

SCOTTISH SUSTAINABLE CONSTRUCTION FORUM MEETING

Held on

FRIDAY 24 FEBRUARY 2006

at

PARISH HALLS, GEORGE STREET, GLASGOW

Present

As per attached List

Apologies

As per attached List

<u>ITEM</u>	<u>MINUTE</u>	<u>ACTION</u>
1.0	INTRODUCTION <p>Sandy Gillon, Group Manager, Environmental Services Division, Glasgow City Council welcomed everyone to the meeting and was pleased to see such a large turnout. He was particularly pleased because over the past 18 months they have been working hard to integrate sustainability into projects and networks such as the SSCF provide the opportunity for Officers to share experiences. A team of dedicated Officers has been set up to take sustainability forward and as a result of the team's work they were the first Local Authority within the UK to agree a 10% recycle content by value on all major contracts. They have received a great deal of assistance from WRAP in regards to developing this work and wished to thank them. They have also been trialling sustainable construction through corporate projects, particularly in regards to School programmes and Dumbreck is one of these Schools with a further 25 Schools to deliver over the next couple of years. In addition to this they are looking to include sustainable construction into Glasgow City Council Policies and meeting the objectives of sustainable construction is likely to be an ongoing evolving process..</p> <p>John Porter thanked Sandy Gillon for his welcome and Amanda Waugh, for making venue and catering arrangements and Glasgow City Council for hosting the event John also extended a warm welcome to all new and existing members of the Group and was encouraged by the turnout.</p>	
2.0	PRESENTATIONS	
2.1	<u>Alan Dunlop - Gordon Murray & Alan Dunlop Architects Presentation - Dumbreck Senior School, Sustainable Design</u> <p>Alan is a Partner in the Gordon Murray and Alan Dunlop Architects practice. He has travelled extensively in the United States and taught in Schools of Architecture in Manchester, Liverpool and Glasgow and has lectured throughout the UK and Ireland.</p> <p>He is lead consultant for Glasgow City Council's Hazelwood School which is a new school for children with dual sensory impairment and which is currently being built in Dumbreck on the South Side of Glasgow.</p> <p>Glasgow City Council recognised that a school of this type cannot just be procured through PPP or a Design and Build process and the School has been procured under a traditional type of contract. It is the first School project undertaken by the Gordon Murray and Alan Dunlop Practice.</p>	

The building is wound around the natural landfall and classes face North to benefit from the natural daylight. Timber has been used for external structure and zinc was used for the roof which tips to the North to allow maximum daylight. The School is clad in slate. The cost of the building is £6M. A considerable amount of consultation took place. An animated presentation of the building was given to clients, parents and carers.

JP thanked Alan for his presentation and asked for any questions.

Question

Alan was congratulated on the set of drawings produced and was asked if they had any problems with the Planners in regards to the Zink Roof.

Answer

No. Alan stated they liaise with Planners on a daily basis in regards to matters such as this. Glasgow City Council Planners have been extremely helpful. The most problems they encountered were with the local residents who did not want the School situated close to their homes. Approval had to be sought from the Scottish Executive.

Question

Would you consider this type of building suitable for a PPP type projects.

Answer

No - not in my opinion.

Question

If this had been a traditional contract for children without sensory impairment do you think you would have had to have the same type of consultation.

Answer

Alan feels the design and development of Schools (of any type) is of such a specialist nature it requires significant consultation. He also feels this cannot be done through a PPP project. Glasgow City Council have recognised that there are Schools which cannot be built using PPP. A standard fee was charged.

**2.2 Mandy Wilkinson -Excel Systems
Presentation - Excel Systems**

Mandy is a Sales Engineer with the Building Division of Excel Industries Ltd. and has over 15 years of Engineering experience. Her technical knowledge extends from aircraft propulsion systems to electronics in the semiconductor industry and from mechanical and electrical design to insulated timber frame structures. Mandy previously worked in Scotland for both Hilti GB and BPB Artex Rawplug.

Mandy spoke re Excel's timber kit system which is called 'Tradis'. Tradis is a simple way of designing and building a healthy, sustainable, energy efficiency building to higher performance standards. Tradis is a range of wall panels, roof plates and floor cassettes.

Components are made from recycled or sustainable materials and no additional glues are used in the process.

