INDUSTRY CLASSIFICATION (N) - Water Industry

AGE AT INTERVIEW 31

ELECTION OR TRANSFER TO: Member

FIRST DEGREE 2:2 Hons. from Brighton Polytechnic in Mech. Eng., 1991

<u>SUBSEQUENT DEGREES AND OTHER QUALIFICATIONS</u> - MSc from Cranfield Univ. in Water & Wastewater Engineering, 1993

EXPERIENCE PRIOR TO PRESENT POSITION

Anglian Water Services Ltd., 1993-1995 - Pilot Plant Technician; 1995-1996 - Wastewater Technologist.

PRESENT POSITION

Anglian Water Services Ltd., 1996-present - Innovation Technologist. Duties include:

- Project management of several novel water and wastewater technologies
- Design of pilot-scale and full-scale treatment processes for wastewater, sewage and high-purity water
- Providing process expertise and technical support to the operations part of the business
- Investigating problems relating to processes, valve engineering and new technologies
- Commercial support, analysing customer requirements, designing solutions, obtaining quotations and determining time-scales
- Presenting technical papers internally and at "roadshows" or conferences
- Writing articles for publication and providing assistance to external customers

 STAFF REPORTING PROFESSIONAL 1 to 2

 MANUAL 0
 0

 OTHER
 3 to 4

INTERVIEWERS' COMMENTS

A Demonstrate knowledge and understanding of engineering principles

Key elements of competence	Examples of meeting A			
maintains a sound theoretical approach to technology	Greywater project, Linacre College & Cranfield			
applies a creative approach to problem solving	Greywater membrane process from lab scale to house			
introduction/exploitation of emerging technologies	Sales of odour control and "black box" sewage treatment processes			
promotes innovation and advances in technology	Roadshows & training for new "Biocell" & Kaldnes/Zenon technologies			

B Demonstrate practical application of engineering knowledge and expertise

Key elements of competence	Examples of meeting B	
takes initiative to identify potential projects and opportunities	Design manual for greywater & blackwater recycling projects	
participates in or specifies research, design and development	Biological iron & manganese removal, E. Ruston; 3-year M.Phil. (Cranfield) on greywater characterisation and treatment.	
plans and implements solutions evaluates solutions	Installation of prototype odour control plant, commissioning trials & performance evaluation Numerous field trials and bench scale studies	

C Leadership and management

Key elements of competence	Examples of meeting C	
experience of effective project planning and implementation	Planning "Biocell", "Dekoda" & "Zenon" trials Design manual for effluent recycling	
manages and plans budgets, tasks, people and/or other resources	Numerous projects from £30K to £350K value Recommends courses for team members needing special skills; competitive interviews when assembling teams	
ensures team members have appropriate skills		
contribution to continuous improvement via quality management	Regular review meetings; mentoring and help with project and academic work, processes & engineering	

D Communication and inter-personal skills

Key elements of competence	Examples of meeting D	
demonstrates oral communication skills	Conference presentations, TV appearances, PR presentations	
displays written communication skills has the ability to present and discuss ideas and plans	Articles in industry magazines, conference papers Brainstorming and interdepartmental meetings	
ability in team building and negotiating activities	Mentoring of operational staff	

E Professional conduct

Key elements of competence	Examples of meeting E		
compliance with codes and rules of conduct of the profession	WEPG and steering committee involvement Risk assessments of individual sites; elimination of confined spaces on pilot sites		
application and management of safe systems of work			
familiar with relevant legislation especially health, safety, risk and the environment	Water quality, metals, chemical & biological standards; electrical standards & CDM regulations		
displays a commitment to undertake continuing professional development, including a personal Development Action Plan	Secondments, business courses, job sharing, writing of technical papers		
demonstrates involvement with the IMechE, other professional engineering Institutions, schools, colleges or local other community activities	Local school design project; attends IMechE and CIWEM presentations; presentations to schools		

COMPETENCES AWARDED

	Α	В	C	D	Е
l	3	3	3	3	3
	3	3	3	3	3

PANEL RECOMMENDATION

Transfer to Member

MEMBERSHIP COMMITTEE DECISION Transfer to Member