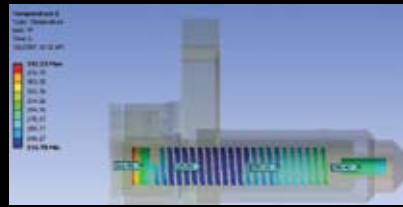
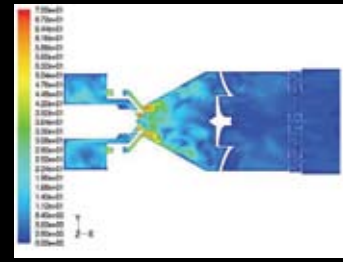


Conceptual Design & Manufacturing of Injector & Mixing Systems



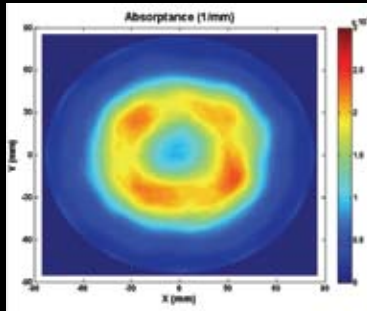
Thermal Analysis of a Preheating Diesel Injector



Computational Fluid Dynamics Analysis of a Diesel Injector & Mixing Chamber



Steam - Hot Air Testing



Spray Patternation of a Diesel Injector Using Laser Extinction Tomography



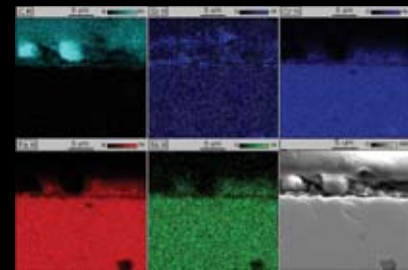
Test Rig for Analyzing Coke Formation of Fuel in Hot Environments



Droplet Measurements of a Diesel Reforming Injector Using Phase Doppler Particle Analyzer



Piezoelectric Injector Developed for Low Flow Rate & Low Pressure Applications



Material Mapping & Scanning Electron Microscope Analysis of Carbon Deposited During Heated Tests with Diesel Fuel

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Goodrich has developed gas and liquid fuel nozzles and mixers for various solid oxide fuel cell applications ranging from 10 to 300 kW systems. As a leading supplier of aircraft fuel injectors, Goodrich is well suited to provide innovative solutions to the challenges of liquid fuel reforming. Research funded through DOE/SECA has focused on developing various fuel atomization methods including low pressure, preheating, and piezoelectric. Work also entailed testing carbon resistant coatings and mixing chamber development.

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