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Nationality: Finnish

Education

Department of Geosciences, University of Oulu, Finland, 1995–2009

- Doctor of Philosophy, November 2009
 - Thesis (split between the Departments of Geosciences and Physics): *The Structural Control of Polygonal Impact Craters*
- Licentiate of Philosophy, May 2007
 - Thesis: *The Structural Control of Polygonal Impact Craters on Mars*
- Master of Science, June 2002
 - Thesis: *The Indications of Cratering Process in Saarijärvi Impact Crater, Northern Finland* (in Finnish)
 - Major: Geology and mineralogy
 - Minors: Astronomy, Quaternary geology, Geophysics, Geochemistry, Chemistry

Research and teaching experience

- *August 2013 – present*: No-Cost Visiting Scientist at Lunar and Planetary Institute, Houston, USA, and freelance Earth and planetary scientist at Arctic Planetary Science Institute, Rovaniemi, Finland. Research topics: Impact cratering tectonics on the terrestrial planets.
- *January 2015 – March 2015*: Part-time teacher at the Rovaniemi Adult Education Centre, Rovaniemi, Finland. Lecturing courses Introduction to Astronomy and Light and Colour in the Atmosphere.
- *September 2012 – August 2013*: Postdoctoral Fellow at Lunar and Planetary Institute, Houston, funded mostly by grants from NASA Mars Data Analysis Program and NASA Lunar Advanced Science and Exploration Research to Dr. Patrick J. McGovern. Research topics: Structural characterization and evolution of Alba Mons and Olympus Mons, Mars, through generation and analysis of digital elevation models; Lunar and terrestrial impact cratering.
- *November 2011 – August 2012*: Postdoctoral Fellow at Lunar and Planetary Institute, Houston. Research topics: Lunar and terrestrial impact cratering.
- *July 2010 – October 2011*: Postdoctoral Fellow in lunar surface geology at the Center for Lunar Science and Exploration, Lunar and Planetary Institute, Houston. Funded by NASA Lunar Science Institute grant to Dr. David A. Kring. Research topics: Analysis of impact melt distribution and rheology in lunar crater Kepler using integrated analysis of image and topographic data sets; Shock metamorphism in terrestrial impact craters.
- *June 2007 – November 2009*: Ph.D. candidate in the Department of Geosciences, University of Oulu, supervised by Dr. Jouko Raitala and Dr. Pekka Tuisku. Funded by numerous grants from several foundations. Research topics: Photogeologic analysis of impact crater formation in structurally heterogeneous targets on Mars, Venus, and the Moon; Shock metamorphism of

terrestrial impact craters; Petrophysical properties of impactites; Fluvial and volcanic evolution of Hellas region, Mars.

- *July 2002 – May 2007*: Lic. Phil. candidate in the Department of Geosciences, University of Oulu, supervised by Dr. Jouko Raitala and Dr. Pekka Tuisku. Funded by the Finnish Graduate School in Geology, and numerous grants from several foundations. Research topics: Photogeologic analysis of impact crater formation in structurally heterogeneous targets on Mars and Venus; Shock metamorphism of terrestrial impact craters; Petrophysical properties of impactites; Fluvial and volcanic evolution of Hellas region, Mars. A five-week expedition to the Popigai impact structure, arctic Russia in 2004.
- *Fall semester 2004*: Teaching assistant in undergraduate courses of Crystallography and mineralogy and Bedrock geology in the Department of Geosciences, University of Oulu.
- *September 1995 – June 2002*: M.Sc. candidate in the Department of Geosciences, University of Oulu, supervised by Dr. Jouko Raitala and Dr. Pekka Tuisku. Major in Geology and mineralogy, minors in Astronomy, Quaternary geology, Geophysics, Geochemistry, and Chemistry. Main focus on terrestrial impact cratering, including, e.g., four weeks of geologic mapping in Saarijärvi impact structure, northern Finland in 1999, and a five-week expedition to Kara impact structure, arctic Russia in 2001.
- *Summers 1996, 1997, 1999, and 2000*: Total 10.5 months of bedrock mapping and prospecting in various parts of northern Finland for the Geological Survey of Finland's Rovaniemi office.

