

Curriculum Vitae - Richard Spikings

Personal Details

RICHARD ALAN SPIKINGS

British, 26th March, 1971

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Academic positions and education

- October 2004 - present Scientific collaborator level III (tenured), scientific research, manager of the thermochronology laboratory (two noble gas mass spectrometer facilities and a fission-track laboratory), **University of Geneva**, Switzerland.
- March 2002 - October 2004 Post-doctoral fellow, **University of Geneva**, Switzerland.
- April 2001 - March 2002 Wissenschaftlicher Mitarbeiter in Geology (tenured). **University of Potsdam**, Germany.
- March 1998 - March 2001 Postdoctoral Research Fellow in Geology, **Eidgenössische Technische Hochschule (ETH), Zürich**, Switzerland.
- March 1994 - January 1998: Postgraduate studies towards a Ph.D (Earth Sciences) at **La Trobe University**, Melbourne, Australia, "Thermochronology and Tectonics of the Mount Isa, Murphy and Georgetown Inliers, Northeastern Australia".
- September 1989 - June 1993: First class BSc. (honours) in Geochemistry, **St. Andrews University**, Scotland.

Awards

- March 1994 - January 1998: Scholarships: 1. Australian Geodynamic Cooperative Research Center Postgraduate Scholarship AUS15000/a, 2. La Trobe University Postgraduate Scholarship, AUS15000/a.
- September 1989 - June 1990: St Andrews gold medal: Biochemistry medal (1st place), solid-state chemistry medal (1st place), general chemistry medal (1st place), organic chemistry medal (1st place).

Grants Awarded from Swiss Institutions (total value since 2000: CHF 1,582,849)

- April 2010 Swiss NSF "Thermochronology and Tectonics of the circum-Maracaibo region, and experimental analysis of multi-domain diffusion thermochronology". **CHF 239 480.**
- December 2009 Foundation Ernst and Lucie Schmidheiny. "Upgrading the ⁴⁰Ar/³⁹Ar laboratory at the University of Geneva". **CHF 17 943.**
- October 2009 Swiss NSF (206021-128146/1) R'Equip "Upgrading the ⁴⁰Ar/³⁹Ar laboratory at the University of Geneva". **CHF 62 943.**
- March 2008 Swiss NSF (200020-119871/1) "Thermochronology and tectonics of the Northern Andes (Colombia and Ecuador). **CHF 204 230.00.**
- June 2007 Swiss NSF (206021-117359) "Acquisition of a Fission Track Analytical Facility". **CHF 114 845.**

June 2007	Funds Ernst and Luci Schmidheiny. "Acquisition of a Fission Track Analytical Facility". CHF 20 000.
June 2007	Société Académique de Genève (Funds Birkigt). "Acquisition of a Fission Track Analytical Facility". CHF 20 000.
May 2007	Funds Gomarín. "Acquisition of a Fission Track Analytical Facility". CHF 40 000.
April 2007	Swiss NSF (200020-116572) "Probing lithosphere processes through geochemical and geochronological studies: intracontinental rifting and subduction-related magmatism in Southern Peru". CHF 264 803.
July 2006	Swiss Academy of Sciences SCNAT, "Thermochronology of the South Caribbean Plate Boundary Zone: Dutch Antilles and the Sierra Nevada de Santa Marta, Colombia". CHF 2 900.
July 2006	Fonds Birkigt. "Thermochronology of the South Caribbean Plate Boundary Zone: Dutch Antilles and the Sierra Nevada de Santa Marta, Colombia". CHF 3 750.
March 2005	Swiss NSF (21-54773.21) "Thermal and tectonic history of the Western and Central cordilleras of Colombia". CHF 200 000.
February 2005	Société Académique de Genève "The geological evolution of mountain belts and continental interiors: multiple reasons for automating the ⁴⁰ Ar/ ³⁹ Ar laboratory". CHF 10 000.
March 2002	Swiss NSF (20-56794.20) "Cretaceous and Tertiary geodynamic evolution of the Andean forearc in Ecuador". CHF 381 955.
September 1999	Swiss NSF (20-56794-99) "Thermal history of the Western Cordillera, Ecuador".

Supervised Theses

Ryan Cochrane, August 2009 - ongoing. Thermochronology and tectonics of the Northern Andes (Colombia and Ecuador). **PhD Thesis**, University of Geneva.

