

Anouk Margaretha Borst, Ph.D.

SoS RARE Postdoctoral Research Fellow
 School of Earth and Environmental Sciences
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EMPLOYMENT

- 2016-current **Postdoctoral Research Fellow.** *University of St Andrews.* Funded by SoS RARE consortium (NERC, UK)
- Petrogenetic studies of Gardar Rift Magmatism in South Greenland, using Lu-Hf, Sm-Nd and U-Pb isotope geochemistry, petrography and mineral chemistry, to develop HFSE/REE deposit models
 - Mineralogical, crystallographic and chemical characterisation of REE ores from Greenland, China and Madagascar using synchrotron-based XANEX, EXAFS, micro-XRF and micro-XRD techniques
- 2012 –2016 **Ph.D. candidate.** *Geological Survey Denmark and Greenland/University of Copenhagen*
- 2006 –2012 **Teaching/Lab assistant.** *VU University Amsterdam*
- Teaching assistant during class exercises, practicals and field courses in various BSc level courses in mineralogy, geography and mathematics
 - Recruiting high school students for the BSc program Earth Sciences at the VU, preparing and giving presentations and demonstrations at high schools and information events
 - Laboratory assistant in a forensic cold case project led by Dr. Laura Font and Prof. Gareth Davies, preparing and cleaning human remains (bone, teeth, hair, nails) for isotopic provenance studies

EDUCATION

- 2012 – 2016 **Doctor of Philosophy, Petrology and Geochemistry** (Defended June 2016)
*Geological Survey of Denmark and Greenland, Department of Petrology and Economic Geology
 University of Copenhagen, Department of Geosciences and Natural Resource Management*
Thesis: 'Mineralogy and Geochemistry of REE, Zr, Nb mineralized nepheline syenites in the peralkaline Ilímaussaq Complex, South Greenland', Advisors: Prof. T.E. Waight, H. Friis and T.F.D. Nielsen.
 Funded by Geocenter Denmark.
- 2009 – 2012 **Master of Science, Solid Earth** (Cum Laude)
VU University Amsterdam, Department of Earth Sciences
Thesis: 'Formation and modification of the sub-cratonic lithospheric mantle beneath Botswana: A petrological, geochemical and isotopic study of mantle xenoliths from the Letlhakane kimberlite mine.' Advisor: Prof. Gareth Davies. Grade 9/10
- 2005 - 2009 **Bachelor of Science, Earth Sciences** (High Merit)
VU University Amsterdam, Department of Earth Sciences
Thesis: 'Geological and geochemical analysis of the lunar South Pole – Aitken Basin'. Advisors: Prof. Gareth Davies, Prof. W. van Westrenen and Prof. B. Foing. Grade 8.6/10

RELEVANT COURSES AND PROJECTS

- 2012 - 2015 **Selected Ph.D. courses/workshops**
- Leapfrog 3D geological modelling course, *University of St Andrews* 2017
 - XAS workshop on XANES/EXAFS Data Processing, *Diamond Light Source* 2017
 - Earth and Planetary Dynamics and Materials, *CEED, University of Oslo* 2015
 - Mineral Industry Sustainability in a Nordic context, *Nordmin, University of Luleå* 2014
 - EREAN Summerschool on Rare Earth Technology, *KU Leuven* 2014
 - NERC Geology to Metallurgy of Critical Rare Earths, *University of Leeds* 2014
 - Ph.D. Elite course Tectonics, *University of Copenhagen* 2013
 - Structural State of Minerals and their applications, *Geological Museum, Copenhagen* 2013
 - ESA Summerschool 'Designing sample return missions to the Moon, Asteroids or Comets', *Austria* 2008
- 2009 **EuroGeoMars campaign at the Mars Desert Research Station, Mars Society, Utah USA**
 Geologist/Health and Safety Officer in MDRS Crew 76, commanded by Dr. Vladimir Pletser. Responsible for deployment and testing of geological instruments designed for planetary exploration (ESA/NASA), including a miniaturised XRF/XRD machine, ground penetrating radar, rock drills and a Raman spectrometer. Worked as part of multi-disciplinary and international crew, daily reports to ground control team and external collaborators.
- 2008 **Internship at the European Space Agency (ESA-ESTEC), Noordwijk, the Netherlands**