FSC accredited woods are used.

Excel work with local Councils and have a kerb-site pick up service for waste paper. They take the paper back to their recycling unit for recycling.

Tradis can give 15% improvement in air tightness. The insulation fills up all gaps e.g., light switches, services etc.

Mandy gave an example in regards to the erection of a Terrace of 10 houses, wind and water tight and insulated, as follows:-

Brick and Block	8-9 weeks (providing its dry)
Timber Frame	3-4 weeks
Tradis	4 days

She feels that Contractors, Suppliers and Manufacturers require to liaise more at pre-contract stage.

The advantages of the Tradis Panels are that they come straight off the lorry, right into position of the building; a complete floor can be fixed in 15 minutes and you have an immediate safe working platform when the floor sections are ?

Another of the many advantages is the alleviation of waste from sites and no end cuts lying around.

Tradis walls can be produced up to a span of 12M.

Tradis provide a unique EVT breathing technology which allows moisture to dissipate out through the building.

JP thanked Mandy for her presentation and asked for any questions.

Question

The insulation has been built in - what happens if it rains ?

Answer

Mandy intimated that any type of insulation will be damaged by heavy rain. When their panels leave the factory they are enclosed in a plastic covering which is only removed when the panel is ready to be put in place.

Question

What happens if the insulation moves whilst in transit ?

Answer

Extensive tests are carried out all the time. If there is a little bit of vibration this does not damage the panel.

Question

In regards to the cassettes do you still require traditional trades e.g., brickwork ?

Answer

If you require brick to the outside of the building you would still require traditional trades. You can batten sheeting on to the external structure if you require.

Question

Is it the client or the builder you approach and do you place contract with house builders ?

Answer

Mandy intimated she will speak to clients, Local Authorities, Housing Associations, Architects and Planners or builders, etc.

Mandy feels it takes time to plan a sustainable building and requires people who have knowledge and enthusiasm to put this into a package. She finds large contractors are very traditional in their approach and trying to get them to change from their more traditional routes takes drive to encourage them to do something different.

Question

Do you have air tightness testing ?

Answer

Yes - a copy is available for perusal. Thermal imaging has been carried out on some of the buildings and information in regards to this is also available.

2.3 Jonathan Fair - BRE Scotland Presentation - Code for Sustainable Buildings

Jonathan is a Director of BRE Scotland. He joined BRE in the Spring of 2003 and has overall responsibility for all BRE activities in Scotland, whilst delivering good consultancy and technical advice for public and private clients. Jonathan has over 17 years experience in the construction and property development sectors. His background in project management and design has been instrumental in delivering significant infrastructure, capital developments and PFI / PPP schemes.

Jonathan intimated that we do not require to ask 'Are we making progress in terms of sustainability'. There is a focus on renewable technologies which is a positive thing e.g., day to day transport decisions have an impact on our environment.

How do we get a clear and concise image on sustainable development ? We have become more habit forming in the use of carbon fuels. We need to move peoples' behaviour and how they feel about this. The UK's sustainable development strategy has a number of useful principles and has 3 key themes i.e., Involving People; Government Leading by Example and Getting Serious about Delivery.

Larger companies give their work to smaller companies who make more decisions than the larger companies. There are a huge number of contractors who can made decisions. Construction itself is not recognised as a single individual sector. A range of publications and guides have been compiled to assist with sustainable construction decisions.

Out of 147 new build construction projects undertaken only 3 were regarded as excellent. Regulations are very important but they have to be backed up on site in regards to quality etc.

There are a huge range of Regulations and information going out to the market place and we have a large amount of public investment in the UK. However, things are improving in the public sector. Construction is demonstrating year on year improvements. We should use the large range of legislation and policy drivers to our best advantage. Within BRE there is an extensive range of mechanisms and details to assist through a project e.g., BREAM and Eco Homes. The 40% House is a particularly good report to read as it includes what impacts are having on our decision making process. Demographics show there is a very strong trend for people to live alone and we require to look at the energy use etc., in comparison to this.

