CIBSE Honours
Don Byrne
Meet the A-team
Amazingly adaptable

Grundfos (Ireland) Ltd,
Unit A Merrywell Business Park, Ballymount Road Lower, Dublin 12.
Tel: 01 - 408 9800 - Fax: 01 - 408 9830
email: info-ie@grundfos.com - Website: www.grundfos.com

By popular demand, Grundfos has steadily expanded the MAGNA range to the point where it now boasts a total of 27 different models - all with the AUTOMAT function.
The new Magna range provides flows from as little as 1 m³/h up to 39 m³/h.
All MAGNA pumps are labelled A on the energy scale.
Seasons Greetings

Wishing all our readers a very happy and peaceful Christmas and here's looking forward to a prosperous 2007.

Pat, Joe and Louise
Treasury Holdings was awarded the International Property Achievement Award at the Irish Property Awards ceremony held in Dublin last month. The company received the award for its work on the Dongtan Eco-city in China.

When it has been completed, Dongtan Eco-city will include approximately 4.2 million sq m of mixed accommodation. Constructed on a site of some 1,000 hectares, this major project effectively forms an entire new city suburb for Shanghai.

Embracing the latest technologies, the development will also be a world leader in sustainable, environmentally-responsible, construction.

Pictured are: Pat Gunne, Managing Director, CB Richard Ellis with John Bruder, Chief Operating Officer, Treasury Holdings, and Giles Barry, Editor of Property Week.

The Mark MDV roof fan for air extraction is backward curved with safety mesh and has a casing manufactured from galvanised steel (coated with S=1.2-2mm). There is an external motor on the fan and altering speed is achieved by changing the voltage (ie step transformer).

Other features include inbuilt thermal protection and bearings which are sealed non-maintenance type. Inspection is recommended approximately every six months, the only maintenance required being fan cleaning.

Contact: Mike O'Donoghue, Mark Eire. Tel: 026 45334; email: sales@markeire.com

One of Ireland's leading architectural firms, Henry J Lyons & Partners, has opened new offices in Cork and China, the location of the latter being Shanghai, a city which is coincidentally twinned with Cork.

The company already has an extensive client base in Cork which includes Alchemy Properties, Bulmers Ireland, O'Callaghan Properties, McNamara Construction, Boland Developments, X-CES Projects and Amgen Technologies Ireland. The dedicated Cork office will allow far greater support.

As part of its expansion strategy on the international front, Henry J Lyons & Partners choose Shanghai, as China has become the focus of world economic development and the region has some of the world's fastest-growing cities.
Seasons Greetings from SANYO

The full range

Published by ARROW@TU Dublin 2006

www.sanyoaircon.com

All round air conditioning by
sei energy management courses
SEI energy management courses provide an overview of the particular topic combined with practical examples of how the technologies and techniques can be applied. A number of very successful courses have already been run this year and the programme for the first quarter of 2007 has now been announced. Brief details are as follows:

Energy Management Courses
*Dublin*: Great Southern Hotel, Dublin Airport — Tuesday, 6 February/ Thursday, 8 February & Tuesday, 10 July/ Thursday, 12 July;
*Cork*: Silver Springs Hotel — Tuesday, 27 February/ Thursday, 1 March;
*Limerick*: Clarion Hotel — Tuesday, 15 May/ Thursday, 17 May;

Boiler Efficiency Course
*Cork*: Silver Springs Hotel — Tuesday, 24 April;

Energy Efficient Lighting Course
*Dublin*: Great Southern Hotel, Dublin Airport — Tuesday, 20 February;

Energy Auditing Course
*Dublin*: Crowne Plaza Hotel — Wednesday, 7 March;
*Cork*: Silver Springs Hotel — Wednesday, 6 June;

Refrigeration Course
*Dublin*: Alexander Hotel — Tuesday, 27 February.

Contact: Deirdre Farrelly, Industry Programme Assistant, SEI. Tel: 01 - 808 2087; email: deirdre.farrelly@sei.ie

ciarb annual dinner
Pictured at the 25th annual dinner of the Irish branch of the Chartered Institute of Arbitrators (CIARB) in Dublin recently were consulting engineer Ciaran Fahy with civil and structural engineer Dermot Roughan of Roughan ADR Services, Chairman of the Chartered Institute of Arbitrators Irish Branch, and Joe Behan of JP Behan Associates, Vice-Chairman of the CIARB Irish branch.

new dab commercial range
DAB Pumps' expanded A, B and D light commercial heating circulator range now consists of 30 different models made up of single and twin head versions, three phase and single phase motors, 1.5" and 2" threaded connections, 40mm flanged connections and improved performance of up to 3.5 Litres/Sec and 110 KPA.

Design improvements include larger brushes in the motor improving working life and increasing reliability; new improved speed selector switch indicator; and quick access electrical connections to assist ease of installation. All models are directly replaceable to all leading pump brands in the market.

Contact: Roy Tolan, Consolidated Pumps. Tel: 459 3741; email: info@consolidatedpumps.com
New VRF Series: R410A MiNi-SMMS

Designed for professionals by professionals. The MiNi-SMMS delivers the ideal comfort level in a compact, quiet and lightweight unit ensuring ease of installation and operation. Capable of operating up to 9 indoor units, from a choice of 13 designs including the new 600 x 600 mm ceiling cassette.

PERFORMANCE
• Best COP in the industry, 4.61
• Capacity range; 12 – 15.5 kW cooling and 12 – 18 kW heating
• Twin rotary compressors

FLEXIBILITY
• Ultra-quiet utilising remote PMV kit (optional)
• Automatic addressing
• Extended refrigerant piping capability

Contact us today for the MiNi-SMMS brochure, prices or for training.
trade news + product information

air velocity transmitter
The new Dwyer Series 641 air velocity transmitter from Manotherm is designed for use in exhaust stacks, for HVAC air velocity measurements, air control in drying processes and fan supply and exhaust tracking.

The transmitter uses a heated mass-flow sensor which allows for precise velocity measurements at various flow rates and temperatures. With 16 field-selectable ranges, it has the versatility to be selected for several air flow applications. The optional LED produces a complete, low-cost solution for local indication air flow.

Key features and benefits are:- range: 15,000PFM or 75MPS; 4-20 mA output; digital filter for signal damping; compact housing; easy push-button set up; optional LED display.

Contact: Bob Gilbert, Robert Gilbert or Noel Walsh, Manotherm. Tel: 01 - 452 2355; email: info@manotherm.ie

keystone tells contractors — get insured!
Latest statistics from the Health and Safety Authority on work-related fatalities and injuries report 73 work-related fatalities in 2005, with the construction sector having the second highest fatality rate with 8.3 fatalities per 100,000 workers. In addition, the construction sector has the highest rate of injuries.

