.

#### **MT Short Courses given:**

- Oct. 2016 Bogota, Colombia
- Jan-Mar 2016 Stanford University, Winter Term
- Nov. 2015 Manila, Philippines, 9-13 November
- Oct. 2014 Perth, Australia, 20-24 October.
- Feb. 2014 Dublin, Ireland, 17-21 February.
- March 2010 Dublin, Ireland, 5-9 March.
- Oct. 2010 Beijing, China, 11-15 October.
- March 2010 Dublin, Ireland, 1-5 March.
- March 2009 Cairo, Egypt, 30-31 March.
- Nov. 2008 Dublin, Ireland, 17-21 November.
- March 2008 Johannesburg, South Africa, 6-7 March. Professional Development course by the South African Geophysical Association (SAGA).
- Oct. 2003 University of the Witwatersrand, Johannesburg, South Africa, 25 October.
- Oct. 2002 Salt Lake City, 5-6 October. Together with Karen Christopherson and Randy Mackie as a Professional Development course provided by the Society of Exploration Geophysicists.

#### **Other Short Courses**

- 2015 Short Course on Geochemical-Geophysical Imaging of the Upper Mantle, presented to students at China University of Geosciences Beijing, November.
- 2001 Organizer, Second Short Course on *Geophysical and Geochemical Imaging of Canada's Upper Mantle*, held during Prospector's and Developers Meeting, Toronto, Canada, March 10, 2001.
- 1999 Organizer, First Short Course on *Geophysical and Geochemical Imaging of Canada's Upper Mantle*, held during Yellowknife Geoscience Forum, Yellowknife, Canada, November 27, 1999.

**INVITATIONS, ETC. (In reverse chronological order: last 20 years)**

(\* indicates all or partial expenses paid)

- \*July 2016 Invited presentation, *Regional assessment of diamond prospectivity: Example from Southern Africa (plus preliminary LITMOD results from the Ordos Platform and the Rae Craton...)*, given to De Beers Exploration, Toronto, 4 July.
- June 2016 Invited presentation, *Regional assessment of diamond prospectivity: Example from Southern Africa*, given to KEGS Ottawa Branch, 21 June.
- May 2016 Invited seminar, *Mantle lithosphere physical and chemical properties of the Ordos Plateau deduced from elevation, geoid, surface heat flow, Rayleigh wave dispersion data and MT data*, given at China University of Geosciences Beijing, 5 May.
- May 2016 Invited seminar, *Lighting up the lithosphere: Information on the continental upper mantle from deep-probing electromagnetic studies combined with other geophysical and geochemical data*, given at China University of Geosciences Beijing, 4 May.
- April 2016 Invited lecture, *Publish or Perish: Strategies for Publishing in Western Geoscience Literature*, given at China University of Geosciences Beijing, 29 April.
- Dec 2015 Invited keynote presentation, *Petrologically-constrained thermo-chemical modeling of cratonic upper mantle consistent with elevation, geoid, surface heat flow, seismic surface waves and MT data*, given at American Geophysical Union Annual Fall meeting, San Francisco, 14-18 December.
- \*June 2015 Invited seminar, *Lighting up the lithosphere: Information on the continental upper mantle from deep-probing electromagnetic studies combined with other geophysical and geochemical data*, given at U Barcelona, 18 June.
- \*April 2015 Invited seminar, *Lighting up the lithosphere: Information on the continental upper mantle from deep-probing electromagnetic studies combined with other geophysical and geochemical data*, given at UQAM, Montreal, 27 April.
- Dec 2014 Invited panellist on panel of experts and presentation, *Geoscience in the international context*, given at 1st Workshop for Early and Mid-Career Geoscientists, Macquarie University, December 1-2.
- \*Nov 2014 Invited seminar, *Modelling the lithosphere constrained by topography, SHF, geoid, gravity, seismology and magnetotellurics within a self-consistent petrological-geophysical framework*, given at Geoscience Australia, Canberra, 17 November.
- Sept. 2014 Invited lecture (together with Eric Mandolesi and Max Moorkamp), *A simulation of the measurement of electrical conductivity in randomly generated two-phase rocks*, given at Schlumberger annual internal workshop on Simultaneous Joint Inversion, Milan, 12 September.
- June 2014 Invited seminar, *Modelling the lithosphere constrained by topography, SHF, geoid, gravity, seismology and magnetotellurics within a self-consistent petrological-geophysical framework*, given at U. Montpellier II, 2 June.
- \*April 2014 Invited seminar, *Combining electrical conductivity with other geophysical and geochemical data, both qualitatively and quantitatively, to constrain geometries, structures and physical parameters (temp, water) of the continental lithosphere*, given at China University of Geosciences Beijing, 30 April.
- \*April 2014 Invited keynote presentation, *Modelling the lithosphere by topography, SHF, geoid, gravity, seismology and magnetotellurics*, given at International

