

## CV – Patrick Foss-Smith

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<b>Name</b>	<b>Patrick Foss-Smith</b>
<b>Age</b>	57 (DoB 25 March, 1953)
<b>Secondary Education</b>	Milton Abbey School, Blandford, Dorset.
<b>Higher Education</b>	HND Marine Engineering, Southampton College of Technology. Royal Military Academy, Sandhurst. Royal School of Military Engineering. MSc Sustainable Waste Management, University of Southampton

### Work Experience

#### 1985-2010 — Freelance Environmental Consulting Services.

*Specialising in the waste disposal / environmental engineering industry; recent experience includes:*

- Principal consultant for extinguishing and underground tyre fire in Wales.
- Specialist sub-consultant for extinguishing an underground municipal waste landfill fire on Malta.
- Advisor to a US coal mine operator on appropriate methods of extinguishing an underground coal fire.
- Conducted a detailed review into the scope of likely residual hazardous wastes to be found in obsolete naval vessels including appropriate ship breaking and waste treatment techniques (White Young Green Environmental for UK Ministry of Defence) and:
- A review of the status of Plasma Conversion as a means of disposing of the above wastes. Review included a technology appraisal, the state of commercial readiness of the system, background information and a brief review of alternative / competing technologies (UK Ministry of Defence) and.
- Recommendations for the scope and outline proposal for the construction of a sustainable ship-breaking yard in Romania (UK Ministry of Defence)
- Expert Witness for Professional Indemnity insurers regarding asbestos contamination of a housing development located on a former RAF airfield Claim settled out-of-court for £650k reduced from an original claim of £9.8m on basis of evidence produced.
- Instigated and managed a fully funded research project at the University of Southampton to stabilise radioactive liquid wastes, stored in reactor lagoons, using activated carbon / hydroxyapatite matrices.
- Reviewed various methods of remediating radioactive ground water using Permeable Reactive Barrier techniques. Drafted a detailed proposal for the application of PRBs to the remediation of leakage from tanks in Hanford, USA.
- Reviewed composting technology for the PHARE programme for the disposal of bulk military explosives in the Ukraine and assisted in the implementation of a complete system from water jet flushing of old munitions to co-composting of the liquors produced with green wastes.
- Detailed design of an integrated waste collection, recycling, incineration and landfill system in Mauretania.
- Detailed proposal for an integrated waste-to-rail management strategy for the City of Colombo undertaken on behalf of the Sri Lankan Government by World Bank.

## 1980-1985 — George Wimpey plc

Employed by Wimpey Waste Management, firstly as an engineer responsible for the design and construction of specialist road/rail plant (e.g. a pyrophoric catalyst screening rig, inert-entry life support vehicle, TRACVAC {rail mounted track cleaning plant} and a single-pass platform cleaning system for London Underground) Then, as Technical Manager for the Industrial Services Division, specialising in high-pressure water jetting and vacuum conveying of wastes. Developed and operated cleaning / waste disposal systems for the oil & and chemical industries — including tank cleaning and liquid wastes collection and filtration.

On company re-organisation in 1981 appointed General Manager and Managing Director of Wimpey Laboratories' operations in Saudi Arabia. Responsible for business profitability and technical output of turn-key contracts for water and environmental engineering, waste disposal engineering (landfill & treatment) and associated laboratory services to ARAMCO and other clients.

## 1975 - 1980 — Army Officer, Royal Engineers

Commissioned into the Royal Engineers from Sandhurst and, after civil and military engineering training, joined an Airfield Damage Repair (ADR) Squadron participating in the development of a system for rapidly reinstating damaged runways using a variety of methods.

Organised and ran operational (ADR) trials at RAE Boscombe Down using Buccaneer aircraft. Installed E-RHAG (aircraft arrestor wire) systems on various airfields. Commanded a road construction project in Canada comprising 20Km of all-weather road and a two span RC bridge over deep water.

Involved in the planning and execution of various emergency relief operations. Specialised in explosive engineering in 1978 and spent the remainder of my time in the army teaching this, and other subjects, to Sappers.

## 1970 - 1975 — Marine Engineer

Served a full engineering apprenticeship with P&O Lines followed by service as a Marine Engineer Officer on various passenger ships..

*Paper: **Mixtures for the Adsorption and Storage of Radionuclides Contained in Nuclear Waste and Contaminated Groundwater.** Authors: Patrick Foss-Smith, Brimac Carbon Services, Ltd. (UK); Ray Lidzey, Brimac Carbon Services, Ltd. (UK) ; James H.P. Watson, University of Southampton (UK) ; Derek Elwood, University of Southampton (UK).*