

SCOTTISH SUSTAINABLE CONSTRUCTION FORUM MEETING

Held on

FRIDAY 6 JUNE 2008

in

BAXTER PARK PAVILION, BAXTER PARK, DUNDEE

Present

As per attached List

Apologies

As per attached List

<u>ITEM</u>	<u>MINUTE</u>	<u>ACTION</u>
1.0	<p>INTRODUCTION</p> <p>John Letford, Lord Provost of Dundee City, welcomed members of the Forum to the meeting in Baxter Park Pavilion. He stated that the Pavilion is the centre piece in the overall development of Baxter Park and is also part of the wider Stobswell Regeneration Project. The Park is again enjoying a renewed life and use by the people of Dundee and is a testimony to the planning of our forefathers in ensuring that the City is well appointed with its green lungs, strategically located within the City.</p> <p>The Lord Provost stated that Dundee City Council is one of the many Scottish Authorities now signed up to a Carbon Management Programme as well as the Climate Control Bill and that it looks to, and relies on, its in-house technical team who continue to serve the Council well and they ensure that it is able to work in association with its Partners, Colleagues and Stakeholders from the many organisations in both the private and public sector. It is important that these topics are kept up-front and centre.</p> <p>There is much the Council has embarked upon to address CO² and Carbon emissions It continues with its programme of Solar Heating, now in its fourth phase within the housing stock, and St John's Secondary School extension boasts the joint largest Solar Heating installation in Scotland.</p> <p>Dundee City Council's links with Solar Cities Scotland is soon to see school children take part in a Carbon Footprinting exercise and we thoroughly believe that an early education will give them the understanding and, better still, the say in what will be their tomorrows.</p> <p>The Lord Provost hoped those attending would enjoy the day, enjoy the venue and enjoy the hospitality.</p> <p>Rob Pedersen thanked the Lord Provost for his welcome and thanked everyone for their attendance. He intimated that the Pavilion is a project that staff from his department worked on.</p>	

2.0 PRESENTATIONS

2.1 **Malcolm McRobert and Colin Brown - Thirdwave Presentation - Gaining Strategic Control of Sustainable Development and Carbon Management - "What actions you need to take"**

Thirdwave are a Sustainable Development and Corporate Responsibility consultant specialising in the Built Environment.

Malcolm is experienced in delivering Governance, Corporate Responsibility and Sustainable Development Solutions to a wide range of Private and Public Sector organisations: including major House Builders and Developers, Steel Fabricators, Universities and Housing Associations.

Colin is experienced in the creation and production of a wide range of Sustainable Development guidance publications/toolsets and also leads in the design of carbon emission management solutions.

Malcolm stated the objective today is to identify steps in the process of gaining control of sustainable development and carbon management. Control is more important than performance and the priority for any organisation should be gaining control. It is important to identify why your organisation should be interested in greenhouse gas emission and control of sustainable development as a whole. Thirdwave have recently been working with commercial organisations, including working with Local Authorities, Housing Associations and Education Departments.

Sustainable Development - Organisations are recognising that it is about social sustainability. Sustainability is also about profitability and there is organisational benefit in behaving well. Your organisation needs to recognise what you mean when you are talking about sustainability. Different terminology is used within different organisations. You require to ensure that everyone in your organisation recognises that fact.

Thirdwave have been working with Barclays Bank who are very keen on succeeding in this area and that this is not just semantics. Barclays have 2 strands to sustainability i.e., being a sustainable Bank and a responsible global citizen.

Scottish Power have committed a lot of time and effort into a marketing exercise where they were providing audit processes to private stakeholders to allow them to reduce their energy consumption.

Corporate social responsibility is recognised as an area which organisations require to understand. Advantages are only gained when an organisation understands this. Organisations who empower their staff in regards to same are doing better than other organisations.

Managing impacts within the environment community, market place and workplace is required. Organisations should recognise internal drivers (refer to Presentation on website).

Carbon Management - Two organisations who have been working with Thirdwave have been going through this process and it is a process which is familiar to everyone. Managing carbon is exactly the same as any other process. It is the same approach within any other area of your organisation with one of the key areas being staff engagement.

One organisation has engaged with the Carbon Trust who provide carbon footprinting mechanisms which is a powerful tool. An audit process was completed and of the 6 areas of measurement (1 to 5 being the score) they attained zero in 5 of these and 1 in the last. This was not a bad review because they could only go up. You have to establish with your organisation why you have to perform in this area and it is therefore important that you engage with your staff.

