

## Vita

### John Owen Hardwick Stone

#### PERSONAL INFORMATION

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Date of birth: 10 February 1961  
Nationality: Australian  
Personal details: Married to Catherine Smither, with  
two children, born November 1993 and April 1996.

#### EDUCATIONAL HISTORY

1983 - 1986 Ph.D. in Earth Sciences, University of Cambridge, England, conferred October 1986. Thesis research: Helium Isotopic Tracing of Fluids in the Lithosphere. Supervisors: Prof. R.K. O'Nions, Dr. G.A. Chinner.

1979 - 1982 B.Sc. (Honours) in Geology and Geophysics, University of Sydney, Australia, conferred March 1983.

#### EMPLOYMENT HISTORY

1998 – present Assistant/Associate Professor, University of Washington. Geoscience teaching. Research into geological applications of cosmic-ray-produced  $^{36}\text{Cl}$ ,  $^{10}\text{Be}$  and  $^{26}\text{Al}$ .

1990 - 1998 Research Fellow, Research School of Earth Sciences, Australian National University. Geological applications of cosmic-ray-produced nuclides,  $^{36}\text{Cl}$ ,  $^{10}\text{Be}$  and  $^{26}\text{Al}$ .

1988 - 1989 Post-doctoral Fellow, Division of Geological and Planetary Sciences, California Institute of Technology. Work in conjunction with Dr I.D. Hutcheon, Prof. S. Epstein and Prof. G.J. Wasserburg on isotopic anomalies in meteorites.

1986 - 1987 Post-doctoral Research Associate, Enrico Fermi Institute, University of Chicago. Work in conjunction with Prof. R.N. Clayton on the isotopic composition of solar wind nitrogen, as recorded in lunar soils.

#### SCHOLARSHIPS AND AWARDS

1993 Deutscher Akademische Austauschdienst fellowship for collaborative work at the Freie Universität Berlin

1988 Texaco Post-doctoral Fellowship, California Institute of Technology

- 1983 - 1986 Commonwealth Scholarship for postgraduate study in the United Kingdom and Prince of Wales Studentship, Trinity College, Cambridge
- 1982 University Medal for Geology and Geophysics, University of Sydney
- 1981, 1982 Earth Resources Foundation Scholarship, University of Sydney

#### TEACHING AND SUPERVISORY RESPONSIBILITIES

- 1998 - present Joint instructor: Geology 391 / ESS 312 Geochemistry.  
 Joint instructor: Geology 201/ESS 211 Physical Processes of the Earth.  
 Joint instructor: ESS 212 Earth Materials and Processes.  
 Instructor: Geology 478 / ESS 461 Geological Time.  
 Instructor: Geology / ESS 490/590 Cosmogenic Nuclide Geochemistry.  
 Instructor: ESS 460/560 Cosmogenic Nuclides in Geomorphology.  
 Instructor: ESS 345 Economic Geology.
- 2013 – present Advisor to PhD student Mr Trevor Hillebrand. Initial research topic: Exposure dating and glacial geology, Hatherton Glacier, Antarctica.
- 2010 – present Advisor to PhD student Mr Perry Spector. Research topic: Cosmic ray exposure records from subglacial bedrock.
- 2009 – present Advisor to MS/PhD student Mr Zachary Ploskey. Research topic: Quantifying Pleistocene erosion beneath glaciers and ice sheets.
- 2005 – present Advisor to MS student Mr David Argento. Research topic: Simulation of cosmogenic nuclide production with the radiation transport code MCNPX.
- 2003 – 2008 Advisor to MS/PhD student Mr Andrew Gendaszek. Research topic: Erosional response of drainage basins to northward-propagating deformation in the coastal ranges of the Pacific Northwest.
- 2003 - 2007 Advisor to MS student Mr Matt Kuharic.
- 2002 - 2007 Advisor to PhD student Ms C. Todd. Research topic: Late-Pleistocene history of Reedy Glacier, Antarctica.
- 2002 - 2004 Advisor to MS student Mr S. Cowdery. Research topic: Long-term glacial history of West Antarctica.
- 1999 - 2004 Advisor to PhD student Mr G. Balco. Research topic: Application of cosmogenic isotopes to problems in stratigraphy and landscape evolution.
- 1996 - 2000 Supervisor of PhD student Mr T.T. Barrows. Research topic: The last glacial maximum in south-eastern Australia.
- 1994 - 2001 Joint supervisor of PhD student Ms J.M. Evans. Research topic: Cosmogenic chlorine-36 production from potassium.
- 1993 Joint supervisor of undergraduate honours student Ms J.M. Evans. Research topic: Production of cosmogenic chlorine-36 in calcite by muons.
- 1992, 1994 Organising Committee, RSES "Chemistry of the Earth" summer school for senior undergraduates.
- 1991, 1993, 1995 Participating lecturer, Isotope Geochemistry course for senior undergraduates in the Geology Department, ANU.
- 1983 - 1986 Teaching assistant in undergraduate geology, petrology and field geology courses.

