



# Award Winner

## New Stainless Steel Alloy Tooling for High-Temperature Presses that Form Aircraft Components

Tools will have a longer life as a result of the good oxidation resistance and improved high-temperature tensile and creep strengths of the new TMA<sup>®</sup> 4705 alloy. The tools will be machinable, more amenable to weld repair, and available at a lower cost.



**Developed and jointly submitted by**  
Duraloy Technologies, Inc.  
Oak Ridge National Laboratory

### Sponsored by

US Department of Energy  
Energy Efficiency and Renewable Energy  
Technology Commercialization Fund  
under a CRADA with Duraloy Technologies, Inc.

DOE EERE Industrial Technologies Program under a  
CRADA with Duraloy Technologies, Inc.



**Recipients (a)** (Standing l-r): Jackie Mayotte, Chris Stevens, Mike Santella (seated): Neal Evans, Govindarajan Muralidharan, Ed Kenik. (Not pictured Vinod K. Sikka, Ken Liu and Phil Maziasz from ORNL.)  
**(b)** (l-r): Alberto Jablonski, Roman Pankiw, Donald P. Voke from Duraloy Technologies, Inc.

### Point of Contact:

Govindarajan Muralidharan • muralidhargn@ornl.gov • (865) 574-4281



U.S. DEPARTMENT OF  
**ENERGY**