



## NCERCAMP

The National Center for Education and Research on Corrosion and Materials Performance (NCERCAMP), located at The University of Akron, was launched in 2010 with a grant from the Department of Defense.

The center is focused on predicting, preventing and managing the nation's destructive corrosion and materials degradation problems.

Working with industry, government and academia, the center's more than 30 interdisciplinary professors and technicians can help you solve your corrosion and materials degradation issues.

*"Predict, Prevent and Manage"*

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**Materials Development**

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**NCERCAMP**

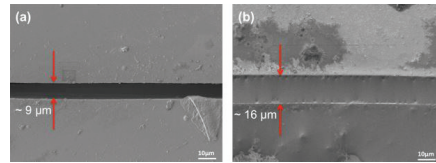
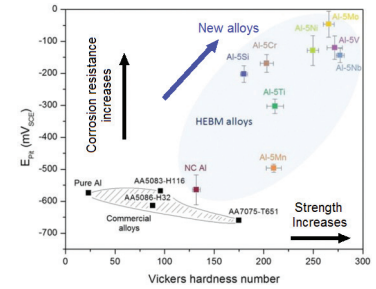
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# MATERIALS DEVELOPMENT

## Alloys and Composites:

- Synthesis of advanced metallic materials with excellent corrosion resistance and mechanical properties
- Novel, ultra-strong, lightweight, corrosion resistant materials for auto, marine and aerospace
- Processing technologies to improve the properties of commercial alloys
- Heat treatment of materials
- Metastable/nanostructured materials via high-energy ball milling
- Casting of various alloys and composites



## Coatings:

- Development of novel functional coatings with improved anti-corrosion properties and extended service lifetime
- Modification of polymer's structure and performance
- Pigments for UV resistance
- Computational simulations/models to predict coating behavior
- Development of cure-on-command UV and visible light technology
- Synthesis of organic and inorganic coatings
- Metallic and ceramic coatings development