## GRANT FUNDING

- 2015-2018 National Science Foundation. EXPROBE-WAIS: Exposed Rock Beneath the West Antarctic Ice Sheet, A Test for Interglacial Ice Sheet Collapse. \$376,812 (to commence July 2015). Sole Investigator.
- 2013-2016 National Science Foundation. Collaborative Research: Assessing the Antarctic contribution to sea-level changes during the last deglaciation: Constraints from Darwin Glacier. \$244,575. One of 3 co-principal investigators.
- 2013-2015 Erosion beneath Pleistocene glaciers and ice sheets. National Science Foundation. \$223,934. Sole investigator.
- 2012-2014 Glacial-interglacial history of West Antarctic nunataks and site reconnaissance for subglacial bedrock sampling. National Science Foundation. \$349,699 over 2 years. One of 3 co-principal investigators.
- 2009-2013 Collaborative Research: Constraints on the last Ross Ice Sheet from glacial deposits in the southern Transantarctic Mountains. National Science Foundation. \$591,344 over 4 years. One of 3 co-principal investigators.
- 2007-2010 Collaborative Research: Grounding-line retreat in the southern Ross Sea - constraints from Scott Glacier. National Science Foundation. \$388,766 over 3 years. One of three co-principal investigators.
- 2005-2010 Collaborative Research: The Cosmic Ray PrOduced NUclide Systematics on Earth Project (CRONUS-Earth Project) . National Science Foundation. \$5.7M (of which, \$346,688 to University of Washington) over five years. One of 17 co-principal investigators from 14 institutions.
- 2004-2006 Collaborative Research: Chronology of ice fluctuations in the South Shetland Islands since the last glacial maximum. National Science Foundation. \$83,864 over two years. One of two co-principal investigators.
- 2004-2005 The baseline for sustainable land use in the Pacific Northwest – A geochemical approach. UW Royalty Research Fund. \$29,779 over 1 year. Collaborating investigator with Dr Greg Balco, University of Washington.
- 2003-2006 Collaborative Research: Late Quaternary history of Reedy Glacier. National Science Foundation. \$371,853 over 3 years. One of three co-principal investigators.
- 2003-2005 Long-Term Evolution of Bedrock Channels along the Arid Escarpments of the Dead Sea Transtensional Basin. United States–Israel Binational Science Foundation. \$35,000 of which \$8,050 to the University of Washington. Joint with Hebrew University and Massachusetts Institute of Technology.
- 2003-2004 Deglaciation of the Marble Hills, southern Ellsworth Mountains. National Science Foundation. \$55,861 over one year. Sole principal investigator.
- 2003-2004 Long-term history of the West Antarctic Ice Sheet. National Science Foundation. \$50,279 over one year. Sole principal investigator.
- 2003-2004 Long-term history and future stability of the West Antarctic Ice Sheet. LLNL-CAMS small grants scheme. \$23,961 over one year. Sole principal investigator.
- 2002-2005 Erosion beneath the Laurentide Ice Sheet and its role in Pleistocene ice-age dynamics. National Science Foundation. \$214,765 over 3 years. Sole principal investigator.

