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cpfd COMPUTATIONAL PARTICLE FLUID DYNAMICS

NEWS

November/December 2019

CPFD Software E-Newsletter

Dear Friends of CPFD Software,

As 2019 draws to a close, we would like to share with you one last newsletter for the year.

2019 Year In Review

CPFD Software has had an event packed year that would not have been possible without each of you. We've made a short video of just some of the memorable events from the past year.

Thank you to all of our customers, partners, and friends for your role in the continued growth of our global user community. Here's to continuing our journey together in the new decade!



TechnipFMC Published In November 2019 Issue of PTQ Revamps

In the November 2019 issue of PTQ Revamps, [TechnipFMC's](#) article, *Improved distribution of spent catalyst*, was featured, highlighting the development of TechnipFMC's spent catalyst distributor design from simple 'hockey stick' to 'compound angle wye bathtub' distributor. [Raj Singh](#), [Paul Marchant](#) and [Steve Shimoda](#) discuss how Virtual Reactor™ was used to guide the development of TechnipFMC's latest design and confirm improved catalyst distribution.

We are always excited to see what our customers are doing with Barracuda Virtual Reactor. If you have a success story to share, please let us know. Find more information and a link to the full PTQ Revamps article [at our website](#).

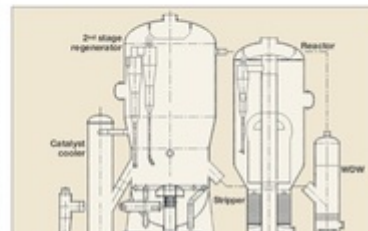
Improved distribution of spent catalyst

Application of a newly designed spent catalyst distributor improves spent catalyst distribution, coke combustion and bed temperatures in the FCC

RAJ SINGH, PAUL MARCHANT and STEVE SHIMODA
TechnipFMC Process Technology

In the fluid catalytic cracking (FCC) process, distribution of spent catalyst in the regenerator is important for effective catalyst regeneration. Uniform contact between combustion air and coke laden spent catalyst results in an even temperature profile throughout the bed and minimises hot spots, resulting in better coke removal and retention of catalyst activity.

This article highlights the development of TechnipFMC's spent catalyst distributor design from simple 'hockey stick' to 'compound angle wye habitat' distributor. This development has focused on



CPFD Software Highly Commended at IChemE Global Awards

The [IChemE 2019 Global Awards](#) has announced CPFD Software as Highly Commended in both the 2019 Industry Project Award and the 2019 Innovative Product Award. Thank you again to [Viva Energy Refining, Australia](#) for their willingness to share their success story with Barracuda Virtual Reactor® at the Geelong Refinery. CPFD Software is honored to have received these commendations.



CPFD Software's proprietary technology, Barracuda Virtual Reactor, is now deployed on 6 continents allowing successes in refining, petrochemicals, gasification, power generation, materials processing and clean energy industries, enabling a sustainable future. To learn more about our collaboration with Viva Energy Australia [visit our website](#).

CPFD Supports Korean Users' Conference



[KyungWon Inc \(KW Tech\)](#), CPFD Software's South Korean distributor, recently hosted the [Barracuda Virtual Reactor Users' Conference in Korea](#). CPFD Software is honored to have supported this excellent event.

The day saw presentations from industry, academia, KW Tech and CPFD, and rich discussions within the Korean user community. Thank you to everyone at KW Tech and to all the attendees who made the event a success.

Fluidization Seminar and Workshop - Houston, January 2020

CPFD Software is pleased to support the upcoming [PSRI Fluidization Seminar and Workshop](#) January 7th - 10th, 2020 in Houston, TX. The purpose of the PSRI Fluidization Seminar is to supply instruction on the theory, design and operation of fluidized beds and solids transfer systems for engineers new to the field, or those who want to improve their understanding. The four-day course covers the basics of fluidized beds and solids transfer, and then discusses how best to design and operate

the most critical elements of fluidized beds and solids transfer such as cyclones, standpipes, gas distributors and pneumatic conveying lines.

[Dr. Peter Loezos](#), Vice President of CPF D Software, a PSRI Strategic Partner, will host a session on Friday, January 10th providing an overview of the simulation of fluidized beds and particle conveyance systems using Barracuda Virtual Reactor. For more information about PSRI, the seminar, or to register, please visit [PSRI's training page](#).



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