1-1-2005

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Pumps & Circulators

Pipework & Drainage
The more intelligent system wins.
The fastest underwater hunter is the shark. Its skin possesses excellent characteristics which enable the resistance to tides and currents to be minimised. The skin's surface is not smooth but scaly. Today airbuses are encased in a similarly-structured film, which results in a saving of up to 10% of kerosene. Mother Nature demands top performance at all times in all places while expecting, at the same time, the lowest energy consumption. This is the ambitious goal that WILO also aims at in its research and development programmes. With its high-efficiency pump, Stratos, WILO has introduced a new yardstick.

Experience the technology of the future. The Wilo Stratos pump saves up to 80% of energy. It heralds the beginning of a new era of pumps, the generation of the high-efficiency pumps. Place your order for the High Efficiency folder with its wealth of information. And on Wilo's "Green Pages" on the Internet, you can find a list of qualified High Efficiency engineers and analysts.

Further details can be obtained from:
Phone: 061-227566
Fax: 061-229017
www.wilo.ie
OPINION

Registration and Traceability Key

With the Natural Gas Safety Bill now imminent, the domestic installation sector will finally be in a position to ensure proper registration of qualified installers and the traceability of appliances sold on to the marketplace.

The CER is currently considering all submissions made in response to its Consultation Document — Paper 04/355 — and will undoubtedly take on board the legitimate areas of concern and anxiety raised by the various interested parties.

It is disappointing that some of the bodies who should have made a submission failed to do so but, encouragingly, the REGII submission covers all the primary issues. Moreover, it was devised following nationwide consultation with quite a number of industry sectors and so represents a consensus opinion.

This, coupled with the quality of the submission and the professionalism with which it was put together, represents a quantum leap forward, not only for the domestic sector, but also the industry at large. See page 20 for the full submission.
Heritage Service Northern Ireland. These climatic changes indicate serious implications for water management policies — both for the quality and supply of water — in new and existing industrial and housing sites.

The Aquacell Stormwater Management System from Wavin has been developed to provide a method of source control in two ways. One is by providing temporary storage for excess flows and limiting outflows to streams and rivers, and the second is by providing soakaways to infiltrate stormwater back into the ground. This also helps recharge the local groundwater.

Contact: Wavin Ireland. Tel: 01 - 841 5000; email: ie-info@wavin.com

Rainwater No Storm in a Teacup!

During the past few months Wavin has taken in 12 venues throughout the country with its Aquacell Roadshow. The roadshow was arranged primarily for those with an input and involvement in stormwater management planning and system installation. Stormwater management is now a requirement of planning regulations and is an issue of increasing concern for local authorities and building contractors.

According to a recent Environmental Protection Agency (EPA) report, Ireland is projected to experience 10% more rainfall, a higher risk of seasonal flooding, and wetter winters over the coming years. A similar conclusion is contained in a recent report from the Environment & Heritage Service Northern Ireland.

Sponsored by SANYO Air Conditioners

Can you Spot the Difference?

Enter our reader competition and you could win a fantastic Hi-fi in our prize draw. Simply spot the 5 differences between the pictures below.

The changes to picture B are:
1. 
2. 
3. 
4. 
5. 

Name: 
Company: 
Address: 
Email: 
Tel: 

Complete the details, copy and FAX back to BSNews on 01 288 6966

Rules: Competition open to anyone over the age of 16. One entry per person. Entries must be received by 11/01/2005.

Pictured at the Wavin Aquacell Roadshow in Limerick are: Noel Noonan, Noonan Group; Patrick Atkinson, Marketing Manager, Wavin; and Kevin Noonan, Noonan Group
The next stage in evolution

The full range

www.sanyoaircon.com

All round air conditioning by SANYO
**Life-Saving Safegard Systems**

Safegard Systems has developed a unique fire/smoke monitoring and ventilation control IT system that helps save lives and protects vital buildings from serious fire and smoke damage.

The Wicklow-based company designs, develops and markets an innovative PC-based control system (Safegard V3) that stops the spread of fire and smoke through the ducted ventilations systems of vital health, business and IT buildings and facilities such as hospitals, offices and airports, thus potentially saving lives.

