Wednesday, April 26, 2017
NEW TECHNOLOGIES AND TECHNIQUES: OTHER TECHNOLOGIES AND TECHNIQUES: TECHNOLOGY FOR ACCESSING OCEAN WORLDS
10:15 a.m. Arizona Ballroom E-G

Chair: Kristof Richmond

10:15 a.m. Prieto-Ballesteros O. * Blanc M. André N. Gómez-Elvira J. Jones G. Sterken V. Mimoun D. Masters A. Martins Z. Bunce E. Desprats W. Garnier P. Choblet G. Lainey V. Westall F. van Hoolst T. Jäggi A. Iess L. Longobardo A. Tosi F. Hartogh P. Stephan K. Wagner R. Krupp N. Cooper J. Bills B. Hand K. Vance S. Lorenz R. Khurana K. Kempf S. Collins G. Sittler E. C. Szego K. Wolwrck M.
Joint Europa Mission (JEM) — A Multiscale Study of Europa to Characterize Its Habitability and Search for Extant Life **[#3430]**
We present the Joint Europa Mission (JEM) proposal, which was submitted to the ESA M5 call last October 2016 and is now under study.

10:30 a.m. Richmond K. * Stone W. C. Clark E. B. Flesher C. Lindzey L. Harman J. Huffstutler K. Lawrence J. Lelievre S. Moor J. Pease B. Scully M. Siegel V. Winslow L. Blankenship D. Doran P. Kim S. Schmidt B.
ARTEMIS: Results from a Long-Range Hovering Robotic Vehicle for Rich Data Acquisition and Sample Return Beneath the Ross Ice Shelf **[#3634]**
ARTEMIS is an AUV developed by Stone Aerospace which explored under the Ross Ice Shelf to explore an analog environment and develop technologies for icy worlds.

10:45 a.m. Willson D. * Gold R. Slone D. Bonaccorsi R. Mathias D. McKay C. P.
Catching Life in the Icy Plumes of Europa and Enceladus **[#3663]**
Feasibility of Enceladus/Europa ice plume collection using Ames Vertical Gun. Measured ice collision, capture, and cell survival. Computer modelling conducted.

11:00 a.m. Clark E. B. * Stone W. C. Hogan B. P. Siegel V. Richmond K. Lelievre S. Flesher C. Harman J. Bramall N.
VALKYIRE: Field Campaign Results and Autonomous Sampling for a Laser-Powered Cryobot **[#3706]**
VALKYRIE is a prototype cryobot developed by Stone Aerospace to demonstrate technology for descending through and studying icy crusts of worlds such as Europa.