

ANGUS COUNCIL

ECONOMIC DEVELOPMENT COMMITTEE
EDUCATION COMMITTEE

6 JUNE 2002
11 JUNE 2002

**SUBJECT: ANGUS ENGINEERING EDUCATION PARTNERSHIP: SCIENCE
TECHNOLOGY ENGINEERING MANUFACTURING RESULTS FOR ANGUS SCHOOLS**

JOINT REPORT BY THE CHIEF EXECUTIVE & DIRECTOR OF EDUCATION

Abstract: This report outlines the success in achieving a high level of participation by Angus schools in science, technology, manufacturing and enterprise programmes due to an increased level of co-operation between the Education Industry Links and the Enterprise Education Support Officers of the Education Department and the Marketing Assistant of the Economic Development Unit of the Chief Executive's Department.

1 RECOMMENDATION

- 1.1 It is recommended that the Committee note the contents of this report.

2 INTRODUCTION

- 2.1 This report outlines the success of the joint efforts of the Education Department and the Economic Development Unit of the Chief Executive's Department in encouraging and enabling Angus schools to participate in science, technology, manufacturing and enterprise programmes.

3 BACKGROUND

- 3.1 The Angus Engineering Education Partnership was established to find ways of improving the image of engineering by giving school pupils opportunities to experience activities related to engineering and its associated disciplines. This is being done by competitions, running over several months, and by "one-off" major events. The long-term aim of Angus Engineering Education Partnership is to ensure that there is an adequate number of young people interested in engineering to help continue the tradition of engineering and manufacturing that are so important to the Angus economy.

4 STEM FIGURES

- 4.1 The recent Science Technology Engineering and Manufacturing (STEM) figures issued by Set point, Aberdeen show Angus well ahead of all other areas in involving school pupils in activities related to science, technology, engineering and manufacturing with 43.09% of Angus pupils involved in activities, compared with 2.87% in Dundee and 0.45% in Perth & Kinross. This high and increased level of activity is of particular interest given the increased co-operation and joint working between the Education Department and the Economic Development Unit. Please see the Appendix to this report for more detailed information.

5 FINANCIAL IMPLICATIONS

5.1 There are no financial implications arising from this report.

6 HUMAN RIGHTS IMPLICATIONS

6.1 There are no Human Rights implications arising from this report.

7 CONSULTATION

7.1 The Directors of Finance and Law & Administration have been consulted in the preparation of this report.

8 CONCLUSION

8.1 The success of Angus schools in achieving the highest proportion of pupils participating in STEM events in the North East STEM area is believed to be at least partly due to the increased level of co-operation between the Education Development Service and the Economic Development Unit. The introduction and promotion of initiatives such as the Be An Inventor Challenge, the Education Engineering Scheme Scotland, the Scools Enterprise Programme, Make It In Scotland and the Braveheart Challenge have raised awareness of and levels of participation in STEM activities.

NOTE

No background papers, as defined by Section 50D of the Local Government (Scotland) Act 1973, (other than any containing confidential or exempt information) were relied on to any material extent in preparing the above Report.

DV/MR

A B Watson
Chief Executive

Jim Anderson
Director of Education

SECONDARY WORKSHOPS & (Key Stage) PARTICIPATION NORTH SCOTLAND

STEM TITLE	WORKSHOP	KS	NOS.	JAN-MAR'02 S,T,E,M TOTALS	%Total Activity
ENGINEERING	<i>Robot Challenge</i>	(KS4)	8		
	<i>Robot Challenge</i>	(KS3)	12	20	0.60%
SCIENCE	<i>ASDA Big Science Activity Trail</i>	(KS4)	57		
	<i>Careers Presentation</i>	(KS4)	10		
	<i>Environment Presentation - Phil Williams</i>	(KS4)	100		
	<i>From Mir to Here (Dundee)</i>	(KS4)	299		
	<i>General Visit (Dundee Heritage Trust)</i>	(KS3)	14		
	<i>General Visit (Dundee Heritage Trust)</i>	(KS4)	7		
	<i>General Visit (Macduff Marine Aquarium)</i>	(KS2)	8		
	<i>General Visit (MBWC)</i>	(KS3)	3		
	<i>General Visit (Satrosphere)</i>	(KS4)	210		
	<i>General Visit (Satrosphere)</i>	(KS3)	209		
	<i>Highlands & Islands Renewable Energy Challenge</i>	(KS3)	8		
	<i>Life on the Seashore</i>	(KS3)	4		
	<i>Making Waves Roadshow</i>	(KS3)	898		
	<i>Marine Marvels</i>	(KS3)	16		
	<i>Marine Marvels</i>	(KS4)	20		
	<i>Oil Industry Presentation - BP</i>	(KS4)	49		
	<i>Shell Science Workshops</i>	(KS3)	60		
<i>Water</i>	(KS3)	6			
TECHNOLOGY	<i>Festival of Chemistry</i>	(KS3)	52	2,030	60.71%
	<i>Bridge Building</i>	(KS4)	24		
	<i>Enterprise Insight (Angus)</i>	(KS4)	30		
	<i>Make It In Scotland</i>	(KS3)	1,162		
	<i>Problem Solving</i>	(KS3)	78	1,294	38.70%

ACTIVE PUPILS:	3,344
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SUMMARY OF RECORDED PARTICIPATION:

Aberdeen_City	26.97%
Aberdeenshire	19.71%
Angus	43.09%
Dundee	2.87%
Highland	5.08%
Moray	1.82%
Perth_Kinross	0.45%