

TITLE: EHSE10 Corrosion

DURATION: 1min 48

AUDIO TRANSCRIPT

VO: It began as a side effect of the Industrial Revolution and it continues to ravage at epidemic proportions today.

0.09 - It's not selective and our research shows that it takes on many forms.

0.22 - The economic impact is immense, so understanding it may lead us to a compelling strategy to protect against this relentless menace.

0:31 - Corrosion cost is significant for any nation. It has been estimated that the cost of corrosion is approximately 3-4% of an advanced nation's GDP.

Costs consist of material replacement, repairing corroded structures, loss of production and application of protection coatings and inhibitors.

0:54 - Corrosion is a significant issue in Darwin, and, being in the tropics, has higher than average temperatures and humidity. Due to this, it is expected that we have microbes different from other states influencing corrosion. Preliminary studies have found that the microbiologically influenced corrosion of aluminum in Darwin can be 6 times that of other states.

1.20 - Corrosion requires at least a material and an environment. CDU has excellent materials, research facilities and facilities for carrying out rapid corrosion experiments using advanced techniques.