International studies (intensive short courses and major workshops)

- CLSE: *Lunar Analogue Training at Meteor Crater, Arizona & the San Francisco Volcanic Field, Arizona, USA*, 29. April – 1. May 2011
- NordForsk – NIR: *Impact Cratering in the Planetary System – Cratering Mechanisms and Shock Metamorphism (co-organizer, lecturer, field guide)*, Finland, 29. August – 5. September 2010
- NordForsk – NIR: *Crater Mechanics and Structural Characteristics*, Norway, 8.–11. June 2009
- NordForsk – NIR: *Small Quaternary Craterforms – Geophysical and Ecological Aspects*, Estonia, 28. September – 2. October 2008
- NordForsk – NIR: *The Economic Aspects of Impact Craters, Geological and Socio-economical Views*, Norway, 17.–20. September 2007
- NordForsk – NIR: *How Impact Cratering Affects Local Geology, Geochemistry, and Geophysics*, Sweden, 28. May – 2. June 2007
- NordForsk – NIR: *Signatures of an Impact – The K-T boundary in Denmark*, Denmark, 18.–25. September 2006
- ESIR: *Geophysical Research Campaign at the Ilumetsa Impact Craters (co-organizer, lecturer)*, Estonia, 13.–18. August 2005
- ESF-IMPACT: *Short Course on Impact Geophysics*, Sweden, 26. May – 1. June 2003
- ESF-IMPACT: *Short Course on Impact Stratigraphy*, Italy, 4.–11. May 2002
- NorFA: *High-resolution Secondary Ionisation Mass Spectrometry and Geochronology*, Sweden, 17.–22. September 2001
- NorFA: *Palaeosedimentology with Special Emphasis on the Precambrian Formations in NW Russia: Geological Excursion through Karelia*, Russia, 31. May – 11. June 2001
- ESF-IMPACT: *ESF Short Course on Impact Metamorphism*, Germany, 29. October – 2. November 2000
- NorFA: *Post-glacial Meteorite Craters and Physical–Chemical Aspects of Impact Structures*, Estonia, 14.–22. June 1999

Research interests

- Multidisciplinary remote sensing analysis of planetary impact craters, basins and tectonic structures (Moon, Mars, Venus, and the Earth)

- Geology of terrestrial impact structures, particularly on the Fennoscandian Shield, including:
 - geologic mapping and other field studies
 - optical petrography
 - geochemistry
 - remote sensing, including analysis of airborne geophysical data
- Petrophysical properties of impactites
- Structural characterization and evolution of large volcanoes on Mars
- Archean and Paleoproterozoic geology of the northern Fennoscandian Shield
- Generation of digital elevation models with stereo imagery
- Geology of the terrestrial planets
- History of science, particularly of impact and lunar research

IT and laboratory/analysis experience

- Operating systems: Windows, Mac, MS-DOS, UNIX/Linux (basics)
- Image processing: USGS Integrated Software for Imagers and Spectrometers (ISIS), NASA Ames Stereo Pipeline, Adobe Photoshop, ImageJ, GIMP (basics)
- Geologic and GIS software: ESRI ArcGIS, Rockware RockWorks, Surfer Surface Mapping System, MELTS (Adiabat 1_ph subroutine), ER Mapper (basics), Integrated Lunar Information Architecture for Decision Support (ILIADS, basics)
- Other software: Microsoft Office (Word, Excel, Powerpoint, Outlook), Libre Office (Writer, Calc), Adobe Acrobat, Windows Live Movie Maker, Blogger, WordPress
- Optical petrography (transmitted light), electron probe microanalysis (EPMA), scanning electron microscopy (SEM), X-ray fluorescence (XRF), X-ray diffractometry (XRD)
- Various petrophysical methods (e.g., Geological Survey of Finland's RISTO-equipment package and software, Curie-point and hysteresis measurements, spinner-magnetometers, AF-demagnetisers)
- Basic field and analysis experience with various ground penetrating radar systems (GPR), vertical electric sounding (VES) and profiling equipment, and magnetometers
- In addition to bedrock mapping and prospecting (see above), I have done field work on or visited about 26 impact structures in Finland, Sweden, Norway, Estonia, Russia, Germany, Canada, USA, and South Africa, as well as several localities of K/T- and Eocene/Oligocene distal impact ejecta deposits in Italy, Denmark, and USA.

