

Monday, March 20, 2017

[M155]

SPECIAL SESSION: LARGE IGNEOUS PROVINCES IN THE SOLAR SYSTEM
2:30 p.m. Montgomery Ballroom

Chairs: Tracy Gregg
Richard Ernst

- 2:30 p.m. Ernst R. E. * Buchan K. L. Jowitt S. M. Youbi N.
[*Applying the Terrestrial Large Igneous Provinces \(LIPs\) Context to Large-Scale Magmatism on Other Planetary Bodies*](#) [#1373]
 Insights from the terrestrial LIP record are applied to LIP-scale intraplate magmatism on other planetary bodies.
- 2:45 p.m. Fawdon P. * Balme M. R. Vye-Brown C. Rothery D. A. Jordan C. J.
[*Syrtis Major Planum \(Mars\): A Type Example or a Special Case of a Large Igneous Province*](#) [#2138]
 We present the geological history of Syrtis Major Planum (Mars), which provides an example of how large igneous provinces develop on terrestrial planets.
- 3:00 p.m. Gregg T. K. P. *
[*Volcanic Vents in Hesperia Planum, Mars: Sources for an Extraterrestrial Large Igneous Province*](#) [#1659]
 Hiding in plain sight / Hesperia Planum's vents / Appear at hi-res.
- 3:15 p.m. Richardson J. A. * Wilson J. A. Connor C. B. Bleacher J. E.
[*Magma Flux at Arsia Mons, Mars, Over the Past 300 Million Years*](#) [#2404]
 New estimates of the recurrence rate of volcanic activity and magma flux through time are modeled for a volcano cluster in the Tharsis Volcanic Province, Mars.
- 3:30 p.m. Keszthelyi L. * Jaeger W. L. Dundas C. M.
[*Investigating the Role of Water and Lava in Athabasca Valles, Mars*](#) [#1755]
 What fluid(s) carved Athabasca Valles? When? We at least have an idea on how to answer these questions.
- 3:45 p.m. Zanetti M. * Jolliff B. L. Shirley K. Glotch T. D. Hagerty J. J. et al.
[*The Aristarchus Plateau Large Igneous Province: The Case for Bi-Modal Volcanism*](#) [#2320]
 Anomalous plateau sites have similar compositions to evolved Si-rich Aristarchus ejecta, suggesting bi-modal emplacement during construction of Cobra Head.
- 4:00 p.m. Neal C. R. *
[*Lunar LIPs: What Story are They Telling Us?*](#) [#1912]
 The mare basalt terrains on the Moon exhibit similarities and differences with flood basalt provinces on Earth. Are there lunar LIPs?
- 4:15 p.m. Graff J. R. * Ernst R. E. Samson C.
[*Local Triple-Junction Rifting Along Parga Chasma on Venus*](#) [#1304]
 Our detailed mapping study proposes a model that Parga Chasma developed as a series of local triple-junction rifts extending from individual magmatic centres.
- 4:30 p.m. Bethell E. M. * Ernst R. E. Samson C. Buchan K. L.
[*Detailed Mapping of Graben-Fissure Systems Associated with Fatua Corona, Venus: Implications for Magmatism and the Regional Stress Field*](#) [#2177]
 Detailed mapping of dyke swarms associated with Fatua corona, Venus, has provided insight on the volume of associated magma and the regional stress field.