



Czech University of Life Sciences Prague
**Faculty of Environmental
Sciences**

Recent and historical anthropogenic contamination of the Arctic and Subarctic as recorded by metal isotopes

Jaroslav Andrle

Introduction into the problematic

Nikel (RUS)



photo BarentsObserver

Norilsk (RUS)



photo <http://russiamagazine.livejournal.com/>



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Aims of the project

- Analysis of **atmospheric** metal **pollution** transport
- **History** of metal pollution in the study area
- Metal **isotopes** (mainly Pb and Hg)
- Measurement of isotope composition mainly in **snow, peat** and **lichen** archives
- **Determination** of main pollution **sources**



Other activities of our faculty

- Ecology and taxonomy of arthropods
- Conservation implications of avian studies in human-altered landscapes
- Sustainability of agriculture in varying economic conditions of EU countries
- Spatial analyses in emergency management
- Geoinformatics and remote sensing for (landscape) ecology in changing environments
- Vegetation ecology of floodplain forests
- Enhancement of nitrogen and phosphorus removal in constructed treatment wetlands



Other activities of our faculty

- Vernacular historic landscapes of Europe and their preservation within a sustainable landscape management system
- Management for sustainable spatial development
- Chemical stabilization of metal/metaloids in contacted soils
- Grassland ecology and management research team
- Global climatic changes in the earth's past and their influence on evolution of life
- Modeling of hydrological processes under changing climatic conditions





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Thank you for your attention

And please don't hesitate to contact me

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