

Open Yearly Meeting of the Nordic Astrobiology Network
“Isotopes as diagnostic tools in astronomy, geology and biology”
Höör, Sweden, 11-13 June 2013

Scientific programme

Monday, June 10, 2013	
14:00 - 19:00	Registration of participants
19:00 – 21:00	Buffet dinner
Tuesday, June 11 2013	
08:00 - 09:00	Registration
Session 1: Isotopes in the interstellar medium	
Chair: Carina Persson, Chalmers Institute of Technology, Sweden	
09:00 - 09:45	Isotope ratios in Diffuse Molecular Clouds <i>Steven Federman, University of Toledo, USA</i>
09:45 – 10:00	Discussion
10:00 - 10:35	Spin-State-Dependent Ion-Molecule Chemistry as the Origin of ¹⁵N and D Isotopic Anomalies in Primitive Matter <i>Eva Wirström, Chalmers Institute of Technology, Sweden</i>
10:35 - 10:45	Discussion
10:45 - 11:30	Coffee break
11:30 - 12:15	The ¹⁴N/¹⁵N Ratio across the Galaxy <i>Lucy Ziurys, University of Arizona (USA)</i>
12:15 - 12:30	Discussion
12:30 - 14:00	Lunch
Session 2: Isotopes in stars and stellar environments	
Chair: Steven Federman, University of Toledo, USA	
14:00 - 14:35	Deuterated water in star-forming regions <i>Audrey Coutens, University of Copenhagen, Denmark</i>
14:35 - 14:45	Discussion
14:45 - 15:20	Probing the nitrogen isotope composition in the gas around low-mass protostars <i>Susanne Wampfler, University of Copenhagen, Denmark</i>
15:20 - 15:30	Discussion
15:30 - 16:15	Coffee break
16:15 - 17:00	Isotopes in the chronology of the early Solar System <i>Steve Romaniello, Arizona State University, USA</i>
17:00 - 17:15	Discussion
17:15 - 18:00	Carbon isotope ratios in evolved stars <i>Grażina Tautvaišiene, Vilnius University</i>
18:00 - 18:15	Discussion
18:30 - 20:00	Dinner
20:00	Mingle with posters

Wednesday, June 12, 2013

Session 3: Isotopes in stellar systems and planetary atmospheres	
Chair: Wolf Geppert, Stockholm University, Sweden	
09:00 - 09:35	New statistical tools for data-analysis in high-resolution mass-spectroscopy with a COSIMA instrument aboard the ROSETTA space mission <i>Boris Zaprudin, University of Turku, Finland</i>
09:35 - 09:45	Discussion
09:45 - 10:30	Cosmogenic isotopes in ice cores and tree rings as proxies for cosmic ray and solar variability <i>Florian Adolphi, Lund University, Sweden</i>
10:30 - 10:40	Discussion
10:40 - 11:15	Coffee break
11:15 - 12:00	Sulfur isotopes and the evolution of the atmosphere <i>Mark Claire, University of St. Andrews, UK</i>
12:00 - 12:15	Discussion
12:30 - 14:00	Lunch
Session 4: Isotopes in the geosphere	
Chair: Nicola McLoughlin, University of Bergen, Norway	
14:00 - 14:45	Stable isotope insights into the Neoproterozoic Earth environment <i>Aubrey Zerkle, University of Saint Andrews, UK</i>
14:45 - 15:00	Discussion
15:00 - 15:45	Reconstructing supercontinents by U-Pb geochronology of Large Igneous Provinces (LIPs) <i>Ulf Söderlund, Lund University, Sweden</i>
15:45 - 15:55	Discussion
15:55 - 16:30	Coffee break
16:30 - 17:05	The rise of continents and the emergence of soils constrained by Zn isotopes <i>Marie-Laure Pons, University of Lyon 1, France</i>
17:05 - 17:15	Discussion
17:15 - 18:00	The value of carbon isotope ratios across mass extinction events in the geological record <i>Vivi Vajda, Lund University, Sweden</i>
18:05 - 18:15	Discussion
18:45	Dinner
20:00	Meeting of the Team Coordinators Of the Nordic Network of Astrobiology

Thursday, June 13, 2012

Session 5: Isotopes in biology

Chair: Vivi Vajda, Lund University, Sweden

09:00 - 09:35	Priming effect and isotope ^{13}C dynamics at natural abundance during the biodegradation of lignin in a soil environment <i>Irene Fernandez, Instituto de Investigaciones Agrobiológicas de Galicia, IAG-CSIC, Santiago de Compostela, Spain</i>
09:35 - 09:45	Discussion
09:45 - 10:15	Coffee break
10:15 - 11:00	The ^{15}N isotope effect in living organisms: A neutron can make the difference <i>Christoph W. Turck, MPI for Psychiatry, Munich, Germany</i>
11:00 - 11:15	Discussion
11:15 - 11:30	Information about the excursion and the Island of Ven
11:30 - 12:45	Lunch
12:45 - 22:00	Excursion to Ven Island Dinner at Bosjökloster

Friday, June 14, 2012

07:30 - 09:00	Breakfast, Departure of participants
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