1 year BSc research project on lunar geology and planetary exploration, using multispectral data and remote sensing mineral mapping techniques to investigate geological units of the South Pole-Aitken Basin with the aims of identifying sample-return sites. Organised internal seminars at ESA and presented work at international conferences.

QUALIFICATIONS

Field experience

- Sampling fieldtrip in the alkaline Gardar Province and Ilímaussaq complex, South Greenland for Ph.D. research (4 weeks)
- Mantle xenolith sampling and kimberlite core logging in the Venetia (South Africa), Orapa and Letlhakane (Botswana) diamond mines for MSc research (2 weeks)
- Structural mapping courses in SE and central Spain, the Eiffel in Germany, the Ardennes in Belgium (10 weeks)
- Physical geography (soft sediment) drilling transects in the SW Netherlands (>3 weeks)
- Structural, sedimentological and petrological field excursions in the Dinaric Alps (Serbia and Montenegro), the Troodos ophiolite (Cyprus), the Massif Central igneous province (France), Sorbas sedimentary basin (SE-Spain) and a carbonate platform in the Cantabrian Mountains, Asturias (N-Spain) (> 9 weeks)
- Conducted experiments under simulation at the Mars Desert Research Station, Colorado Plateau, Utah, with 6-man international crew, participated in psychological-, food- and habilitation studies, wearing full space suit-gear during extravehicular geological surveys and living/working in isolated conditions (3 weeks)

Analytical skills

- Experienced independent user of EMPA (JEOL and CAMECA systems), LA-ICPMS, XRF, Powder-XRD, Multi-Collector Inductively Coupled Mass Spectrometer (Neptune), Thermal Ionisation Mass Spectrometer (Triton Plus, Finnigan 262, VG Sector-54) and Scanning Electron Microscope techniques for mineral identification, major and trace elements and isotopic analyses
- Synchrotron-based XANES, EXAFS, micro-XRF and micro-XRD element mapping and data processing using Athena, Artemis, PyMCA and DAWN software
- Extensive clean room experience, e.g. standard cleaning procedures, high temperature acid bombing and mineral digestion, spiking for isotope dilution and column chemistry for U, Pb, Rb, Sr, Sm, Nd, Lu and Hf separation
- Experienced in sample and thin section preparation, incl. drilling, sawing, crushing, XRF pellet and bead preparation, Frantz magnetic separation, heavy liquid separation (LST, diiodomethane), picking, and mounting.
- Skilled in petrographic and microstructural analysis of igneous rocks in thin section using transmitted light optical microscopy, BSE and CL imaging

Teaching

- Taught practical labs in mineralogy, mathematics, structural geology, petrology and isotope geochemistry
- Lectured basic courses in radiogenic isotope geochemistry & economic geology
- Teaching assistant during field mapping courses (structural geology/sedimentology/petrology) in the Ardennes, Belgium (1 week), Sorbas, Spain (2x 1 week), Isle of Mull, Scotland (1 week), Isle of Rum, Scotland (1 week), a physical geography field course in quaternary deposits in Brabant, NI (1 week), and MSc level geological field-methods course in Utah, USA (2 weeks)