- 2001-2005 Geodynamics of Indentor Corners. National Science Foundation. Joint with Lehigh University. UW budget is \$582,394 over 5 years. One of six UW principal investigators.
- 2000 – 2002 Retreat history of the West Antarctic Ice Sheet, Marie Byrd Land. National Science Foundation. \$119 814 over 2 years. Sole principal investigator.
- 2000 – 2001 A detailed post-glacial retreat chronology for the Lambert Glacier, East Antarctica. National Science Foundation. \$55 000 over 1 year. Sole principal investigator.
- 2000 – 2001 Development of a comprehensive cosmogenic Be-10 - Al-26 production model for quartz. National Science Foundation. \$41 098 over one year. Sole principal investigator.
- 1998 – 2001 Quantitative measures of the antiquity and evolution of cratonic surfaces. National Science Foundation. \$ 249 676 over 3 years. Sole principal investigator.

#### SERVICE AND OUTREACH

- 2015 University of Washington Royalty Research Fund, Committee member
- 2012-15 NSF Ice Drilling Program Office, Subglacial Access Working Group. Advisory member.
- 2012 Polar Geospatial Center, Dept of Geology and Geophysics, University of Minnesota. Advisory Committee member.
- 2009 Panel member, National Science Foundation Committee of Visitors to advise on the work of the Antarctic Infrastructure and Logistics Division, and the Polar Environment, Health and Safety Office, US Antarctic Program.
- 2005-2012 Participant and Steering Committee member, Cosmic Ray Produced Nuclides on Earth (CRONUS-Earth) project to improve cosmogenic nuclide dating.
- 2005-2008 Member, Cosmogenic Isotope Analytical Facility Steering Committee, UK Natural Environment Research Council.
- 2004 Member, National Science Foundation Geology and Paleontology program, proposal review panel.
- 2003-2008 West Antarctic Ice Sheet Project Advisory Committee; representative for Geological Sciences.
- 2003 – 04 Panel member, Institute of Geophysics and Planetary Physics (UC/Lawrence Livermore) small grants scheme, proposal review panel.
- 2000, 2004 Advisory Committee member, PRIME Lab (NSF-funded Center for Accelerator Mass Spectrometry, Purdue University).
- 2000 - 2008 Talks to Seattle area elementary school students on Antarctica and geology.
- 1998 - 2003 Quaternary Research Center Steering Committee member.

#### TECHNICAL EXPERIENCE

- 1990 - present Development of extraction, purification and loading methods for accelerator mass spectrometry of cosmogenic chlorine, beryllium, aluminium and manganese isotopes. Use of emission and absorption spectrometry for determination of these and other elements in geological materials. Alpha spectrometry for U and Th analysis. Stable isotope and trace element analysis of speleothem carbonate.

- General familiarity with accelerator mass spectrometry. Mathematical modelling of cosmogenic isotope accumulation at and beneath stable and eroding surfaces. Programming for data reduction and interpretation.
- 1988 - 1989 Preparation of acid residue samples from meteorites. Stable isotopic analysis of carbon and hydrogen by mass spectrometry. Stable isotopic analysis of magnesium, silicon, carbon and nitrogen in micron-sized meteoritic particles by ion microprobe.
- 1986 - 1987 Extraction and mass spectrometric analysis of nitrogen isotopes from lunar soils.
- 1983 - 1986 With R.K. O'Nions and fellow graduate students, construction, use and maintenance of noble gas extraction systems and mass spectrometers for isotopic analysis of helium and heavy noble gases.
- 1982 Use of X-Ray diffraction, X-Ray fluorescence and electron microprobe facilities, University of Sydney.

