



Haci Ozgencil

M.Sc. Water and Wastewater Engineering, Dipl d'Ing ENSCR

Project Engineer, BHR Group

Client Base

- Monsal
- Yorkshire Water
- Severn Trent Water
- United Utilities
- Northumbrian Water
- Scottish Water
- Thames Water
- ITT Flygt
- Statiflo International
- Hidrostat
- Halcrow
- Aker Solutions
- Pell Frischmann
- Imtech
- Enpure

Membership of Committees/Panels

- Construction Skills Certification Scheme, Sewage & Water Treatment

Academic and Research networks:

- Henkel Düsseldorf Headquarters, Germany
- Kiwa Water Research, Nieuwegein, the Netherlands
- University of Northern Iowa Cedar Falls, USA

Technical Experience:

- Dosing and mixing in wastewater treatment plants
- Energy saving in flash mixing and flocculation
- Cavern formation in yield stress fluids
- Sludge rheology testing
- Disinfection contact tank evaluation
- Mixing audits for water treatment
- Site tracer testing
- Physical model testing

Managerial and Commercial Experience:

- Management of small-medium size consultancy projects
- UK & European proposals
- Technical presentations to clients
- Attendance at conferences

Research

- Thesis project: "the treatment of spent metalworking fluids using advanced oxidation processes (AOPs) and biodegradation". The AOPs used were UV, UV/H₂O₂, TiO₂ photocatalysis, and photo-Fenton (UV/Fe²⁺/H₂O₂).
- Developed and optimised an electrochemical method for fast evaluation of corrosion inhibitors (phosphonate or phosphate based) used in cooling systems as an alternative approach to time consuming weight loss measurements. Various electrochemical techniques were used to assess the efficiency of inhibitors and their mechanism of action.
- The influence of the hydrophobicity of pesticides on the adsorption on nanofiltration membranes (laboratory and bench scales). Pesticides with various molecular weights and octanol-water partitioning coefficients were used to assess their removal efficiency and adsorption.
- The photocatalytic degradation of azo dyes by titanium dioxide (fixed on a film or in free slurries). Several light sources were used (UV, sunlight, fluorescent lamps) for the degradation of the pollutants and various analytical methods were employed to study their mineralisation and by-product generation.

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