- Conference on Continental Dynamics, Xi'an, China, 26-28 April.
- \*Feb 2014 Invited seminar, *Self-consistent petrologically-based geophysical modelling of the lithosphere constrained by topography, SHF, geoid, gravity, seismology and magnetotellurics*, given at Leicester University, 13 February.
- \*Feb 2014 Invited Hutton Lecture, *Electromagnetic imaging of the Earth: Rosemary Hutton's legacy*, given at University of Edinburgh, 11 February.
- Dec 2013 Invited keynote presentation, *Modelling the physical properties and composition of the mantle lithosphere using magnetotellurics combined with other information*, in Session "Cratonic lithosphere and dynamics" given at American Geophysical Union Annual Fall meeting, San Francisco, 9-13 December.
- Dec 2013 Invited keynote presentation, *Cratonic lithosphere: an electrifying view*, in Session "Deep Exploration into the Lithosphere" given at American Geophysical Union Annual Fall meeting, San Francisco, 9-13 December.
- \*Nov 2013 Invited keynote presentation, *Insights into the Continental Lithosphere from Electromagnetic Studies combined with other geoscientific data: A plea for embracing holistic modelling that satisfies all available data*, given at Workshop on "Structure and Dynamics of the Lithosphere/Asthenosphere System", College de France, Paris, 19-20 November.
- Oct 2013 Invited keynote presentation, *Geophysical petrological modelling of the thermal and compositional structure of the lithosphere – integrating elevation, potential fields, seismology magnetotelluric and surface heat flow data*, given at SAGA, Kruger Park, South Africa, 6-9 October.
- Aug 2013 Invited presentation, *The electrical resistivity of Canada's Lithosphere: Ian Gough's lasting legacy to Canadian Geoscience*, given at IAGA Assembly, Merida, Mexico, 26-31 August.
- April 2013 Invited presentation, *Calibrating laboratory observations using field data*, given at EGU, Vienna, 8-12 April.
- \*Nov 2012 Invited keynote presentation, *Velocity-conductivity relations for cratonic lithosphere and their application: Example of southern Africa*, given at 6th International Conference on Applied Geophysics, Kanchanaburi, Thailand, 15-17 November.
- Nov 2012 Invited research seminar, *MT -The answer to everything (What was the question?)*, given at Macquarie University, Sydney, 8 November.
- \*Nov 2012 Invited seminar, *Petrophysical information of the Earth's lithosphere from electromagnetic and seismic studies*, given at University of Western Australia, 5 November.
- \*Oct 2012 Invited seminar, *Petrophysical information of the Earth's lithosphere from electromagnetic and seismic studies*, given at University of Adelaide, 31 October.
- Oct 2012 Invited seminar, *Obtaining information about the Earth using very low frequency electromagnetic waves*, given at Macquarie University, Sydney, 19 October.
- May 2012 Invited presentation (lead author: Dr. J.-C. Afonso), *The compositional and thermal structure of the lithosphere from thermodynamically-constrained multi-observable probabilistic inversion*, given at EGU, Vienna, Austria, 22-27 May.
- \*Feb 2012 Invited seminar, *Lighting up the lithosphere using electromagnetic waves and correlations with other geophysical, geological, geochemical and petrological data*, given at ETH Zurich, 24 February
- Feb 2012 Invited presentation, *Illuminating lithospheric structures using electromagnetic*