The Windows-based system can be incorporated into a building’s ducting and is designed to automatically close off ducts in a room when an emergency alarm is activated, which prevents the spread of smoke and fire from one fire zone to another. The system also automatically alerts the engineering systems in a building that there is fire/smoke in a particular location.

Safegard V3 is regarded as one of the most advanced damper control systems in the world. According to Safegard Systems, the benefit of the V3 system is that it provides building managers with an easy-to-use and flexible system that has the ability to ensure the safety of staff throughout a building, as well as reducing the damage and downtime that a building might suffer in the case of a fire.

Contact: Shaun McGill, Safegard Systems. Tel: 01 - 276 1600; email: info@safegard.ie

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**Radiator Style Cast in Iron**

For years cast iron radiators have been used by architects and designers to reflect a timeless, classic elegance whereby efficient heating is combined with radiators which add character to home and office interiors.

Radiator-Plus specialises in the provision of such cast iron radiators, offering a vast range of styles and designs, from the ornate Venetian range through to the more classic look of the Georgian, Heritage and Bohemian collections.

"At Radiator-Plus we aim to provide total heating solutions rather than merely supply the basic products", says Director Peter McKeon. "To that end we have an extensive choice of leading-brand names to choose from, along with an equally-extensive range of complementary accessories such as Danty solid brass rad valves and claw cast iron feet. We provide design and product selection support, advising on the suitability of the different ranges for particular applications”.

New products are always being added to the portfolio, the latest being the Termo-san range of towel warmers and bathroom radiators. Apart from the standard range, customised designs can also be provided.

Contact: Peter McKeon, Radiator-Plus. Tel: 01 - 287 8077; email: info@radiatorplus.ie

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**Eliminate Stress — Develop Resilience**

The European Union estimates that work-related stress affects at least 40 million workers in its member states and that it costs the European Union at least €20 billion annually (The International Labour Organisation).

Developing the ability to eliminate stress is a core skill and, with that objective in mind, a seminar called “Eliminate Stress — Develop Resilience” will be held in Bewley's Hotel, Ballsbridge on Wednesday/Thursday, 23 & 24 February next.

This 2-day programme will show that freedom from stress is a practical proposition. Contact: suzanne@highperformance.ie; Book Online — www.highperformance.ie

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**Rogers Joins AASL**

Simon Rogers has been appointed Contracts Manager at Architectural Acoustic Solutions Ltd. Simon has 20 years of management experience within the construction industry, both in Ireland and the UK. He has worked on all manner and scale of projects, from million euro schemes right up to multi-million euro projects, such as Terminal 4 at Heathrow Airport in London. His experience is also very broad, taking in insulation, roofing and acoustics.
1 in every 7 air conditioners sold globally is an LG unit
Put your trust in LG – you won’t regret it.

SALES ENGINEER

Applicants must be energetic, a self-starter and currently selling to
HVAC Consultants,
Contractors, Refrigeration Companies and Installers.

A good working knowledge of the Mini Split/ HVAC/ VRF market
would be an advantage.

Position involves selling to our existing Mini Split Dealers and taking a
lead role in launching the NEW LG VRF system on the Irish market.

Attractive Salary offered with Commission Scheme and usual benefits.

CV’s to :-
Austin Mc Dermott.
Fax 01-4098916.
e-mail : Austin@coreac.com
Typically, in an average office block application, the chiller size — and therefore electrical requirement — can be reduced to less than 50%! The real gain nowadays is not so much the low night rate but the overall maximum demand reduction.

Contact: Gerry McDonagh/Seamus Kerr, RSL.
Tel: 01 - 450 8011; email: gerry@rsлинeland.com

The use of ice storage in air-conditioning applications, office blocks etc., has started to become significant in Ireland. Gerry McDonagh of RSL, the Baltimore Aircoil (BAC) representative, has been preaching the advantages of this technology since the seventies.

In the process industries, where large peaks of cooling are required from time to time, it has always been the standard but in the HEVAC area there has always been a reluctance to adopt ice storage. Designers always think in "chiller" terms, where the peak load is the determining duty factor whereas ice storage requires that the whole cooling requirement be looked at on an hourly basis in order to get at the complete profile.