Other

- Driver's license since April 2005

GRANTS

- **NERC:** Analytical grant for zircon U-Pb analyses at NIGL Keyworth (2017; £99,000)
- **Diamond Light Source:** 3 days I18 Beamtime for Y and Nd XANES studies of eudialyte alteration minerals (2016)
- **GeoCenter Denmark:** Ph.D. scholarship to study critical metal resources in South Greenland (2012-2015)
- **SAFT Society for Arctic Research:** Travel grant for analytical work at the University of Oslo and Natural History Museum of Oslo (2014)
- **NordMin:** Travel grant for NordMin PhD course Sustainable Mining at Luleå University, Sweden (2014)
- **International Lunar Exploration Working Group:** Financial support for EuroGeoMars Field Campaign (2009)
- **ESRON:** Travel grant for participation in ESA/FFG Summerschool Alpbach, Austria (2008)

EXTRACURRICULAR ACTIVITIES

2005-2012 **GeoVUusie Study Association for Earth Scientists, VU Amsterdam**

Active member, weekly responsibilities for organization of social activities, the MSc introduction week, geological excursions and seminars, managed and coordinated the bar committee, responsible for activities, purchases and assets of the student bar. Advisory member since 2009

2010-2011 **AAPG/SPE Student Chapters, VU Amsterdam**

American Association of Petroleum Geoscientists and Society of Petroleum Engineers

Co-founder (SPE Student Chapter) and secretary board member (combined AAPG/SPE Student Chapter)

2006-2008 **L'AVA Sorority for Earth Sciences, VU Amsterdam.** Co-founder (2006) and secretary board member (2008)

LANGUAGES

Dutch	Native language
English	Full professional proficiency
Danish	Written and spoken, elementary proficiency (Module 3)
German	Basic knowledge

WEBPAGES

LinkedIn: <https://dk.linkedin.com/in/anoukborst>

ResearchGate: www.researchgate.net/profile/Anouk_Borst

Twitter: twitter.com/Anoukborst

Publication List

PEER REVIEW

- A.M. Borst**, H. Friis, T.E. Waight, T.F.D. Nielsen (In Press) Bulk and mush melt evolution in agpaitic systems: Insights from compositional variations in eudialyte-group minerals of the Ilímaussaq complex, South Greenland, *Journal of Petrology*
- A.M. Borst**, H. Friis, T. Andersen, T.E. Waight, T.F.D. Nielsen, M. Smit (2016) Zirconosilicates in the kakortokites of the Ilímaussaq complex, South Greenland: Implications for fluid evolution and HFSE-REE mineralisation in agpaitic systems, *Mineralogical Magazine* 80(1), p. 1-26
- J. Kolb, A. Bartels, **A.M. Borst**, R-M. Bell (2013) Excursion Guidebook: GREI. Geological Excursion to South Greenland. SGU (Geological Survey of Sweden), 12th Biennial SGA Meeting, Mineral deposit research for a high-tech world, Uppsala Sweden 12-15 August 2013. Chapters: **A.M. Borst**, The Ilímaussaq Complex, p. 42-50 and **A.M. Borst** and A. Bartels, Metallogeny of the Gardar Province, p. 50-51
- A.M. Borst**, B.H. Foing, G.R. Davies, W. van Westrenen (2012) Surface mineralogy and stratigraphy of the lunar South Pole-Aitken basin determined from Clementine UV/VIS and NIR data, *Planetary and Space Science* 68, *Terrestrial Planets I*, p. 76-85
- B.H. Foing, C. Stoker, J. Zavaleta, P. Ehrenfreund C. Thiel, P. Sarrazin, D. Blake, J. Page, V. Pletser, J. Hendrikse, S. Direito, M. Kotler, Z. Martins, G. Orzechowska, C. Gross, L. Wendt, J. Clarke, **A.M. Borst**, S.T.M. Peters, M.-B. Wilhelm, G.R. Davies & ILEWGM **EuroGeoMars 2009 team** (2011) Field Astrobiology Research in Moon-Mars Analogue Environment: Instruments & Methods, *International Journal of Astrobiology* 10(3), p. 141-160
- Pletser, V. and **EuroGeoMars 2009 team** (2010) A Mars Human Habitat: Recommendations on Crew Time Utilization, and Habitat Interfaces, *Journal of Cosmology*, Vol 12, p. 3928-3945