It is against this background that Keystone Insurance has set up to cater exclusively for the construction industry. Director Anthony Woods explains: “Unlike other brokers we are not a ‘jack of all trades’ ... we only insure contractors, and cater for all their needs.”

Contact: Anthony Woods, Keystone Insurance. Tel: 042 - 939 3993; www.keystone.ie

toshiba high-wall increased filtration
Toshiba’s latest high-wall indoor units use an integral six-stage air filtration process that includes the use of Sasa, Zeolite and Vitamin C based products. According to the company, research in Japan shows that the new filtration technology gives these products exceptional anti-virus, deodorising and antioxidant characteristics.

The six-stage process begins with a pre-filter that traps large particles and dust. Further trapping takes place at the next stage to ensure that airborne viruses and bacteria are held for elimination. The filter used combines a bio-enzyme and Gingko extract, which has anti-bacterial and anti-allergy properties. It has a life of two years and can be cleaned using a vacuum cleaner and exposure to sunlight.

Additionally, Toshiba’s new indoor units feature a 12-step selectable louvre, with a wider angle and better air flow and air distribution, as well as a self-cleaning function, designed to reduce humidity, a common cause for mould inside the unit.

Contact: Derek Phelan, GT Phelan. Tel: 01 - 286 4377; email: derek@gtphelan.ie
- Unipipe (by Uponor) multi-layer pipe offers a proven alternative to steel, copper and plastics for mechanical services.

- Available in straight lengths (all sizes 12 to 110mm) and coils (to 32mm).

- Corrosion proof, faster, cleaner. No welding screwing or painting. Longer lasting and lower installed costs

- One pipe...no waste...offcuts from one application can be used elsewhere on the job

- From Sweden NIBE offer ground-source, Air-to-Water and exhaust air heat pumps. NIBE are Europe's largest producer of heat pumps.

www.unipipe.ie
mtd-solutions seeks agents

MTD-Solutions seeks an agent to cover the North East, primarily Dublin and surrounding counties. The primary product is the MTD-ERV 300 whole-house ventilation system with 97% heat recovery efficiency consuming only 24 watts of power on normal setting and 80 watts on high speed.

Ideally, MTD-Solutions is looking to appoint a company already working within the renewable energy sector. All enquiries should be made direct to Ciaron King, Managing Director, MTD-Solutions.

Contact: email: ctking@mtd-solutions.com.

switch to old from new & save

At an energy efficiency forum in Brussels recently Philips announced a number of energy efficient lighting solutions which could significantly reduce costs, save energy and cut CO₂ emissions.

In view of the rising demand for energy and imminent climate change, Philips believes that by just switching from old to new technology, massive savings could be made.

In view of this, Philips thinks the time is right and momentum is there to globally prepare for a switch-over from incandescent bulbs to energy saving bulbs, over time.

By switching to new technology, an indirect CO₂ reduction of 20 million tons in Europe alone could be achieved. For the consumers at home, switching from incandescent bulbs to energy saving light bulbs could achieve savings of up to £12 per light bulb per year.

In addition to the energy efficient light bulbs, Philips has also introduced a new generation of retrofit halogen bulbs, called Edore. These halogen bulbs offer clear crisp lighting quality and save 50% energy when compared to incandescent bulbs.

Contact: Lighting Division, Philips Ireland. Tel: 01-764 0000; email: lighting.ireland@philips.com

unique worldwide product finder from imi

Irish Metal Industries has revamped its website (www.irishmetalindustries.com) to incorporate several new user-friendly features, including the unique Worldwide Product Finder search option. To find the correct copper tube for a particular application, users simply input the tube specifications.

Users can also view, request or download a comprehensive range of product and technical literature, as well as registering for regular email information updates.

Conor Lennon, General manager, Irish metal Industries says: “The site was re-designed to make it easier still for customers to quickly find products and services that they need. We are committed to being the premier copper tube supplier of choice in the marketplace and the revised site is another example of our focus on providing quality customer support”.

Contact: Conor Lennon, Irish metal Industries. Tel: 01-295 2344; email: conor.lennon@irishmetalindustries.com
The Wilo-Stratos is the first high-efficiency pump in the world. Thanks to its innovative ECM technology it permits energy savings of up to 80% compared to standard pumps. This applies both for heating systems and for air-conditioning and cooling systems. In conjunction with its intelligent bus controller this makes it the ideal solution for building automation. Ingenious? We call it Pumpen Intelligenz.

* Electricity for the heating/air-conditioning pump.
boiler solution for the ufh market

Uponor has introduced a 2.5kW EB25U electric boiler designed to complement every type of underfloor heating system available into today's market. It offers an alternative solution to areas up to 45 sq m that require underfloor heating (typically up to 25 sq m for high demand applications such as conservatories).

Currently, some UFH projects may be disregarded because the work involved in tapping into the existing heating system is too time-consuming and expensive. The Uponor EB25U boiler's biggest advantage is that it is a complete stand-alone and sealed unit, with installation connections limited to a 13A fused power supply.

The unit can also be recessed while still allowing access to the internal boiler components via the front mounted screws. It also includes a wireless control receiver, complemented by a remote wireless temperature sensor and indicator. Complete with a simple-to-programme timer and setback control option, the system offers economical advantages through intelligent use of available power.

Contact: Donal Stafford, Uponor Housing Solutions. Tel: 01 - 895 7430; email: nsenquiries@uponor.co.uk

wilo-stratus with wilco-clima form system

High-efficiency systems are increasingly used in air-conditioning and refrigeration. At the recent IKK '06 trade show in Nuremberg, Germany, Wilo presented the Wilo-Stratos, a gland less high-efficiency pump which is also suitable for air-conditioning and refrigeration.

Thanks to innovative motor technology and optimised hydraulics, Wilo-Stratos pumps are claimed to have twice the overall efficiency of conventional glandless pumps. When used in conjunction with a continuously variable electronic regulator, they are said to achieve energy savings of up to 80% compared to uncontrolled standard pumps for air-conditioning and refrigeration applications.

Moreover, Wilo-Stratos pumps contain numerous characteristics that improve the reliability of air-conditioning and refrigeration technology with faults and downtimes caused by condensation eliminated. Additionally, the pump has a special drain labyrinth in which the condensate is dissipated through special holes. The motor and electronic modules are thermally separated so that no humidity condenses in these sensitive areas.

Contact: Derek Elton, Wilo Engineering. Tel: 01 - 426 000; email: sales@wilo.ie

qualifications in electrical services engineering

DIT Kevin St offers progression options for electrical craftspersons who wish to secure qualifications in electrical services engineering. Subjects include autocad, industrial automation, electrical services design, computer applications, computer aided design and project management.

