



Gustavo A Padron

PhD, MSc, AMIChemE

FMP Project Manager, BHR Group

Client Base and Networking

- Akzo Nobel
- ANSYS
- Bayer
- BP
- Chemineer
- Church & Dwight
- Dow Chemical
- DSM Research
- DuPont
- Eastman Chemicals
- Eli Lilly
- ExxonMobil
- GSK
- Huntsman
- Infineum
- ITS
- Joshua Greaves & Sons
- LyondellBasell
- PepsiCo
- Procter & Gamble
- Rathi Vessels & Systems
- Rohm & Haas
- Shell Global Solutions
- Solvay
- SPX Process Equipment
- Sulzer Chemtech
- Unilever
- Ytron Quadro

Memberships:

- Senior Member of the American Institute of Chemical Engineers (AIChE)
- Associate Member of the Institution of Chemical Engineers (IChemE)

Technical Experience

- Liquid-liquid and gas-liquid mixing processes.
- Incorporation and dispersion of nanoparticles in liquids.
- Design, commissioning, execution and analysis of experimental projects related to mixing processes.
- Scale up of emulsification process, from laboratory to pilot plant and to industrial plant scale.
- Physical and rheological properties of crude oil-in-water emulsions.
- Lecturer in industrial mixing training courses.

Managerial and Commercial Experience

- Manager of BHR Group's Fluid Mixing Processes industrial research consortium (www.bhrgroup.com/fmp)
- Management of technical areas of industrially funded research consortia related to industrial mixing and nanoparticle dispersions
- Technical and commercial presentations for clients and potential clients.

Publications and Presentations

- Padron, GA; Brown, DAR (2010) "Effect of Dispersed Phase Fraction on Drop Size in Immiscible Liquid-Liquid Dispersions: Coalescence or Turbulence Damping?" MIXING XXII, 22nd Biennial North American Mixing Forum's Conference, 20 – 25 June, Victoria, British Columbia, Canada.
- Özcan-Taşkin, NG., Padron, G. and Voelkel, A. (2009) "Effect of particle type on the mechanisms of break up of nanoscale particle clusters". Chemical Engineering Research and Design, 87 468–473
- Padron, G; Clements, P; Özcan-Taşkin, G; Rielly, CD (2008) "Incorporation of hydrophilic and hydrophobic nanoscale silica particles in water" International Conference on Process Intensification & Nanotechnology, 15 –18 September, Albany, New York, USA.
- Padron, GA; Eagles, WP; Özcan-Taşkin, NG; McLeod, G and Xie, L (2008) "Effect of particle properties on the break up of nanoparticle clusters using an in-line rotor-stator". Journal of Dispersion Science and Technology, 29 (4):580–586
- Padron. GA; Calabrese, RV (2005) "Effect of Surfactants on Mean Drop Size in a Batch, Rotor-Stator Mixer". MIXING XX, 20th Biennial North American Mixing Forum's Conference, 26 June – 1 July, Parksville, British Columbia, Canada.
- Gurfinkel, ME; Marrufo, FA; Chirinos, MS; Silva, FA; Padron, GA; Nuñez, GA; Mata, CE; Blanco, C (2004) "Preparation of Stable Emulsion Using Dynamic or Static Mixers". U.S. Patent No. 6,677,387 B2. Washington, DC: U.S. Patent and Trademark Office.

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