Primary planetary remote sensing datasets used

- Moon: Lunar Reconnaissance Orbiter NAC, WAC, LOLA (points and DEM), Mini-RF, and Diviner (gridded Christiansen feature and rock abundance) data; Kaguya TC; Lunar Orbiter imagery; Clementine UVVIS; Arecibo radar data; SMART-1 AMIE; Apollo imagery
- Mars: Mars Express HRSC (stereo imagery and DEMs; **associate investigator**); Mars Reconnaissance Orbiter CTX; Mars Odyssey THEMIS VIS and IR; Viking MDIM 2.0; Mars Global Surveyor MOC WA and NA, and MOLA (points and DEM)
- Venus: Magellan SAR and altimetry data
- Earth: Landsat TM, ETM+, and OLI

Grants and scholarships awarded

My impact cratering and planetary geology research has been funded by the Finnish Graduate School in Geology (2004, and five months in 2006), and grants (total ~100 090 €) from various foundations, funds, and other sponsors:

- 2015; WSOY Literary Foundation; 4000 €
- 2015; Advisory Board for the Publication of Science; 3500 €
- 2014; Lappi Fund of the Finnish Cultural Foundation; 4000 €
- 2009 & 2007; Space Institute in the University of Oulu; 1500 € & 6500 €
- 2008, 2006, & 2004; Magnus Ehrnrooth Fund of the Finnish Society of Sciences and Letters;

6000 €, 3450 €, & 2000 €

- 2008; North Ostrobothnia Fund of the Finnish Cultural Foundation; 8000 €
- 2008; The Faculty of Science of the University of Oulu; 4200 €
- 2006; Sohlberg Delegation of the Finnish Society of Sciences and Letters; 3000 €
- 2004 & 2002; Kalle, Yrjö and Vilho Väisälä Foundation of the Finnish Academy of Science and Letters; 7000 € & 14 000 €
- 2004 & 2001; Jenny and Antti Wihuri Fund; 3000 € & ~12 950 €
- 2003; Advisory Board for the Publication of Science; 3000 €
- 2002; Seppo Säynäjäkangas Science Foundation; 2800 €
- Additional travel and support grants were received from the Academy of Finland (3430 €), Oskar Öflund's Foundation (2500 €), The Faculty of Science of the University of Oulu (500 €, 1000 €, 880 €, & 500 €), Barringer Crater Company (~815 €, ~680 €, & ~545 €), and Pallasite Press (Brian Mason travel award, ~340 €).

Professional and administrative service

- **Reviewer** for *Icarus* (2015, 2014), *Planetary and Space Science* (2014), *Tectonophysics* (2014), *Geosciences* (2014), *Earth and Planetary Science Letters* (2013), *Lithosphere* (2012), *Bulletin of the Geological Society of Finland* (2012), *Geologica Acta* (2011), and *Meteoritics & Planetary Science* (2010).
- **Member** of the international Söderfjärden Research Program Consortium (2014 – present)
- **Member** of the LPI Career Development Award panel (2012).
- **Manager** of LPI's Lunar Impact Crater Database (2011 – present)
- **Co-chair** for impact cratering and planetary geology session in the 29th *Nordic Geological Winter Meeting* in Oslo, Norway, 11.–13. January 2010.
- **Co-organizer** of international short courses in impact crater research in Estonia (2005) and Finland (2010, see above).
- **Co-organizer** of the NordForsk-funded Nordic–Baltic impact cratering research planning meeting at KTH Royal Institute of Technology in Stockholm, Sweden, in spring 2004, which later resulted in the formation of the *Network on Impact Research (NIR)*.
- **Coordinator** of the *European Student Impact Researchers (ESIR)* network, 2004–2012.
- I have given invited lectures about my impact crater research in the seminar series of Lunar and Planetary Institute, Houston, USA, Department of Geophysics, University of Helsinki, Finland, and the Divisions of Geophysics and Astronomy, University of Oulu, Finland.