The programmes are student-centred and delivered in a user-friendly way. They include three options — Higher Certificate (part-time programme, Ref: DT079); Bachelor of Technology Degree (part-time programme, Ref: DT083); and Bachelor of technology (wholetime programme, Ref: DT010).

Contact: Kevin O’Connell, DIT, Kevin St. Tel: 01 - 402 4617; email: elect.services@dit.ie
IRISH METAL INDUSTRIES: TUBE WITH BUILT IN QUALITY

WHEN QUALITY AND RELIABILITY COUNT, SPECIFY TUBE FROM IRISH METAL INDUSTRIES

Thousands of properties in Ireland have a built-in quality product – copper plumbing tube from Irish Metal Industries. With its 25 year guarantee and carrying either the Irish Standard Mark or BSi Kitemark, our tube offers you proven and trouble-free service, year after year.

You can rely on Irish Metal Industries tube – so ask for it by name.
Radiator & Controls

Optimum performance & maximum control

Myson is one of the most innovative producers of heating equipment in the business, offering heating solutions for every application and across all price ranges. Included are radiators, towel rails, fan convectors and underfloor heating.

Myson produces something like two million radiators a year using exacting quality-control procedures certified to BS EN 14001. Moreover, all products meet the European Standard EN 442 and come with a 5-year warranty.

Potterton Myson (Irl) is the Myson distributor for Ireland and, in addition to carrying extensive stocks across the entire range, it offers comprehensive back-up and support by way of design advice and product selection guidance.

Brief details of the vast choice on offer are as follows:

Premier HE — This is Myson’s flagship range and is renowned as much for its famous round-top, safety-conscious, design as its excellent heat outputs. Stylish and elegant, it complements traditional and modern environments alike.

Premier Compact — This is the newest radiator in the range and features the design strengths of a traditional round-top with the added features offered by compact radiators. It is unique in the market and appeals to the discerning installer with an eye for aesthetically chic design. It is available ex-stock.

Select — Suitable for all types of room decor, the Select range of radiators is neat and tidy with a high-quality white gloss finish. Available as a radiator with matching grilles and side panels.

Column Radiators — Myson has always been to the forefront of radiator design concepts and this is especially true of its column styles which are decorative as well as being functional.

Myson Décor — This is a specially-developed decorative range. There are 52 standard sizes, including horizontal, plinth, column and vertical models in a wide range of colours with a variety of connections and fixings. Customised models can also be produced.

Myson LST — Myson’s low surface temperature range ensures that the surface temperature of the radiator remains under 43°C. Available in four heights and eight lengths.

Towel Warmers — The vast range of Myson towel warmers offers a choice of elegant units with design styles to meet every type of bathroom decor and budget. There is also a full range of matching accessories.

Myson Fan Convectors — Myson’s convector range is for situations where instant heat is required. There is a choice of Hi-Line, Lo-Line, Slim-Line and Wallstrip models, all of which connect to the central heating system.

Myson Controls — The Myson controls range continues to expand from it’s origins in manual valves to today’s offer of high-quality zone controls, electronic programmers and stats. Then there are the market-leading products in manual radiator valves for domestic and commercial projects. In addition to these products, the newly-reopened factory in Newcastlewest Co Limerick has just produced an Irish Pushfit range with a promotional offer of one product FOC with every 10 purchased until the end of January 2007. These products are labour-saving solutions that show the continuous commitment to new product development from the only manufacturer of valves and controls for the heating industry in Ireland.

Contact: Potterton Myson (Irl).
Tel: 01 - 459 0870;
email: post@potterton-myson.ie
Versatile Agencies has taken the traditional concept of heating and given it form. This is achieved by applying its own extensive knowledge and experience to the product portfolios of cutting-edge, innovative, brand leaders like Jaga, Runtal Zehnder and Vogel.

Heating solutions are custom-designed to facilitate each application. Where visible, the heat emitters contribute to the aesthetics of the setting; however, they can also be unobtrusive to the point of being invisible.
Radiators & Controls

**Combining High-Performance, Energy-Efficiency & Aesthetics**

The Radiator Company — whose Irish distributor is Heating Distributors — supplies a vast range of radiator designs and styles. Choices offered include its designer range, along with steel multi column, aluminium, cast iron and kitchen ranges. There is also a convector range, a towel rail range, and a complementary valve collection.

Colour options are the standard white RAL 9010, plus the complete RAL range and special finishes.

That said, Heating Distributors is all about choice. Consequently, among the 70 plus radiators featured in its showrooms are models from other leading radiator manufacturers. These include the Aeon Collection from Els, with its elegant stainless steel fingers, from the Aeon Collection.

Ultraheat and the Expressionist Range from MHS Radiators. The Expressionist Range comprises 34 radiators, all with distinct aesthetics and engineered to the most exacting standards from the highest-quality stainless steel. The Expressionist Range from MHS is of a similar high quality but has its own distinctive style. Apart from being high-performing and functional, all radiators in the range are innovative in design and have a very definite architectural feel.

Also featured are models from the renowned Licon range. For instance, Licon OK wall LST convectors are normal wall-mounted radiators with a long history of use in households, and public and industrial areas. The fact that they have a modern design, are simple to assemble and economic to run, has made them especially popular.

There is also the Licon PK floor convector designed to be fitted flush with the floor, and the Licon PK VT floor convector with a tangential ventilator.

The core of all Licon convectors — the Licon OR heat accumulator itself — can also be used in a much wider range of applications. It is suitable for placing individually and may be covered by almost any type of material to smoothly integrate them within the room.

Contact: Heating Distributors. Tel: 01-864 8950; email: info@heatingdistributors.com

A Licon Heat LST radiator available from Heating Distributors.
Keep ahead with Honeywell.

It's reassuring to know you can keep ahead of the game with Honeywell. We have been making energy saving controls for over 100 years. So people trust us to provide quality, reliability and good value.

Our top quality range of thermostatic valves includes the smart chrome-top VT200, as well as the VT15 and VT117. All offer energy savings and reversible flow bodies to give unrivalled performance, individual room temperature control and stylish appearance.

Make the smart move - use Honeywell
chappee — a lifetime of comfort assured with authentic cast iron

High quality and extremely traditional, cast iron has always been sought after for its natural qualities. Guaranteed for life and shock and corrosion-resistant, it is timeless and represents life-long investment in gentle, controlled heat and total safety.

The Chappee cast iron range from Hevac represents:
— Long life;
— Quiet operation;
— A financial asset;
— High quality material;
— Comfortable, natural heating.