The National Code for Sustainable Buildings is only to be used in England at this point in time and it should be noted the Code's title has changed from Code for Sustainable Buildings to Sustainable Homes. The Code requires to work with regulations and regulations with the Code. It needs to supplement building regulations rather than replace them; it has a set of minimum standards for key resource efficiency; the Code has some guiding principles' it is made up of 6 core building modules, If you are operating North and South of the border you have the opportunity to add your views to the Code but this closes on the 6 March.

In Scotland we have recently had the Scottish response to the sustainable strategy and Jonathan feels we could be much more progressive.

The Building (Scotland) Act 2003 was the first in the UK to make provision for furthering the achievements of sustainable development.

Jonathan explained what was happening in response to the Code i.e.,

March 2006 - public consultation on extending certain Standards, due to be implemented in May 2007.

March 2006 - SBSA report "Sustainable development policy into practice: new buildings"

- Existing and proposed measures to promote the sustainable development of new buildings
- Regulatory standards and guidance
- Conditions of public funding and guidance

JP thanked Jonathan for his presentation and asked for questions.

Question

Do you ever see Local Authorities in Scotland using the Code?

Answer

There is no reason why an individual Local Authority, or Planning Department, could consider using the Code. It is designed purely for England at the present time. Planning Advisors and some large scale property owners are looking at sustainable materials etc. It is possible that, in the future, individual Local Authorities etc. may use the principles of the Code.

2.4 Christopher Breslin - British Waterways/ISIS Presentation - Port Dumas Project/Sustainable Canal Regeneration

Chris is Planning and Regeneration Manager with ISIS Waterside Regeneration and British Waterways Scotland. He has a Town Planning background and recently qualified as an Urban Designer. He has lived in or around Glasgow all of his life and believes passionately in well designed sustainable regeneration. He worked in Glasgow City Council Planning Department for 6 years before moving to British Waterways in 2002 to develop partnerships with Agencies interested in regenerating Scotland's canals. He was seconded part time to ISIS Waterside Regeneration 2004 to help deliver the Glasgow Canal Regeneration project.

Chris feels British Waterways are becoming a more sustainable organisation e.g.,

- They have a Sustainable Policy in respect of their aims and objectives.
- This includes protecting the environment despite social progress.

British Waterways are trying to change the way their projects are being carried out e.g., the Falkirk Wheel - this is very energy efficient. They are building the first Marina in Scotland and there are 60 Boats berthed there at the moment.

A number of savings have been made using the sustainable process e.g., using recycled slabs, galvanised steel mesh gates, bio-degradable fabric, top soil grass seed etc.

In regards to the Port Dundas Canal Re-connection Project they have had to build a lock and cut underneath Craighill Hall Road and realign the road. They want to see a leap of regeneration into this area.

The Basin has been a joint partnership between Glasgow City Council and ISIS and they have a framework for the re-design of the area and how better the Council can be integrated with the City. ISI is a sustainability policy based on 3 themes i.e.,

1. Regeneration - they would carry out a contextual analysis, this would give an assessment of each project.
2. Environmental Sustainability
3. Urban and water space design

Canals offer a very rich urban quality.

British Waterways are working on 9 projects at the moment throughout the UK and sustainability has a role to play in the regeneration of the Canals.

JP thanked Chris for his presentation and asked for questions.

Questions

None.

2.5 Stuart Brown - Dundee City Council Presentation - Dundee Demonstration House (Update)

Stuart is a Principal Quantity Surveyor with Dundee City Council Architectural Services Division. He is also the Division's Environmental Manager and led a small team to provide an Environmental Management System for Architectural Services. This system has been accredited to ISO 14001 since January 2003 and we believe we were the first local authority department in Scotland to achieve this.

He is currently Project Manager on the Sun City Demonstration House which is being refurbished to raise awareness with the Public and to be used as a teaching aid for Energy Efficiency, Renewable Energy and Biodiversity.

Stuart intimated that the Demonstration House is a Janitor's House in Dundee and was built in the 1960's. It is to be renovated and extended. Renewable Energy Systems are to be installed and these will be monitored. The House will be available to the general public for viewing for 3 years and will also be used as a teaching aid for school children.

It is being funded by Dundee City Council and SUST (The Lighthouse). There has been a huge response by various manufacturers to supply goods and give of their time etc.,

A sun store will be erected to the front of the house.

The performance of the house will be monitored by Professor Joe Clark of Strathclyde University and the results will be available on the internet for anyone wished to see how the initiatives are performing.