PUBLICATION LIST - JOHN STONE (May 2015)

PUBLISHED PAPERS

- 2014 Argento D.C., Stone J.O., Reedy R.C. and O'Brien K. Physics-based modeling of cosmogenic nuclides part I – Radiation transport methods and new insights. Quaternary Geochronology <http://dx.doi.org/10.1016/j.quageo.2014.09.004>.
- Argento D.C., Stone J.O., Reedy R.C. and O'Brien K. Physics-based modeling of cosmogenic nuclides part II – Key aspects of in-situ cosmogenic nuclide production. Quaternary Geochronology <http://dx.doi.org/10.1016/j.quageo.2014.09.005>.
- Borchers B., Marrero S., Balco G., Caffee M., Goehring B., Gosse J., Lifton N., Nishiizumi K., Phillips F., Schaefer J. and Stone J. Geological Calibration of Spallation Production Rates in the CRONUS-Earth Project. Quaternary Geochronology <http://dx.doi.org/10.1016/j.quageo.2015.01.009>.
- Lifton N., Caffee M., Finkel R.C., Dugan Theriault B., Marrero S., Gosse J., Nishiizumi K., Phillips F.M., Stone J., Schaefer J., Jull A.J.T., Fifield L.K. and Goehring B. In situ cosmogenic nuclide production rate calibration for the CRONUS-Earth Project from Lake Bonneville, Utah, shoreline features. Quaternary Geochronology <http://dx.doi.org/10.1016/j.quageo.2014.11.002>
- Balco, G., Stone, J. O., Sliwinski, M., & Todd, C. Features of the glacial history of the Transantarctic Mountains inferred from cosmogenic Al-26, Be-10 and Ne-21 concentrations in bedrock surfaces. *Antarctic Science*, 26, 708-723.
- Ballantyne C.K. and Stone J.O. Trimlines, blockfields and the vertical extent of the last ice sheet in southern Ireland. *Boreas* 44, 277–287. DOI: 10.1111/bor.12109.
- Ballantyne C. K., Sandeman G. F., Stone J. O. and Wilson P. Rock-slope failure following Late Pleistocene deglaciation on tectonically stable mountainous terrain. Quaternary Science Reviews, 86, 144-157.
- 2013 Anderson J. B., Conway H., Bart P. J., Witus A. E., Greenwood S. L., McKay R. M., Hall B.L., Ackert R.P., Licht K., Jakobsson M. and Stone, J. O. Ross Sea paleo-ice sheet drainage and deglacial history during and since the LGM. Quaternary Science Reviews. [dx.doi.org/10.1016/j.quascirev.2013.08.020](http://dx.doi.org/10.1016/j.quascirev.2013.08.020).
- Argento, D. C., Reedy, R. C. and Stone, J. O. Modeling the Earth's Cosmic Radiation. Nuclear Instruments and Methods B, 294, 464-469.
- Balco G., Finnegan N.J., Gendaszek A., Stone J.O. and Thompson N. Erosional response to northward-propagating crustal thickening in the coastal ranges of the U.S. Pacific Northwest. American Journal of Science 313, 790-806.
- Ballantyne C.K. and Stone J.O. (2013) Timing and periodicity of paraglacial rock-slope failures in the Scottish Highlands. Geomorphology 186, 150-161.
- Hall B.L., Denton G.H., Stone J.O. and Conway H. History of the grounded ice sheet in the Ross Sea sector of Antarctica during the Last Glacial Maximum and the last termination. Geological Society, London, Special Publications, 381, 167-181.
- Larsen I.J., Almond P.C., Eger A., Stone J.O., Montgomery D.R. and Malcolm B. Rapid soil production and weathering in the Southern Alps, New Zealand. Science 343, 637-640.
- 2012 Ballantyne, C.K., Stone, J.O., Did large ice caps persist on low ground in north-west Scotland during the Lateglacial Interstade? Journal of Quaternary Science 27, 297-306.