Roelant Van der Lelij, August 2008 - ongoing. Thermochronology and Tectonics of the circum-Maracaibo region, and experimental analysis of multi-domain diffusion thermochronology. **PhD Thesis**, University of Geneva.

Mariel Reitsma, November 2007 - ongoing. The life and death of a continental rift: the Mitu Rift of southeastern Peru. **PhD Thesis**, University of Geneva.

Flora Boekhout, September 2007 - ongoing. Geochronological and geochemical characterisation of Triassic-Volcanic volcanic rocks in the Arequipa Block, southern Peru. **PhD Thesis**, University of Geneva.

Roelant Van der Lelij, August 2006 - April 2008. Thermochronology of the South Caribbean Plate Boundary Zone: Dutch Antilles and the Sierra Nevada de Santa Marta, Colombia. Supervisor: Dr. Richard Spikings. **MSc Thesis**, University of Geneva.

Jenny Skoog, August 2005 - August 2007. Thermochronology of the East African Rift system in northern Tanzania. **MSc Thesis**, University of Geneva and Trinity College, Dublin (Ireland).

Diego Villagomez, April 2005 - 2010. Accretionary and post-accretionary cooling, exhumation and tectonic history of the central and western Andes of Colombia. **PhD Thesis**, University of Geneva.

Cristian Vallejo, March 2003 - January 2007. Accretionary and post-accretionary history of the Cordillera Occidental, Ecuador. **PhD Thesis**, ETH- Zürich.

Leonard Luzieux, March 2003 - December 2006. A geodynamic reconstruction of oceanic, allochthonous, western Ecuador. **PhD Thesis**, ETH- Zürich.

Peter Abegglen, March 1999 - March 2001. Geologie des intermontanen Beckens von Chota (Pliozän, Nordecuador)-Westteil. **MSc. Thesis**, ETH- Zürich.

Stefan Tobler, March 1999 - March 2001. Geologie des intermontanen Beckens von Chota (Pliozän, Nordecuador)-Westteil. **MSc. Thesis**, ETH- Zürich.

Editorships and affiliations

October 1999 – October 2000: Editor of *OnTrack*, the newsletter for the international fission-track community.

April 1999 – present: Member of the American Geophysical Union

Reviewed Articles

30 manuscript reviews for the journals: TECTONICS, TECTONOPHYSICS, CONTRIBUTIONS TO MINERALOGY AND PETROLOGY, LITHOS, JOURNAL OF SOUTH AMERICAN EARTH SCIENCES, AUSTRALIAN JOURNAL OF EARTH SCIENCES, ECLOGAE GEOLOGICAE HELVETIAE

Academic Interests

- Accretionary and post-accretionary geodynamics of the Northern Andean Segment (Peru, Ecuador, Colombia, Venezuela), Chile, and the Caribbean region (Aruba, Bonaire and Cuba) via thermal history ($^{40}\text{Ar}/^{39}\text{Ar}$, fission-track and (U-Th)/He methods), paleomagnetic and sedimentological/chronostratigraphic analyses.
- Geochronology of economic metalliferous volcanic bodies via $^{40}\text{Ar}/^{39}\text{Ar}$ analyses of supergene and hydrothermal minerals (Peru).
- Quantification of the post-orogenic tectonic and exhumational processes that occur within cratonic interiors and active margins; landscape evolution and supercontinent connections.

Referees

- Prof. Wilfried Winkler, Geology Institute, ETH-Zentrum, CH-8092 Zürich, Switzerland. Tel. +41 (0)1 632 3697, Fax. +41 (0)1 632 1080, wilfried.winkler@erdw.ethz.ch
- Prof. Urs Schaltegger, Dept. of Mineralogy, University of Geneva, 13 Rue des Maraichers, Geneva 1205, Switzerland. Tel. +41 22 379 6646, Fax. +41 22 379 3210, urs.schaltegger@unige.ch
- Dr. Barry Kohn, School of Earth Sciences, The University of Melbourne, Parkville, Vic. 3052, Australia. Tel. +61 (0)3 8344 7675, Fax. +61 (0)3 8344 7761, b.kohn@earthsci.unimelb.edu.au

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