Chappee cast iron radiators are the result of proven technology. Comfort is ensured by the diffusion of optimal heat — aerodynamic shapes for convection; thermal exchange enhanced by the size of the hot air passages; and flat aspect for exceptional radiation.

Comfort is optimised by compact size with maximum output, whatever the size of the rooms to be heated. Cast iron is naturally quiet and does not crack or vibrate with variations in temperature, so there is none of the noise associated with other radiator types.

Cast iron has developed over time and the Savane and Dune 2 models are proof of this. The flat aspect of Savane makes it possible to combine it perfectly with any style of decoration. The elegance of its lines makes it a refined addition to any décor style.

Savane represents the perfect ready-to-assemble radiator. Evolutionary, the radiator can be adapted in height, width and power for all needs in terms of decor and comfort. Compact, flat and covered with a base coat of protective paint, radiators are easily painted over in the colour of choice.

Watercolour, bracing shades or trompe l’œil ... anything is possible.

The new range of cast iron Savane radiators provides various installation options and meets all requirements in respect of quality, comfort, price, choice and safety. Recognised as the cast iron radiator that offers the best value for price and performance, the Dune 2 range is all the time evolving. Adjustable, the structure of its units ensures a good diffusion of heat in order to respond to the needs of even the largest rooms.

In the same way as Savane, Dune 2 is delivered primer-coated white, thus suiting the requirements of renovation prospects. Just like its renowned relatives, it comes with the benefit of a lifetime guarantee.

The art deco trend is also very much in evidence in the Chappee range in the form of the Floreal radiator. Modelled on the style of the decor in old and prestigious houses, this design has been enriched by a model of the same shape but with a smooth finish.

Floreal radiators have been installed in all manner of prestigious projects such as Aras An Uachtarain, Dublin Castle, City West Hotel, The Dail, Russells of Ranelagh and Farmleigh House.

To provide the end-user with the very best in heating, the entire Chappee range of cast iron radiators has a lifetime guarantee, their performance regularly checked by CETIAT. They also conform to the requirements of the European Standard NF EN 442.

Contact: Karl Carrick, Hevac. Tel: 01 - 419 19 19; Fax: 01 - 458 4806; email: karlc@hevac.ie
Quinn Radiators, one of the UK’s largest radiator companies and has a wide range of panel, towel and feature radiators.

The Quinn Compact Radiator which has just commenced production in the company’s “state of the art” plant in Newport Wales is due to come to the market in early 2007. It is based on a market leading 2.0m pitch, and sets new standards in design, high performance and class-leading efficiency.

Slim and stylish with exceptional performance, the Quinn Round Top range of radiators are safe, attractive and easy to keep clean, combining a discreet, modern appearance with high performance and classic good looks.

Quinn Radiators have also introduced a new and exciting range of Designer Feature and Towel Radiators, which offer exclusive features available for the first time in a wide variety of finishes that will enhance any room.

All its radiators are supplied under warranty for a period of five years, and have been manufactured and tested in accordance with the BS EN 442 standard.

Quinn Radiators Ltd,
Derrylin, Co. Fermanagh. N. Ireland BT92 9AU.
Freephone 0800 3899980 (From NI) 1800 882 332 (From ROI)
Fax +44(0)28 6774 2998
COMFORTABLE AND HIGHLY EFFICIENT
Check out the benefits!

At last, a unique control system that provides flexible, energy saving air conditioning that's perfect for hoteliers everywhere!

The Mitsubishi Electric Programmable Logic Controller™ (PLC) connects to our G50 control systems to provide maximum control for hotels everywhere. By simply programming the indoor air conditioning units to work in conjunction with existing key card systems, the PLC achieves the highest level of control.

When the hotel room is:

> Occupied with key card inserted. The air conditioning is initially set to 'Auto' mode and 21°C. From this point onwards the guests then have full control.

> Occupied with the key card inserted and a window open. When using the optional window sensor, the air conditioning is automatically switched off to save maximum energy.

> Unoccupied with no key card inserted. The air conditioning is automatically set to 'Night Set Back' mode which maintains the room temperature between 16°C and 26°C.

Using the PLC with our advanced control systems (G50 or Baby G50), enables all guest rooms to be easily monitored and/or controlled from a central point in the hotel, ensuring utmost comfort and maximum efficiency throughout.

It also:

> Ensures maximum comfort and efficiency by preventing guest rooms being too hot or too cold prior to occupation.

> Saves energy by avoiding guests inadvertently setting the wrong mode (ie. Heating/Cooling instead of Auto).

For more control than ever call 01-4198800 or visit www.mitsubishielectric.ie
When planning a heating system it is important to remember that a TRV regulates hot water flow through a radiator, but has no control over the boiler or central heating pump. So, if all TRVs have shut off because rooms are up to temperature, the boiler may keep firing just to heat the water in the pipes. To prevent this fuel wastage and unnecessary wear on the boiler, a room thermostat (or a programmer with an inbuilt temperature sensor) should be mounted in a room without TRVs, to switch off the boiler and pump when there is no longer a call for heat.

TRVs provide excellent room temperature control in individual rooms, provided they are installed so they can sense the real temperature of the room. A TRV should not be exposed to draughts or fitted where it can be affected by a heat source, such as a fire or direct sunlight. Nor should it be isolated from the airflow of the room by furniture or fittings — boxing off the radiator and its TRV is not a good idea!

In some cases performance may be better if the TRV head is fitted in a horizontal attitude to obtain better performance. This may be done on either end of the thermostat and is easy when installing Honeywell TRVs because they feature reversible flow — without any adjustment in the body — so there’s no need to identify flow and return pipes. They eliminate the possibility of water hammer and wasteful call-backs for installers.

The defining feature of Honeywell TRVs is a unique insert that allows them to be fitted horizontally or vertically at either end of the radiator. In addition to conventional TRVs with pipe connections at right-angles, Honeywell offers “straight-through” versions allowing greater choice of installation positions.

Just recently Honeywell introduced three stylish and inexpensive new thermostatic radiator valves, supplied in convenient RadPlan packs with matching lockshield valves, “ready to fit”. The new designs are the fluted VTL120, contemporary white/chrome VTL220, and elegant all-chrome VTL330 — each with the reassurance of unrivalled Honeywell reliability.

Honeywell RadPlan packs combine great value with convenience at the merchant counter. There are straight-through or angled valves, and a choice of standard 15mm connectors or a “small bore” pack providing both 6mm and 10mm fittings in the same pack.

