

Curriculum Vitae

Robert Anczkiewicz
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Employment:

- 1 October 1998 - 28 February 1999: **Technician** in Institute of Geological Sciences, Polish Academy of Sciences (**IGS PAS**), Kraków Research Centre.
- 1 March 1999 - 14 October 1999: **Research Assistant in IGS PAS**, Kraków Research Centre.
- 15 October 1999 - 21 October 2008 **Adjunct in IGS PAS**, Kraków Research Centre.
- November 2000 - June 2004. **Post-Doctoral Research Fellow, University College London**, Gower Street, London WC1E 6BT, UK.
- August 2004 - August 2005: **Post-Doctoral Research Fellow, MONASH University**, School of Geosciences, Monash University, Clayton 3800, Victoria, Melbourne, Australia.
- November 2005 – present: **Head of Geochronology and Isotope Geochemistry Laboratory IGS PAS**, Kraków Research Centre.
- 22 October 2005-2008: assistant professor
- 2008-2021: associate professor.
- 2021- present: professor

Academic degrees

29 June 1993 - MSc degree in geology (specialization in petrography), Faculty of Natural Sciences, University of Wrocław, Poland. Title of the thesis: *The behaviour of iron and copper in the light of electrochemical equilibria as a factor of environmental change: An example of Kletno region, SW Poland*. Supervisor: Prof. A. W. Jasiński.

3 July 1998 – Doktor der Naturwissenschaften (Doctor of Natural Sciences, Ph.D. degree) obtained from Geology Institute, ETH-Zentrum, Zürich, Switzerland. Thesis title: *Structural and Geochronological Study of the India - Kohistan Arc Collision, Lower Swat region of Pakistan, NW Himalaya*. Supervisor: Prof. J-P Burg. Reviewers: Dr. F. Oberli, Dr. D. Vance, Prof. I.M. Villa.

13 October 2008: Habilitated doctor degree obtained from Institute of Geological Sciences, Polish Academy of Sciences. Thesis title: *Dating of thermotectonic processes in subduction zones*.

Teaching experience

I was a supervisor of one completed Ph.D. dissertation and currently I am supervising two Ph.D. candidates. Additionally, I served as a Ph.D. advisor in one completed dissertation.

- Carol-Ann Craig, Ph.D. advisor (2001-2003, Royal Holloway, University of London)
- Katarzyna Kołtonik, supervisor (2010- 2015, completed 20 October 2015).
- Nina Kowalik, supervisor (2013-present, thesis defence September 2021).
- Akeek Maitra, supervisor (2016-present, thesis defence May 2022).

Mentoring post-doctoral researchers:

- Dr. Bartosz Budzyń (2010 - 2012)
- Dr. Bivin Geo George (February 2020 - 2022).
- Dr. Jörg Ostendorf (2019 - present).
- Dr. Jeremie Soldner (2022-present)
- Dr. Subham Mukhrejee (2024- present)

Teaching experience

- *Foundations of geology for engineers*, course for 1st year students (2 semesters; ETH-Zürich, Switzerland)
- *Geochemistry*, course for 3rd year students (2 semesters, Royal Holloway, University of London, UK)
- *Introduction to igneous and metamorphic petrology*, course for 1st year students (2 semesters, Royal Holloway, University of London, UK)
- *Foundations of structural geology* (1 semester, Jagiellonian University, Poland)
- *Geochronology*, 4th and 5th year students (3 semesters, Institute of Mineralogy and Geochemistry, University of Warsaw, Poland)
- *Isotope Geochemistry, course for Ph.D. students* (AGH University of Science and Technology, 1 semester, Poland).
- *Isotope Geology, course for Ph.D. students* (IGS PAS, 1 semester, Poland).

Research Grants:

- *Measuring the bulk rheology of orogenic crust and lithospheric mantle from rates of tectonic processes* lead by J.P. Platt. 2000-2003 (3 years project, **NERC** grant No. GR3/A3160). Post-doctoral Research Fellow.
- *Thermochronological evolution of the Day Nui Con Voi massif in northern Vietnam. Implications for the evolution of the Red River Shear Zone and role of strike-slip faults in collisional orogens.* 2000-2003 **Ministerstwo Nauki i Szkolnictwa Wyższego**. Grant No. 6PO4D 011 18, 3-years project. Project leader.
- *Excess unsupported ²⁰⁷Pb in zircons and trace element partitioning in crustal melts.* Funded by **Ministry of Science and Education**, 2006-2008. 2 years project. Project leader.
- *Isotopic tracing of late Pleistocene seasonal mammoths' migrations in central Europe.*