BAC has computer programmes to simulate almost any HEVAC application and arrive at the optimum chiller-ice storage combination. There is also a dedicated engineering department at its Brussels office which only handles handling ice storage enquiries.

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Contact: Alan Hogan, Precision Heating.
Tel: 01 - 842 8763; email: ahogan@precisionheating.ie

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Digihelic Differential Pressure Controller

The Dwyer Series DH Digihelic differential pressure controller is the ideal instrument for pressure, velocity and flow applications, achieving a 0.5% full-scale accuracy on ranges from 5" to 100" wc.

The Digihelic provides a 4 - 2 mA process output, two SPDT relays with adjustable dead bands, and a selection of pressure, velocity or flow operation. Units operate from either 120/220 VAC or 240 VDC.

Programming is easy using the menu key, which covers — security level; set point or set point alarm operation; auto or manual alarm reset; English or metric engineering units; K-factor adjustment for use with various pitot tubes and flow sensors; and circular or rectangular duct size for volumetric flow operation.

Features:
- Field programmable for pressure, velocity or flow operation;
- 4-20 mA process output; Two SPDT relays with selectable dead bands;
- Retrievable peak and valley readings;
- 0.5% full-scale accuracy sensor;
- Modbus communications;
- Compact: 1/8 DIN housing with NEMA 4X (IP66) front face.

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

Refrigeration Handling Training

Refrigerant Handling: City & Guilds 2078, Training & Assessment — This scheme has been developed to reflect the standards of BS5434 (Safety Aspects in the Design, Construction and Installation of Refrigerating Appliances) and the similar European standard EN378.

Candidates for assessment for C&G 2078 must demonstrate that they are competent to handle refrigerants, including both charging and recovery. They must also show their awareness of the hazards of using such refrigerants to themselves, to other people and to the environment.

Refrigeration Technology Skillnet has made arrangements for a qualified City & Guilds assessor to carry out assessments for a limited number of candidates in February 2005. The following package has been designed to assist candidates in their preparations for this assessment.

A comprehensive learning pack will be provided to each candidate at least three weeks in advance of the assessments. This learning pack has been designed specifically for the course for the purpose of self-tuition.

An intensive instructional session will be provided by the City & Guilds assessor prior to the commencement of the assessments. The assessor will provide a talk-through of all the relevant course material and will focus particularly on the core topics for assessment. The session will include practical demonstrations on a test rig. The assessor will also answer any questions candidates may have with respect to the course syllabus or to the assessment.

Each candidate is required to complete a thorough individual assessment, lasting approximately 90 minutes, to test his/her knowledge of the subject. These individual assessments will be carried out on the same day as the overview session. Candidates will receive notification of the schedule for assessment closer to the time.

Candidates who complete the assessments to the satisfaction of City & Guilds will receive the City & Guilds 2078 certificate.

Contact: Enda Hogan, Refrigeration Technology Skillnet. Tel: 01 - 878 3773; email: enda.hogan@dit.ie

Gems Sensors extensive range of water and waste management products is also available from Manotherm.
Southern Comfort

In line with its drive to work with other premium operations in the air conditioning industry, Sanyo Air Conditioners has formed a new partnership with Comfort Cooling of Cork. "We are proud to be able to announce this new relationship and I am sure that Comfort Cooling has a great role to play in our strategy of growth through strategic partnerships with quality companies," explained Barry Hennessy, National Sales Manager of Sanyo Air Conditioners Ireland. "Sanyo Air Conditioners is fully committed to the market in Ireland and we are looking forward to a strong, successful relationship. We are delighted to be associated with the valued reputation and excellent standard of service for which Comfort Cooling is renowned and our direct support will serve to strengthen their success even further."

Tom O’Leary, Managing Director at Comfort Cooling adds: "We have always put a great emphasis on service and feel that this affiliation with a like-minded company such as Sanyo marks a key point in our growth. The development of a direct relationship with Sanyo, known for its technical innovation and excellence, will enable us to further develop a great future for air conditioning in the entire Irish market."

