

Coatings & Polymeric Materials

Department Information

- **Department Chair:**
Dean C. Webster, Ph.D.
- **Department Location:**
Research I, Research Park
- **Department Phone:**
(701) 231-7633
- **Department Web Site:**
www.ndsu.edu/cpm/ (<http://www.ndsu.edu/cpm/>)
- **Application Deadline:**
April 15 is the priority deadline for fall consideration. Applications are reviewed on a rolling basis.
- **Credential Offered:**
Ph.D., M.S.
- **English Proficiency Requirements:**
TOEFL ibt 79; IELTS 6.5; Duolingo 105

Eugene B. Caldonga, Ph.D.

University of the Philippines Diliman, 2015
Mississippi State University, 2020

Research Interests: Corrosion-Preventing Materials, Electrochemistry and Surface Chemistry, Additively Manufactured Polymeric Materials, Polymer Nanocomposites, Fluoropolymers, Elastomer-Enhanced Thermosets, Thin Films, Biobased Materials, and Stimuli-Responsive and Super Liquid-Repellent Coatings

Erik Hobbie, Ph.D.

University of Minnesota, 1990

Research Interests: Nanotechnology, Nanoparticles Polymers, Optics and Rheology

Mohiuddin Quadir, Ph.D.

Freie University Berlin, 2010

Research Interest: Organic Polymer Chemistry, Functional self-assembly of polymers, Biomaterials, Application-guided modification of polymers for pharmaceutical and medical use, Bio-based materials

Xiaoning Qi, Ph.D.

North Dakota State University, 2009

Research Interests: Corrosion Characterization and Prevention, Coating Design and Formulation, Sustainable Coating Solutions, Bridge Coatings, High Temperature Coatings, Durable Functional Surfaces, and Repairable/Healable Coatings.

Bakhtiyor Rasulev, Ph.D.

Uzbek Academy of Science, 2002

Research Interests: Cheminformatics, Computational Chemistry of Polymers and Coating Materials, Quantitative Structure-Activity Relationship, Predictive Models Development, Molecular Modeling, Nanoparticles, Physico-Chemical Properties and Toxicity Assessment

Andriy Voronov, Ph.D.

Lviv Polytechnic National University, 1994

Research Interests: Polymer Synthesis, Micellar Self-Assembly, Sustainable Biobased Polymeric Materials, Responsive Polymers for Biomedical Applications, Polymers for Biomimetic Conversion of Biomass, Polymer Latexes, Polymer Hydrogels, Polymer Thin Films.

Dean Webster, Ph.D.

Virginia Polytechnic Institute and State University, 1984

Research Interests: Polymer Synthesis, Thermosets, Polymerization Reactions, Bio-based materials, Marine Coatings, Combinatorial and High Throughput Methods.

Adjunct Faculty

Dante Battocchi, Ph.D.

University of Trento, 2001

North Dakota State University, 2012

Research Interests: Electrochemical Noise Measurements, Scanning Vibrating Electrode Technique (Svet), Organic Metal-Rich Primers Characterization and Development, Materials Protection and Metal Corrosion

Bret Chisholm, (Bridgestone-Firestone)

University of Southern Mississippi, 1993

Research Interests: Electrochemical Noise Measurements, Scanning Vibrating Electrode Technique (Svet), Organic Metal-Rich Primers Characterization and Development, Materials Protection and Metal Corrosion

Victoria Gelling, Ph.D. (Sherwin-Williams)

North Dakota State University, 2002

Research Interests: Electrochemistry, Corrosion, Environmentally Compliant Corrosion Inhibitors

Ghasideh Pourhashem, Ph.D.

Drexel University, 2014

Research Interests: Environmental impact assessment to inform decision making, Life cycle assessment (LCA) and techno-economic analysis (TEA) of bio-based products, Industrial Ecology, bio-based product policy

Brian S. Skerry, Ph.D. (Sherwin-Williams)

University of Manchester, 1980

Research Interests: Corrosion and Coatings

Emeritus Faculty

Stuart G. Croll, Ph.D.

University of Leeds, 1974

Research Interests: Weathering Durability of Coatings, Service Lifetime Prediction, Colloidal Stability, Molecular Modeling, Pigment-Polymer Interactions, Film Formation Processes, Coating Physics, Art Conservation

Dennis E. Tallman (formerly of NDSU Dept. of Chemistry)

The Ohio State University, 1968

Research Interests: Analytical And Physical Electrochemistry, Corrosion Mechanisms, Corrosion Control By Coatings, Electroactive Conducting Polymers, Scanning Probe Techniques Microelectrodes And Microelectrode Arrays