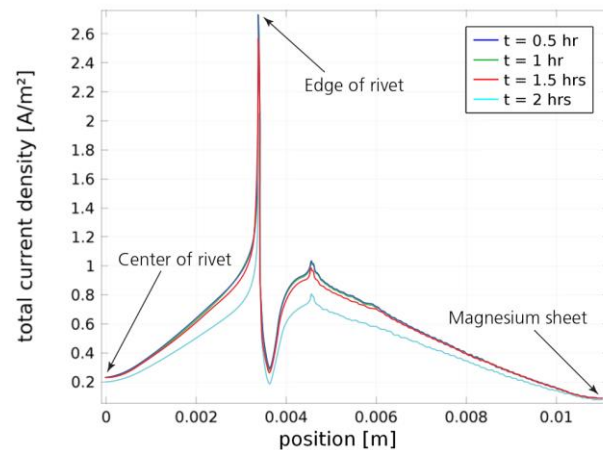
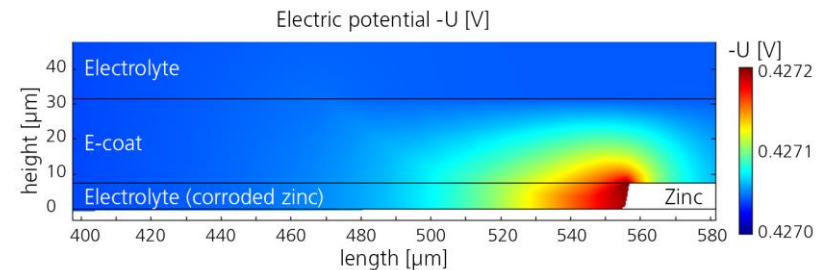


Defending Automotive Components Against Corrosive Destruction

- Corrosion, caused by reactions between different metals and enabled by small defects and scratches, costs the automotive industry billions of dollars annually
- Researchers streamlined rivet design by analyzing electrochemical interactions and delamination using multiphysics analysis, and adjusted rivet geometry based on the simulation results
- COMSOL News 2015: Daniel Höche, HZG, and Nils Bosch, Daimler AG, Germany



COMSOL® results showing localized current density at different positions on the surface of a rivet joint.



Results showing electric potential in a layer of e-coat and electrolyte in an electrocoated steel test sheet.