They are trying to avoid the use of toxic materials and use natural materials. They will also use recycled materials wherever possible e.g., several types of insulation will be used. Some of these will be supplied by Excel. Timber cladding will be used in 2 sections of the house. One will contain preservatives and the other will be preservative free.

It is hoped to use Scottish Oak Windows and this will be untreated.

Various other products will be used e.g.,

- underground drainage
- geothermal ground force heat pumps
- solar panel installations on the roof
- low energy tempered air ventilation system
- domestic wind turbine
- photovoltaics
- wood pellet burning stove will be used for heating (if required)
- sun pipes
- fire sprinkler system to be installed

Accessibility problems will be looked at and wheelchair access will be provided.

Information on the project is available on the website at -

www.sscforum.org.uk

Contacts in regards to the project are :-

Stuart Brown e-mail: stuart.brown@dundeecity.gov.uk Tel: (01382) 433973

Bob Anderson e-mail: bob.anderson@dundeecity.gov.uk Tel: (01382) 433568

JP thanked Stuart for his presentation and asked for questions :-

Question

Will sections of the roofs or walls be left exposed for people to see.

Answer

Some cutaways may be possible to ascertain how the various systems work with rotating displays over the 3 years.

Question

Will anyone be living in the house.

Answer

It is hoped to furnish the house and simulate living conditions. The house will be used as an office during the day by SCARF over the 3 year demonstration period.

JP thanked the speakers once again for their excellent presentations.

3.0 MINUTES OF MEETING HELD ON 16 SEPTEMBER 2005.

The minute of the previous meeting held on 16 September 2005 was accepted as a true record.

4.0 MATTERS ARISING

4.1 Membership

JP stated that membership of the group now stands at 201 representing 90 Organisations. The Forum has come a long way since it was formed in 1999 with only 12 members from 12 organisations.

4.2 Funding

John stated that the Sustainable Action Grant funding was for 3 years and this will run out in March of this year. John has therefore made a further application for the next 3 years. It should be noted the original funding was a one-off and asked the members for feedback on how we could address funding. Suggestions etc., in regards to same should be forwarded to John Porter.

It was noted the scope of the European Structural Funds has changed and we should perhaps look at this.

It was also suggested that contact should be made with professional bodies such as the RIAS and SCQS to ascertain if they would be willing to contribute towards the funding of the Forum.

A further suggestion was made that an organisation/body may be willing to sponsor the group for the next 3-year period.

4.3 Website Update

John intimated that further information is required for the Website and any information should be forward to Yvonne at -

yvonne.mchugh@dundee.gov.uk

Minutes and Presentations are available on the Website. If it is not possible to add a Presentation to the website this will be available in disc format if required. Please contact Yvonne in regards to same.

4.4 Targets 2005/06

Targets remain the same as last year. A Questionnaire will be circulated within the next couple of months and **JP urged everyone to complete and return same** as there was a very poor response to the previous Questionnaire circulated.

4.5 New Initiatives

JP intimated that the 'Big Tent' Festival of Stewardship 2006 is being held at Falkland Palace, Fife between 30 June and 2 July 2006 and they are looking for someone to give a presentation. John reported that a Presentation in regards to Morgan Academy will be given.

Falkland Centre for Stewardship are the sponsors for the event which will combine debates on executive space, information stalls, educational activities etc.

Representatives from GIAI, National Trust for Scotland and The Greater London Authority will speak at the debate. The contact person is Pete Ritchie at the following address :-

www.bigtent2006.co.uk

or Telephone (01337) 858838

ALL

ALL

JP reported that Dundee City Council, specify that 75% of timber should be either FSC, PEFC, CSA, SFI or from other approved accredited source.

It was noted the Malaysian Timber Council is not officially accredited by DEFRA. They can evidence all timber being legally logged but not that it comes from a sustainably managed forest.

Amanda Waugh intimated they have a policy stating that timber comes from sustainable sources.

JP reported that Professor Malcolm Horner, Dundee University, had informed him that a £1.3M research grant has been awarded to 4 Universities in regards to SUE-MOT (Sunstainable Urban Environment-Metrics, Models and Toolkits). Further information from Dr Mohamed Elharam at m.elharam@dundee.ac.uk

The Scottish Water Waste Services have a Waste to Compost Scheme which they have been operating. If anyone wishes to participate they would be quite willing to assist. Please contact : Kris Leitch on 0131 445 6416.

