

JANINA CZAS, PhD

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RESEARCH INTERESTS

Diamonds, Lithospheric Mantle, Metasomatism, Geochronology, Thermobarometry, Isotope Geochemistry, Mineralogy, and Petrology

WORK EXPERIENCE

Sine 2019: Institute of Earth Sciences, The Hebrew University of Jerusalem

Postdoctoral Fellow studying the compositions of microinclusions, in particular HDF (high density fluid) inclusions, in diamonds

2018 – 2019: Metal Earth, University of Alberta

Postdoctoral Fellow investigating mantle samples from Kirkland Lake and Wawa deposits, with a focus on Re-Os dating and platinum group element (PGE) geochemistry and unusual stable isotopes (Cu and Zn)

2016 – 2018: Diamond Exploration Research and Training School (DERTS)

Research Associate participating in training activities related to diamond exploration and mantle research

2014 – 2017: Arctic Resources Geochemistry Laboratory, University of Alberta

Research Assistant performing Re-Os dating and PGE chemistry on mantle samples

2008 – 2012: Petrology Department and Geocycles Research Centre, Johannes Gutenberg University

Research Assistant creating a guide for polarised light microscopy and mineral identification

EDUCATION

PhD in Diamond and Mantle Geochemistry (September 2012 - September 2018): Dept. of Earth and Atmospheric Sciences, University of Alberta, Canada. Supervisors: Drs. Thomas Stachel and D. Graham Pearson. *Title: The Quandary of the Sask Craton: Origin and Evolution of the Lithospheric Mantle beneath the Sask Craton*

April 2007 - February 2013: Diplom (MSc equivalent) in Diamond Geochemistry. Institute of Geosciences, Johannes Gutenberg University, Mainz, Germany. Supervisors: Drs. Dorrit E. Jacob and Stephen F. Foley. *Title: Geochemistry of polycrystalline diamond aggregates from Venetia (RSA) – the peridotitic suite*

June 2011: Diplom mapping in California. Mapping the Franciscan mélange along the Pacific Coast, Supervisor:
Dr. Thomas Zack

May 2009: Vordiplom (BSc equivalent) in Geology and Mineralogy. Institute of Geosciences, Johannes
Gutenberg University, Mainz, Germany

TEACHING

Department of Earth and Atmospheric Sciences, University of Alberta

Guest Lecturer

2019 Mineralogy II (EAS 232) - Optical Mineralogy

Teaching Assistant

2015 - 2018 Petrogenesis – Cratons, Kimberlites and Diamonds (EAS 466/566)

2013 - 2014 Mineralogy II (EAS 232)

2013 Advanced Geology Field School (EAS 333)

2012 – 2016 Igneous Petrology (EAS 331)

Institute of Geosciences, Johannes Gutenberg University – Teaching Assistant

2011 Geology Field School in Montpellier, France

2009 – 2010 Advanced Geology Field School in Kirn, Germany

LEADERSHIP

Grace Anne Stewart Speaker Series

Women in Earth Sciences Visiting Scholars Program aimed at celebrating diversity in the Earth & Atmospheric Sciences Department at the University of Alberta

Advisory Board (2018-2019)

Stewart Series Coordinator (2016-2017); featured in an article on the university website entitled “Speakers inspire women to break glass ceiling”

Founding member and fundraiser (2015); raised CAD \$15,000 in external financial support

ATLAS – Earth and Atmospheric Sciences Graduate Students’ Society

Vice-President (2014 – 2015)

Departmental seminar series coordinator (2013 – 2014)

Poster session coordinator at ATLAS Symposium (2013 and 2015)

Bringing Europeans Together Association (BETA) e.V.

Non-profit association aimed at introducing the European political system to students by organising political simulations of the European Union

Trustee (2012 – 2014)

Head of Fundraising for Model European Union (MEU); Strasbourg, France; raising €95,000 each year (2009 and 2011)

Founding member (2008)

SKILLS

Analytical	Proficient with (autonomous user): Fourier transform infrared spectroscopy (FTIR), laser-ablation inductively coupled plasma mass spectrometry (LA-ICPMS), as well as isotope dilution ICPMS, negative – thermal ionization mass spectrometry (N-TIMS), mounting and polishing of mineral grains, wet chemistry in a clean lab environment (Re-Os system) Experience with (used under supervision): Electron probe micro-analysis (EPMA), high resolution X-ray micro-computed tomography (CT-Scan), scanning electron microscope (SEM) using backscattered electron (BSE), cathodoluminescence (CL), electron backscatter diffraction (EBSD), and secondary electron (SE) detectors, secondary ion mass spectrometry (SIMS)
Software	Proficient with: Iolite, Microsoft Office, Adobe Creative Cloud Experience with: R (statistical computing software), GLITTER, Iqpet
Languages	German (native), English (fluent), French (basic)

AWARDS & HONOURS

- 2017** - Best Oral Presentation Award 11th International Kimberlite Conference
- 11th International Kimberlite Conference Travel Award
- GSA Academic Travel Award
- 2016** - FGSR (Faculty of Graduate Studies and Research) Graduate Student Teaching Award
- FGSR Graduate Student Travel Award
- Mineralogical Association of Canada Student Travel Grant
- Goldschmidt2016 Travel Grant
- 2015** - Christopher Scarfe Memorial Graduate Scholarship in Geology
- 2014** - GL Cumming Memorial Graduate Scholarship
- 2012** - University of Alberta Doctoral Recruitment Scholarship