IN PREPARATION

- A.M. Borst**, T.E. Waight, M. Storey, P. Le Roux (in prep) Geochronology of the kakortokites in the Mesoproterozoic Ilímaussaq Complex, South Greenland
- A.M. Borst**, H. Friis, A. Finch, T. Geraki, (in prep) Probing the structural state of Y and Nd in eudialyte group minerals using X-ray Absorption Spectroscopy
- A.M. Borst**, M. Smith, A. Finch, G. Estrade, E. Marquis, T. Geraki (in prep) REE adsorption in lateritic ion absorption clays from Madagascar and China. A XANES/EXAFS study.

FIRST-AUTHOR CONFERENCE CONTRIBUTIONS

- A.M. Borst**, P.N. Gamaletsos, A. A. Finch, N.J.H. Horsburgh, H. Friis, T. Kasama, J. Goettlicher, R. Steiniger, K. Geraki (2018) Probing the structural state of Y and Nd in eudialyte using X-ray absorption spectroscopy, NGWVM Copenhagen (Oral)
- A.M. Borst**, A. A. Finch, H. Friis, N.J.H. Horsburgh, P.N. Gamaletsos, J. Goettlicher, R. Steiniger, K. Geraki (2018) Structural state of Y and Nd in eudialyte using X-ray absorption spectroscopy, MDSG Brighton (Oral)
- A.M. Borst**, H. Friis, A.A. Finch, (2016) Optimising the REE-Zr-Nb potential of eudialyte and its alteration products in the Ilímaussaq complex, South Greenland, MDSG 2016 Abstract, Bristol (Poster)
- A.M. Borst**, H. Friis, T.E. Waight (2015) Fractionation of agpaitic magmas from compositional zoning in kakortokite-hosted eudialyte, Ilímaussaq Complex, Greenland. Goldschmidt Prague, Abstract 2384 p. 347 (Oral presentation)
- A.M. Borst**, H. Friis, T. Andersen, T.E. Waight, T.F.D. Nielsen, M. Smit (2015) Chemographic modelling of secondary zirconosilicates: Implications on late-stage fluid evolution in agpaitic nepheline syenites of the Ilímaussaq Complex, South Greenland, Dansk Geologisk Forening General Assembly (Poster presentation, Best PhD Poster)
- A.M. Borst** (2014) REE mineralisation in the Ilímaussaq Complex, South Greenland, IGN PhD Conference, Copenhagen University, November 2014 (Oral presentation)
- A.M. Borst**, M. Smit, H. Friis, T.E. Waight, T.F.D. Nielsen (2014) Alteration of eudialyte and implications on the REE, Zr, and Nb resources of the layered kakortokite sequence in the Ilímaussaq Complex, South West Greenland, ERES Conference, Milos Greece, September 2014, Book of Abstracts p.36/Conference Proceedings p.325-332 (Oral presentation)
- A.M. Borst**, T.E. Waight, T.F.D. Nielsen, P. Kalvig (2014) Eudialyte decomposition and REE – HFSE fractionation in the kakortokite series of the peralkaline Ilímaussaq Complex, South Greenland, 31st Nordic Geological Winter Meeting Lund, 2014, Abstract, p.52 (Poster presentation)
- A.M. Borst**, B. Davidheiser, T. Meulemans, M. Klaver, G. Davies (2012), The origin and evolution of the lithospheric mantle beneath the Makondi Fold Belt in Botswana; an extensive geochemical study on peridotite xenoliths from the Letlhakane diamond mine, 10th International Kimberlite Conference, India, Extended Abstract (Poster presentation)
- A.M. Borst**, S. Peters, B.H. Foing, C. Stoker, L. Wendt, C. Gross, J. Zavaleta, P. Sarrazin, D. Blake, P. Ehrenfreund, L. Boche-Sauvan, J. Page, C. McKay, P. Batenburg, G. Drijkoningen, E. Slob, P. Poulakis, G. Visentin, A. Noroozi, E. Gill, M. Guglielmi, M. Freire, R. Walker, M. Sabbatini, V. Pletser, E. Monaghan, R. Ernst, J. Oosthoek, P. Mahapatra, D. Wills, C. Thiel, J.P. Lebreton, T. Zegers, A. Chicarro, D. Koschny, J. Vago, H.Svedhem, G. Davies, A. Westenberg, J. Edwards, ExoGeoLab team & EuroGeoMars team (2009) Geochemistry of Utah Morrison formation from EuroGeoMars campaign, Int. Conf. Comparative Planetology: Venus – Earth – Mars, ESA-ESTEC, Noordwijk, The Netherlands (Oral Presentation)
- A.M. Borst**, F. Bexkens, B. Foing, D. Koschny, G. Davies and W. van Westrenen (2009) Geological and geochemical analysis of stratigraphic units in the South Pole - Aitken Basin, *Geophysical Research Abstracts*, Vol. 11, EGU General Assembly, Abstract 12255-2 (Oral presentation)

