

Addressing Scale Up, Mixing and other Challenges in the Pharma, Biotech & Chemical Process Industries



Date and Location

November 3, 2015 | 9:00 AM - 2:30 PM

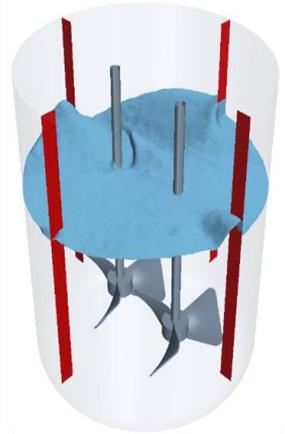
[Courtyard Boston Cambridge](#)

777 Memorial Dr. Cambridge, MA 02139

November 5, 2015 | 9:00 AM - 2:30 PM

[Princeton Marriott at Forrestal](#),

100 College Rd. East, Princeton, NJ 08540



“For the Pharmaceutical Industry to continue to be successful, drug manufacturing must become agile, rapidly scalable, efficient, reliable—and less costly. (The) FDA has embarked on a new chapter of our 'Pharmaceutical Manufacturing for the 21st Century Initiative,’” says Janet Woodcock, M.D., Director, Center for Drug Evaluation and Research, US Food and Drug Administration.

The pharmaceutical and chemical process industries face many challenges, such as the rising costs of raw material and the need to develop processes and innovative products that meet safety regulation and performance demands. As the complexity of these operations continues to increase, poor scale-up designs lead to incrementally lower production yield, higher material cost, and a reduced bottom line.

Computational Fluid Dynamics (CFD) and particle modeling with Discrete Element Method (DEM) have been identified as key enabling technologies in finding solutions to many of the challenges that surround scale-up; capable of reducing operating costs across manufacturing and quality divisions.

Please join us for this workshop as we explore the benefits of applying CFD in the chemical process, pharmaceutical and biotech industries.

Guest Speaker:

We are excited to have Paul Kubera, Vice President, Process Technology, ABEC, as our guest speaker. Paul will present case studies using STAR CCM+ for biopharm agitated vessel design and scale-up. This work will include comparison of various cell culture bioreactor platforms, retrofit of bioreactors and fermenters for improved blending and relative performance of product concentration vessels before and after modification.



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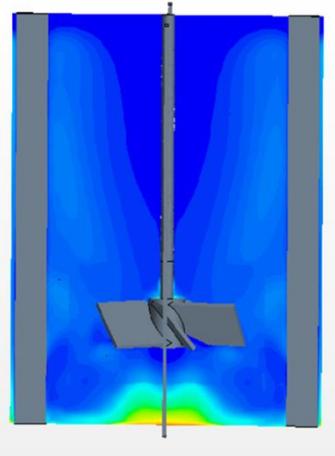
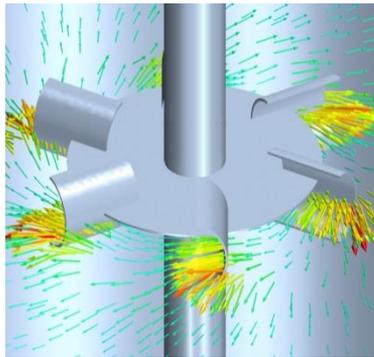
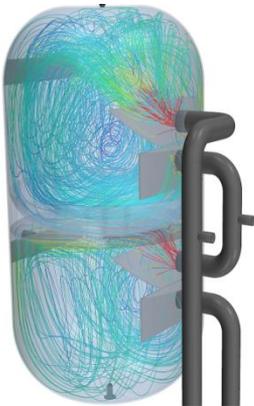
AGENDA



9:00 AM - 9:30 AM	Registration & Breakfast
9:30 AM - 9:45 AM	Welcome & Introduction to CD-adapco®
9:45 AM - 10:30 AM	Using CFD for mixing & process scale-up, fermentation process modeling, and particulate simulation
10:30 AM - 11:00 AM	Software Demonstration: Introducing a new mixing specific tool to accelerate the process of CFD based mixing simulations
11:00 AM - 11:10 AM	Coffee Break
11:10 AM - 11:30 AM	Guest Speaker
11:30 AM - 12:00 PM	General Topics: Using CFD for tableting, aseptic filling, microfluidics, twin screw extrusion, viscoelastic flows
12:00 PM - 12:30 PM	Software Demonstration: Stirred tank reactor, parameterization, design space exploration, and optimization
12:30 PM - 1:00 PM	Lunch (provided by CD-adapco)
1:00 PM - 2:15 PM	Hands-on workshop using CFD for mixing application
2:15 PM - 2:30 PM	Workshop close and final comments

This event is free, but registration is required. Please register online to sign up.

<http://www.cd-adapco.com/workshops>



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