MEDIA & OUTREACH

The Point Two Gram –explaining diamond-related research (Since 2020)

Team member working on content for the website and producing the podcast

12th International Kimberlite Conference (Since 2019)

Member of the Communications and Marketing Committee

Dinner Television, City TV – Live at the Canadian Centre for Isotopic Microanalysis (Aug 2016)

Participated in a segment about diamond research at the University of Alberta

International Diamond School - University of Alberta (Jun 2016)

Organised the field trip to Yellowknife and volunteered as a technical assistant during talk sessions

Dark Matters – Nerdgasm, TELUS World of Science, Edmonton, Canada (Aug 2015)

Presented on diamond research and Earth Sciences at a museum event open to the general public

Museum and lab tours - University of Alberta (2014 - 2017)

Volunteered at the Palaeontology & Mineralogy Museum and the Arctic Resources Lab, providing tours to school classes and visitors to the University of Alberta

76th Annual Meeting of the Meteoritical Society (MetSoc), Edmonton, Canada (Jul 2013)

Volunteer as a technical assistant during talk sessions and leading public tours through the meteorite exhibition

PROFESSIONAL ASSOCIATION MEMBERSHIPS

Since 2016 Mineralogical Association of Canada

Since 2015 European Association of Geochemistry

Since 2014 Society of Economic Geologists

PEER-REVIEWED PUBLICATIONS

Czas, J., Pearson, D.G., Stachel, T., Read, G.H., Kjarsgaard, B.A. Is there an Archean lithospheric mantle root beneath the Sask Craton, Canada? *In preparation, will be submitted to LITHOS.*

Czas, J., Stachel, T., Pearson, D.G., Stern, R.A., Read, G.H. 2018. Diamond brecciation and annealing accompanying major metasomatism in eclogite xenoliths from the Sask Craton, Canada. *Mineralogy and Petrology*. doi:10.1007/s00710-018-0590-y.

Czas, J., Jochum, K.P., Stoll, B., Weis, U., Yang, Q.-C., Jacob, D.E., Andreea, M.O. 2012. Investigation of matrix effects in 193 nm laser ablation-inductively coupled plasma-mass spectrometry analysis using reference glasses of different transparencies. *Spectrochimica Acta Part B* 78, 20-28.

SELECTED CONFERENCE PRESENTATIONS

Czas J, Legros H, Mathur R, Pearson DG, Falck H (2020) Cu isotopes in the Canadian sub-cratonic lithospheric mantle – a first look. *2020 NWT & Nunavut Geoscience Symposium*, Online Oral Presentation

- Czas J, Pearson DG, Stachel T, Kjarsgaard BA & Read G (2019)** A Diamondiferous Palaeoproterozoic Mantle Root beneath the Sask Craton (Western Canada). *Goldschmidt 2019*. Barcelona, Spain, Invited Speaker, Abstract No. 708
- Czas J, Pearson DG, Shirey SB, Waterton P, Schulze DJ (2019)** Age and metal endowment of the lithospheric mantle beneath the Abitibi greenstone belt. *GAC-MAC-IAH 2019*. Quebec, Canada, Oral Presentation
- Czas J, Stachel T, Pearson DG, Stern RA, Read GH (2017)** Diamond brecciation and annealing accompanying major metasomatism in eclogite xenoliths from the Sask Craton, Canada. *11th International Kimberlite Conference*. Gaborone, Botswana, Oral presentation, Extended Abstract No. 11IKC-4532.
- Czas J, Stachel T, Pearson DG, Stern RA, Read GH (2016)** Diamond formation beneath the Sask Craton – Insights from diamondiferous microxenoliths. *Goldschmidt2016*. Yokohama, Japan, Oral Presentation. Abstract No. 576
- Czas J, Stachel T, Pearson DG, Stern RA, Read GH. (2016)** Diamond formation and evolution beneath the Sask Craton, Canada. *3rd International Diamond School*. Edmonton, Canada, Oral Presentation.
- Czas J, Stachel T, Pearson DG, Stern RA, Read GH (2016)** Diamond genesis and evolution in the FALC area of the Sask Craton. *GAC-MAC. 2016*. Whitehorse, Canada, Oral Presentation.
- Czas J, Pearson DG, Stachel T, Read GH, Kjarsgaard BA (2015)** Is there an Archean lithospheric mantle root beneath the Sask Craton, Canada? Constraints from peridotite xenoliths in the Fort à la Corne kimberlite field. *Joint Assembly (AGU-GAC-MAC-CGU)*. Montreal, Canada, Oral Presentation. Abstract No 35482
- Czas J, Pearson DG, Stachel T, Read GH, Kjarsgaard BA (2015)** The lithospheric mantle of the Sask Craton, Canada – Re-Os and platinum group element systematics. *2nd International Diamond School*. Bressanone/Brixen, Italy, Oral and Poster Presentation