The temperature setting on conventional TRV heads can only be adjusted manually. However, Honeywell is unique in offering its HR80 wireless controller head which, fitted onto standard TRV bodies as part of a CM Zone wireless zoning system, enables a building to be divided into separate heating zones without cabling or plumbing pipework changes. Radiators in each zone are adjusted automatically using wireless signals from a central CM Zone controller. Householders can programme up to six time/temperature changes per zone each day — and a different programme each day of the week. The Honeywell HR80 is supplied with a variety of adapters to fit valves from other manufacturers.

Each TRV fitted with the HR80 wireless controller head receives the same programmed set point as every other radiator controller in the same zone. If it is the only head in the zone, then it will be completely independent.

The local temperature adjustment available on all Honeywell TRVs is also offered by the HR80 head — the user simply turns the knob to override the last value transmitted by the central controller. When the central unit transmits its next set point value, the manually adjusted setting on the radiator controller is overridden.

Contact: Honeywell Control Systems.
Tel: 0044 1344 656125; email: literature@honeywell.com; www.honeywelluk.com
The range of RWB controllers:
- Unique menu driven programme
- Easy to read, larger than average backlit display
- Simple operation
- Up to 3 hour boost facility
- 2/3 On/Offs
- Holiday programming
- Universal programming
- Programmable away from its backplate
- Industry standard backplate
- Battery back-up

The range of motorised valves:
- Demountable actuator (power head)
- Replaceable motor
- Wedge type actuator
- Spring return operation
- Manual lever for flushing or filling the system
- Industry standard wiring

The range of TRV's:
Are one of the widest selections of HVAC control valves on the market, ranging from radiator valves up to large DN150/PN40 valves for district heating plants.

The rooms and zones portfolio comprises a full modular range of 2.5mm and 5.5mm stroke valves. In combination with thermal or electromotoric actuators and on/off, 3-position and DCO 10V control signals, any preferred choice is available.
quinn continues to radiate success

Founded in 1973, the Quinn Group is one of Ireland’s largest companies. With a track record of success in many areas, it has ventured into the Quinn Group supplies everything from financial services and hotels through to glass and plastics. The Quinn Group believes its main asset is ‘strength through diversity’, offering its customers quality products and a top class service at competitive prices.

In May 2004 the Quinn Group acquired the Barlo Group Plc, an Irish group, which had the production of high quality radiators as one of its main activities. This acquisition brought Merriott-design, Barlo and Veha radiators to the Quinn Group. In January 2005, in line with all the Quinn Group companies, these became Quinn Radiators Ltd. It is now one of Europe’s leading manufacturers with 35 years of experience of producing innovative radiators with unrivalled performance and industrial design. The company has a site in Ireland, two sites in the UK and three worldwide with approximately 650 employees.

Quinn Radiators has a wide range of panel, towel and design radiators including round top, compact and LST. Its policy of reinvestment in product development and in production capability ensures the company continues to set new standards in product quality and customer service.

Quinn Radiators’ main focus at the moment is on its new plant, which is being developed in Newport. “It will be the biggest in Europe, with a capacity to produce over four million radiators per annum,” explains Séamus McMahon, Sales Manager for the company, in Ireland.

“Approximately €175 million has been invested in the new state-of-the-art facility which will be around 110,000 sq m in size, giving the company the capability to produce a radiator every four seconds.

“Because of the introduction of a manufacturing execution system (MES), the plant will also be one of the most efficient in the industry. MES will allow us to keep constant monitoring and tracking on the quality and liability of all the products, so we will have full traceability,” Séamus continues. “This new facility will open up many opportunities for the company as it will have the only 12-metre radiator line in the world, together with a unique fully-automated picking system. This in turn will also improve the quality of the company’s products as we believe that it is during handling that most damage can potentially occur.

“Quality is very important to Quinn Radiators. The company was the first UK radiator manufacturer to achieve the BS EN ISO 9001 accreditation and all its radiators are manufactured and tested in accordance with BS EN 442. Equally important is investment in new technology and processes. We continuously invest very heavily in new technology which gives us very high efficiency in our plants, making us very competitive.

“Looking to the future, we aim to increase our market share in Ireland and UK and believe that we will achieve significant growth by the end of summer 2008 when the Newport plant will be fully functioning. The new plant will also give us the means to expand into the Eastern European market and to become a well-known provider of high quality radiators among its prospective customers”, concludes Séamus.

Contact: Séamus McMahon, Quinn Radiators.
Tel: 078 - 8438 5729.
email: mcmahonspl@quinn-group.com

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siemens trv’s — no slots!

As well as featuring an elegant design, the RTN51 sensing heads supplied for use with Siemens Building Technologies’ thermostatic radiator valves (TRVs) have no slots or apertures. The sensing element is, therefore, fully protected against contamination, ensuring consistent temperature control and minimum maintenance requirements.

The slotless construction of the sensing head also allows easy and effective cleaning, a major benefit in applications such as hospitals and residential homes, where hygiene is of particular importance.

In addition to the standard arrangement with integral RTN51 sensing heads, Siemens TRVs can also be used with RTN71 remote sensors. Suitable for mounting up to two metres away from the valve itself, the remote sensors provide enhanced measurement of the overall room temperature, making it easier to optimise comfort levels.

Also available are RTN81 wall-mounting remote sensors which incorporate setting facilities. These are particularly useful where the occupants of the premises have difficulty in bending to reach conventional TRVs which are fitted close to floor level. Like the RTN51 and RTN71 sensors, the RTN81 types incorporate a frost-protection function and offer easy rotary setting with a numbered scale to aid adjustment.

These Siemens TRVs are available in a wide range of types to suit every domestic and commercial application. All are reversible, allowing them to be fitted in either the flow or return path, and all incorporate options for limiting the setting range. In addition, the valves provide facilities for fast, straightforward presetting of kv values without the use of tools.

Another development from Siemens Building Technologies is the use of menu-driven technology, similar to that employed in mobile phones, to make programming of domestic hot water and central heating systems much easier.

Siemens has ensured that ease of use by the homeowner has been carried through all aspects of the controllers. The liquid crystal display, for example, is larger in size than the average controller and is easier to read with a backlit display.

Programming flexibility has been built-in with up to three on/off settings, a three-hour boost facility and holiday programming that covers daily, weekday/weekend and seven-day schedules.

Simple push buttons on the front of the controller enable it to be programmed in situ or it can be removed from the backplate for remote programming.

With the introduction of these new controllers, the homeowner can take advantage of familiar menu-driven programming that will enable domestic hot water and central heating schedules to be changed at will.

Meanwhile, the installation contractor has the flexibility to programme the system either on or off site.

Completing Siemens’ cutting-edge portfolio is the new range of motorised valves. These come with demountable actuators for ease of installation and maintenance and, when used in conjunction with Siemens thermostats and programmers, provide automatic control of heating and hot water.