4.6 New Chair of SSCF

JP reported that he is to retire shortly and a new Chair for the Forum will therefore be required. Nominations are requested to fill this post. Stuart Brown of Dundee City Council will Chair the next meeting in Edinburgh when it is hoped a successor will be nominated.

JP recorded his thanks to everyone who has participated in the Forum. He stated that it has been a pleasure to act as Chair and wished the Forum every success in the future.

He thanked Amanda for arranging the venue.

Rob Pedersen, on behalf of the Forum, wished to record his thanks to John for chairing the Forum and for all the hard work which he has put into same. The Forum began from the leadership and determination of Dundee City Council's own Sustainable Construction Group. Rob stated the number of members in the group is testimony to the importance of the Forum which is recognised throughout the width and breadth of Scotland. He extended his thanks and best wishes to John in his retirement.

JP recorded his thanks to Yvonne for assisting with the meetings and general administration of the Forum.

5.0 **ANY OTHER BUSINESS**

- 5.1 JP intimated that a venue was required for the September meeting. Elaine Morrison proposed Dundee as this would be a good opportunity for members to visit the Demonstration House project which is currently being undertaken. This was agreed.

6.0 **FUTURE PRESENTATIONS/SPEAKERS**

JP stated the next meeting will be held in Edinburgh on the 2 June 2006 and that several speakers had been suggested. These are as follows :-

- Janice Pauwell- Sustainable Development Guide
- Kirsten Anderson - PAN for Micro Renewables
- Fionn Stevenson, Dundee University - Design for Deconstruction
- Herman Miller - New sustainable office building in Bristol
- Jewson
- Natural Building Technology

7.0 DATE OF NEXT MEETING

The next meeting will be held on **FRIDAY 2 JUNE 2006** in the European Room, City Chambers, Edinburgh.

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

Where it is not possible to place a Presentation on the website 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

JP Thanked the Speakers once again for their Presentations and also Glasgow City Council for hosting the event.

John Porter thanked everyone for attending.

Distribution

All Forum Members
Councillor Julie Sturrock
Director of Support Services
Chief Executive
A Anderson, ECPD
Councillor Jill Shimi
Ken Laing
Mike Galloway
Anne Wilson

cc Councillor George Regan
Councillor Fraser McPherson

<p>N.B. PLEASE FORWARD ANY AGENDA ITEMS FOR NEXT MEETING</p>

JP/YM
7 March 2006

PUBLIC SECTOR SUSTAINABLE CONSTRUCTION FORUM

MEETING ON 24 FEBRUARY 2006 in

PARISH HALLS, GEORGE STREET, GLASGOW

LIST OF ATTENDEES

	NAME	<u>LOCAL AUTHORITY/ ORGANISATION</u>	DESIGNATION
1	Rob Pedersen	DCC, Architectural Services Division	Principal Arch Services Officer
2	Mandy Wilkinson	Excel Industries	Sales Engineer
3	Linda Sheridan	Scottish Building Standards Agency	Dir of Research/Sustainability Steward
4	John Anderson`	DCC, Arch Services Division	Building Services Engineering Manager
5	Stuart Brown	DCC, Arch Services Division	Principal QS
6	Lucy Andrew	RMJM	Architect
7	Alan Dunlop	GM & AD	Architect
8	Amanda Waugh	GCC	S. Dev. Team
9	Christopher Breslin	W.W Waterside Regeneration	Planning & Regeneration Mgr
10	M R A Finkill	ISIS	Regeneration Director
11	John Tavendale	University of Dundee E & B	Project Manager
12	Duncan Whyte	University of Dundee E & B	Head of Planning & Policy
13	Brian Studholme	Jewson	Trading Manager
14	Bruce McGregor	Jewson	Nat. Sales Mgr - Public Sector
15	Lori McElroy	SUST (The Lighthouse)	Project Manager
16	Kate Hendry	SUST (The Lighthouse)	
17	Iain Connelly	Fife Council	Facilities Manager
18	David Somervell	Edinburgh University	Energy & Sustainability Mgr
19	Peter Davidson	DCC, Arch Services Division	Building Services Engineer
20	Alan Mackie	DCC, Arch Services Division	Quantity Surveyor
21	Robert Anderson	DCC, Arch Services Division	Architect
22	Ian Cameron	Perth & Kinross Council	Arch and Design Manager
23	Hamish Campbell	East Renfrewshire Council	Energy Manager
24	Elaine Morrison	SCARF/Solar Cities Scotland	Development Officer/Chair
25	Hazel Carnegie	Aberdeen City Environmental Forum	Member
26	Scott Norrie	Angus Council	Chief Services Engineer
27	Ken Brown	Angus Council	Chief Architect
28	Andy Marnie	South Ayrshire Council	Energy Manager
29	Craig Doogan	Renfrewshire Council	Energy manager
30	Leanne McMillan	S&C EEAC (LESP)	LESP Officer
31	Hugh Muschamp	LEEP (EEAC)	LESP Co-ordinator, SE Scotland
32	Liz Fitcher	Energy Action Scotland	Development Manager