A.M. Borst, F. Bexkens, B.H. Foing, D. Koschny, S.T.M. Peters (2008) Geochemical analysis of units within the South Pole-Aitken Basin, EPSC, Muenster, Germany, Abstract 00129, (Oral presentation)

CO-AUTHOR CONFERENCE CONTRIBUTIONS

- M. van de Ven, **A.M. Borst**, G. Davies, A. Finch (2018) Trace element and Nd-isotope data of eudialyte from the Kakortokite sequence of the Ilímaussaq complex suggest subsolidus remobilization of rare earth elements by magmatic fluids, NGWM Copenhagen, Abstract
- A. A. Finch, **A. M. Borst**, W. Hutchison, N. J. Horsburgh, T. Andersen, S. Simonsen (2018) The Spatio-Temporal Evolution of Hf isotopes in the Gardar: Evidence for Mid-Proterozoic Crustal Recycling? NGWM Copenhagen
- P. N. Gamaletsos, **A.M. Borst**, T. Kasama, A. A. Finch, J. Goettlicher, R. Steiniger, B. Wenzell, Z.I. Balogh, A. Godelitsas (2018) Thorium in eudialyte ore deposits from Greenland studied by synchrotron radiation (μ -XRF/-XAFS) and electron microscopic techniques (SEM, TEM), NGWM Copenhagen
- G.R. Davies, Q. van der Meer, M. Klaver, **A.M. Borst**, B. Davidheiser, T.J. Meulemans, S. de Jong, C.S. Nooitgedacht, C.M. de Heij (2017) The genesis and evolution of the subcontinental lithosphere beneath Botswana and N. South Africa, 11th International Kimberlite Conference 2017, Gabarone Botswana
- P. Nason, M. Smith, **A. Borst**, A. Finch, G. Estrade, E. Marquis, T. Geraki, (2017) REE enrichment processes in the Ambohimirahavavy Complex ion adsorption deposit, Madagascar using Y-Nd μ -XANES Spectroscopy, Goldschmidt 2017, Paris
- W. Hutchison, A.A. Finch, A.J. Boyce, H. Friis, **A. M. Borst**, N. J. Horsburgh (2017) New insights into magma ascent and emplacement from alkaline roof zones of Southern Greenland, VMSG 2017 Leeds
- A. A. Finch, **A. M. Borst**, W. Hutchison, N. J. Horsburgh, T. Andersen, S. Simonsen, (2017) The Spatio-Temporal Evolution of Rift Magmatism: Insights from Hf in Gardar Magmas, VMSG 2017 Leeds
- T. Meulemans, **A.M. Borst**, B. Davidheiser, G.R. Davies (2012) The origin and modification of the subcontinental lithospheric mantle of Botswana: constraints from peridotite xenoliths of the Orapa mine Botswana, 10th International Kimberlite Conference, India, 2012 (Oral presentation by G. Davies)
- J. Hendrikse, B. H. Foing, E. Monaghan, C. Stoker, J. Zavaleta, F. Selch, P. Ehrenfreund, L. Wendt, C. Gross, C. Thiel, S. Peters, **A.M. Borst**, P. Sarrazin, D. Blake, L. Boche-Sauvan, J. Page, V. Pletser, P. Mahapatra, D. Wills, C. McKay, G. Davies, W. van Westrenen, P. Batenburg, G. Drijkoningen, E. Slob, P. Poulakis, G. Visentin, A. Noroozi, E. Gill, M. Guglielmi, M. Freire, R. Walker, ExoGeoLab Team, EuroGeoMars Team (2010), Highlights from Remote Controlled Rover for EuroGeoMars MDRS Campaign, 41st Lunar and Planetary Science Conference, Abstract #2435
- L. Boche-Sauvan, B. H. Foing, C. Stoker, P. Ehrenfreund, L. Wendt, C. Gross, C. Thiel, S. Peters, **A.M. Borst**, J. Zavaleta, P. Sarrazin, D. Blake, J. Page, V. Pletser, E. Monaghan, P. Mahapatra, A. Noroozi, P. Giannopoulos, A. Calzada, R. Walker, T. Zegers, ExoGeoLab, ILEWVG ExoHab Team, EuroGeoMars Team (2010), ILEWVG ExoHab & EuroGeoMars Campaigns: Habitability & Human Operations, 41st Lunar and Planetary Science Conference, Abstract #1759
- B.H. Foing, L. Boche-Sauvan, C. Stoker, P. Ehrenfreund, L. Wendt, C. Gross, C. Thiel, S. Peters, **A.M. Borst**, J. Zavaleta, P. Sarrazin, D. Blake, J. Page, V. Pletser, E. Monaghan, P. Mahapatra, D. Wills, A. Noroozi, R. Walker, T. Zegers, ExoLab and ExoHab Team EuroGeoMars Team (2010), ExoHab and EuroGeoMars Campaigns: Human Exploration and Astrobiology, Astrobiology Science Conference, Abstract # 5625
