Corrosion Research at UGA
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Why study corrosion?
• 20 billion dollars per year in corrosion maintenance costs
• Growing problem in many industries

Approach – Combined Experiments & Intelligent Computations

Overview of Corrosion Health Assessment

Degradation of Chemical Elements during Corrosion

Experiments

Corrosion Assessment - Results

Intelligent Simulations (2D & 3D)

Future Work
• Multi-scale Microscopy and Modeling
• Combined Discrete and Continuum Modeling Techniques for Corrosion Risk Assessment
• Develop a user friendly simulation software

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