- waves and correlations with other geophysical, geological and petrological data, given at Lithosphere Workshop, University College Cork, Ireland, 17 February.
- Dec 2011 Invited presentation, *Lithospheric geometries revealed through electromagnetic imaging: SAMTEX (Southern African Magnetotelluric Experiment) observations and results*, given at Fall AGU, San Francisco, 5-9 December.
- \*Nov 2011 Invited keynote presentation, *Combined seismological and electromagnetic studies of the lithosphere of Southern Africa*, given at The International Symposium on Deep Exploration into the Lithosphere, Beijing, China, 16-18 November.
- \*Nov 2011 Invited presentation, *Joint inversion of seismic and electromagnetic data for lithospheric parameters*, given at The International Symposium on Deep Exploration into the Lithosphere, Beijing, China, 16-18 November.
- Nov 2011 Invited presentation, *Constraints on Processes from the Electrical Conductivity of the Tibetan Plateau Lithosphere*, given at INDEPTH Workshop, Beijing, China, 15 November.
- Oct 2011 Invited lecture, *Harnessing Earth's heat for energy in Ireland: the IRE THERM project*, given at Irish Geothermal Association (IGA), TCD, Dublin, Ireland, 19 October, and UCC, Cork, Ireland, 20 October.
- Sept 2011 Invited presentation, *Mapping the electrical lithosphere-asthenosphere boundary (eLAB) and its correspondence with seismic (sLAB) and petrological (pLAB) LABs*, given at Earthscope Workshop on the Lithosphere Asthenosphere Boundary, Portland, Oregon, USA, 19-21 September.
- \*Oct 2010 Invited keynote presentation, *Lithospheric structures and geometries revealed by deep-probing magnetotellurics*, given at Litho2010 Workshop, Helsinki, Finland, 27-28 October.
- \*Oct. 2010 Invited lecturer. Short Course on *Magnetotellurics* at China University of Geosciences Beijing, China, October 11-13, 2010.
- Apr 2010 Invited seminar, *Lithospheric and asthenospheric anisotropy: Lessons from Southern Africa and Joint Inversion of Seismic and Electromagnetic data for an Anisotropic Earth*, given at University of Montpellier, France, 23 April.
- Sept 2009 Invited Keynote Presentation, *The SAMTEX experiment: Overview and Preliminary Results*, given at SAGA, Swaziland, 16-18 September.
- Jan 2009 Invited keynote presentation, *Geometry and structures of the Southern African lithosphere revealed through deep-probing electromagnetics: The SAMTEX project*, given at IASPEI, Cape Town, 10-16 January.
- Jan 2009 Invited keynote presentation (Dr. S. Webb lead author), *Delineating prospective kimberlite regions using potential field methods – from space to surface*, given at IASPEI, Cape Town, 10-16 January.
- Oct 2008 Invited presentation, *Geophysical imaging of deep lithospheric structure and the Lithosphere-Asthenosphere Boundary of Europe*, given at 4th TOPO-EUROPE Workshop, El Escorial (Madrid), Spain, 5-8 October.
- Aug 2008 Invited keynote presentation, *The electrical structure of mantle lithosphere*, given at 33<sup>rd</sup> International Geological Congress, Oslo, Norway, 06-15 August.
- Aug 2008 Invited keynote presentation, *Electrical and seismic estimates of the depth to the LAB*, given at 33<sup>rd</sup> International Geological Congress, Oslo, Norway, 06-15 August.
- Aug 2008 Invited presentation, *Observations of the electrical Moho*, given at 33<sup>rd</sup> International Geological Congress, Oslo, Norway, 06-15 August.