Since committing to Ireland’s air conditioning market by establishing a direct sales operation in 2002, Sanyo has captured a sizeable share of the market, thanks mainly to its product line-up and professional partners. The company’s headquarters in Dublin supports a dedicated national network of dealers and provides expert support and service, while also delivering the Sanyo brand strengths of quality, flexibility and reliability.

Sanyo Air Conditioners has four main product ranges that offer a wide choice of efficient systems for the commercial, industrial, retail and hospitality industries—

- ECOi R410A Electric VRF in both 2 and 3 pipe versions;
- ECO G Gas VRF in both 2 and 3 pipe versions;
- SPW R410A DC inverter commercial split systems;
- SAP R410A single and multi small room split systems.

Comfort Cooling was formed in 1993 and operates from premises in Airport East Business Park, County Cork. The company has built up an established and loyal customer base in the sales; installation, commission and service/maintenance sectors of the air conditioning market. Comfort Cooling continues to grow and has been involved in many prestigious projects in Southern Ireland for a number of blue-chip clients including, Apple, the Allied Irish Bank, Dulux Paints, Pfizer Pharmaceuticals and Smith Kline Beecham to name but a few.

Contact: Barry Hennessy, Sanyo Air Conditioners. Tel: 01 - 456 8910; Tom O’Leary, Comfort Cooling. Tel: 021 - 484 7200; www.SANYOaircon.com
Grundfos TP — Major Step Forward in Efficiency, Energy Usage & Reliability

Grundfos has just completed the introduction of Phase 2 models in its revamped TP range which has now totally replaced the established LM/LP ranges. When Phase 1 of the replacement process was first unveiled, the Grundfos TP range of pumps represented a major step forward in high-efficiency in-line pumps that save energy and boost reliability.

Now that Phase 2 has been completed, the extended TP range means that consultants and end-users alike can avail of pumps which offer a dramatic reduction in the life cycle costs. This is because all models in the TP range offer low installation costs, low energy-usage costs, low maintenance and service costs, and high reliability. Grundfos in-line TP pumps are ideal for commercial building services, industry and water treatment for applications such as heating, air conditioning, pressure boosting, waste water and building management systems. They give measurable savings on energy costs because of their efficiency and (with the TPE series) because of their use of electronic speed control. Electronic speed control means that pump activity never exceeds the needs of the workload at any given time.

Grundfos in-line pumps also boost the reliability of pump systems. They feature a unique, mechanically-optimised integration of the shaft and coupling to reduce vibration, friction and wear. Grundfos has solved the traditional problems associated with integrating coupling and shaft by welding the coupling and shaft together, thus creating a completely stable mechanical unit. This reduces the wear on both motor bearings and the shaft seal.

Another benefit is that the pumps feature high-quality cast iron surfaces that are cataphoretically treated to make them significantly smoother, thereby reducing friction and improving efficiency still further. This also virtually eliminates corrosion. To increase corrosion resistance still further, as well as optimising the adhesion of the cataphoresis treatment, all pump parts are coated with zinc phosphate.

The result is a significantly-higher protection rating than spray-painted surfaces, according to the standardised ISO7253-96 norm, where Grundfos in-line pumps have a Level 6 rating after 672 hours in a salt fog. In addition, Grundfos in-line pumps are placed in the C3 corrosion class according to the ISO 12944 Standard. They also incorporate important hydraulic improvements, including an optimised "aquadynamic" design of the impeller and pump volute for better flow, with no eddies and a minimum of back-flow.

All Grundfos TPE in-line pumps feature ultra-efficient EFF1 motors that provide the lowest possible energy consumption, even in part-load situations. This also means less heat is generated and cooling requirements are lower. Lower operating temperatures prolong the service life of the motor bearings and the motor requires less frequent lubrication. This saves both time and money on the maintenance budget.

There are four primary sections within the TP range — TP100, TP200, TP300 and TP400 — with capacities from as low as 0.12kW right up to 630kW. Flange sizes go from 1" up to 16" with system pressure of up to 25bar. Motors are either 2-pole, 4-pole or 6-pole.