- Foing B. H. Mahapatra P. Boche-Sauvan L. Som S. Page J. Stoker C. Zhavaleta J. Sarrazin P. Blake D. Poulakis P. Visentin G. Noroozi A. Ehrenfreund P. Barton A. Lebreton J. P. Zegers T. Koschny D. Peters S. **Borst A.M.** Monaghan E. Wills D. Thiel C. Wendt L. Gross C. Nijman F. Pletser V. McKay C. Davies G. van Westrenen W. Batenburg P. Drijkoningen G. Slob E. Gill E. Guglielmi M. Freire M. Walker R. ExoGeoLab Team (2010), ExoGeoLab Test Bench for Landers, Rovers and Astrobiology Instrument, Astrobiology Science Conference, Abstract #5477
- B.H. Foing, S. Peters, **A.M. Borst**, L. Wendt, C. Gross, C. Stoker, J. Zhavaleta, P. Sarrazin, D. Blake, P. Ehrenfreund, L. Boche-Sauvan, J. Page, C. McKay, P. Batenburg, G. Drijkoningen, E. Slob, P. Poulakis, G. Visentin, A. Noroozi, E. Gill, M. Guglielmi, M. Freire, R. Walker, V. Pletser, E. Monaghan, R. Ernst, J. Oosthoek, P. Mahapatra, D. Wills, C. Thiel, J.P. Lebreton, T. Zegers, A. Chicarro, D. Koschny, J. Vago, H.Svedhem, G. Davies, A. Westenberg, J. Edwards, ExoGeoLab team & EuroGeoMars team (2009). Geology and geochemistry highlights from EuroGeomars MDRS campaign, Int. Conf. Comparative Planetology: Venus – Earth – Mars, ESA-ESTEC, Noordwijk, The Netherlands
- P.A.W. Batenburg, B.H. Foing, G.G. Drijkoningen, E.K.A. Gill, P. Poulakis, G. Visentin, J. Page, V. Pletser, S. Peters, **A.M. Borst**, P. Mahapatra, ExoGeoLab Team, EuroGeoMars Team (2009), "Reflection Seismology Systems for Planetary Geology: First Tests at ESTEC ExoGeoLab and MDRS, Utah", 40th Lunar and Planetary Science Congress, Abstract #2536
- B.H. Foing, J. Page, P. Poulakis, G. Visentin, A. Noroozi, E. Gill, P. Batenburg, G. Drijkoningen, E. Slob, M. Guglielmi, M. Freire, R. Walker, M. Sabbatini, V. Pletser, E. Monaghan, L. Boche-Sauvan, R. Ernst, J. Oosthoek, S. Peters, **A.M. Borst**, P. Mahapatra, D. Wills, C. Thiel, L. Wendt, C. Gross, J.P. Lebreton, T. Zegers, C. Stoker, J. Zhavaleta, P. Sarrazin, C. Blake, C. McKay, P. Ehrenfreund, A. Chicarro, D. Koschny, J. Vago, H.Svedhem, G. Davies, ExoGeoLab team & EuroGeoMars team (2009) ExoGeoLab lander and rover instruments, Int. Conf. Comparative Planetology: Venus – Earth – Mars, ESA-ESTEC, Noordwijk, The Netherlands
- J. Hendrikse, B.H. Foing, C. Stoker, J. Zavaleta, F. Selch, P. Ehrenfreund, L. Wendt, C. Gross, C. Thiel, S. Peters, **A.M. Borst**, P. Sarrazin, D. Blake, L. Boche-Sauvan, J. Page, V. Pletser, E. Monaghan, P. Mahapatra, D. Wills, C. McKay, G. Davies, W. van Westrenen, P. Batenburg, G. Drijkoningen, E. Slob, P. Poulakis, G. Visentin, A. Noroozi, E. Gill, M. Guglielmi, M. Freire, R. Walker, ExoGeoLab team & EuroGeoMars team (2009). Highlights from Remote Controlled Rover for EuroGeoMars MDRS Campaign, European Planetary Science Congress, EPSC Abstracts, Vol. 4
- Foing B. H. Koschny D. Grieger B. Josset J.-L. Beauvivre S. Grande M. Huovelin J. Keller H. U. Mall U. Nathues A. Malkki A. Noci G. Sodnik Z. Kellett B. Pinet P. Chevrel S. Cerroni P. de Sanctis M. C. Barucci M. A. Erard S. Despan D. Muinonen K. Shevchenko V. Shkuratov Y. Elouzi M. Peters S. **Borst A.M.**, Bexkens F. Boche-Sauvan L. Mahapatra P. Almeida M. Frew D. Volp J. Heather D. McMannam P. Camino O. Racca G., (2009) SMART-I Results and Targets for LRO, LRO Science Target Meeting, Abstract #6049