Language skills

- Finnish (native language)
- English (excellent)
- Swedish (good)
- German (average)
- Russian (basics)

Current memberships in professional societies

- Meteoritical Society, 2001 – present
- American Geophysical Union, 2011 – present
- American Association for the Advancement of Science, 2013 – present

Miscellaneous experience

- During summers 1995 and 1998 I spent six months providing briefing services and weather observations for the Finnish Aviation Administration Kuopio airport.
- Corporal, Finnish Air Force, 1994–1995 (11 months), with special training in weather observations, briefing services, and air surveillance, in Tikkakoski and Utti air force bases, Finland.

- I was the observatory manager of the Astronomical Association Arktos in Oulu, Finland, during 1996–2010. I also served shorter periods as the chairman, librarian, and a member of the board. Currently (2015 – present) I am the vice chairman of Astronomical Association Corona Borealis in Rovaniemi, Finland.
- I was the leader of the halo section of the national Ursa Astronomical Association for the first period in 1999, and co-organized a national halo observation campaign in spring 2001.
- I have experience in giving popular science lectures on impact craters, planetary geology, astronomy, and meteorology, as well as organising stargazing events for the general public.

LIST OF PUBLICATIONS

05.07.2015

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Peer reviewed papers (* denotes corresponding author and an equal share between the first two authors):

01. Schwarz W. H., Schmieder M., Buchner E., Tieloff M., Moilanen J. & **Öhman T.**, 2015. A Carnian $^{40}\text{Ar}/^{39}\text{Ar}$ age for the Paasselkä impact structure (SE Finland) – An update. *Meteoritics & Planetary Science*, vol. 50, no. 1, pp. 135–140, doi: 10.1111/maps.12407.
02. **Öhman T.**, Kramer G. Y. & Kring D. A., 2014. Characterization of melt and ejecta deposits of Kepler crater from remote sensing data. *Journal of Geophysical Research: Planets*, vol. 119, pp. 1238–1258, doi: 10.1002/2013JE004501.
03. **Öhman T.** & McGovern P. J., 2014. Circumferential graben and the structural evolution of Alba Mons, Mars. *Icarus*, vol. 233, pp. 114–125, doi: 10.1016/j.icarus.2014.01.043.
04. **Öhman T.** & Preeden U., 2013. Shock metamorphic features in quartz grains from the Saarijärvi and Söderfjärden impact structures, Finland. *Meteoritics & Planetary Science*, vol. 48, no. 6, pp. 955–975, doi: 10.1111/maps12112.
05. Nahm A. L., **Öhman T.** & Kring D. A., 2013. Normal faulting origin for the Cordillera and Outer Rook Rings of Orientale Basin, the Moon. *Journal of Geophysical Research: Planets*, vol. 118, pp. 190–205, doi: 10.1002/jgre.20045.
06. **Öhman T.** & Kring D. A., 2012. Photogeologic analysis of impact melt-rich lithologies in Kepler crater that could be sampled by future missions. *Journal of Geophysical Research – Planets*, vol. 117, E00H08, doi: 10.1029/2011JE003918.
07. **Öhman T.**, Aittola M., Kortenienemi J., Kostama V.-P. & Raitala J., 2010. Polygonal impact craters in the Solar System: Observations and implications. In: Gibson R. L. & Reimold W. U. (eds.): *Large Meteorite Impacts and Planetary Evolution IV. Geological Society of America Special Paper 465*. Geological Society of America, Boulder, pp. 51–65, doi: 10.1130/2010.2465(04).
08. Schmieder M., Schwarz W. H., Buchner E., Tieloff M., Moilanen J. & **Öhman T.**, 2010. A Middle-Late Triassic $^{40}\text{Ar}/^{39}\text{Ar}$ age for the Paasselkä impact structure (SE Finland). *Meteoritics & Planetary Science*, vol. 45, no. 4, pp. 572–582, doi: 10.1111/j.1945-5100.2010.01041.x.
09. Kortenienemi J., Raitala J., Aittola M., Ivanov M. A., Kostama V.-P., **Öhman T.** & Hiesinger H., 2010. Dike indicators in the Hadriaca Patera – Promethei Terra region, Mars. *Earth and Planetary Science Letters*, vol. 294, pp. 466–478, doi: 10.1016/j.epsl.2009.06.038.
10. Aittola M., **Öhman T.***, Leitner J. J., Kostama V.-P. & Raitala J., 2010. The structural control of Venusian polygonal impact craters. *Icarus*, vol. 205, no. 2, pp. 356–363, doi: 10.1016/j.icarus.2009.08.004.
11. **Öhman T.**, Aittola M., Kostama V.-P., Raitala J. & Kortenienemi J., 2008. Polygonal impact craters in Argyre region, Mars: Implications for geology and cratering mechanics. *Meteoritics & Planetary Science*, vol. 43, no. 10, pp. 1605–1628.
12. Tagle R., **Öhman T.**, Schmitt R. T., Erzinger J. & Claeys Ph., 2007. Traces of an H chondrite in the impact-melt rocks from the Lappajärvi impact structure, Finland. *Meteoritics & Planetary Science*, vol. 42, no. 10, pp. 1841–1854.

