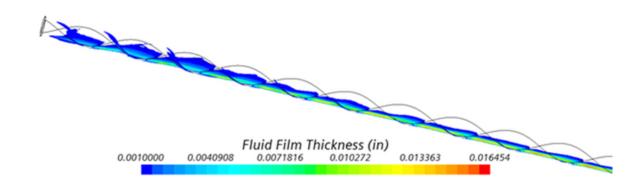
## Toward Optimal Secondary Furnace Heat Exchanger: Modeling of Furnace Combustion Gas Condensation

Project Number 21-02



## **PROJECT TEAM:**

Students: Hyunjin Park; Faculty: Aaron Alexander, Christian Bach

## Goal

Develop predictive lookup tables and correlations for heat transfer and condensation in furnace secondary heat exchangers

## **Outcomes/Deliverables**

This project will deliver:

- 1. a lookup table of heat transfer value for a range of tube diameters, inlet temperatures and mass flow rates, and trubulator twists;
- 2. correlations for heat transfer and condensation developed from the lookup tables

