



David A R Brown

B.Sc. Chemical Engineering, AMIChemE

Process Research Business Manager

BHR's Process Research business develops and runs industrial and soft funded consortia projects relating to the hydrodynamics and mixing in industrial processes. Our primary clients are the petrochemical, speciality and fine chemical, pharmaceutical, and personal care product industries.

Client Base

- Air Products
- Akzo-Nobel
- ANSYS
- Borealis
- BP
- Chemineer
- Dow Chemical Company
- Dow Corning
- DSM
- DuPont
- Eastman Chemical Company
- Eli Lilly
- ExxonMobil
- GlaxoSmithKline
- Huntsman Polyurethanes
- ICI
- Infineum
- Joshua Greaves & Sons
- LyondellBasell
- Merck
- Pepsi
- Pfaudler Balfour
- Procter & Gamble
- Rohm & Haas
- Shell Global Solutions
- SPX Process Equipment
- Sulzer Chemtech
- UKAEA

Fluid Mixing Expertise

- Expert process mixing consultant, with wide experience in troubleshooting, scaling, and optimising both single and multi-phase processes agitated by impellers, jets and in-line static mixers.
- Managed BHR's Fluid Mixing Processes (FMP) industrial research consortium since 2000. FMP is focused on the development of validated mixing performance prediction and scale-up tools for its Members.
- Created and developed the Microsoft Excel based FMP Mixing Design Guide tool, which allows complex mixing performance calculations to be completed quickly and safely.
- Development and application of novel experimental methods to quantify performance in lab and plant equipment.

Process Modelling

- Manages BHR's Mathematical Modelling section, which focuses on the application of Computational Fluid Dynamics and other numerical techniques to simulate and solve real industrial problems.
- Coordinated a wide variety of CFD and joint CFD/experimental projects, covering processes from simple single phase flows to complex multiphase chemical reactions.

Other Relevant Experience

- Developed and managed both UK government and EU funded joint industrial/academic research projects.

Publications & Presentations:

- Author of the "Experimental Methods" chapter of the "Handbook of Industrial Mixing: Science and Practice", Wiley & Sons, 2004.
- Author of over 40 technical reports and papers.
- Regular presenter and Session Chair at AIChE, NAMEF, and IChemE FMPSG Meetings
- A regular presenter at both public and client specific process mixing courses

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