- Bromley, G. R., Hall, B. L., Stone, J. O., & Conway, H. Late Pleistocene evolution of Scott Glacier, southern Transantarctic Mountains: implications for the Antarctic contribution to deglacial sea level. Quaternary Science Reviews, 50, 1-13.
- Fifield, L. K., Tims, S. G., Stone, J. O., Argento, D. C., & De Cesare, M. Ultra-sensitive measurements of  $^{36}\text{Cl}$  and  $^{236}\text{U}$  at the Australian National University. Nuclear Instruments and Methods B, 294, 126-131.
- Rogers, H. E., Swanson, T. W., & Stone, J. O. Long-term shoreline retreat rates on Whidbey Island, Washington, USA. Quaternary Research 78, 315-322.
- Shuster D.L., Farley K.A., Vasconcelos P.M., Balco G., Monteiro H.S., Waltenberg K. and Stone J.O. Cosmogenic  $^3\text{He}$  in hematite and goethite from Brazilian “canga” duricrust demonstrates the extreme stability of these surfaces. Earth and Planetary Science Letters, 329, 41-50.
- 2011 Ballantyne, C.K., McCarr, Stone J.O., Montgomery D.R. and Hallet B. Spatial controls on erosion in the Three Rivers Region, southeastern Tibet and southwestern China. Earth and Planetary Science Letters 303, 71-83.oll, D., Stone, J.O., 2011. Periglacial trimlines and the extent of the Kerry-Cork Ice Cap, SW Ireland. Quaternary Science Reviews 30, 3834-3845.
- Henck A.C., Huntington K.W., Stone J.O., Montgomery D.R. and Hallet B. Spatial controls on erosion in the Three Rivers Region, southeastern Tibet and southwestern China. Earth and Planetary Science Letters 303, 71-83.
- Morgan D., Putkonen J., Balco G. and Stone J.O. Degradation of glacial deposits quantified with cosmogenic nuclides, Quartermain Mountains, Antarctica. Earth Surface Processes and Landforms 36, 217-228.
- 2010 Argento D. C., Stone J. O., Fifield L. K. and Tims S. G. Chlorine-36 in seawater. Nuclear Instruments and Methods B 268, 1226-1228.
- McCarroll D., Stone J. O., Ballantyne C. K., Scourse J. D., Fifield L. K., Evans D. J. A. and Hiemstra J. F. Exposure-age constraints on the extent, timing and rate of retreat of the last Irish Sea ice stream. Quaternary Science Reviews 29, 1844-1852.
- Todd C.E., Stone J.O., Conway H., Hall B.L. and Bromley G.R.M. Late Quaternary evolution of Reedy Glacier. Quaternary Science Reviews 29, 1328-1341.
- Bromley G.R.M., Hall B.L., Stone J.O., Conway H. and Todd C.E. Cenozoic deposits at Reedy Glacier, Transantarctic Mountains: Implications for former thickness of the West Antarctic Ice Sheet, Quaternary Science Reviews 29, 384–398.
- Fujioka T., Fifield L. K., Stone J. O., Vasconcelos P. M., Tims S. G. and Chappell J. *In situ* cosmogenic Mn-53 production rate from ancient low-denudation surface in tropic Brazil. Nuclear Instruments and Methods B 268, 1209-1213.
- Fifield L.K., Wasson R.J., Pillans B. and Stone J.O.H. The longevity of hillslope soil in SE and NW Australia. Catena 81, 32-42.
- Morgan, D., Putkonen, J., Balco, G. and Stone, J.O. Quantifying regolith erosion rates with cosmogenic nuclides  $^{10}\text{Be}$  and  $^{26}\text{Al}$  in the McMurdo Dry Valleys, Antarctica. Journal of Geophysical Research - Earth Surface, doi:10.1029/2009JF001443.
- 2009 Ballantyne, C. K. and Stone, J. O. and Fifield L.K. Glaciation and deglaciation of the SW Lake District, England: implications of cosmogenic  $^{36}\text{Cl}$  exposure dating. Proceedings of the Geologists' Association 120, 139–144.
- Ballantyne, C. K. and Stone, J. O. Rock-slope failure at Baosbheinn, Wester Ross, NW Scotland: age and interpretation. Scottish Journal of Geology 45, 177–181.
- 2008 Ballantyne C.K., Stone J.O. and McCarroll D. Dimensions and chronology of the last ice sheet in Western Ireland. Quaternary Science Reviews 27, 185-200.