Grundfos views pumps as an integral part of the overall hydraulic system and, as such, has devised a set of user-friendly aids, complementary to the product range itself, to assist specifiers and system designers in making informed pump selections. These include:

- Grundfos System Guide (ideas for designing hydraulic systems);
- WinCAPS (selection programme for pumps);
- WebCAPS (electronic technical drawings).

Contact: Gordon Barry, Grundfos (Ireland). Tel: 01 - 408 9800; email: info-ie@grundfos.com
Lowara is one of the leading suppliers to the European residential and commercial pump market and is committed to studying, developing, manufacturing and distributing pumps and pumping systems for water technology applications. Founded in 1968 and based in Montecchio Maggiore, near Vicenza in Italy, it has been serving customers and users of hydraulic pumps in various sectors for more than 30 years.

Lowara is part of ITT Industries, the world’s largest producer of pumps and complementary products for water and industrial fluid applications, and serves the global market directly or through the distribution network of other Group companies, Lowara (Ireland) Ltd being a typical case in point.

“Innovation has always been one of Lowara’s distinctive characteristics”, Terry Murray, Sales Manager, Lowara (Ireland), “as the offer of quality needs to be maintained and developed over time. We invest economic, human and technological resources in training and research in order to ensure continuous innovation and improvement of our products and processes. We also share the advanced research, design and industrial engineering skills of other Group companies”.

Lowara pumps are made in AISI 304 and 316 fabricated stainless steel which keeps the water free of contamination. The laser-welding technology creates pumps that are resistant to aggressive chemicals and guarantees that the production process respects the natural environment.

Advanced pump control and regulation systems ensure the safe, reliable and economic use of water.

Lowara’s primary objective is to create new products, perfect quality and performance, and improve operating processes, while all the time considering the likely impact its manufacturing techniques and product performance have on the environment.

The range of products provided and the scope of applications covered is vast, catering for virtually every conceivable market requirement. These cater for water supply and water pumping needs in the residential, building services, commercial, industrial and irrigation market segments.

Products include end-suction centrifugal pumps; close-coupled, inline centrifugal pumps; multi-stage and machine-coolant pumps; submersible, drainage and sewage pumps; borehole pumps; and booster pumps.

All are characterised by innovative features and advanced technology; the Teknospeed series of variable speed electric pumps and pressure booster units being on the latest to come on stream. These single-phase units are designed for residential applications as they provide all the comfort and advantages of constant pressure by way of a frequency converter which is integrated into the pump and which adjusts motor speed when demand for water changes.

Another innovative unit is Hydrovar, the world’s first pump or wall-mounted microprocessor-based pumping system controller.

Lowara Hydrovar, the world’s first pump or wall-mounted microprocessor-based pumping system controller

Contact: Terry Murray, Lowara (Ireland). Tel: 01 - 452 0266; mail: terry.murray@itt.com
Works of genius

Italy, 1501: Leonardo da Vinci decides the world is not yet ready for his latest invention

Introducing the new SE pump from Grundfos

Of course we realise that the new SE pump won’t have the same impact on the world as Leonardo da Vinci’s works. We never wanted it to. Rather, we set out to provide the most inspired heavy-duty wastewater solution available on the market today. We are confident that the result will affect your world. And that makes it a work of genius in our book.

So make an inspired decision. Try the new SE pump. It’s pure genius.
"We move water" is the Wilo business philosophy. Water is one of the most interesting and unusual compounds on earth, and it covers three quarters of the earth. It has properties without which life on earth would be completely impossible. It needs a great deal of energy to be warmed up. This is why the temperature on earth can remain almost constant, when in contrast, temperatures on the moon, which has no water, range from over 150°C during the day to minus 100°C at night.

To survive, people need at least two to five litres of water per day. An average European household now uses about 150 litres of water per day, of which only three litres per person is used for eating or drinking. The rest is used for household, garden, car, washing dishes, clothes and bodily hygiene. Conservation of water and energy resources is now of critical concern and consequently Wilo pumps move water to where it is needed by people – using the latest technology, efficiently, conveniently and without harm to the environment.

