



<b>NAME OF PERSON</b>	J E S Anketell-Jones	<b>YEAR OF BIRTH</b>	1965
<b>NATIONALITY</b>	British	<b>PROFESSION</b>	Geotechnical Engineer
<b>ACADEMIC QUALIFICATIONS</b>	Portsmouth Polytechnic 1991 BEng (Hons) Engineering Geology & Geotechnics,  Imperial College London, 1998 MSc Soil Mechanics & Environmental Geotechnics,		
<b>PROFESSIONAL QUALIFICATIONS</b>	Member of the Institution of Mining & Metallurgy, 1991 Member of the Geological Society, 1991 Chartered Engineer, 1997		
<b>KEY EXPERIENCE</b>	Foundation design for bridges, housing and industrial sites Retaining wall analysis Slope stability assessment Ground Investigation for highway; airport infrastructure and housing scheme Construction control & supervision Geotechnical Instrumentation Insitu and laboratory soil Testing Operational Management and business development		

## **EMPLOYMENT HISTORY**

### **2003 To date**

#### **DIRECTOR, 3J GEOTECHNICS LTD**

From January 2003 I have worked as an independent Consultant providing geotechnical design, advice and supervision to a number of Consultants, Developers and Contractors. We have formed a limited company and work throughout the UK. A selected number of projects are listed below;

LANCASHIRE BSSF, Tender stage assessment of the ground conditions at three schools to be built near Blackburn, including one to be constructed over a former brick pit that has been filled with up to 26m of ash and colliery spoil.

REDDISH NORTH STATION FOOTBRIDGE. Category 3 check on piling platform design, slope stability assessment and reinforced earth slope design associated with a new footbridge.

ROYAL MILLS, MANCHESTER. Engineering supervision during construction of two basement car parks associated with the redevelopment of the royal mills complex. Consultation on issues relating to building movement and flow failure of soils through the piles.

CHAPEL WHARF, Manchester. Design of ground investigation, including the specification of a number of shallow pressuremeter tests for a proposed tall building in central Manchester. Preliminary design of a cantilever piled wall to support the basement excavation.

LEIGH SPORTS VILLAGE, GREATER MANCHESTER. Fieldwork supervision and interpretative report for large sports and educational facility proposed adjacent to the current Leigh Sixth Form College. Also assistance during construction where sewers and a road were constructed through an area of poor ground.

BUTTERLEY ENGINEERING, RIPLEY: Rotary coring to allow review potential ground disturbance caused mining and by a potentially collapsed canal tunnel situated 30m below a potential development site. Assistance with supervision and reporting of the necessary drilling and grouting.

NETWORK RAIL NORTHWEST. Aerial photographic interpretation of five sites in Lancashire, where historical or contemporary instability was reported.

DRIGG VAULTS, CUMBRIA. Technical Supervision, validation and liaison with the design team regarding the Phase 1 ground investigation for a proposed new vault within the Drigg Low Level Waste Repository, Preparation of the specification for Phase 2 of the work, including internal safety documentation and documents to justify the business/technical need for these investigations.



GREENSIDE PLACE, EDINBURGH. Observational based supervision of a mini piling contract to form the supports for a new footbridge in central Edinburgh. Liaison between main contractor and sub contract piling company and inspection of arisings to ensure that an adequate length of rock-socket was formed.

BAA EDINBURGH, NEW MULTISTOREY CAR PARK. Supervision and pile test scheduling of a large contract to drive over 800 250mm square precast concrete piles. Review of dynamic and static testing and liaison between the Engineer and the Main Contractor.

DEAKINS BUSINESS PARK, EGERTON. Desk study, ground investigation supervision and geotechnical design in relation to the re-development of a former dyeworks site. Analytical work included rock socketed pile design and a slope stability assessment.

NATIONAL ACADEMIES. Geotechnical advice, contract preparation, ground investigation supervision and interpretative report writing for the proposed Stockport, Salford, Wintrincham Immingham, Nottingham, Northampton and Ealing Academies that are being constructed as part of a new government initiative for specialist schools.

B30 SELLAFIELD, SLOPE STABILITY REVIEW. Independent third party check of slope stability assessment of shallow slope present between two warehouse buildings within the Sellafield complex.

PIELE PARK, HAYDOCK. Supervision of consolidation grouting of former coal mining workings situated below a proposed new housing estate. Observational revision of the ground model and recommended grouting works. Preparation of a completion report for onward submission to the NHBC and St Helens MBC.

