

[Back to Results](#)ISI Web of Knowledge
Page 1 (Articles 1 -- 1)[Print This Page](#)

◀ [1] ▶

Record 1 of 1**Author(s):** Garcia-Moreno, F (Garcia-Moreno, Francisco); Holm, P (Holm, Per); Banhart, J (Banhart, John)**Editor(s):** Conroy, L**Book Group Author(s):** ESA**Title:** Metallic foam experiments under microgravity**Source:** 18TH ESA SYMPOSIUM ON EUROPEAN ROCKET AND BALLOON PROGRAMMES AND RELATED RESEARCH, 647: 389-392 2007**Book series title:** ESA SPECIAL PUBLICATIONS**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 18th ESA Symposium on European Rocket and Balloon Programmes and Related Research**Conference Date:** JUN 03-07, 2007**Conference Location:** Visby, SWEDEN**Conference Sponsors:** European Space Agcy.

Abstract: X-ray analysis was found to be a very powerful method for the in-situ study of the metal foaming process on Earth. Under normal conditions, the inevitable presence of gravitationally-driven drainage makes investigation of coarsening very difficult, because of the rapid variations of foam properties induced by the gravitational flow. Under microgravity we can remove these limitations in order to generate improved models of the foaming metals. So it is possible to isolate some of the key effects which govern foam evolution, namely drainage, flow, coarsening, and coalescence. Experiments scheduled to fly on the XRMON and mu g-FOAM MAP projects and using our ground equipment are presented. Microgravity experiments are prepared to fly on parabolic flights and Maser 11.

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Page 1 (Articles 1 -- 1)[Print This Page](#)

◀ [1] ▶