Contact: Dave McMenamin, Flakt Woods Ireland. Tel: 01 - 463 4600; email: david.mcmenamin@flaktwoods.com

The RTN51 sensing heads supplied for use with the new TRVs from Siemens Building Technologies have no slots or apertures.

The new CZV 2-port motorised valve.

New time controller RWB29 from Siemens Building Technologies.
Modern day comfort with the heat from cast iron
Radiators & Controls

jaga oXygen — healthy warmth & clean air

with heating, ensures a draught-free temperature throughout the year. Too much CO₂ in the air indoors can lead to headaches, nausea and impaired concentration. In addition, high humidity means condensation — an ideal breeding ground for mildew and the dreaded dust mite. The solution? Monitored, balanced ventilation, which supplies only clean air when needed, keeps noise out and saves energy.

Room by room, CO₂ sensors and/or hygrostats on each Jaga oXygen radiator continuously measure the composition of the indoor air and speed up the replacement of old, stale air with fresh, clean air.

The four key elements of Jaga oXygen are:—

— oXygen Refresh: Decentralised supply units,

— oXygen Master: The central control unit

— oXygen Exhaust: The extraction unit takes stale air from "humid rooms" such as the toilet, bathroom and kitchen through ducts. The hygrostat-fitted version measures the humidity and automatically increases the input of fresh air into humid rooms during cooking, showering, etc.

— oXygen Sensor: Sensors and/or hygrostats continuously measure the air quality and/or humidity and control the entire system.

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The Jaga Low-H₂O radiator with oXygen air freshening unit built in

The CO₂ sensor measures the exact quantity of carbon dioxide in the air to determine the optimum air supply and extraction rates.

Jaga oXygen, the low-H₂O radiator with intelligent air-replacement system from Versatile, creates an energy-efficient, demand-controlled cycle of fresh, clean air for the home, school or office. Moreover, the acoustic design efficiently suppresses external noise, making it an extremely quiet system. The air supply system is incorporated inside the radiator and this, combined

The Jaga oXygen Low-H₂O radiator in a classroom setting
Exquisite Styling

Simple Yet Innovative

Expressive Designs

Optimum Outputs
Quinn Merriott — flexibility of form combined with competitive prices

The Merriott Design brand is an integral part of Quinn Radiator Division of Quinn Group. Following its acquisition from Barlo Group the portfolio has been further enhanced with the addition of new products, making for a comprehensive range and style of radiator.

Quinn Merriott’s primary focus is in the specification sector of the industry where it enjoys a leading position which it achieved by combining the products’ integral flexibility of form with competitive prices and short lead times. This industry sector is becoming more focussed on design and a manufacturer needs to be able to custom-make a product to suit building features or requirements. Quinn Merriott are experts in this field.

Increasingly, interior designers are becoming involved in the choice of radiator style and colour. Quinn Merriott has responded to this by offering more dynamic styles and colours to suit these particular requirements. Quinn Merriott is rapidly becoming the choice for the high-end domestic sector.

Quinn Merriott radiators were chosen for the Spencer Dock Project in Dublin’s docklands. This is the biggest single order Quinn Merriott radiators have won and features horizontal panel radiators manufactured from high-test pressure steel. It is also supplying to houses and apartments in Bloomfield Donnybrook, Castleknock, Druids Glen and Drumnigh Woods.

Within the medical sector the Quinn Merriott LST panel is one of the most robust and versatile available, offering unrivalled styles and a range that can resolve any application. The Quinn Merriott column radiator is an ideal companion for the LST, affording full cleanliness to be achieved. Quinn Merriott LST and column radiators can be found in the Hermitage Clinic, The Whitfield Clinic, Cork City Hospital and Portlaoise General Hospital. Quinn Merriott has achieved particular success in the sector over the last number of years and has supplied radiators to virtually all Hospitals in the country in recent years.

The Quinn Merriott range of radiators offers extensive choice and value for clients. The benefit of being part of the Quinn Group is that the extensive resources and investment potential are available for the future development of the business. The close relationship it enjoys with its sister company enables it to offer the Quinn Roundtop and Trendline radiators as part of its portfolio where necessary.

Contact: Frank J. Donohoe, Quinn Merriott.
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Mobile: 086 257 6854.

December 2006
Made in Ireland.
What could be more fitting?

Only Myson supply 1/2" Plastic Pipe Valves directly from their new state of the art factory at Newcastle West, Co. Limerick, including the robust Matchmate and the ever popular TRV2WAY.

Built specifically for the Irish market, these valves follow the Myson tradition of quality, service and product development which has led the company to become one of the most trusted and leading heating controls manufacturers in Europe.

Myson Plastic Pipe Valves. Made here for you.

Visit www.mylon.ie for more information.
Exhaust Air Heat Pumps — The Basic Principle

Since the early 1980s there has been much discussion about Sick Building Syndrome (SBS). This refers to allergic disorders, and even illness symptoms, which frequently occur in certain buildings and rooms. This can lead to chronic illness, reducing a person’s ability to work and function in general. Paul O’Donnell of Unipipe suggests that he use of exhaust air heat pumps offers a solution to this problem.

However, before explaining the principle of exhaust air heat pumps, it is important to understand to impediments which stand in the way of achieving a healthy, balanced, indoor environment.

Basically, the following potential risks to people’s health are to be found inside buildings:

- Toxic pollution caused by harmful chemical substances and dust;
- Effects of noise, light, odours, dampness and climate;
- Accumulation of microbes (bacteria, viruses, mould) in terms of infection risks;
- Exposure to allergens.

These pollutants vary considerably according to the inside climate conditions, the state of ventilation and the design and use of the inside area. When energy-saving measurements were introduced in the early 1970s, considerable efforts were made to improve the insulation used in the construction industry. This led to a reduction in the air exchange rate inside buildings. From a health and allergy perspective, the ideal air exchange rate would be 0.5 - 1.0, but in actual fact, air exchange rates in appropriately insulated houses are only between 0.3 and 0.5, which means that the polluted inside air is exchanged far too infrequently.

Based on the reasons given above, an increase in the incidence of complaints affecting the population was inevitable. This is where controlled domestic ventilation has a particular role to play. Its purpose is to control temperature and dampness, while ensuring that the quality of the inside air is totally hygienic. The relevant technical guidelines and hygiene regulations are stipulated by DIN 1946.

Ventilation

In every building there is a certain amount of basic ventilation, even if it is only produced by air coming through windows, doors, pipe ducts and walls. This type of ventilation, in older houses in particular, provides the necessary exchange of air.

Ventilation is also provided through opening windows and doors, perhaps also when one or more windows are opened at an angle.

