

## Sassan Etemad

Docent/Adjunct professor (20%)  
in Applied Thermo-Fluid Dynamics



**CHALMERS**  
UNIVERSITY OF TECHNOLOGY

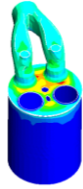


### Academic Background

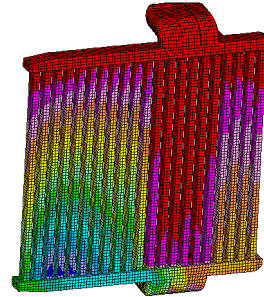
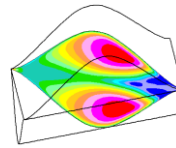
- Gas Turbine Blade Film Cooling (MSc)
- Vehicle Aerodynamics (Lic)
- IC-engine Related Heat Transfer (PhD)

# Some Automotive Related Thermo Fluid Areas of Interest

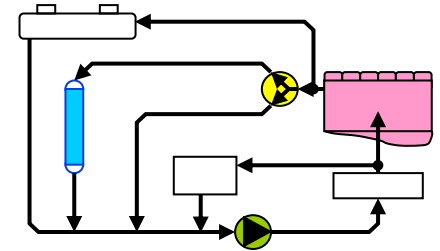
- Engine Precision Cooling



- Compact Heat Exchangers



- Cooling Performance, Cooling System, Oil System

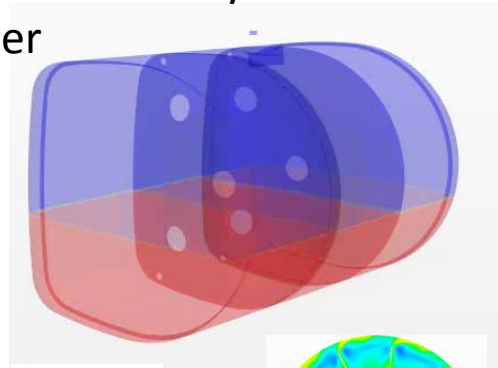


- Flow In Exhaust System and Air Intake System

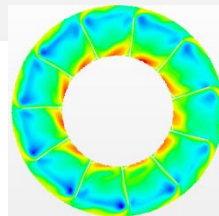
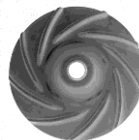
- Two Phase Flow in Air Cleaner



- Slushing Flow In Fuel Tanks



- Coolant Pump, Cooling Fan



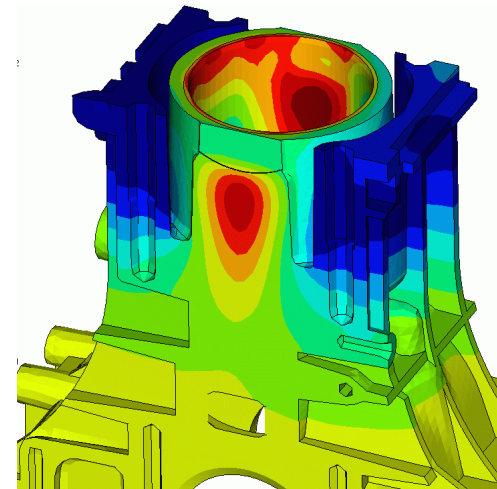
- Radiation In Under-hood Region

- Evaporation/Condensation/Freezing

# Cooperation with Volvo GTT and Volvo Cars

**Precision cooling for CO<sub>2</sub>-reduction, PhD,**  
on-going.

(Methods for applications in general and in particular for internal combustion engines)



**Electric fans for Electro-mobility, PhD,**  
new application.

(Methods for development of e-Fan concepts  
for efficient silent fans for e-Mob applications)

