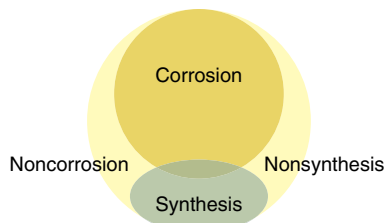


# NDSU Department of Coatings and Polymeric Materials Research

**B**iomass and  
**B**ioproducts  
Initiative

## Overview of Research



60+ years of industrial experience in research and development and management

We are all involved in more than one category of research.

We all make and characterize materials (usually polymeric, for coatings) and polymer-composite systems (usually coatings) from the nano to macro scales.

### For more information, contact:

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## Large Research Department

- 25 (?) Graduate students
- 5 (?) Undergraduate students
- 3 Full-time administrators
- 1 Research scientist
- 1 Laboratory manager
- 2 Laboratory technicians
- 5 (?) Postdoctoral students
- 4 Research professors
- 3 Tenure-track faculty (2 openings)

## Research Interests

- **Gordon Bierwagen**  
Corrosion control by coatings, particle packing, physical chemistry of coatings, conservation of bronze sculptures
- **Dennis Tallman**  
(formerly of the Chemistry Department)  
Corrosion, electrochemistry, electrochemical methods, conductive polymers
- **Victoria Johnston Gelling**  
Corrosion control, conductive polymers, coatings characterization
- **Brian Hinderliter**  
Modeling and prediction of coating durability, computer simulations, coatings characterization
- **Kerry Allahar**  
Corrosion control by coatings, electrochemical modeling, coatings characterization
- **Stuart Croll (Chair)**  
Experiment and modeling, durability, corrosion protection, nanoscale characterization, flocculation mechanisms in coating systems, art conservation and film formation processes
- **Dean Webster**  
Polymer synthesis, crosslinking chemistry, structure property relationships, combinatorial and high-throughput experimentation