
2014 USFOE
BREAKOUT SESSION
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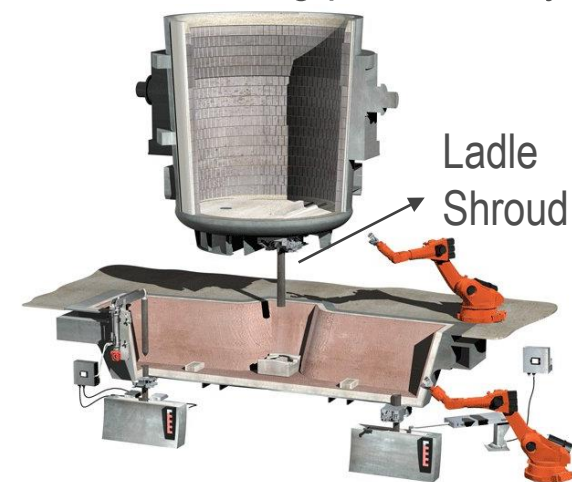
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RESEARCH OUTLINE

Vesuvius is a global leader in molten metal flow engineering. As a principal scientist at Vesuvius, the research and development work I do is concentrated on;

- Applying innovative materials science solutions to current product portfolio of high temperature ceramics with the goal of enhancing their properties and performance. As a result, help Vesuvius maintain technology leadership.
- Performing long term (blue skies) research to create disruptive, next generation products.
- Simulating field conditions in the laboratory to understand the product behavior in use.
- Providing improved products to customers for higher purity steel production, while increasing production yield and decreasing energy consumption.



Continuous Casting Overview



Ladle Shroud (LS) in use during continuous steel casting. LS is subjected to temperatures of up to 1650 °C (3000 °F) during steel casting.