

Division of Natural System	Research field	Environmental Science of Earth Surface	Lab. ID NS18
Laboratory web site	<a href="http://earth.s.kanazawa-u.ac.jp/chronology/">http://earth.s.kanazawa-u.ac.jp/chronology/</a> <a href="http://earth.s.kanazawa-u.ac.jp/fukushi/">http://earth.s.kanazawa-u.ac.jp/fukushi/</a> <a href="http://www.thecloudmaker.info">http://www.thecloudmaker.info</a>		
<b>Research subjects</b>			
<p>Our research target spans from the surface of the solid Earth to the atmosphere to understand environmental processes by means of geochronology, aquatic geochemistry and atmospheric observation. Geochronological techniques are applied to the reconstruction of geological history, including mountain building processes, volcanic activities, faults, etc. Development of methodology is also the important research topic. Aquatic geochemistry focuses the chemical reaction occurred on the Earth's hydrosphere based on the laboratory experiments and related theory. The basic understanding is applied to water&amp;soil remediation, reconstruction of environmental fluctuation, etc. In the atmospheric science, physical and chemical properties of atmospheric particles are researched by continuous observation at Noto Observatory site and applied to understand their effects on global climate changes.</p>			
<b>Master/Doctor course: Education policy, curriculum, typical activity in the laboratory</b>			
<p>A student is supervised by one of three staffs and belongs to the research group Geochronology, Atmospheric Science, or Aquatic Geochemistry. One seminar per a week is held by each group. The Joint seminar is also held every week. Students are encouraged to join the related research societies and have presentations in the international conferences.</p>			
<b>Daily life in the laboratory, etc.</b>			
<p>All students have desks in the same floor and discuss each other regularly.</p>			
<b>Message or comments by the laboratory faculty staffs</b>			
<p>Our research group works on variety of research topics with variety of methodologies. You will find the research target of your interest, which your ability is effectively applied to.</p>			
<b>Recent Master theses in these 3 years (+ more if appropriate)</b>			
year.month	Thesis title (including English translation of Japanese thesis title)		
2017.3	Desorption of cesium from clay minerals distributed near the Fukushima Daiichi Nuclear Power Plant		
2017.3	Source identification of atmospheric aerosols transported to Noto region on the basis of Sr-Nd-Pb isotope ratios		
2016.3	Predictive model for lead adsorption on soil minerals		
2016.3	Adsorption of amino acids on oxide surfaces		
2016.3	Size resolved chemical composition of atmospheric aerosols in Noto region: Special emphasis on nano particles		
2016.3	Source apportionment of carbonaceous matter found within fine aerosols (PM <sub>2.5</sub> ) in Noto region		
2015.3	Seasonal characteristics of initial growth rates of cloud nuclei based on year round observation		
2015.3	Sedimentation processes of radioactive Cs contaminated soil in storage reservoirs in Iwaki,		
2014.3	Evaluation of ice nucleation potentials of pollens and these extracts found in Japan		
2014.3	Thermo-luminescence characteristics of calcites		
2014.3	In-situ spectroscopic observation of transformation behavior of amorphous calcium carbonate		
2014.3	In-situ infrared spectroscopic observation of interface between nanoparticles and water		
2013.3	Reconstruction of Hakusan volcanic activities by luminescence dating		
2013.3	Formation condition of monohydrocalcite		
2013.3	Mineralogy of lacustrine sediment from Darhad basin and its relation to environmental changes		
2013.3	Mechanistic modeling of Eu(III) sorption on granite		
<b>Recent Doctoral theses in these 3 years (+ more if appropriate)</b>			
year.month	Thesis title (including English translation of Japanese thesis title)		
2017.3	Thermoluminescence characteristics of calcite for precise age determination		

2014.3	Improvement and development of dating methods using radiation damage for reconstructing Quaternary volcanic history
2014.3	Present earth-surface processes and historical hydro-environmental fluctuations inferred from lake-catchment systems
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