Wilo's worldwide know how is incorporated in the development and marketing of pumps and pumping systems for heating, refrigeration and air conditioning, as well as water supply and sewage water disposal applications. This year Wilo Engineering Ltd celebrates 25 years in Ireland, successfully serving the Irish building services market and industry. The company and its partners/distribution network has increased substantially during this time, and is now a market leader. The addition of the Dublin Technical Office in October 2003 to the head office and assembly plant in Limerick, further demonstrated the company's commitment to provide valuable advice and product service to all customers.

As an innovative pump manufacturer, Wilo is at the forefront of product development, bringing the future of pump technology to the market. The Stratos high-efficiency pump epitomises Wilo's technological leadership in the field of glandless pumps and represents an entirely new generation of "high-efficiency pumps". Their ECM (Electronic Commutated Motor) technology and the optimisation of pump hydraulics to reflect this technology enable energy savings of up to 80% compared with conventional pumps. As a result of their glandless design principle, these pumps are maintenance-free and silent in operation. These products also feature markedly-reduced life-cycle costs (LCC).

The further innovation of the Stratos-Z is an adaptation of the Stratos pump technology to drinking water circulation, and thus ensures high efficiency in yet another application. The market launch of the Stratos-Z can be assessed as decidedly positive. High-efficiency pump technology is gradually becoming established in all possible areas. Energy costs can be significantly reduced by the use of the Stratos-Z circulation pump. In order to comply with the requirements of drinking water regulations regarding maintenance of water temperature in circulation systems, water systems must be provided with circulation pumps.

Additional energy saving can be achieved by integrated differential pressure regulation, for example in systems with thermostatically-controlled circulation regulation valves.

European directives and legislation now also dictate the requirement of selecting the most energy-efficient pumps and the Stratos technology is consistent with these guidelines.

Wilo has the answer no matter what the application!

Contact: Wilo Engineering Ltd.
Tel: 061 - 22 7 566; Tel: 01 - 426 0000; email: sales@wilo.ie
AUTOMATIC STATIONS FOR COLLECTING, LIFTING AND PUMPING SEWAGE & WASTE WATER

Whether it is collecting and lifting domestic waste water; collecting and pumping civil and industrial waste water; or collecting and pumping domestic sewage, DAB has the perfect answer. Its specially-designed range of Novabox, Fekabox and Fekalift automatic collection, lifting and pumping stations are designed to provide tailor-made solutions for given applications. They are highly-engineered products, available at competitive prices and with the excellent design and technical support provided by Consolidated Pumps Ltd.

DAB and Consolidated ... the Preferred Choice of All Professionals

Consolidated Pumps Ltd.
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www.consolidatedpumps.com
Calpeda - Over 1000 Different Pumping Solutions

Calpeda Pumps (Ireland) Ltd is a directly-owned subsidiary of Calpeda SpA, the leading Italian pump manufacturer which has carved out a significant worldwide market share over the last 40 years. Graham Fay is the Director for Ireland and, over the last few years, he has reinforced and expanded the brand’s status to a point where it is now challenging the more established brands in the marketplace across virtually all market segments.

"Calpeda Pumps is not just about products", says Graham Fay, "but more about devising and delivering pumping solutions to a wide range of industrial, domestic and commercial customers. To that end we have an established dealer network providing nationwide technical sales, application and installation support across the entire product portfolio. While they carry limited quantities of spares and accessories to respond to call-outs, we hold significant quantities ex-stock at our Dunshaughlin headquarters which can be dispatched anywhere in the country within a matter of hours.

"We are unique in that every unit supplied — from the smallest to the largest — is custom-built at the Calpeda factory and delivered directly to site to coincide with the installation timeframe. This includes pumps requiring special features. All are rigorously tested, both hydraulically and electrically, before being dispatched."

Technological innovation and advanced design epitomise the entire Calpeda portfolio, new products and ground-breaking developments constantly coming on stream.

The scope of the portfolio is all-embracing, and includes close-coupled centrifugal pumps; end-suction centrifugal pumps; horizontal and vertical multi-stage pumps; self-draining whirlpool pumps; self-priming swimming pool pumps; centrifugal pumps with open impeller; self-priming centrifugal pumps with open impeller; self-priming liquid ring pumps; self-priming jet pumps; gear pumps; vertical submerged pumps; submersible drainage pumps; submersible sewage and drainage pumps; multi-stage submersible clean water pumps; submersible borehole pumps; electronic regulator for pumps; pressure boosting sets; and fire-fighting sets.