THORPE PARK, LEEDS. Preparation of a specification, using the ICE minor works contract, and bill of quantities, using CESSM, for the consolidation treatment of former coal workings situated below the infrastructure to be formed for the Thorpe Park Business Park.

GIN PIT VILLAGE, ASTLEY. Preparation of ground interpretative report for a site to be developed for housing. The site was over former coal workings and had up to 13m of made ground. Consideration of suitability, feasibility and cost of a number of foundation solutions.

### **1999 - 2003**

#### **PRINCIPAL GEOTECHNICAL ENGINEER, WS ATKINS CONSULTANTS LTD.**

Based in Warrington I was responsible for operational and technical management of Atkins' third largest geotechnical department.

HIGHWAYS PROJECTS I was the Geotechnical Liaison Engineer for a number of projects, including the entire Area 10 term commission, involving the inspection, maintenance and improvement of all motorways and a number of major highways in Cheshire and Greater Manchester. I was also the team leader responsible for the geotechnical design associated with the M62 Junction 8 to 9 improvements, the M62 EMS/MIDAS stage 4 Geotechnical Study and the MANDIS and MIDAS signing schemes. Concurrently Atkins also undertook tender stage design for the A66 Stainburn to Great Clifton Bypass and the A487 Llawanda to Llanllyfni Improvement, where I was responsible for the geotechnical design for structures, earthworks, slope stability and ground improvement schemes

HINDUSTAN LEVER – Independent assessment of contradictory reports prepared by others regarding the geotechnical aspects of earthquake damage to a salt factory in Gujarat, India. This study eventually led to a visit to site to undertake some ground investigation that was needed to verify the ground conditions. The final reports considered on the long-term stability of the main plant foundations and specifically the potential for liquefaction of the underlying soils during an earthquake event of similar magnitude.

A34 ALDERLEY EDGE BYPASS RAILWAY UNDERBRIDGE FEASIBILITY STUDY. Review of a number of options for forming a railway underbridge in complex ground and groundwater conditions. This involved consultation with a number of specialist contractors and the use of finite difference seepage software to look at flow below the base of a proposed slurry wall scheme. Also, investigation of the trackbed and embankments to allow determination of the possible effects of the underbridge on the railway infrastructure.

MANCHESTER METROLINK CONTRACT 3. Geotechnical tender design of retaining structures, earthworks and tunnels for a 55km extension to the Manchester Metro Link. Liaison with Client (a joint venture between



Nuttalls and Mowlem) and management of a national team of Engineers working on the Project. Fee estimation and preparation of the geotechnical aspects of the tender submission to the Client.

UNITED UTILITIES TERM COMMISSION. Atkins assisted our Client, a Galliford and Costain joint venture, to successfully tender for the design and construction of a large number of tertiary water treatment projects worth around £250 million over the next five years. Formation of a team of Engineers who worked in partnership with the construction joint venture, undertaking expedited geotechnical design of foundations, tunnels, shafts and earthworks.

ENGLISH PARTNERSHIPS TERM CONTRACT – Project Manager of a team of six engineers writing geotechnical reports for a large number of sites in the North West and North East of England. This work included provision of ground investigation reports for the Client to issue to potential developers, assessment of 'abnormal' foundation costs and advice on slope stability.

DALE VIEW, BILLINGTON – Analysis and preparation of report for an insurance company regarding a 100m long slope failure of a railway embankment.

NORTHWICH SALT MINE STABILISATION – Deputy Project Manager for a major ground investigation and stabilisation scheme. This £28 million project, partially funded by English Partnerships, comprised an investigation into the nature and extent of mine workings below Northwich town centre. My chief involvement was with the installation, monitoring and reporting of a complex instrumentation scheme, involving extensometers, piezometers and precision levelling pins.

HEYSHAM PORT - Analysis and preparation of causation report regarding significant dock wall movement and associated building damage. I was involved in a number of meetings and discussions with the Port Engineer and the Insurers Loss Adjusters regarding a number of geotechnical issues involved.

QUINN GLASS. Geotechnical investigation and preliminary foundation design of a proposed glass factory to be constructed on the site of the former Ince 'B' Power Station in Cheshire. Consultation with specialist high bay rack manufacturers and foundation contractors.

#### **1997-1998**

#### **SENIOR GEOTECHNICAL ENGINEER, OWEN WILLIAMS CONSULTING ENGINEERS.**

A453 DERBY SOUTHERN BY PASS CONTRACT B – As part of a Design and Build Contract I was involved in the design of bridge foundations and embankments to form the last link between the A453 and the M1 motorway. This work included regular liaison with the Client, Costain, regarding design changes necessary because the fill thought to be available almost free at the time of tender became very expensive.

