Electrochemical Pathways for Sustainable Manufacturing - EPSuM

- NIST Advanced Manufacturing Technology (AMTech) Program
  - Mission – Support, enhance and sustain US chemical industry manufacturing capacity through use of electrochemical science and technology
  - Industry Driven Technology Roadmap Development Facilitated by Ohio University and PolymerOhio

OHIO UNIVERSITY

CEProTECH

Center for Electrochemical Processes and Technology

OH!Polymer PolymerOhio, Inc.

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NIST EPSuM Roadmap

- NIST recognizes the immediate need to support the research community, government agencies, and industry to create a technology roadmap and an industry-led consortia that will support applied research on long term, pre-competitive and enabling technology development
- Through the EPSuM award, NIST is recognizing Electrochemical Engineering Research as a key path to foster U.S. manufacturing growth through industry led innovation programs

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Roadmapping Process

- Needs Assessment
- Gap Analysis
- Prioritization of Opportunities
- Review of Technical Approaches
- Preparation of Final Roadmap

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Roadmapping Process

- Needs Assessment
  - Secondary research and literature review
  - Interviews with stakeholders – one-on-one discussions
    - Multiple points within supply chain
  - Industry workshops – gather interested parties for group discussion
    - Facilitated discussions around key topics

Roadmapping Process

- Gap Analysis
  - Compile findings from all elements of Needs Assessment
  - Characterize technology gaps
- Prioritization
  - Review Gap Analysis with Advisory Board
  - Prioritize opportunities
  - Review results with Executive Committee

Roadmapping Process

- Review of Technical Approaches
  - Technology Innovation Workshop will present approaches to identified issues
- Prepare Final Roadmap

Roadmapping Process

How to participate

- Volunteer as interview candidate
- Attend an Industry Workshop discussion

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