Rob thanked Malcolm for his presentation and asked for questions.

Q1 **Question**

You seem to focus and suggest that behaviour and attitude are key to bringing about change.

A1 **Answer**

Yes - I think it is. The change that we need is not just in commercial organisations behaving differently. Social change, social behaviour, individual behaviour will have the impetus to make these changes e.g., half fill kettles, switch off lights when not required etc. Changing behaviour is based on feedback.

Our client is not going to give a positive feedback. We require behavioural change and this is extremely challenging. We need organisations to recognise that their performance is improved and enhanced.

Q2 **Question**

Is it not a bit optimistic to think shareholders in commercial companies will buy into this.

A2 **Answer**

You are correct. We wont get shareholders voting today for this. How do we get organisations to change - it's about organisational advantage and how to address these issues. Business models and income generation will have to change. Sections of this county do not engage in this. One of the steps is to achieve organisational change. A long-term advantage can be brought in. Local Authorities are beginning to address this. If you, as a constituent, see your Local Authority applying this, this will hopefully show the benefit of same.

R Pedersen suggested we should also ask why, not how, to change. . Rather than tackle the whole issue, deal with it in little chunks.

2.2 **Bryan Harris - Environmental Strategy Officer, Dundee City Council
Presentation: Scotland's Climate Change Declaration**

Bryan has been the Environmental Strategy Officer for Dundee City Council for the last 4 years.

He previously held Sustainability related posts in Local Authorities in Scotland and the South of England as well as with the Scottish Government.

Bryan is responsible for leading and co-ordinating the Council's environmental and sustainability efforts, both within the Council and externally, within several partnerships.

He is kept busy at the moment with :

- Sustainable Development Policy
- Climate Change
- Community Planning
- Strategic Environmental Assessment
- Ecological Footprinting
- Biodiversity

Bryan intimated this is more the practicalities of how Local Authorities are trying to act in the climate change attitude. Dundee City Council has an Action Plan in place.

Scotland's Climate Change Declaration came about from Scotland's Climate Change Programme which is called 'Changing our Ways'.

In turn, the Climate Change Programme is one of the many delivery programmes for Scotland's sustainable strategy. It is recognised that Local Government is Scotland's largest public sector employer.

The Declaration is a declaration of intent on climate change to which Local Government commit to. It includes 7 commitments and is fully endorsed by Council Leaders and COSLA. All 32 Scottish Local Authorities have signed this. It is very similar to the Declaration which exists in England and Wales. Local Government is to make a greater commitment to climate change etc., and are also to promote local commitment as well.

A unique group of organisations came together to compile same. Dundee City Council and other Local Authorities have signed up to the first 3 commitments. Commitment 2 is quite significant for Dundee City Council.

Commitments 1 to 3

1. *"Work with the Scottish Government and the UK Government to contribute to the delivery of Scotland's and the UK's Climate Change programmes, including to reduce greenhouse gas emissions and to adapt to future climate change scenarios."*
2. ***"Produce and publicly declare a plan, with targets and timescales, to achieve a significant reduction in greenhouse gas emissions from our own operations. This will include our energy use and sourcing, travel and transportation, waste production and disposal, estate management, procurement of goods and services, and improved staff awareness."***
3. *"Ensure that greenhouse gas reduction and climate change adaptation measures are clearly incorporated into our new and existing strategies, plans and programmes, in line with sustainable development principles."*

Commitments 4 to 7

4. *"Assess the risks and opportunities for our services and our communities of predicted climate change scenarios and impacts, and take action to adapt accordingly and in line with sustainable development principles."*
5. *"Encourage and work with others in our local community to take action to adapt to the impact of climate change, to reduce their own greenhouse gas emissions and to make public their commitment to action."*
6. *"Publish an annual statement on the monitoring and progress of our climate response, detailing targets set, actions taken, outcomes achieved and further actions required."*
7. *"Collaborate with other organisations to promote good practice on climate change mitigation and adaptation."*

Bryan confirmed a Report requires to be produced on an annual basis but there is no indication in the guidance notes as to who this should be submitted to. It is felt Dundee City Council should report this to the public.

Dundee City Council signed the Declaration on 16 January 2007. This was approved by the Management Team and was thereafter submitted to Committee.

The first 4 steps for action which were required were :

- look at the Council's role in Climate Change and state what it means to the Council as a Local Authority
- identify likely impacts on services

- attain a baseline measure for carbon emissions (DCC do not have this at the moment)
- develop an Action Plan to reduce carbon footprint.

