



Suresh Puthiyaveetil Othayoth Postdoctoral Fellow
普希亞 博士後研究 (2013-8 ~ 2014-3-6)

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Education :

- **Ph.D.**, Macquarie University, Sydney, Australia (2009 ~ 2012)
- **M. Sc.**, Kannur University, India (2001 ~ 2003)
- **B. Sc.**, Kannur University, India (1998~ 2001)

Experiences :

- Post Doctoral Researcher, Department of Environment and Geography, Macquarie University, Sydney, Australia (Nov. 2012 – July 2013)
- Part Time Environmental Consultant, GBG Australia, Sydney, Australia (Sept. 2010 to Nov. 2012)
- Laboratory Instrumentation Executive with Wockhardt Pharmaceuticals, India (Feb. 2008 – March 2009)
- Junior Research Fellow with Physical Research Laboratory, India (July 2005~ Dec. 2006)
- Project Associate with PLANEX program, Physical Research Laboratory, India (Sept. 2003~ July 2005)

Field Experiences :

February 2004: Lonar Impact Crater, India for collecting Impact Glasses

February 2006: Kanker Valley National Park, India for collecting forest soil samples

April 2009: Southeastern Highlands of Australia, to collect soil samples

February 2010: The Himalayas, to collect river sediment samples

September 2010: Southeastern Australia, to collect river sediment samples

Research Interests :

Paleoclimatology, Isotope Geochemistry, Aerosol Radiochemistry, Planetary Science

Awards :

Macquarie University Research Excellence Scholarship Award (2009-2012)

Walcott Prize (Petroleum Exploration Society of Australia) Runner up Award 2010

Publications :

Referred papers

P. O. Suresh, A. Dosseto, P. P. Hesse and H. K. Handley, Soil production rates determined from uranium-series isotope disequilibria in soil profiles from south-eastern Australian highlands. In press, *Earth and Planetary Science Letters*.

A. Dosseto, H. L. Buss and **P. O. Suresh**, Rapid regolith formation over volcanic bedrock and implications for landscape evolution. 2012. *Earth and Planetary Science Letters* 337-338, p. 47.

A. Dosseto, H. L. Buss and **P. O. Suresh**, The delicate balance between soil production and erosion, and its role in landscape evolution. 2011. *Applied Geochemistry* 26. p. S27.

P. O. Suresh, A. Dosseto and P. Hesse, Links between catchment erosion and climate investigated with uranium-series isotopes. 2010, ASEG Extended Abstracts, CSIRO Publishing, DOI: 10.1071/ASEG2010ab100.

Manuscripts preparation, submitted, or accepted

P. O. Suresh, H. K. Handley and P. P. Hesse, A leaching procedure for extracting residual primary minerals from soils for uranium-series analysis. (revised version submitted to *Applied Radiation and Isotopes*).

P. O. Suresh, A. Dosseto, P. P. Hesse and H. K. Handley, Sediment transport timescales and behaviour of uranium-series isotopes in the Murrumbidgee River of South-eastern Australia. (Submitted to *Geochimica et Cosmochimica Acta*)

P. O. Suresh, P. P. Hesse and M. Chang, Estimation of slope length in the upper Murrumbidgee catchment of southeastern Australia for determining sediment transport timescales. (In preparation)

Conference Abstracts

A. Dosseto, H. L. Buss and **P. O. Suresh**, Rapid regolith formation over volcanic bedrock and implications for landscape evolution. Goldschmidt Conference, 2013

P. O. Suresh, A. Dosseto, P. Hesse and H. K. Handley, Slow, Slo-ow, Quick, Slow: the rhythm of sediment transport in a large catchment. Australia-New Zealand Geomorphology Group 15th Biennial Meeting 2012.

P. O. Suresh, A. Dosseto, P. Hesse and H. K. Handley, Time constraints on soil evolution from uranium-series isotopes in the south-eastern Australian highlands: evidence for a coupling between soil erosion and production. AGU Fall Meeting 2011.

P. O. Suresh, A. Dosseto, S.P. Turner and P. Hesse, Links between catchment erosion and climate investigated using uranium-series isotopes. ASEG-PESA Geophysics Conference, Sydney, 2010.

Anthony Dosseto and **P. O. Suresh**, Quantification and of soil production and erosion using isotopic techniques. EGU General Assembly, 2010.

Heather Handley, Anthony Dosseto, **P.O. Suresh**, Tim Cohen and Simon Turner, U-series constraints on sediment residence timescales in semi-arid Australia. EGU General Assembly 2010.

P. O. Suresh, P. Hesse and A. Dosseto, Soil residence time in weathering profiles measured using uranium-series isotope disequilibria. Australian Earth Science Convention, 2010.

A. Dosseto and **P. O. Suresh**, Timescales of soil formation for weathering profiles developed over andesitic volcanics. Australian Earth Science Convention, 2010.

Anthony Dosseto, **P. O. Suresh** and Shane Cronin, A new tool for quaternary geochronology? Direct dating of fine grained volcanic products using uranium series isotope. AGU Fall Meeting, 2009.

Heather Handley, Anthony Dosseto, **P.O. Suresh**, Tim Cohen and Simon Turner, Sediment residence time and landscape evolution in arid Australia. AGU Fall Meeting, 2009.

Christian Koeberl, Narendra Bhandari, Deepak Dhingra, **P. O. Suresh**, V. L. Narasimham and Soumitra Misra, Lunar Impact Crater, India: Occurrence of a Basaltic Seuvite? Lunar and Planetary Science Conference XXXV, 2004.

P. O. Suresh, N. Verma, D. Dhingra, N. Srivastava and N. Bhandari, Alpha and Gamma Spectrometry from a Lunar Polar Orbiter for study of volatile transport on the moon. National Space Science Symposium, India, 2004.

Theses

Suresh Puthiyaveetil Othayoth, 2012. Landscape Processes Investigated using Uranium – series Isotopes, PhD thesis, Macquarie University, Sydney, Australia.