	NAME	<u>LOCAL AUTHORITY/ ORGANISATION</u>	DESIGNATION
33	Fiona Ross	South Ayrshire Council	Env. Strategy Officer
34	Alex MacKenzie	North Ayrshire Council	Team Leader (Tech Support)
35	Jonathan Fair	BRE Scotland	Director
36	Tony Stewart	Sustainability in Business	Consultant
37	John Wilson	Scottish Executive	Sustainable Development Mgt
38	Gil Morgan	GCC	Principal Sust Dev
39	Colin Cunningham	GDD Building Services	Senior Architect
40	Derek Nelson	Forestry Commission Scotland	Market Development
41	Colin Kerr	SWAG	Campaign Officer
42	Kris Leitch	Scottish Water Waste Services	Sales Contracts Mgt
43	Warren McIntyre	GCC	Project Officer
44	Fiona Roche	GDD	Project Officer
45	Sean Watters	East Lothian Council	Architect
46	George Hay	ECC	Architect
47	John Forbes	WRAP	Liaison Officer
48	Helen Connelly	Enviro Centre	Environmental Consultant
49	Derek Taylor	North Lanarkshire Council	Planning Officer
50	Denis O'Kane	North Lanarkshire Council	Planning Assistant
51	William Douglas	Glasgow City Council, DRS	Project Officer
52	Andrew McKibbin	Glasgow City Council, DRS	Project Officer
53	William Bolton	North Lanarkshire	Architect
54	Douglas MacIntyre	Morrison Group	Bid Director
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PUBLIC SECTOR SUSTAINABLE CONSTRUCTION GROUP

MEETING – FRIDAY 24 FEBRUARY 2006

Apologies

Stewart Ball	Dundee City Council
David Congreve	Angus Council
Lindsay Cowan	Mansell
Frank Cowie	Falkirk Council
Sheila Currie	Scottish Natural Heritage
David Duncan	Dundee City Council
Doug Duncan	Mansell
Iain Farquhar	East Lothian Council
John Gell	Forestry Commission Scotland
John Gilbert	John Gilbert Architects
Sandy Halliday	Gaia Research
Hendry Alan	Momenta (AEAT)
Catherine Lloyd	Tayside Biodiversity Partnership
Ian Mathers	Torith Ltd
Moray Newlands	University of Dundee
Alistair Smilie	The Moray Council
Ken Smith	Scottish Executive
Christine Stewart	Scottish Energy Efficiency Office, SCARF
Julie Sturrock	Dundee City Council
Ken Bamborough	The Highland Council
Colin McIntosh	Dundee City Council
Martin Squibbs	CIRIA
John McBeath	Tayside University Hospitals
Roz Artis-Young	Scottish Lime Centre Trust
Heather McQuillan	Housing, DCC
Iain Wolstenholme	Aberdeen City Council
Angela Heaney	Stirling Council
Caroline Wilson	Edinburgh City Council
Michael Lynch	The Wise Group
Brian Menzies	Enviro Centre
Bill Browning	North Lanarkshire Council
Rowenna Wallace	Dundee City Council
Graham Harris	North Ayrshire Council
Anne Law	Stirling Council
Ron Spalding	Stirling Council
Lorna Wallace	East Renfrewshire