There are 4 broad rules on climate change :

1. As a user of resources and owner of facilities on the community's behalf;
2. As a provider of services which will be affected by climate change;
3. As a body whose policies can effect change in others;
4. As a community leader which can encourage others to take action on climate change.

Dundee City Council provide a very wide range of services e.g., waste collection, environmental health and trading standards, scientific services, roads and environmental maintenance.

We require to consider the effects climate change could have on delivery of these services and how we could deliver these services with as low a carbon footprint as possible.

Some of the impact on services include :

- Flood risk at greater frequencies and level of intensity
- sewerage and drainage infrastructure not coping with higher rainfall
- low river levels/high rive levels - turbulent water flows
- Biodiversity impacts - loss of species
- Drier summers increase risk of road subsidence and higher temperatures increase risk of surface damage.

Dundee's carbon footprint - The 2 largest sections of these are Housing and Transport.

Dundee's carbon footprint for 2001 was 11.72 compared to Scotland's average of 11.81.

There are benefits to a low carbon approach e.g., financial savings, improved air quality etc. There are also savings for private housing and businesses.

These are all issues which DCC looked at after signing the declaration.

DCC initially used a Climate Change Working Group to look at the framework and once complete this was submitted to Committee for approval and has been agreed.

Action Plan - 11 areas have been identified for Mitigation and Adaptation. Each area includes an overall objective with a Mission Statement and Action Plan with actions having been agreed for 2008-2011.

Awareness Raising e.g.,-

- both within the Council and within Community
- people can say climate change and sustainability are important - as long as it doesn't change their lifestyle

Local Authority Carbon Management Programme

A baseline is required - which gives an accurate figure for carbon emissions within Local Authorities. DCC target is similar to the Scottish target and hopefully this will allow DCC to identify this. It is hoped to receive assistance from the Carbon Trust to allow an accurate reading of the carbon footprint.

Carbon Management Plan - areas being looked at

- Energy use & Sources
- Travel & Transportation
- Waste production & disposal
- Estate Management
- Procurement

continuing cost of carbon

It is going to take up more of our resources and more of our time and rightly so, e.g.,

- Scottish Climate Change Bill
- Carbon Reduction Commitment
- Energy Performance of Buildings directive
- SPP6 on renewable energy
- PAN84 - reducing carbon emissions in new developments

Carbon management is essential for all Local Authorities. If we do not carry this out it will cost us money.

Q1 **Question**

What buildings would come under this in regards to BREEAM and what would be the significance of same ?

A1 **Answer**

DCC are considering a BREEAM style rating for the proposed Allan Street Pool. At present there are no hard and fast rules for other buildings. It may be that it will be appropriate for some buildings but not others. RP noted his personal perspective that there is nothing wrong with trying and failing but learning in the process. There is a very strong commitment to do this but only where you are to get a return on same.

Q2 **Question**

Are there any plans to encourage or make this mandatory for Housing Associations ?

A2 **Answer**

Yes, through the Community Plan. A decision was taken when the Declaration was signed and once an Action Plan is in order. You should try to encourage other community partners to sign the Declaration.

Q3 **Question**

In regards to the League Table scenario - someone has to be at the bottom of any League Table, have you got any take on how this is to operate ?

A3 **Answer**

We are trying to get organisations who are not doing anything at the moment, up the Table. It is quite interesting at the moment. When you set too ambitious a target you will not commit yourself as much as you should do.

Q4 **Question**

In order to return this successfully - how is Dundee City Council approaching this ?

A4 **Answer**

In terms of Climate Change Declaration, Officers were identified from each department to produce the framework and Action Plan. Assistance is required on carbon reduction figures but it is hoped the Carbon Trust will help train us on how to achieve this. Training is available for everyone but it is mostly training as you go. Mistakes will be made but training will be available on an ongoing basis.

By raising awareness, and getting Senior Management committed to this, you are halfway there.

2.3 Elaine Morrison - Energy Savings Scotland Advice Centre (North East) Presentation : Energy Saving Scotland - Working together to cut Carbon Emissions

Elaine has 15 years experience working in the fields of sustainable energy, community development in Housing, Local Economic Development and Education.

In 2003 she initiated the Dundee Sun City project and subsequently led in establishing its parent organisation, Solar Cities Scotland, of which she is Chair.