- Wendt, L., Mahapatra, P., Gross, C., **Borst, A.M.**, Foing, B. H., ExoGeoLab Team, EuroGeoMars Team (2009), Raman investigations of the EuroGeoMars Campaign, EPSC, Abstract #457
- S.T.M. Peters, **A.M. Borst**, L. Wendt, C. Gross, C. Stoker, J. Zhavaleta, P. Sarrazin, E. Slob, V. Pletser, B. Foing, and the ExoGeoLab team & EuroGeoMars Team (2009) EuroGeoMars mission and techniques: First results for geology and geochemistry, Geophysical Research Abstracts, Vol. 11, EGU2009-13353, EGU General Assembly
- Y. Le Gac, K. Ammon, N. Gortsas and **the Orange Team (2009)** PALISA-Observation and Sample Return Mission to the M-Type Asteroid (216) Kleopatra, Geophysical Research Abstracts, Vol. 11, EGU2009-8828, EGU General Assembly
- K. Ammon and **the Orange Team (2009)** PALISA-OBSERVATION AND SAMPLE RETURN MISSION TO THE M-TYPE ASTEROID (216) KLEOPATRA, 59th International Astronautical Congress 2008, IAC-08.A3.2.INT25, Abstract #2748
- S.T.M. Peters, B.H. Foing, **A.M. Borst**, F. Bexkens, D. Koschny, A. Rossi, J.L. Josset, S. Beauvivre, (2008) Smart-1/Clementine Study of Humor, ProcCellarum & South-Pole Aitken Basins: Coupling between impacts, volcanism and tectonics, LPSCI, Abstract #2115
- F.S. Bexkens, **A.M. Borst**, B.H. Foing, S.T.M. Peters, D. Koschny (2008), The Global Geological context and impact signatures in the Lunar SPA Basin; the biggest cataclysm in the solar system, ESLAB abstract, ESRIN Frascati Italy,
- B.H. Foing, D. Koschny, B. Grieger, J.-L. Josset, S. Beauvivre, M. Grande, I. Crawford, B. Swinyard, J. Huovelin, L. Alha, H.U. Keller, U. Mall, A. Nathues, A. Malkki, G. Noci, Z. Sodnik, B. Kellett, P. Pinet, S. Chevrel, P. Cerroni, M.C. de Sanctis, M.A. Barucci, S. Erard, D. Despan, K. Muinonen, J. Naranen, V. Shevchenko, Y. Shkuratov, M. Ellouzi, S. Peters, F. Bexkens, **A. Borst**, C. Odum, L. Boche-Sauvan, E. Monaghan, D. Wills, M. Almeida, D. Frew, J.Volp, D. Heather, P. McMannamon, O. Camino, G.Racca, (2008) SMART-1 RESULTS AND LESSONS LEARNED FOR PREPARING FUTURE EXPLORATION, LEAG-ICEUM-SRR, Florida, Abstract #4099