- Koppes, M., Gillespie, A. R., Burke, R. M., Thompson, S. C. and Stone, J. Late Quaternary glaciation in the Kyrgyz Tian Shan. Quaternary Science Reviews 27, 846–866.
- Balco G., Stone, J.O.H., Lifton N.A. and Dunai T.J. A complete and easily accessible means of calculating surface exposure ages or erosion rates from Be-10 and Al-26 measurements. Quaternary Geochronology 3, 174-195.
- Finnegan N.J., Hallet B., Montgomery D.R., Zeitler P.K., Stone J.O., Anders A.M. and Liu Yuping. Coupling of rock uplift and river incision in the Namche Barwa–Gyala Peri massif, Tibet. Geological Society of America Bulletin 120, 142-155.
- 2007 Ballantyne C.K., McCarroll D. and Stone J.O. The Donegal ice dome, northwest Ireland: dimensions and chronology Journal of Quaternary Science 22, 773-783.
- 2006 Haviv, I., Enzel, Y., Whipple, K.X., Zilberman, E., Stone, J., Matmon, A. and Fifield, L.K. Amplified erosion above waterfalls and oversteepened bedrock reaches. Journal of Geophysical Research-Earth Surface 111(F4).
- Ballantyne, C.K., McCarroll, D. and Stone, J.O. Vertical dimensions and age of the Wicklow Mountains ice dome, Eastern Ireland, and implications for the extent of the last Irish Ice Sheet. Quaternary Science Reviews 25, 2048-2058.
- Stone J.O. and Ballantyne C.K. Dimensions and deglacial chronology of the Outer Hebrides Ice Cap, NW Scotland: implications of cosmic-ray exposure dating. Journal of Quaternary Science 21, 75-84.
- Balco, G., Cowdery, S., Todd, C., Stone, J.O.H. Antarctic ice sheet reconstruction using cosmic-ray-produced nuclides. in Knight, P., ed., *Glaciers and Earth's Changing Environment*, pp. 221-223. Blackwell Publishing, Oxford, UK.
- 2005 Sugden D.E., Balco G., Cowdery S.G., Stone J.O. and Sass L.C. III, Selective glacial erosion in the Sarnoff and Allegheny Mountains, Marie Byrd Land, Antarctica. Geomorphology 67, 317-334.
- Balco, G. and Stone, J.O. Measuring middle Pleistocene erosion rates with cosmic-ray-produced nuclides in alluvial sediment, Fisher Valley, southeastern Utah. Earth Surface Processes and Landforms 30, 1051-1067.
- Balco G., Rovey C.W. II, and Stone J.O. The First Glacial Maximum in North America. Science, (Brevia section) 307, 222.
- Balco G., Stone J.O. and Mason J.A. Numerical ages for Plio-Pleistocene glacial sediment sequences by  $^{26}\text{Al}/^{10}\text{Be}$  dating of quartz in buried paleosols. Earth and Planetary Science Letters, 232, 179-191.
- Balco G., Stone J.O. and Jennings C. Dating Plio-Pleistocene glacial sediments using the cosmic-ray-produced radionuclides  $^{10}\text{Be}$  and  $^{26}\text{Al}$ . American Journal of Science 305, 1-41.
- Ng F., Hallet B., Sletten R.S. and Stone J.O. Fast-growing till over ancient ice in Beacon Valley, Antarctica. Geology, 33, 121-124.
- 2004 Stone J.O., Fifield K., Beer J., Vonmoos M., Obrist C., Grajcar M., Kubik P., Muscheler R., Finkel R.C. and Caffee M.; Co-precipitated silver – metal oxide aggregates for accelerator mass spectrometry of  $^{10}\text{Be}$  and  $^{26}\text{Al}$ . Proc. 9<sup>th</sup> International Conf. On Accelerator Mass Spectrometry; Nuclear Instruments and Methods B, 223-224, 272-277.
- Ballantyne C.K. and Stone J.O. The Beinn Alligin rock avalanche, NW Scotland: cosmogenic  $^{10}\text{Be}$  dating, interpretation and significance. The Holocene, 14(3), 461-466.
- Barrows T., Stone J.O., Roberts R.G. and Fifield L.K.; The timing of Late Pleistocene periglacial activity in Australia. Quaternary Science Reviews, 23, 697-708.