- Grant **NCN** nr 2015/17/B/ST10/02657. 2016-2019. 3 years project. Project leader.
- *Syn-rift alkaline magmatism in the Outer Western Carpathians: timing, duration and rates of magma differentiation.* Grant **NCN** no. N N307 475038, 2011-2013. 1.5 years project. Project leader.
 - *Inverted metamorphic sequence and its relationship to the main Himalayan structures, West Sikkim, India.* Grant **NCN** no. N N307 082137, 2009-2012, 3 years project. Project leader.
 - *Timing of andesite emplacement in the Pieniny Klippen Belt, Western Carpathians, Poland.* Grant of **NCN** no.N N307 475038. 2009-2011, 2 years project. Principal Investigator.
 - *Recycling of a pre-Variscan continental crust during Variscan orogeny in the Kamieniec Metamorphic Complex and the Doboszowice Metamorphic Complex (Central Sudetes, Bohemian Massif).* Grant no. **NCN** 2015/17/B/ST10/02212. 2016-2019. Principal investigator.
 - *Sources of radioactive pollutants (Pu, Am, ⁹⁰Sr and ¹³⁷Cs) in recent human bones.* Grant of **NCN** 2009-2011 no. NN404318640. 3-years project. Participant.
 - *Investigation of trace amounts of radioactive compounds (Pu, Am, ⁹⁰Sr, ¹³⁷Cs) in surgically removed human bones.* Grant **NCN** no. N404102837. 2010-2012, 3-years project. Participant.
 - *Pericratonic Silurian shales of the East European Platform - in search for a lost orogenic source* Grant of National Science Centre no. 2012/05/B/ST10/00521, 2013-2016. 3-years project. Principal Investigator.
 - High spatial resolution lithium isotope record in dental enamel as a proxy of seasonal woolly mammoth mobility in central Europe before the last glacial maximum. Grant of National Science Centre no. UMO-2023/49/B/ST10/02100 3-years project. Project leader.

Equipment grants (total value: 21 200 000 PLN):

- 2005 Establishment of ultra-clean chemistry and mass spectrometry laboratory: **4 500 000 PLN (c. 1 100 000 EU).**
- 2010 Purchase and installation of excimer laser and ICP-MS: **2 000 000 PLN (c. 500 000 EU)**
- 2019 Purchase and installation of MC ICP MS, 3Q ICPMS, TIMS and laser ablation. Creation of a geochemical database. Total value: **14 700 000 PLN (c. 3 200 000 EU).**

Invited lectures:

- Goldschmidt 2002, Davos, Switzerland. Influence of inclusions and leaching techniques on Sm-Nd and Lu-Hf garnet chronology.
- Goldschmidt 2007 Köln, Germany Behaviour of the Sm-Nd and Lu-Hf geochronometers in garnet during HT and UHT metamorphism.
- Isotope Workshop, Göthe University, Frankfurt 2018. Rates of metamorphic processes deduced from Sm-Nd and Lu-Hf garnet dating.

- SINA (Stable Isotope Network Austria) 2019, Keynote lecture. Tracing seasonal mammoth migrations in central Europe during the last ice age using Sr and O isotopes
- ESIR (European Society for Isotope Research) 2019, Lublin. Keynote lecture High resolution isotope tracing of geo- and archaeological processes by laser ablation (MC) ICP-MS

Invited seminars:

- Open University, Milton Keynes, UK (26.06.2003). Lu-Hf and Sm-Nd garnet geochronology: Influence of inclusions and methods of dealing with them.
- Natural History Museum London, UK (11.2003). *Sm-Nd and Lu-Hf dating of metamorphism: Examples from the Franciscan Complex and Red River Shear Zone.*
- Australian National University, Canberra, Australia (28.05.2004). *Distribution of trace elements in garnets: Implications for Lu-Hf and Sm-Nd dating.*
- MONASH University, Melbourne, Australia (05.2004). *Lu-Hf and Sm-Nd geochronology of high-grade metamorphism.*
- Polish Geological Society, Kraków, Poland (2007). The meaning of diffusional homogenization and resorption for accurate Sm-Nd and Lu-Hf garnet dating.
- Polish Mineralogical Society (02.04.2009), Institute of Geological Sciences, University of Wrocław. *Deccan – Eurasia collision from the perspective of the NW Himalaya.*
- Institute of Nuclear Physics, Polish Academy of Sciences (25.03.2009). *MC ICPMS, TIMS, SIMS: Nuances of isotopic measurements.*
- RUHR University, Bochum, Germany (2010). *The role of Red River shear zone in shaping tectonics of SE Asia.*
- Trinity College, Dublin, Ireland (24.02.2011) *The use of Sm-Nd and Lu-Hf garnet geochronology in the studies of collisional belts: geological and technical perspective.*
- Polish Mineralogical Society, Kraków, Poland (12.10.2011). *Garnet geochronology of high temperature metamorphism: example of migmatitic gneisses from the Day Nui Con Voi massif in Northern Vietnam.*
- Royal Holloway University of London, Egham, UK (27.02.2013). *Timing, rates and duration of prograde metamorphism in the inverted Barrovian sequence of the Lesser Himalaya, Sikkim, India*
- Polish Mineralogical Society, Sosnowiec, Poland (25.03.2015). *Rates of tectonometamorphic processes in continental collision zones: an example of the Sikkim Himalaya, India.*
- Charles University, Prague, Czech Republic (7.12.2016). *Origin of inverted regional metamorphism during continental collision: Sikkim Himalaya, India.*
- UiT The Arctic University of Norway, Tromsø (16.10.2017). *Rates of metamorphic processes deduced from Sm-Nd and Lu-Hf garnet geochronology*
- Göthe University, Frankfurt, Germany (7.02.2018). *Rates of metamorphic processes deduced from Sm-Nd and Lu-Hf garnet geochronology.*
- Annual meeting of the Students' Geological Societies, Różanka, Poland (11.10.2018). Two

lectures: a) *The Himalaya as an archetype of continent-continent collision*, b) *Zircon petrochronology*.