13. Aittola M., **Öhman T.**, Leitner J. J. & Raitala J., 2007. The characteristics of polygonal impact craters on Venus. *Earth, Moon, and Planets*, vol. 101, pp. 41–53, doi: 10.1007/s11038-007-9148-4.
14. **Öhman T.**, Aittola M., Kostama V.-P., Hyvärinen M. & Raitala J., 2006. Polygonal impact craters in Argyre Region, Mars: Evidence for influence of target structure on the final crater morphology. *Meteoritics & Planetary Science*, vol. 41, no. 8, pp. 1163–1173.
15. Vishnevsky S. A., Raitala J., Gibsher N. A., **Öhman T.** & Pal'chik N. A., 2006. Impact tuffisites of the Popigai astrobleme. *Russian Geology and Geophysics*, vol. 47, no. 6, pp. 715–733.
16. Korteniemi J., Kostama V.-P., Törmänen T., Aittola M., Lahtela H., **Öhman T.**, Raitala J. & Neukum G., 2005. Complex geology of two large impact craters in Tyrrhena Terra, Mars: Detailed analysis using MEX HRSC camera data. *Journal of Geophysical Research – Planets*, vol. 110, E12S18, doi: 10.1029/2005JE002427.
17. **Öhman T.**, Aittola M., Kostama V.-P. & Raitala J., 2005. The preliminary analysis of polygonal impact craters within greater Hellas region, Mars. In: Koeberl C. & Henkel H. (eds.): *Impact Tectonics*. Springer-Verlag, Berlin Heidelberg, pp. 131–160.

Encyclopedia entries, conference proceedings, and other papers with a review process

(* denotes corresponding author and an equal share between the first two authors):

18. Bray V. J., **Öhman T.** & Hargitai H., 2015. Central peak crater. In: Hargitai H. & Kereszturi A. (eds.): *Encyclopedia of Planetary Landforms*. Springer (in press).
19. Hargitai H. & **Öhman T.**, 2015. Complex crater. In: Hargitai H. & Kereszturi A. (eds.): *Encyclopedia of Planetary Landforms*. Springer (in press).
20. Korteniemi J. & **Öhman T.***, 2015. Polygonal crater. In: Hargitai H. & Kereszturi A. (eds.): *Encyclopedia of Planetary Landforms*. Springer (in press).
21. Potter R., Hargitai H. & **Öhman T.**, 2015. Impact basin. In: Hargitai H. & Kereszturi A. (eds.): *Encyclopedia of Planetary Landforms*. Springer (in press).
22. Riikonen M., Cowley L., Schroeder M., Pekkola M., **Öhman T.** & Hinz C., 2007. The Lowitz arcs. *Weather*, vol. 62, no. 9, pp. 252–256, doi: 10.1002/wea.73.
23. Korteniemi J., Aittola M., **Öhman T.** & Raitala J., 2006. Floor-fractured craters on the terrestrial planets – The Martian perspective. In: Wilson A. (ed.): *Proceedings, 40th ESLAB – First International Conference on Impact Cratering in the Solar System*, ESA Special Publication SP-612, pp. 193–198 (CD-ROM).

