AIMS^2 Research Project in Materials Engineering/MSEM, Summer 2019

Research Duration: June 3, 2019 till August 9, 2019 (~15-20 hrs per week, minimum three days/wk)

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Goals and Objectives of the Project, Expectations and Outcomes:

Improving the durability of packaging materials using vapor phase corrosion inhibitors

On a global scale, the packaging industry is an enormous economic generator. Statistics from the well-recognized Smithers Pica organization indicate the world packaging industry's market value will reach $1 trillion by 2020. That's up from $839 billion in 2015. Consumer trends and industry trends for packaging drive this gigantic growth rate. Reduce, reuse and recycle is part of the green commitment to being responsible in the world. Today's consumers are far too aware of their environmental footprint. More people than ever are joining the ecological fight and doing their part to protect their share of the world. The packaging industry must recognize and respect consumers' desire to maintain a smaller carbon footprint. They can do that by making smaller and greener packages. Application of green corrosion inhibitor in packaging materials (wrap paper, film and box) will be investigated using standard corrosion and durability tests.