This uncontrolled ventilation also accounts for a significant part of the heating costs and causes a considerable proportion of non-renewable energy resources to be wasted.

Low-energy house

In contrast to this there is the low-energy house concept. A construction design is used in this type of house which prevents heat from escaping through effective thermal insulation. This also means that low-energy houses benefit the environment. But even with this construction design, there is still the problem that the required hourly air exchange rate of 0.5 - 1.0 is not achieved.

To achieve the required air exchange rate either the windows would have to be...
opened, which would run counter to the whole low-energy house concept, or installing a controlled domestic ventilation system with heat recovery would have to be considered.

**Controlled domestic ventilation**

Controlled domestic ventilation can be used in both low-energy and older houses. In low-energy houses the controlled ventilation system guarantees the required air exchange rate, even with the doors and windows closed. When older houses are renovated better thermal insulation could be used, along with fitting new windows to enable controlled domestic ventilation to achieve the necessary air exchange rate. These types of older building are often affected by street noise. A ventilation system would therefore be beneficial in these cases too.

**Controlled domestic ventilation with heat recovery**

When ventilation based on opening windows and controlled domestic ventilation without heat recovery are used, the energy from the inside air is not used. The ventilation heat requirement accounts, however, for a considerable part (40 - 50%) of the total heat requirement.

In contrast to this, controlled domestic ventilation with heat recovery reuses the energy from the exhaust air. Not only that, the additional heat generated internally from lighting, people and domestic appliances is also utilised through heat recovery. Nibe exhaust air heat pumps facilitate heat recovery and supply the energy recovered from exhaust air for the domestic hot water, and even the heating.

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**Figure 1** illustrates what proportion of the total heat requirement is provided by domestic ventilation with heat recovery supplied by the Nibe 315P and Nibe 600P pumps. Using this unit it is possible to supply a far greater proportion of the total heat requirement with the heat pump.

Not only does energy recovery ensure a healthy and comfortable form of heating, it also produces considerable savings in terms of heat energy and CO₂ emissions.

**Function of the cooling circuit**

The indoor air passes the evaporator at room temperature. Energy is emitted here. The indoor air is then released. Another fluid circulates in the heat pump in a closed system with the most important characteristic of having a low boiling point. This fluid is the refrigerant.

When the refrigerant reaches the evaporator, which has received energy from the room air, the refrigerant evaporates. The vapour is fed to a compressor where it is compressed. This results in a high increase in temperature. The warm refrigerant is fed to the condenser, which is positioned in the boiler water. Here the refrigerant gives off its energy to the boiler water, so that its temperature drops and the refrigerant changes state from gas to liquid. The refrigerant then goes via filters to an expansion valve, where the pressure and temperature are further reduced.

The refrigerant has now completed its circuit and is once more fed into the evaporator where it is evaporated yet again due to the effect of the energy that the collector has carried from the energy source.

For further information on exhaust air heat pumps, Paul O’Donnell, can be contacted at Tel: 0 - 286 4888.
RACGS news

racgs members brave the elements at rosslare

The RACGS Christmas outing was held in Rosslare Golf Club with the day being sponsored by Refrigeration Skillnet. It is said that the course never closes and, as if to prove the point, the elements threw everything it had at it. Nonetheless, 30 brave souls took up the challenge, the strong winds perhaps being the greatest hazard.

In the end the competition was won by RACGS Secretary Mark Kiely of Gasco, who also collected Golfer of the Year on the day with a tremendous winning score of 39 points (pity you are not the handicap secretary Mark!).

A very special prize was awarded to Garrett Keenaghan for the "Longest Drive" (see Plumblines, page 38).

Following a hearty dinner and the presentation of prizes, the AGM was held and the committee for 2007 elected. The only change was that Dominick Ward stepped down as Captain and Ger D'Arcy took up the position.

RACGS looks forward to some more great golf and fantastic venues, including Fota Island, in 2007. Perspective new members should visit web site www.racgs.com and register their interest in joining.

Stephen Mulvany, Liam Hoctor and Ian Hanrahan model the latest rain wear.
Mr TJ Walsh, President of the Master Builders & Contractors Association (MBCA), has called on the Government to put a hold on the new construction contracts planned for January 2007.

Speaking at the Association’s annual dinner, Mr Walsh stated that the timing of the proposed introduction was “completely wrong and would undermine the entire contracting industry”.

According to Mr Walsh, the proposed contracts lack the checks and balances in contracts implemented in other jurisdictions, and indeed of the existing GDLA or IEI forms of contracts. The level of risk transferred to contractors by the new contracts is excessive and the huge administrative burden that will be placed on companies is wholly inefficient and unnecessary.

“Rather than adopt the type of partnering approach that has proven successful in Britain and elsewhere”, says Mr Walsh, “Government in Ireland has opted for this far more confrontational approach that seeks to transfer risk that simply cannot be foreseen or managed to contractors. A key principle of any contracting arrangement is that the party best positioned to manage risk should do so. These new contracts turn this on its head and ask contractors to gamble on the future of their businesses and the livelihood of their workers”.

The big concern for the MBCA is that many small and medium-sized contractors spread throughout the country will be unable to compete in this environment and that the structure of contracting in Ireland will be irreversibly changed as a result. Traditionally, companies with a small capital base have been able to successfully compete for, and complete, large public contracts. This has provided for competition in the industry and for a spread of contracting employment throughout the country. Mr Walsh maintains that this situation will be unsustainable under the new contracts.

“I am fully aware that contracting is a very complex process and many of its nuances will be unfamiliar to those outside the industry”, said Mr Walsh. “However, people understand the principles of fairness and equity. The range of risk that contractors are being asked to take on includes issues such as unforeseeable archaeology, unforeseeable ground conditions, the location of services, the risk of delay and disruption over which contractors have no control, the risk of the employer not having the appropriate consents and authorisations in place, and the risk attaching to legislative enactments that are ultimately controlled on the public side.

“Clearly, the new contracts are neither fair nor equitable. The timing of the decision is therefore especially perplexing. The industry has just delivered on the most ambitious infrastructure development investment programme ever undertaken in Ireland and, as the experience of the National Roads Authority shows, projects are being completed on budget and often ahead of time. They achieved this by successfully fine-tuning their existing forms of contract”.

Mr Walsh has called on Government to re-engage with the industry to arrive at workable solutions that will ensure greater price certainty and says that this objective can be realised without endangering the industry’s viability.
Don Byrne Bows Out in Style

It was fitting that Don Byrne, in the year of his retirement, was the guest speaker at this year’s CIBSE Celebrity Lunch. Don is indeed a celebrity, not so much in the modern superficial sense of the word, but more in the sense of its true original meaning. In his address to the distinguished gathering — which included some of the industry’s founding fathers along with many of today’s leading young engineers — Don gave an excellent resume of the development of building services in Ireland over the last 30 plus years.