Theses (Licentiate and Ph.D. theses fully peer reviewed):

24. **Öhman T.**, 2009. *The Structural Control of Polygonal Impact Craters*. Ph.D. thesis, Department of Geosciences, University of Oulu. Res Terrae, Ser. A, No. 28. 403 pp. (222 pp. + 6 app. + 6 papers). E-thesis (no papers): https://www.researchgate.net/publication/260034157_The_Structural_Control_of_Polygonal_Impact_Craters
25. **Öhman T.**, 2007. *The Structural Control of Polygonal Impact Craters on Mars*. Licentiate thesis, Department of Geosciences, University of Oulu. 105 pp. + 3 app. (13 pp.) + 3 papers.
26. **Öhman T.**, 2002. *The Indications of Cratering Process in Saarijärvi Impact Crater, Northern Finland* (in Finnish). M.Sc. thesis, Department of Geosciences, University of Oulu. 180 pp. + 10 app. (26 pp.)

Extended international conference abstracts:

27. Kukkonen S., Aittola M. & **Öhman T.**, 2015. An Update on the Structural Control of Venusian Polygonal Impact Craters. *Lunar and Planetary Science XLVI*, #2005, Lunar and Planetary Institute, Houston, U.S.A.

28. Kramer G. Y., Kring D. A., McGovern P. J., Nahm A. L. & **Öhman T.**, 2015. Compositional and Structural Characteristics of Schrödinger's Basin Volcanism. *Lunar and Planetary Science XLVI*, #2829, Lunar and Planetary Institute, Houston, U.S.A.
29. Kukkonen S., Aittola M. & **Öhman T.**, 2014. The Structural Control of Venusian Impact Crater Formation – Tectonic Case Studies. *Lunar and Planetary Science XLV*, #2589, Lunar and Planetary Institute, Houston, U.S.A.
30. Schmieder M., Jourdan F., **Öhman T.**, Tohver E., Mayers C. & Frew A., 2014. A Proterozoic $^{40}\text{Ar}/^{39}\text{Ar}$ Age for the Söderfjärden Impact Structure, Finland. *Lunar and Planetary Science XLV*, #1301, Lunar and Planetary Institute, Houston, U.S.A.
31. **Öhman T.** & McGovern P. J., 2013. Strain calculations for circumferential graben on Alba Mons, Mars. *Lunar and Planetary Science XLIV*, #2966, Lunar and Planetary Institute, Houston, U.S.A. (poster)
32. Chandnani M., Kramer G. Y., Fessler B., **Öhman T.** & Kring D. A., 2013. Deep crustal lunar lithologies exposed in the south-western peak ring of the Schrödinger basin. *Lunar and Planetary Science XLIV*, #1938, Lunar and Planetary Institute, Houston, U.S.A.
33. **Öhman T.**, Kramer G. Y. & Kring D. A., 2012. Spectral Analysis of the Distribution of Impact Melt-rich Lithologies in Lunar Crater Kepler Using M³ Data. *Lunar and Planetary Science XLIII*, #2257, Lunar and Planetary Institute, Houston, U.S.A. (poster)
34. Kramer G. Y., **Öhman T.**, Nahm A. L. & McGovern P., 2012. Pre- and Post-impact Influences on Schrödinger Basin's Structural Geology. *Lunar and Planetary Science XLIII*, #1734, Lunar and Planetary Institute, Houston, U.S.A.
35. **Öhman T.** & Kring D. A., 2011. Photogeologic Analysis of Impact Melt-rich Lithologies in the Lunar Crater Kepler Using LROC and Kaguya Data. *Lunar and Planetary Science XLII*, #1177, Lunar and Planetary Institute, Houston, U.S.A. (poster)
36. **Öhman T.** & Preeden U., 2011. Shock Metamorphism of Quartz in Saarijärvi and Söderjärden Impact Structures, Finland. *Lunar and Planetary Science XLII*, #1546, Lunar and Planetary Institute, Houston, U.S.A. (talk)
37. Schmieder M., Buchner E., Jourdan F., Schwarz W. H., Tieloff M., van Soest M. C., Wartho J.-A., Hodges K. V., Moilanen J., Hietala S. & **Öhman T.**, 2010. Updating the Finnish impact cratering record. *Lunar and Planetary Science XLI*, #2036 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
38. Raitala J., Aittola M., Korteniemi J., **Öhman T.**, Törmänen T. & Kukkonen S., 2010. Possible ice lenses on Mars. *Lunar and Planetary Science XLI*, #1332 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
39. Buchner E., Moilanen J., **Öhman T.** & Schmieder M., 2009. Shock-molten sandstone clasts in impact melt rocks: age constraints for the Paasselkä impact structure (SE Finland). *Lunar and Planetary Science XL*, #2169 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
40. Schmieder M., Jourdan F., Hietala S., Moilanen J., **Öhman T.** & Buchner E., 2009. A high precision Late Mesoproterozoic $^{40}\text{Ar}/^{39}\text{Ar}$ age for the Keuruselkä impact structure (Finland). *Lunar and Planetary Science XL*, #1028 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
41. Korteniemi J., Raitala J., Aittola M., Ivanov M., **Öhman T.**, Kostama V.-P. & Hiesinger H., 2009. Evidence for Dike Swarms on the Eastern Hellas Rim, Mars. *Lunar and Planetary Science XL*, #2126 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
42. **Öhman T.**, Aittola M., Kostama V.-P., Korteniemi J. & Raitala J., 2008. The control of target structure on the crater morphology on the Moon, Mars, and Venus – evidence and implications. *Large Meteorite Impacts and Planetary Evolution IV*, #3046 (CD-ROM), 17–21 August 2008, Vredefort Dome, South Africa.

