

Friday, March 23, 2012
NUCLEAR THERMAL PROPULSION: NTP FUELS I
8:30 a.m. Waterway Ballroom 2

Chairs: **Robert Hickman** (NASA Marshall Space Flight Center)
 Omar Mireles (NASA Marshall Space Flight Center)

- 8:30 a.m. Webb J. A. *
 [*A Review of Historical Tungsten CERMET Fuel Development Programs and Lessons Learned*](#) [#3054]
 This presentation outlines the actions and results of previous tungsten cermet fuel programs and presents a list of recommendations for future cermet fuels programs.
- 8:50 a.m. Broadway J. W. * Hickman R. R. Mireles O. R.
 [*The Manufacture of W-UO₂ Fuel Elements for Nuclear Thermal Propulsion Using the Hot Isostatic Pressing Consolidation Process*](#) [#3020]
 The purpose of this paper is to discuss current cermet fuel material development being performed at NASA's Marshall Space Flight Center. Specifically, cermet is fabricated using the hot isostatic press consolidation process.
- 9:10 a.m. Webb J. A. * Harp J. Werner J.
 [*W-UO₂ CERMET Fuel Development Via Pulsed Eleectric Current Sintering*](#) [#3058]
 This presentation outlines the objectives and accomplishments of a Tungsten-UO₂ development program at the Idaho National Laboratory for the previous year.
- 9:30 a.m. O'Brien R. C. * Jerred N. D. Howe S. D. Samborsky R. Brasuell D. Zillmer A.
 [*Recent Research Activities at the Center for Space Nuclear Research in Support of the Development of Nuclear Thermal Rocket Propulsion*](#) [#3060]
 The CSNR is undertaking activities in collaboration with the Aerojet Corporation to further the development of safe, practical and affordable nuclear thermal propulsion systems. A summary is presented with the progress made and the challenges ahead.
- 9:50 a.m. BREAK