The amusing side references, both personal and business-related, clearly encapsulated just how far the industry has come, while he was also very generous in naming those whom he said made it all possible. His natural modesty forbade him including himself in the latter category but rest assured, Don, you too are part of that exalted company.

The industry is indebted to you for your massive contribution to the development of building services in Ireland. Hopefully, it will take heed of your concluding suggestion that greater integration of the various disciplines involved is essential for future development.

Back row: Michael McDonagh with Ted Bourke, Ben Costelloe, Eoin Kenny, Seamus Homan, Pat Lehane and John Cuthbert. Front row: Brian Geraghty with Rachel Byrne, Don Byrne, Helene Byrne and Margaret Dolan.

Eugene Philips with John Doherty, Michael Geraghty and Kevin Kelly.

Joe Donnelly with Sean O’Toole, Derek Myers and Michael Cullen.

Robert Holland with David Roome and Robert Daly.

Tony Grey with Billy Forsythe, David Pepper and Des Prendergast.

Michael McDonagh with Tom Kelly, Ted Bourke, Bob Cuthbert, Seamus Homan, and John Cuthbert.
Mention Kung Fu and/or Kick Boxing and most people immediately think of action-packed fighting scenes and violence. However, Stephen McDowell of Calpeda (Ireland) says it is nothing of the sort. Stephen has been practicing the gentle art of Kung Fu for a number of years now and, while he acknowledges its attacking elements, he emphasises that the core discipline is more about controlled aggression with a view to self-defence.

Stephen trains at least three times a week — for two hours on Tuesdays and Thursdays and for three hours on Sundays. The training is designed to strengthen and develop what is known as the “three treasures” — the mind (shen); body (jing); and spirit (chi) of the practitioner through vigorous training, forms practice and Chi Kung.

For example, a person whose jing is full is physically fit and healthy; one whose chi is plentiful is emotionally stable and full of vitality; and one whose shen is abundant is mentally fresh and spiritually mature. Hence, says Stephen, Kung Fu for him is more about lifestyle and his whole way of living and working.

Stephen is a member of the Boyne Valley Martial Arts School whose Head Instructor is Derek Dawson and the style of Kung Fu practiced is the system known as Lau Gar Kuen. Derek holds a 2nd Degree Black Sash in Lau Gar Kung Fu and also holds a 1st Degree Black belt in Kick Boxing. Both the traditional (Kung Fu) and sporting (Kick Boxing) aspects of the Lau Gar system are taught at the club.

Practical, effective self-defence techniques drawn from both these aspects of training are also taught. Weapons training is undertaken by advanced students (yellow sash and above). Stephen was at the yellow sash stage as we went to press but was just about to undergo testing for his Purple sash (which he was quite confident of achieving). True to the whole ethos of Kung Fu, Stephen is now also acting as an assistant to Derek during his teaching sessions with younger members of the club.

A typical training session starts with a gentle warm up followed by cardio-vascular training for fitness and stamina. This is followed by stretching for flexibility and the remainder of the class is spent training in traditional Lau Gar Kung Fu, Kick Boxing and self-defence techniques. Some form of sparring is normally done at the end of a class as it is a useful training tool for the development of speed, timing, power, control and stamina.

Just to complete the biopic, Stephen hails originally from Newry, Co Down, and came down to Dunshaughlin in 2002 to take up an appointment with Graham Fay at Calpeda (Ireland) Ltd. He has been an integral part of the company’s rapid growth over the last six years and attributes his ability to contribute so effectively to his involvement in Kung Fu. Not surprisingly, he advises that everyone should at least take a look at Kung Fu, not just for the physical activity but also for the mental and spiritual side. What better place to start than by logging on to www.boynevalleymartialarts.com.
Wavin's Moveable Billboards

If you see a Wavin truck with what appears to be picture of liquorice allsorts, a Swiss army knife, a map of Carbon Neutrals Stamp Duty
At a time when the nation in Ireland is up in arms over the Government’s failure to reduce stamp duty in the recent budget, the British Chancellor has announced that new homes in the UK will be exempt from stamp duty if they meet carbon-neutral certification criteria.

But is Joe Public in the UK happy? Not

Dublin’s Operation Freeflow or a full Irish breakfast, your eyes are not deceiving you. It is part of the latest Wavin Ireland promotional initiative which uses its haulage fleet to advertise its products.
Wavin was considering an outdoor advertising campaign to promote its brand and products when some bright spark realised it already had a very effective advertising channel at its disposal — its own fleet of 24 trucks. Simple ... but oh so clever!

on your life. Most commentators regard it as nothing more than a gimmick, saying that it would be far more productive to give financial incentives to all home owners to adopt energy-efficient heat and power systems.

So, it would appear as if what they’ve got, we want, and what we have, they want!

LONGEST DRIVE — PAR EXCELLENCE!!!
Congratulations (or should it be commiserations?) to Garrett Keenaghan of DIT on registering the Longest Drive in relation to the recent RACGS golf outing in Roscrea. Garrett’s drive took in the scenic route via Roscrea — yes Roscrea — and that was before he presented himself on the first tee.
Poor Garrett got his wires crossed and drove all the way to Roscrea Golf Club from his home in Wicklow when all he had to do was pop around the corner to Rosslare Golf Club. While he may not have hit a ball on the day, he still managed to register a Longest Drive record which is unlikely to be repeated, let alone bettered, at any future outing.

ONE MAN’S LOSS
Well, maybe not all English football but at least one club, Ipswich Town, has embarked on a green campaign which it is hoped others will follow. Energy company EON is the club's sponsor and it has come up with a scheme whereby EON will contribute a five-figure sum to the club’s transfer fund if certain green objectives are met.

Fans are being asked to make energy efficiency pledges which include taking the bus to games and installing low-energy light bulbs in their homes. Weekly draw prizes for the fans include energy-efficient kettles, energy-efficient light bulbs, and free loft insulation.

The objective is to save 3200 tonnes of carbon dioxide a year. With 4900 fans already signed up, the scheme proves that imaginative, simple-to-operate schemes can very often be far more productive than lofty, grandiose projects.

20 YEAR AGO TODAY!
"Oh those really were the good old days" I can almost hear Jim King say as he looks at this picture. Despite the grainy black and white photograph, he still cuts a dash as he makes a presentation to Tony Gillen following a BTU outing at Royal Dublin in 1986.
High performance
high specification
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High energy efficiency
air conditioning systems
from 14.0kW - 136.0kW
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