Tram Inquiry

Name: Duncan Murray Fraser

Position: Technical Manager

Academic qualifications: BSc (Hons.) Civil Engineering, MSC Transportation

Professional qualifications: MICE, MCIHT

Awards: James Forrest Medal ICE

Career profile: -

LAND ENGINEERING

Technical Manager: design & construction (part time) April 2013-present

Expertise

1. Natural stone pavements

- Led the Forensic Team, as Special Project Engineer for the City of Edinburgh Council to determine why the 1990's built setts on the Royal Mile failed, using traditional methods;
- Set up the partnership, as Client with Heriot Watt University (Derek Fordyce) and Land Engineering (Stuart Dillett) to design and build (D&B) the new Royal Mile, using the innovative performance based approach, which has been maintenance over its current 10 year life;
- Expert advice on the design and construction of natural stone roadways and footways
- Specialist design and specification capability with Public Realm projects, and projects requiring to operate beyond current national guidelines
- Advisor to Local Authorities on public realm design

2. Sustainable low energy construction

Established a WRAP project to recycle road in Edinburgh

Professional Experience:

- Mediator of disputes for Core and the Edinburgh Sheriff Courts
- Chair of the Charter Institution of Highways and Transportation CIHT) in Scotland
- Director of CIHT
- CIHT Chair of Road Maintenance/Road Safety and Transport Policy Committees
- Chaired the R&D committee for SCOTS specializing in road pavement design

Selected publications:

- WRAP on recycling secondary road aggregate
- CIHT Traffic Modeling in Edinburgh and Setted Road Construction

Presentations

- To Senior Chief Officer Transportation Society (SCOTS) Road Recycling: 2008
- To ICE London Setted Roads Design and Construction: 2005
- External Lecturer to Heriot Watt on Pavement Engineering: 2004-2008
- Lectures to Councils and Consultants on Setted Roads Design and Build

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European Union in Brussels on Transportation Planning Modeling

Experience

CITY DEVELOPMENT DEPARTMENT

Edinburgh Tram Project

2008-2011

Promotion of Traffic Regulation and advisor on design submissions to TIE Approval of design submission for roads adoption1

Depute Head of Special Projects

1998-2008

Developed a new dedicated team to facilitate projects that sustain the economic Viability and enhance the environmental quality within the World Heritage Site.

City Centre Manager

996-19

Initiated and developed City Centre Management for Edinburgh following a study tour in US in partnership with LEEL, EDI and the Chamber of Commerce and Enterprise.

TRANSPORTATION DEPARTMENT, LRC.

Assistant Director

1994-1996

Established an access strategy for Edinburgh City centre through consultation with Businesses and residents

Senior Project Engineer

991-19

Gained Government approval to dual the A1 on the basis of a economic and Environmental strategy

DUMFRIES AND GALLOWAY & FIFE REGIONAL COUNCILS

Highways and Transportation Engineer and Manager

1987-1991

PRIVATE SECTOR

1974 - 1987

Progressive career in the private sector rising from a graduate Engineer to a Project Manager of major roads and bridges projects.

Education and Development: -

BSc Honours Civil Engineering. Edinburgh University	1974
Member of the Institution of Civil Engineers	1979
Associate of the Institute of Arbitrators	1985
Management. Course Institution of Engineers	1990
MSc Transportation. Napier University	1993
ICE National Award "Managing Change in Edinburgh City Centre"	1998
Chairman of IHT Central Scotland	2005
Qualified as Mediator	2005
Director of IHT	2006-2009