Modeling Erosion and Corrosion using Computational Fluid Mechanics Solutions from ANSYS

Speaker: Dr. Vedanth Srinivasan
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Equipment, pipelines, oil and gas tools and machinery are designed to handle erosive and corrosive environment. Increasingly, engineers are asked to design equipment with higher reliability and extend the life of systems handling particulates and operating in corrosive environments. Since many years ANSYS computational fluid mechanics products have been applied to modeling flows with particles. These simulations have been using a combination of erosion models to calculate the material wear even including f the local effect of pitting and changes to flow pattern as material surface degrades. More recently a set of studies have examined applications of ANSYS CFD software to model corrosion.

This webinar will provide an overview of a range of erosion modeling examples and will highlight the current application of CFD to corrosion modeling. As a result, attendees will gain insights into how through simulation driven product and process development it is possible to increase product performance and safety, reduce equipment failure and better manage product designs.

Technical topics covered include:

- Modeling particulate systems
- Elements of erosion modeling
- Use case and examples of erosion in Oil and gas and petrochemical equipment
- Fundamental approaches in modeling corrosion with ANSYS CFD

Who should attend?

Engineers and specialists working in oil and gas drilling and production, offshore and subsea, flow assurance as well as engineers, operators, contractors and equipment makers handling particulate systems and process industry equipment

Speaker Profile:

Dr. Vedanth Srinivasan has been working with ANSYS for 2 years and has expertise in Flow assurance, Reservoir Modeling & Pipeline Integrity. Vendath obtained his Ph.D. in Mechanical Engineering from University of Kentucky. He has numerous written publications to his credit. He works out of our Houston office.

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