

INFOCHEM

COMPUTER SERVICES LTD



Typical Projects

Infochem offers analysis of the thermodynamics of engineering problems; causes and solutions. Our expertise and state of the art software, Multiflash and FloWax for phase and chemical equilibrium calculations, including formation of hydrates, waxes and asphaltenes and wax deposition allows us to undertake a variety of projects.

- Gas hydrate formation as a potential hazard during drilling.
- Well control studies on gas and condensate kick.
- Potential hydrate formation and inhibition strategies for well start-up.
- Extending modelling of thermodynamic properties of gas hydrates and hydrate inhibitors to heavier fluids in deeper waters.
- Development of a hydrate nucleation model for an oil industry joint venture.
- Analysis of modeling hydrate kinetics
- Wax deposition in pipelines and pigging strategies
- Asphaltene and wax precipitation studies, including the effects of co-mingled production and gas injection.
- Thermodynamics of the phase behaviour of oil, gas and water mixtures and its influence on multi-phase flow in pipelines.
- Dew point control and related issues for gases and condensates.
- Studies of mercury partitioning and drop-out in natural gases and condensates.
- Influence of thermodynamic models and calculation procedures for compressors.
- Calculation of gas separation in a turbine by centrifugal forces.
- Formation of solid CO₂ in turbines.
- Modelling sour gas treating with mixed amine solvents.
- Support for modelling of dispersion of gases and liquids from pipeline fractures.
- Modelling PVT experiments.
- Thermodynamic properties of new refrigerants for manufacturers and end users.
- Developing a new high-accuracy model for air to improve efficiency and reduce tolerances in cryogenic separation processes.
- Flammability limits of natural gas mixtures.
- Setting up specific process models for petrochemical and organic mixtures.
- Development of fast approximations of thermodynamic models for use in real-time simulation.
- Generation of physical properties for components not available in standard data-banks.

Contact details:

13 Swan Court, 9 Tanner Street, London SE1 3LE, UK
Tel: +44 (0)20 7357 0800 Fax: +44 (0)20 7407 3927

Email: info@infochemuk.com

Website: www.infochemuk.com