POPULAR SCIENCE/OUTREACH

- Featured in book on MDRS simulations (as part of the EuroGeoMars Team 2009) 'On To Mars' **Nov 2017** by Vladimir Pletser (Ed. Springer Singapore, 256 p. ISBN 9789811070303)
- Blog for SOSRARE page 'Brazilian symposium on rare-earth elements' **Nov 2017**
- News item in Daily Record on 'Women shaping Scotlands' environment', **Oct 2017**
- EGU-GMPV blog 'The Fractional Crystallization Freak Zone', with Will Hutchison, **2017**
- Article 'Petrology and mineralogy of the Ilimaussaqa complex' for student newsletter – **2015**- Stockholm University Student Chapter
- Article in Dutch magazine for amateur geologists and mineral collectors: **Anouk Borst (2010)** 'Op Mars expeditie in Utah, VS', GEA 'Stichting Geologische Activiteiten' Vol. 43, p. 40-43
- Interview in Natuur, Wetenschap en Techniek Magazine (Nature, Science and Technology): Stefan Peters and **Anouk Borst (2009)** 'Martians in the desert', nr. 5, p. 42-46,
- Online blog on the MDRS Campaign. **Anouk Borst (2009)** 'Students on Mars', VU University webpage (www.falw.vu.nl)
- Skype interview live from MDRS on Dutch popular scientific television program 'Nieuwslicht' (VARA), **2009**
- Co-operated in a documentary (1 hour) of our crew rotation at MDRS, aired on a Belgian popular scientific television program. Directed by Francois Hubert

MEMBER OF TEAMS

EuroGeoMars Team (ESA/MDRS 2009)
 ExoGeoLab Team (ESA/ESTEC 2008-2010)
 The Orange Team (Alpbach Summer School 2008)