- Mar 2008 Invited seminar, *Lithospheric-scale structures and geometries of cratons and their bounding belts in southern Africa from deep-probing electromagnetic studies: Implications for diamond exploration*, given at UCD, Dublin, 31 March.
- Feb 2008 Invited seminar, *Insights into Archean processes from deep ElectroMagnetic imaging: Preliminary results from the SAMTEX project*, given at U. Namibia, Windhoek, Namibia, 19 February.
- Feb 2008 Invited seminar, *Archean lithospheric geometries and tectonic processes revealed by electromagnetic imaging*, given at U. Cape Town, South Africa, 11 February.
- Dec 2007 Invited presentation, *Southern African lithospheric structures and geometries imaged by SAMTEX: Clues to Archean tectonic processes*, given at American Geophysical Union Annual Fall meeting, 10-14 December.
- Oct 2007 Invited keynote presentation, *Southern African Magnetotelluric Experiment (SAMTEX): Project overview and regional results*, given at Southern African Geophysical Association conference, Wild Coast, South Africa, 24-26 October.
- Oct 2007 Invited seminar, *Early Earth tectonics: Results from deep-probing electromagnetic studies on Archean cratons*, given at Department of Geology, University of Leicester, 11 October.
- July 2007 Invited keynote presentation, *SAMTEX results: insights from co-operative interpretation of seismic and electromagnetic data*, given at AfricaArray Annual Workshop, University of the Witwatersrand, Johannesburg, South Africa, 17-18 July.
- June 2007 Invited seminar, *Deep probing electromagnetic studies of cratons in southern Africa compared and contrasted with the results from the Slave and Superior cratons*, given at Department of Earth and Ocean Sciences, UBC, Vancouver, Canada. 28 June.
- Apr 2007 Invited presentation, *Structures and geometries in the continental lithosphere: Insights from joint inversion and co-operative interpretation of seismic and electromagnetic data*, given at European Geosciences Union meeting, Vienna, Austria, 16-20 April.
- Mar 2007 Invited keynote presentation, *Knowledge of the continental lithosphere from electromagnetic studies*, given at Continental Lithosphere Workshop, Merrickville, Ontario, Canada, 7-10 March.
- Oct. 2003 Invited lecturer. Short Course on *Magnetotellurics* at University of Witwatersrand, South Africa, October 25, 2003.
- May 2003 Invited presentation *Deep-probing electromagnetic studies for area selection of possible diamond provinces* at GAC-MAC-SEG Joint Annual Meeting, Vancouver, BC, Canada, 25-28 May.
- April 2003 Invited presentation *Electromagnetic studies of a continent* at: EGS-AGU-EUG Joint Assembly, Nice, France, 06 - 11 April.
- \*Oct. 2002 Invited lecturer (presented one quarter of the course content). Short Course on Magnetotellurics at Society of Exploration Geophysicists Annual General Meeting, Salt Lake City, Utah, USA, Oct. 11-12, 2002.
- \*Sept. 2002 Invited visiting lecturer. Barcelona University, Spain, Sept. 18-27, 2002.
- Jan. 2002 Invited lecturer. *Diamonds Short Course*, Vancouver, BC, Canada, January 21, 2002.
- \*Nov. 2001 Invited keynote speaker. *International Symposium on Slip and Flow Process in and below the Seismogenic Region*, Sendai, Japan, Nov 3-8, 2001.
- \*Oct. 2001 Invited keynote speaker. German *Workshop on Electromagnetic Deep Sounding*, Burg Ludwigstein, 1-5 October, 2001.

- \*Feb. 2000 Invited expert advisor. U.S. Dept. of Energy workshop on *Subsurface Imaging*, Washington, DC, February 18-29, 2000.
- Jan. 2000 Invited keynote speaker. Diamonds BreakOut session at Cordilleran Exploration Roundup. Vancouver, Canada, January 25-28, 2000.
- \*July 1999 Invited seminar. *The Electric Earth: What we can learn from electrical conductivity imaging from 100 m to 1,000 km scales*. Seminar, GFZ, Potsdam, Germany, 9<sup>th</sup> July.
- \*Nov. 1996 Invited highlight speaker. Special IAGA Symposium on *Geomagnetism in Studies of Earth's Interior and Electrodynamics of its far Environment*". November 18-20 (declined).
- \*Sept. 1996 Invited keynote speaker. 7th International Symposium on Deep Seismic Profiling of the Continents and their Margins. Asilomar, California 16-20th September.

## PUBLICATIONS AND CITATIONS

Jones is the most published and most cited person in magnetotellurics.

As of 26<sup>th</sup> April 2017: 187 journal and book chapter papers published and in press, 8 in review.

