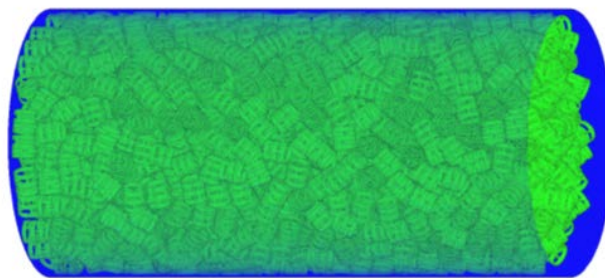




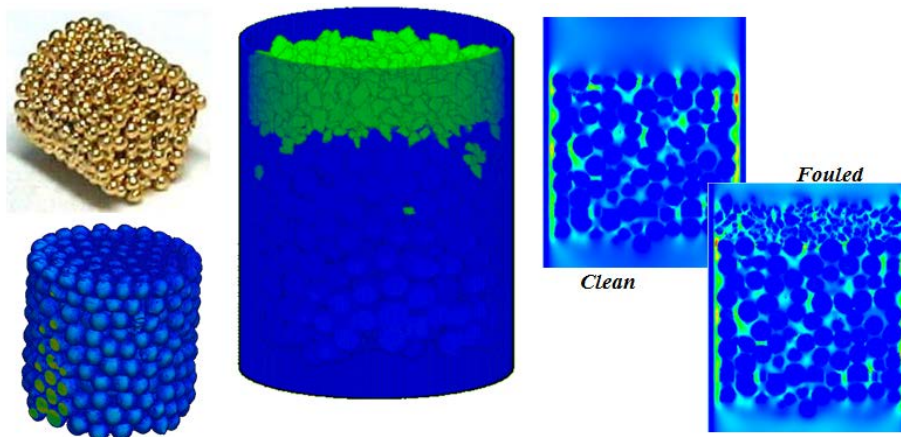
DIGIPAC IN THE LIMELIGHT FOR CATALYST PACKING

DigiPac™ customer Air Liquide are presenting a paper at the prestigious *Turbulence, Heat and Mass Transfer* Conference, held at Palermo, Sicily on September 24-27 2012 (<http://www.thmt-12.org/>).



Packed bed of catalyst pellets modelled with DigiPac™

Entitled *Macroscopic models for the simulation of turbulent heat and mass transfer in catalyst tubular reactors* and presented by **Fabrice Mathey**, it describes how DigiPac™ has been used to model the complex geometry required for packed catalyst beds, and how it accurately predicts the correlation between packing structure and porosity for arbitrary shaped pellets. The paper then goes on to describe how the output can be transferred to a commercial CFD Package, *FLUENT*, for further analysis of the heat transfer mechanisms.



DigiPac™ can be used to determine permeability of packed beds

This kind of analysis is critical in determining the optimal design for fixed-bed reactors used in many chemical processes.

Further Information

Please contact David Knight at d.knight@structurevision.com for more information on how DigiPac™ can be used to model packed bed reactors and optimise catalyst pellet shapes.

Videos of the DigiPac™ process are available at www.youtube.com/user/StructureVisionLtd.

More information on DigiPac™ is available at www.structurevision.com

For more information on Air Liquide, and the research being carried out, please contact Fabrice Mathey at Farbrice.MATHEY@airliquide.com. Structure Vision Ltd are grateful to Air Liquide for their permission to publish this news article.

