

## Sigma Division of LANL Joins ACRC



**S I G M A   D I V I S I O N**

*Excellence in Manufacturing Science*

We are pleased to share that the [Sigma Division of Los Alamos National Labs\(LANL\)](#) is now a member of ACRC. Sigma Division maintains a unique manufacturing science capability at LANL that has made substantial contributions to weapons component process development for more than 70 years. Its Foundry and Solidification Sciences Team provides radiological castings of prototype components, supports fundamentals of alloy design, and enables maturation of demanding casting processes for deployment in partnership with production agencies.



Beyond manufacturing process development, the team focuses on solidification science research, especially relationships between processing conditions and material structure in systems such as uranium-niobium alloys, high-temperature phase relationships in uranium-molybdenum alloys, and growth kinetics of uranium-carbide.



This collection of capabilities—spanning fundamentals of solidification science to small-lot production—is unique and a national resource for uranium-focused research and development activities.

The Sigma Division is excited to partner with the ACRC on solidification science. Please give them a warm welcome at our December meeting.