Railway projects included a structural and geotechnical investigation of a railway overbridge close to Gretna Green that was widened and upgraded to meet the relevant Railtrack design codes. Also, a preliminary investigation of areas of suspected slope instability on the Settle to Carnforth Line. Preparation of cost estimates for further investigation and possible remediation measure.

#### **1992-1997**

#### **GEOTECHNICAL ENGINEER, SCOTT WILSON KIRKPATRICK LTD.**

Working as part of a team of engineers involved in geotechnical aspects of highway and airport and housing construction and infrastructure development. I was involved in the preparation of geotechnical interpretative reports, slope stability analysis, foundation design and construction control. I also developed the in house geotechnical computing capabilities and became an expert user of the geotechnical database package that was marketed by SWK at the time.

A65 BRADFORD TO CUMBRIA DBFO TENDER – Preliminary design of retaining walls and foundations as part of the tendering procedure.

A19 NORTON TO PARKWAY IMPROVEMENT DBFO SCHEME – Assistance with preparation of the Geotechnical Report submitted to gain project approval from the Highways Agency. Design of bridge foundations and soft ground treatment schemes, analysis of slope stability and calculation of settlement. Consideration of potential damage to sewers running below the widened road.



BRITISH GAS, LUTON – Resident Engineer for Environmental Assessment Works that were carried out at a former gas works where redevelopment was proposed. Assimilation of laboratory test data and preparation of the final environmental and geotechnical interpretative report.

LANDSLIP PREVENTIVE MEASURES PROJECT, HONG KONG – Secondment to SWK (Hong Kong) for a year to work on the LPM stage 2 studies team. Undertook stability analyses on existing retaining walls and cut or fill slopes. Preparation of interpretative reports submitted to the Geotechnical Engineering Office of the Hong Kong government. In addition, during an earlier two month secondment aerial photographic interpretation studies were undertaken on 30 'government features' for GEO.

MANCHESTER AIRPORT SECOND RUNWAY – Planning and supervision of five ground investigations undertaken for this scheme. Assistance with the interpretative report submitted with the planning application and preparation of a database of all boreholes, both contemporary and historical, used to summarise the geology and geotechnical properties of soils in the area concerned.

NRA UPPER SEVERN ASSET SURVEY – Resident Engineer supervising a ground investigation of river flood protection bunds in an area from North Wales to Worcester. On completion of the laboratory testing slope stability analyses were undertaken on each bund and results were reported to the NRA.

REEDSWOOD PARK REDEVELOPMENT SCHEME, WALSALL - Occasional site supervision and earthworks testing at an opencast coal where the excavated rock was also being used to provide clean cover on the contaminated site of an old power station. Interpretation of precise levelling, extensometer and piezometer information after completion of the earthworks.

PATENT SHAFT/MOORCROFT INFRASTRUCTURE WORKS WEDNESBURY – Supervision of ground investigation operations and installation of gas monitoring equipment on a site of an old chemical works. Gas monitoring and interpretation of the results over a period of a year.

#### **1992**

#### **CONTRACT ENGINEER WITH BARRIE FIELDER ENGINEERING GEOLOGISTS LTD.**

#### **1991 – 1992**

#### **MATERIALS ENGINEER, PSA INTERNATIONAL, FALKLAND ISLANDS**

Responsible for laboratory and compaction control testing of fill and wearing course material used on a rural roads construction project. Also responsible for selecting sites for borrow pits and a quarry.

#### **1990**

#### **ASSISTANT ENGINEERING GEOLOGIST, COSTAIN FOUNDATION ENGINEERING**

Laboratory testing for two large DTp site investigations. Installation of new computer programs and laboratory testing equipment. Supervision and factual report writing for a number of small ground investigations.

#### **1987 – 1989**

#### **SENIOR GEOTECHNICAL TECHNICIAN, HARRY STANGER LTD**

Responsible for the day-to-day running of a small NAMAS accredited soils laboratory. During this period of employment I gained a good grounding in geotechnical engineering and became familiar with laboratory and in situ testing of soils, rock and aggregate to British, European and American standards. This was my first introduction to QA systems and the importance of them within an engineering environment.

**LANGUAGES** - English mother tongue

#### **PUBLICATIONS**

Anketell-Jones JE and Burland JBB, The Mansion House Revisited, International Conference on the Response of Buildings to Excavation-Induced Ground Movement, July 2001