- Deo J.N., Stone J.O. and Stein J.K.; Building confidence in shell: Variations in the Marine Radiocarbon Reservoir Correction for the Northwest Coast over the past 3,000 years. American Antiquity, 69(4), 771-786.
- 2003 Stone J.O., Balco G., Sugden D.E., Caffee M.W., Sass L.C. III, Cowdery S.G. and Siddoway C. Holocene deglaciation of Marie Byrd Land, West Antarctica. Science, 299, 99-102.
- 2002 Balco G., Stone J.O., Porter S.C. and Caffee M.W. Cosmogenic-nuclide ages for New England coastal moraines, Martha's Vineyard and Cape Cod, Massachusetts, USA. Quaternary Science Reviews, 21, 2127-2135.
- Barrows T., Stone J.O., Fifield L.K. and Cresswell R.G. The timing of the Last Glacial Maximum in Australia. Quaternary Science Reviews, 21 (1-3), 159-173.
- 2001 Gosse J.C. and Stone J.O. Terrestrial cosmogenic nuclide methods passing milestones toward paleo-altimetry. EOS, Transactions of the American Geophysical Union, 82/7, 81-89.
- Barrows T., Stone J.O., Fifield L.K. and Cresswell R.G., Late Pleistocene glaciation of the Kosciuszko Massif, Snowy Mountains, Australia. Quaternary Research, 55, 179-189.
- 2000 Stone J.O. Air pressure and cosmogenic isotope production. Journal of Geophysical Research 105, 23,753-23,759.
- 1999 Fleming A., Summerfield M.A., Stone J.O., Fifield L.K. and Cresswell R.G.; Denudation rates for the southern Drakensberg escarpment, SE Africa, derived from in-situ-produced cosmogenic <sup>36</sup>Cl: initial results. Journal of the Geological Society, London, 156, 209-212.
- Zwartz D., Tregoning P., Lambeck K., Johnston P. and Stone J.; Estimates of present-day glacial rebound in the Lambert Glacier region, Antarctica. Geophysical Research Letters, 26 , 1461-1464.
- 1998 Stone J.O., Evans J.M., Fifield L.K., Allan G.L. and Cresswell R.G.; Cosmogenic chlorine-36 production in calcite by muons. Geochimica et Cosmochimica Acta 62, 433-454.
- Stone J.O.; A rapid fusion method for the extraction of Be-10 from soils and silicates. Geochimica et Cosmochimica Acta (Scientific Comment) 62, 555-561.
- Stone J.O., Ballantyne C.K. and Fifield L.K.; Exposure dating and validation of periglacial weathering limits, NW Scotland. Geology 26, 587-590.
- Stone J.O., Peterson J.A., Fifield L.K., and Cresswell R.G.; Cosmogenic chlorine-36 exposure ages for two basalt flows in the Newer Volcanics Province, Western Victoria. Proceedings of the Royal Society of Victoria 109, 121-131.
- Zwartz D., Bird M., Stone J.O. and Lambeck, K.; Holocene sea-level change and ice-sheet history in the Vestfold Hills, East Antarctica. Earth and Planetary Science Letters 155, 131-145.
- Ballantyne C.K., McCarroll, D., Nesje, A., Dahl, S.O. and Stone J.O.; The last ice sheet in north-west Scotland: Reconstruction and Implications. Quaternary Science Reviews 17, 1149-1184.
- Ballantyne C.K., Stone J.O. and Fifield L.K.; Cosmogenic Cl-36 dating of post-glacial landsliding at The Storr, Isle of Skye. The Holocene 8, 347-351.
- Ballantyne C.K., McCarroll, D., Nesje, A., Dahl, S.O., Stone J.O. and Fifield L.K.; High-resolution reconstruction of the last ice sheet in NW Scotland. Terra Nova 10, 63-67.
- Hellstrom J., McCulloch, M.M. and Stone, J.O.; A detailed 31,000-year record of climate and vegetation change, from the isotope geochemistry of two New Zealand speleothems. Quaternary Research 50, 167-178.
- 1997 Evans J.M., Stone J.O., Fifield L.K. and Cresswell R.G.; Cosmogenic chlorine-36 production in potassium feldspars. Proceedings of the 7th International Conference on Accelerator Mass Spectrometry, Nuclear Instruments and Methods B 123, 334-340.