Having spent the past six years raising awareness and increasing uptake of renewable energy in NE Scotland and Tayside, Elaine took up the new post of Manager of the Energy Saving Scotland Advice Centre for North East Scotland on 1st April. She is based with SCARF in their offices in Aberdeen and the, soon to be completed, Sun City House in Dundee.

Elaine stated that what she wants to do today is give an overview of the Energy Savings Advice Network, what it is and what they are going to do.

She stated that there have been pilot projects running for 3 years prior to the scheme and these have been modified for Scotland.

The overall objective is to achieve substantial carbon savings from households and small businesses. The vision which the Energy Savings Trust has for the Energy Savings Advice Network is making links and enabling transition of policy into action.

The goals are to persuade citizens and smaller businesses to view low carbon activities and actions favourably and to feel compelled to act; make it easier and more convenient for householders and smaller businesses to take up sustainable energy products, services, and solutions and ensure that society visibly supports low carbon lifestyles through appropriate levels of commitment, leadership and exemplary actions.

There will be 5 ESSan Advice Centres. Previously there were 12 Centres but a recent merger has taken place of some of these.

The Centres cover the Highland and Islands, Strathclyde and Central, South West, North East and the South East and SCARF will manage these offices.

The Network are looking at alleviating fuel poverty etc. and will be very much outcome led. It will try to encourage people to put this into action and see outcomes from this.

They are also looking at sustainable transport and, next year, will look at waste and water management. It is much more of a strategic approach, building on experience and sharing best practices throughout Scotland.

EST are well known for advertising in newspapers, television and, increasingly, on the Web. Unless there is an integrated approach companies will fail. This requires to be backed up by support.

There are 2 sections i.e., Marketing Section and Operations Section. They outreach staff who attend events and will attend peoples' homes. They are currently recruiting for a specialist Sustainable Advisor and looking to employ a Domestic Renewables Advisor.

Operational Activities

- Promotion of Customer Led Advice (verbal advice, referrals)
- Proactive Targeting of companies
- In-depth Support to customers
- Working with Local Government (building upon the work of SHRA)
- Working with big businesses

- Indirectly working with Local Authorities/RSL's

Carbon savings within houses can be achieved through insulation, cavity wall insulation, top up insulation, internal/external wall insulation etc. Next year it is hoped to commence a scheme to enable insulation in solid wall properties.

Consumer Segmentation

We are to target consumers with highest carbon emissions and the greatest propensity to act: i.e., attitude, tenure, disposable income. The service is available to absolutely everyone and we hope to boost response rates through properly marketing, targeting and follow up works, but there are still challenges.

The Opportunity

The Advice Centre is designed to be a One-Stop-Shop i.e., one branch, one telephone number etc; giving energy advice to small businesses and sustainable energy support services for Local Authorities.

Increased fuel prices make it more difficult for businesses to stay in business but we want to help everyone reduce carbon emissions and ensure that the public supports low carbon lifestyles. Local Authorities need to take the lead and this will then encourage the citizens.

Rob thanked Elaine for her presentation and asked for questions.

Q1 Can we start thinking about solutions for earlier built houses ? You are targeting people with higher disposable incomes - how can we spread this cost for the owner and landlords ?

A1 We recognise that there is a need to combat heat to improve properties. Planning now for subsequent years could assist this and a Stakeholder Forum is to be established for the North East in regards to same e.g., private sector construction industry, LA's, Housing Associations etc., to identify what the priorities should be.

It was suggested the 'Green Mortgages' scheme in Germany should be looked at e.g., money is given to upgrade existing housing stock.

Q2 What sort of information can you give when informing organisations ?

A2 We will work with Housing Associations to develop schemes. The schemes which SERP currently fund are to change e.g., Grants for ground force heat pumps are to be made available. This advise to be made available to Housing Associations. We will also assist in delivering ideas.

Q3 Why is it so difficult in the UK to adopt this ? Surely there is a need for political pressure ?

A3 Yes. There is a real need for other organisations to raise the issues of solar PV or small wind turbines. It is hoped to raise a Forum to discuss these issues and take this forward to the Government collectively.

Q4 Does the Government have any proposals to look at innovative ways of insulating housing ?

A4 No. We can work with small housing developers to try something new and direct people to funding. We will also support and promote the efforts of small developers as we want to ensure that houses which are being built are built to standard. We are not directly involved in product innovation.

2.4 Alan Tough - Scottish Construction Centre Presentation : An Introduction to the Scottish Construction Centre

Alan graduated from University of Edinburgh in Civil Engineering in 1969.

