Center for Precision Forming (CPF)

-National Science Foundation (NSF)
Industry/University Cooperative Research Center (IUCRC)-

Directors

Muammer Koç
Virginia Commonwealth University
(VCU)

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Ohio State University
(OSU)
Membership

CPF

- Automotive
- Aerospace
- Automotive
- Lubricant/Tool Suppliers
- Material Suppliers
- HVAC
- Energy Generation
- Electronics
- Medical Device
- Consumer Products
Current Members and Sponsors

SPONSORS
1. US Steel
2. SSAB
3. AMPCO
4. BuhlerUddeholm
5. Irmco
6. TowerOil
7. Ronart Industries
Research Vision

1. Innovative processes development
2. Process optimization
3. Predictive computational tools & methods
4. Lightweight material characterization

Micro-Manufacturing

1. Fuel Cell Manufacturing
2. Micro-Reformers
3. Microfluidics
4. Assembly
5. Contact mechanics

Clean energy
Low-mass

Fuel Cells
Forming & Fabrication
Lightweight materials

Fuel efficiency
Near-Zero emission
High performance

Hydrogen

Lightweight Manufacturing

Fuel Cells

VCU
NSF I/UCRC Center for Precision Forming (www.mdm-lab.vcu.edu)
Small vs. Large Businesses

• Prior and personal contacts,
• Direct and near-term benefits,
• Interact with owners at SBs
• Rapid decisions and actions at SBs
• Usually, more challenging, more applied and more urgent research problems
Membership Motives

• SBs are after either direct, short-term and real problems to assist them in their current research or more challenging and scientific problems to help them win a new business or funding;

• For large businesses, it all depends on the champion (if there is one),