



Mr. Kerry M. Klingler

Significant research in Alternative Fuels, Transportation Issues, Development of New Vehicles, Intelligent Transportation Systems, and Robotics.

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Education

Mr. Kerry Klingler received his Bachelor in Science degree in Design Engineering in 1987 from Brigham Young University.

Experience and Achievements

He is an advisory engineer in the Fossil Energy Department at the Idaho National Laboratory. Mr. Klingler has been employed at the INL since 1990; he is currently working as a project manager on transportation related issues in El Paso and working as an engineer on the Alkaline Metal Reformer project. Prior to coming to the INL to work, Mr. Klingler worked for Bentley Nevada Corporation, in Minden Nevada 1986 through 1990.

Mr. Klingler's research interests include alternative fuels including natural gas and hydrogen, transportation related issues including development of new vehicles and intelligent transportation systems, and robotic systems for use in the petroleum industry for inspections. He is currently a member of a research team investigating the production of high pressure hydrogen from an alkaline metal process, and a project manager on multiple transportation projects in El Paso including development of an Americans with Disabilities Act compliant natural gas bus that incorporates a hybrid hydraulic system for enhanced vehicle performance and mileage, a rural intelligent transportation system, and secure tracking of products across the US/Mexican border. Mr. Klingler has been part of teams that have developed a small scale liquefier for the natural gas industry and a robotic system to inspect the floor of above ground storage tanks for the petroleum industry.

R&D 100 Awards

Compact High Efficiency Natural Gas Liquefier - 2006

INL Robot Intelligence Kernel - 2006

INL'S LIFETIME ACHIEVEMENT AWARD FOR INVENTORSHIP

Patents

- U.S. Patent 5,482,626 – Analytical Liquid Test Sample Filtration
- U.S. Patent 5,677,193 – Method and Apparatus for Processing a Test Sample to Concentrate an Analyte in the Sample from a Solvent in the Sample
- U.S. Patent 6,187,209 – Lined Sampling Vessel Including a Filter to Separate Liquids from Solids on Exit
- U.S. Patent 6,581,409 – Apparatus for the Liquefaction of Natural Gas and Methods Related to the Same
- U.S. Patent 6,997,012 -- Method of Liquefying a Gas