He has 3 years Structural Design Experience with Ove Arup and Partners and over 20 years Construction experience with major contractors, including Sir Robert McAlpine, Hall & Tawse and HBG.

He has spent over 10 years with University of Dundee Estates and Buildings on Operations and Maintenance and joined SCC in September 2007.

Alan has been involved with the East of Scotland Region of Institution of Civil Engineers for over 20 years, including holding the position of Chairman.

Alan wished to speak on how the Scottish Construction Centre (SCC) can work with organisations e.g., Local Authorities, Contractors, etc., and to look at how the SCC can link up with the Scottish Sustainable Construction Forum. A management strategy is to be put in place to tackle sustainable issues.

It was noted that 80% of housing is current stock. New houses should be built so that we do not require to re-visit them and there is a real challenge for Local Authorities and developers to achieve this.

There is a lot of good work taking place outside Scotland and we need to learn from this. The programme for the Centre started in the 1990's from the Egan Report. The Modernising Construction Strategic Group was charged to look at construction and how to achieve construction innovation and excellence in Scotland. From this, Scottish Enterprise was charged with taking this forward. SCC was the successful organisation.

There is now a 5-year Scottish Construction Industry Plan by the Government. The Sullivan Report was really produced by the Scottish Building Standards Agency and this will require to approve/not approve what you do.

The Centre's job is to inform you of this. The organisation is a consortium which has 5 partners, CIRIA, University of Dundee, BRE, Glasgow Caledonian University and Building Software (which is the only commercial company). Alan stated that BRE recently ran a workshop in Edinburgh giving an insight into the Group's operations.

SCC have offices in Glasgow, Edinburgh and Dundee University. A new office is to open in Aberdeen. Each office has a Regional Co-ordinator. The Highlands and Islands and Scottish Enterprise are in negotiations at present as they are not currently part of the SCC.

The aims and objectives of the SCC are :-

- Improving productivity and performance
- Raising awareness and best practice
- Stimulating industry to innovate
- Promoting and encouraging training
- Reducing industry fragmentation

Information and Directories :

- Now have Website and information packs www.scocon.org
- Enquiry Line 0845 863 0026
- Scottish Construction Guide of all organisation who trade in Scotland
- Directories (to build up a Directory of Contractors, Local Authorities, Builders, etc. in Scotland.
- Gives updates of up and coming events

SCC Series of Programmes

- Sustainability - the sustainability initiative is being run under bre
- Various sustainability advice, workshops, demonstrations etc.
- Demonstration Projects - Sun City House in Dundee have submitted their information and this is now on the programme. (it is hoped you can visit University of Dundee to see how they were able to achieve this)

- To identify where training is needed. Training is available on specialist areas where there is insufficient training e.g., Young Managers (transition from trade to young Manager) and from low management to middle management.

The Demonstration Project Programme benefits from sharing of information and how to innovate. The process is quite a long onerous process but the benefits are certainly beneficial to the wider construction community. It is hoped there will be business development from this as well as sharing good practice.

SCC will be keen to look at any project and help you to develop this.

A Demonstration Projects Programme Workshop in regards to the Dundee Sun City House will be held on Wednesday 25 June in the New Teaching Block at the University of Dundee. Further information in regards to same will soon be available on the Website and a Flyer will be distributed shortly.

Alan stated that Construction Improvement Clubs are to be set up in each area and Dundee City has taken the lead on this.

There is a realisation we need to speak with each other and go forward with this together.

Support is available as can be seen from the Speakers' Presentations.

Rob thanked Alan for his presentation and asked for questions.

No questions were asked.

3.0 MINUTES OF MEETING HELD ON 8 FEBRUARY 2008

The minute of the previous meeting held on 8 February 2008 was accepted as a true record.

4.0 MATTERS ARISING

4.1 Membership Update

It was noted membership has risen by 5 since February 2008.

4.2 Funding

Rob reported that, from feedback received, there is a strong desire to keep the Forum going. It may be necessary for members to contribute towards this. Alison McInnes, SMP, has taken on board to bring this to the attention of John Swinney to determine if any funding can be forthcoming. Rob intimated that we are also trying to look at other funding strands whereby it is hoped the Forum can remain free to members.

4.3 Website Update

It was noted the Presentations given at previous meetings have been too large to include on the Website because of the large amount of photographic materials contained on same. However, where this has occurred Presentations have been placed on disc and sent to those members who have requested a copy of same.