### Full publication list on

<http://www.complete-mt-solutions.com/users/ajones/publications/publications.html>

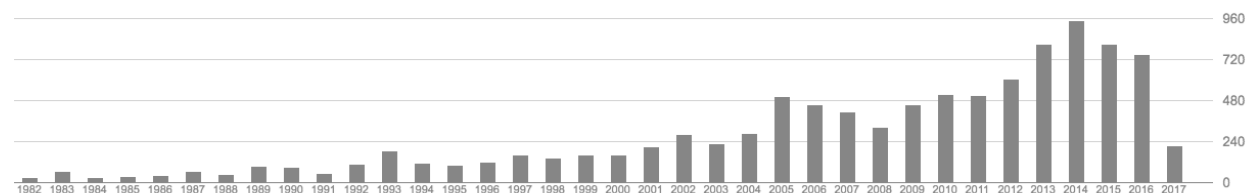
Citation statistics (using Google Scholar):

Total: 10163 citations; h-index 51; i10 index 157.

Since 2012: 4123 citations; h-index 35; i10 index 102.

<http://scholar.google.ca/citations?user=fbT-K4MAAAAJ>

Citations per year



### MT book

Co-edited (with Alan Chave, WHOI) *The Magnetotelluric Method: Theory and Practice* (ISBN: 9780521819275) published by Cambridge University Press in April, 2012. Wrote Chapter 6 (Distortion) and co-wrote Chapters 1 (Introduction) and 10 (Case Studies).

### Top 10 cited journal publications (in decreasing order):

1. Nelson, K.D., Wenjin Zhao, L.D. Brown, J. Kuo, Jinkai Che, Xianwen Liu, S.L. Klemperer, Y. Makovsky, R. Meissner, J. Mechie, R. Kind, F. Wenzel, J. Ni, J. Nabelek, Leshou Chen, Handong Tan, Wenbo Wei, **A.G. Jones**, J. Booker, M. Unsworth, W.S.F. Kidd, M. Hauck, D. Alsdorf, A. Ross, M. Cogan, Changde Wu, E. Sandvol, M. Edwards, 1996. Partially molten middle crust beneath southern Tibet: an initial synthesis of Project INDEPTH results. *Science*, **274**, 1684-1688. *101 citations*.
2. Wei, W., M. Unsworth, **A.G. Jones**, T. Handong, K.D. Nelson, J.R. Booker, L. Chen, S. Li, K. Solon, P. Bedrosian, S. Jin, M. Deng, J. Ledo, D. Kay and B. Roberts, 2001. Detection of widespread fluids in the Tibetan crust by magnetotelluric studies. *Science*, **292**, 716-718. *375 citations*.

3. McNeice, G.W. and **A.G. Jones**, 2001. Multi-site, multi-frequency tensor decomposition of magnetotelluric data. *Geophysics*, **66**, 158-173. *368 citations*.
4. **Jones, A.G.**, 1988. Static shift of magnetotelluric data and its removal in a sedimentary basin environment. *Geophysics*, **53**, 967-978. *336 citations*.
5. **Jones, A.G.**, 1992. Electrical Conductivity of the Continental Lower Crust. In: Continental Lower Crust, edited by D.M. Fountain, R.J. Arculus and R.W. Kay, published by Elsevier, Chapter 3, 81-143. *299 citations*.
6. Unsworth, M.J., **A.G. Jones**, W. Wei, G. Marquis, S.G. Gokarn, and J.E. Spratt, 2006. Crustal rheology of the Himalaya and Southern Tibet inferred from magnetotelluric data. *Nature*, **438**, 78-81. *296 citations*.
7. Chen, L., J.R. Booker, **A.G. Jones**, N. Wu, M. Unsworth, W. Wei and H. Tan, 1996. Electrically conductive crust in southern Tibet from INDEPTH magnetotelluric surveying. *Science*, **274**, 1694-1696. *213 citations*.
8. **Jones, A.G.**, A.D. Chave, G. Egbert, D. Auld, and K. Bahr, 1989. A comparison of techniques for magnetotelluric response function estimation. *Journal of Geophysical Research*, **94 (B10)**, 14,201-14,213. *211 citations*.
9. Wannamaker, P.E., Booker, J.R., **Jones, A.G.**, Chave, A.D., Filloux, J.H., Waff, H.S. and Law, L.K., 1989. Resistivity cross-section through the Juan de Fuca subduction system and its tectonic implications. *Journal of Geophysical Research*, **94 (B10)**, 14,127-14,144. *193 citations*.

## **PRESENTATIONS**

Full list of 600+ presentations available on:

<http://www.complete-mt-solutions.com/users/ajones/presentations/presentations.html>