43. Raiskila S., Elbra T., **Öhman T.** & Pesonen L. J., 2008. Petrophysical and palaeomagnetic studies of the Keuruselkä impact structure, Finland. *Large Meteorite Impacts and Planetary Evolution IV*, #3056 (CD-ROM), 17–21 August 2008, Vredefort Dome, South Africa.
44. Aittola M., **Öhman T.**, Leitner J. J., Raitala J., Kostama V.-P. & Törmänen T., 2008. The association of Venusian polygonal impact craters with surrounding tectonic structures. *Lunar and Planetary Science XXXIX*, #2137 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
45. **Öhman T.**, Aittola M., Kostama V.-P., Kallo M. & Raitala J., 2007. The mechanics of polygonal impact crater formation. *Bridging the gap II: Effect of target properties on the impact cratering process*, September 22–26 2007, Saint-Hubert, Canada, p. 87–88. (poster)
46. **Öhman T.**, 2007. The origin and tectonic modification of the Saarijärvi impact structure, northern Finland. *Bridging the gap II: Effect of target properties on the impact cratering process*, September 22–26 2007, Saint-Hubert, Canada, p. 85–86. (poster)
47. **Öhman T.**, Aittola M., Leitner J. & Raitala J., 2007. Venusian polygonal impact craters. *Lunar and Planetary Science XXXVIII*, #2299 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
48. Versh E., Kirsimäe K., Buchardt Westergaard B., Naumov M. V., **Öhman T.** & Jöeleht A., 2006. Mineralogical and stable isotope study of impact-induced hydrothermal carbonates. *First International Conference on Impact Cratering in the Solar System*, European Space Agency, ESTEC, Noordwijk, The Netherlands, 08–12 May, 2006, pp. 233–234.
49. Kortenienemi J., Aittola M., Lahtela H., **Öhman T.**, & Raitala J., 2006. Distribution of Martian crater floors with fractures and/or depressions. *First International Conference on Impact Cratering in the Solar System*, European Space Agency, ESTEC, Noordwijk, The Netherlands, 08–12 May, 2006, pp. 119–120.
50. **Öhman T.**, Aittola M., Kostama V.-P. & Raitala J., 2006. Preliminary geological analysis of polygonal impact crater data from Argyre region, Mars. *Lunar and Planetary Science XXXVII*, #1236 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A. (poster)
51. Tagle R., Claeys Ph., **Öhman T.**, Schmitt R. T. & Erzinger J., 2006. Traces of an H chondrite in the impactites from Lappajärvi Crater, Finland. *Lunar and Planetary Science XXXVII*, #1277 (CD-ROM), Lunar and Planetary Institute, Houston, U.S.A.
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