- SINA (Stable Isotope Network Austria) 2019, Keynote lecture. Tracing seasonal mammoth migrations in central Europe during the last ice age using Sr and O isotopes
- ESIR (European Society for Isotope Research) 2019, Lublin. Keynote lecture High resolution isotope tracing of geo- and archaeological processes by laser ablation (MC) ICP-MS

Organization of workshops and conference sessions:

- Participation in organization of X Himalaya-Karakorum-Tibet Workshop, Ascona, Switzerland, 1995.
- Co-organizer: The Isotopic Analysis of Minerals - Royal Holloway, University of London, 15/16 September 2003.
- Organization of a course: Application of Sr isotopes to marine environment studies. IAS Conference, Kraków, 22 June 2015.
- Organization of a course: Geochemical Modelling of Igneous Processes. ING PAN OBK, 22.11.2015-26.11.2015.
- Organization of a geochemical workshop ING PAN OBK 7.11.2016.
- Organization of 2 days international isotope workshop in Kraków 2018, celebrating 10th anniversary of establishment of Geochronology and Isotope Geochemistry Laboratory.
- 1st Polish Geological Congress, Kraków, Poland
- Conference celebrating 10th anniversary of Polish-Vietnamese scientific collaboration, Hanoi, Vietnam.
- European Workshop on Laser Ablation 2014, Egham, UK.
- EMC2 (2nd European Mineralogical Conference), Rimini, Italy, 11-15.09.2016. Session: The petrology-geochronology connection.
- CETEG (Central European Tectonic Studies Groups), 18-21.04.2018, Rytro, Poland
- CETEG (Central European Tectonic Studies Groups), 24-27.04.2019, Rozdrojovice, Czech Republic.

Main collaborators:

- Institute of Nuclear Physics Polish Academy of Sciences (Wojciech Mietelski)
- Laboratory of Heavy Ions, University of Warsaw (Jan Mierzejewski)
- Institute of Geological Sciences, University of Wrocław (Jacek Szczepański)
- Institute of Systematics and Evolution of Animals (Piotr Wojtal, Jarosław Wilczyński, Gyuri Lengyel)
- AGH University of Science and Technology (Szczepan Porębski)
- Museum of Warmia and Mazury, Olsztyn (Jarosław Sobieraj)
- GFZ-Potsdam (Daniel Harlov)
- Royal Holloway University of London, UK (Matthew Thirlwall)
- Goethe University, Frankfurt, Germany (Wolfgang Müller)

- Nagoya University, Japan (Simon Wallis)
- Australian National University, Canberra, Australia (Daniela Rubatto)
- Curtin University, Perth, Australia (Chris Clark)
- University of Adelaide, Australia (Martin Hand)
- Bochum University, Germany (Sumit Chakraborty, Arne Wilner)
- Charles University, Prague, Czech Republic (Karel Schulmann, Steve Collet, Jeremie Soldner)
- Rennes University, France (Pavel Pitra, Caroline Lotout)
- UiT The Arctic University of Norway (Jiri Konopasek, Jack J. Percival)
- Bergen University, Norway (Jan Košler)
- Indian Institute of Technology, Roorkee, India (Dilip Mukhopadhyay)
- Presidency University, Kolkata, India (Somnath Dasgupta)
- University of New Brunswick, Canada (Christopher R.M. McFarlane)
- University College of Southern California, USA (John P. Platt)
- University of Granada, Spain (Antonio Acosta Vagil)
- Stuttgart University, Germany (Hans Joachim Massone)
- Slovak Academy of Sciences, Slovakia (Milan Kohut)
- University of Göttingen, Germany (István Dunkl)
- University of Göteborg, Sweden (David Cornell)
- University of Potsdam, Germany (Valby Van Schijndel)

Awards

- 2016 Golden Cross of Merit. Awarded by the President of the Republic of Poland.
- 2014 Honour Badge of Minister for Environment Protection, “Distinguished for Polish Geology”.
- 2009 The Memorial Award for Science and Technology of the Vietnamese Academy of Science and Technology.
- 2009 The Medal for Natural Resource and Environment of the Ministry of Natural Resource and Environment 2009.
- 2009 The Medal for Geology of the Vietnam Geological Society.
- 2000 Young Scientist Award by Foundation for Polish Science.

Hirsch Index: 26

Citations (without self citations, web of science): 2100

SIGNED

Dr. Robert Anczkiewicz