The content of the Presentations given at this meeting **will** allow them to be placed on the Website.

5.0 ANY OTHER BUSINESS

None.

6.0 FUTURE PRESENTATIONS/SPEAKERS

Two speakers are available for the next meeting in September but we are looking for one or two further speakers. If anyone is willing to, or knows someone who would wish to speak at the next Forum, please contact Rob/Yvonne in regards to same.

7.0 DATE OF NEXT MEETING

The next meeting will be held on **FRIDAY 5 SEPTEMBER 2008** in **Great Glen House, Inverness.**

The first meeting for 2009 will be held on Friday 6 February 2009 in Strathclyde University, Glasgow. Anyone wishing to offer a venue for the following meeting (June 2009) should contact Rob Pedersen, e-mail **rob.pedersen@dundeecity.gov.uk**

Please Note : Copies of the presentations will be available shortly on the SSCF Website (where possible). - www.sscforum.org.uk

Where it is not possible to place a Presentation on the website, due to the size, this can be made available on disc and anyone wishing a copy should contact Yvonne in the first instance at yvonne.mchugh@dundeecity.gov.uk

It was requested that, if anyone wishes to use the presentations, they credit the source.

RP thanked the Speakers once again for giving up their time to present their interesting and enlightening Presentations

He also wished to thank the following:

Yvonne for taking the Minutes.

Lord Provost, John Letford, for his opening remarks.

Rob thanked everyone for attending.

Distribution

All Forum Members
Director of Support Services
Chief Executive
A Anderson, ECPD
Fergus Wilson
Mike Galloway
Anne Wilson

cc Councillor George Regan
Councillor Fraser McPherson

**N.B. PLEASE FORWARD ANY AGENDA
ITEMS FOR NEXT MEETING**

RP/YM
11 June 2008

SCOTTISH SUSTAINABLE CONSTRUCTION FORUM

MEETING ON 6 JUNE 2008 in

BAXTER PARK PAVILION, BAXTER PARK, DUNDEE

LIST OF ATTENDEES

	NAME (PLEASE PRINT)	<u>LOCAL AUTHORITY/ ORGANISATION</u>	DESIGNATION
1	Rob Pedersen (Chairperson)	Dundee City Council	City Architectural Services Officer
2	Yvonne McHugh (Secretary to SSCF)	Dundee City Council	Secretary
3	Colin Brown	Thirdwave	Snr Consultant
4	Malcolm McRobert	Thirdwave	Director
5	Hazel Carnegie	Aberdeen Environmental Forum	Steering Comm. Member
6	Sharon Thomson	Solar Cities Scotland	Co-ordinator
7	Mandy Wilkinson	Excel	Sales Engineer
8	Mike Scott	Aberdeen Heat & Power/SCARF	Board Member
9	Graham Dand	Torith	Estimating Manager
10	Michael Patrick	Aberdeenshire Council	Architect
11	Elaine Morrison	SCARF/Solar Cities Scotland	ESSac Manager/Chair
12	Craig Muir	Dundee City Council	IT Officer
13	Ken Laing	Dundee City Council	Director
14	Lindsay Cowan	Mansell	Director
15	Iain Connelly	Fife Council	Manager
16	Iain Connelly	Fife Council	Manager
17	Ian Cameron	Perth & Kinross Council	Arch and Design Manager
18	Sandy Dawson	Clackmannanshire	Team Leader (Design)
19	William Marshall	Falkirk Council	Architect
20	Ian Carstairs	Scottish Enterprise	Project Manager-Sustainability
21	Steven Johnston	Perth Housing Association	Snr Development Officer
22	Jean Morrison	SCARF	CEO
23	George Hay	East Lothian Council	Architect
24	Doug McLaren	CRAIC/TFCR	Co-ordinator
25	Willie Mahoney	P&K Council	Road Superintendent
26	Louise Craig	Envirowise	Construction Sector Manager
27	Craig Doogan	Renfrewshire Council	Energy Manager
28	A Sansom	West Lothian Council	Surveying Manager
29	Angela Heaney	Stirling Council	Sustainability Policy
30	Babenko Liya	Rostov State University	Post Graduate Student
31	Amanda Waugh	Glasgow City Council SD Officer	
32	Alistair Trail	NISP Scotland	Practitioner
33	Alan Mackie	DCC, Architectural Services Division	Quantity Surveyor
34	Mac Roberts	DCC, Architectural Services Division	Quantity Surveyor
35	Bryan Harris	DCC	Env. Strategy Officer