- Fabel D, Stone J.O., Fifield L.K. and Cresswell R.G.; Deglaciation of the Vestfold Hills, East Antarctica: Preliminary evidence from exposure dating of three sub-glacial erratics. In Ricci C.A. (ed.) The Antarctic Region: Geological Evolution and Processes. Proceedings 7th International Symposium on Antarctic Earth Science, Siena, 1995, pp. 829-834.
- Zwartz D., Lambeck K., Bird M. and Stone J.O.; Constraints on the former Antarctic ice sheet from sea-level observations and geodynamic modelling. In Ricci C.A. (ed.) The Antarctic Region: Geological Evolution and Processes. Proceedings 7th International Symposium on Antarctic Earth Science, Siena, 1995, pp. 821-828.
- 1996 Stone J.O., Fifield L.K., Allan G.L. and Cresswell R.G.; Cosmogenic chlorine-36 from calcium spallation. Geochimica et Cosmochimica Acta 60, 679-692.
- Stone J.O., Lambeck K., Fifield L.K., Cresswell R.G. and Evans J.M.; A Lateglacial exposure age for the Main Rock Platform, Western Scotland. Geology 24, 707-710.
- 1994 Stone J.O., Allan G.L., Fifield L.K., Evans J.M. and Chivas A.R.; Limestone erosion measurements with cosmogenic chlorine-36 in calcite: Preliminary results from Australia. Nuclear Instruments and Methods B 92, 311-316.
- Fifield L.K., Allan G.L., Stone J.O. and Ophel T.R.; The ANU AMS system and research program. Nuclear Instruments and Methods B 92, 85-88.
- Day, J. P., and 22 co-authors; Biological chemistry of aluminium studied using  $^{26}\text{Al}$  and accelerator mass spectrometry. Nuclear Instruments and Methods B 92, 463-468.
- 1991 Stone J.O., Hutcheon I.D., Epstein S. and Wasserburg G.J.; Correlated Si isotope anomalies and large  $^{13}\text{C}$  enrichments in a family of exotic SiC grains. Earth and Planetary Science Letters 107, 570-581.
- Stone J.O., Hutcheon I.D., Epstein S. and Wasserburg G.J.; Silicon, carbon and nitrogen isotopic studies of silicon carbide in carbonaceous and enstatite chondrites. in Stable Isotope Geochemistry: A Tribute to Samuel Epstein, Geochem. Soc. Spec. Publ. 3, 487-504.
- Stone J.O.; Determining exposure ages using cosmogenic isotopes. in Quaternary Research in Australian Antarctica: Future Directions (D. Gillieson and S. Fitzsimons, eds.) Dept Geogr. Oceanogr. Aust. Defence Force Acad., Spec. Publ.3, 115-116.
- 1990 Stone J.O., Porcelli D.R., Vance D., Galer S. and O'Nions R.K.; Volcanic tracers. Nature (Scientific Correspondence Section), 346, 228.
- 1989 Stone J.O. and Clayton R.N.; Nitrogen isotopes in drive tube 79002/79001: Regolith history and nitrogen isotopic evolution in the solar wind. Proceedings of the 19th Lunar and Planetary Science Conference, 285-296.
- Vance D., Stone J.O. and O'Nions R.K.; Helium, strontium and neodymium isotopes in xenoliths from Hawaii and other oceanic islands. Earth and Planetary Science Letters 96, 147-160.
- 1987 Porcelli D.R., Stone J.O. and O'Nions R.K.; Enhanced  $^3\text{He}/^4\text{He}$  ratios and cosmogenic helium in ultramafic xenoliths. Chemical Geology 64, 25-33.
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