Applications include:
- Clean liquids without abrasives, which are non-aggressive for the pump materials (solids content up to 0.2%);
- Water supply;
- Heating, air conditioning, cooling and circulation plants;
- Civil and industrial requirements;
- Fire fighting;
- Irrigation.

While the Calpeda range is extensive, there are situations where the most appropriate and cost-effective solution requires a more specialised, application-specific, product. Hence, Calpeda Pumps (Ireland) has secured distribution rights for a number of other, market-leading pump brands. These have been carefully selected to complement the Calpeda range and to strengthen the scope of the overall package offered.

Included are Smedegaard domestic, commercial and industrial heating pumps (glandless and glanded), together with chilled water pumps, HWS bronze pumps and pumps for non-aggressive fluids; and Alma Pompe sewage and water pumps.

Completing the portfolio is the PFG range of break tanks which are essential in devising water supply solutions for major apartment complexes.

Developers and consulting engineers are increasingly turning to Calpeda Pumps (Ireland) to devise, design, supply and install total water supply solutions which comply with the new Local Authority Bye Laws which prohibit direct connection to the mains.

As the foregoing clearly illustrates, the scope of the products and services provided by Calpeda Pumps (Ireland) is all-embracing and proactive. It is dynamic and innovative, the extensive experience and knowledge base of Graham Fay and his colleagues being applied to the strength of the product portfolio to deliver the most cost-effective and energy-efficient solution for each particular application.

Contact: Graham Fay / Stephen McDowell, Calpeda Pumps (Ireland). Tel: 01 - 828 8212; email: calpeda@eircom.net
Lowara (Ireland)

Product Applications

- Commercial and Industrial Buildings
- Irrigation and Watering
- Residential Market
- Industrial Process
- Original Equipment Manufacture
- Dosing
- Wastewater and Sewerage
- HVAC

Lowara (Ireland) Ltd
59 Broomhill Drive
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Over the last 30 years, Consolidated Pumps has carved out a significant market share by combining pumps from leading-brand principals with comprehensive technical support from qualified, experienced personnel. The result is an unrivalled service which delivers tailor-made pumping solutions across all market segments. Among the world-recognised names represented are DAB, Flowserve, Fristam, Viesse, Bornemann and Tsurumi.

The composition of the product portfolio is designed to ensure that all sectors are catered for, including industrial water and chemical processes; sanitary pumps for the food, brewing and beverage industries; construction and sewerage; site-dewatering, well-pointing; handling liquids with solids in suspension; OEM requirements; and domestic applications.

Additionally, Consolidated Pumps provides an extensive range of customised pump packages incorporating the pump, motor and anti-vibration base frames, along with comprehensive after-sales service and ongoing maintenance support. Large quantities of the pumps are held in stock, along with a vast selection of spare parts and accessories.

New products are constantly coming on stream, characterised by innovative features and technological advancements. The newly-introduced DAB Active System is a typical case in point. Incorporating a choice of six specific pump solutions for controlling water, this range of automatic lifting units is suitable for domestic use, small systems for civil, agricultural and industrial use, washing systems and hobby applications.

They are particularly suitable for drawing water from artesian wells or wherever suction difficulties arise as the self-priming, motor-driven pumps will continue to perform even where there are bubbles of air or gas.

The six options comprise three automatic, self-priming centrifugal pumps and three horizontal multi-stage centrifugal pumps with protection level IP44 (IP55 on the terminal board) and certified to Insulation Class F. Operating pressures vary, as do the the pump bodies which are either stainless steel, plastic or cast iron.

Liquid temperatures across the entire range go from -10°C to +35°C (domestic use) and -10°C to +40°C (other use). Maximum ambient temperature for all six models is +40°C.

The Active System is a built-in, easy-to-install and ready-to-use dual-control device featuring an electronic circuit which picks up and processes water pressure flow data, thereby assuring that the pump works to optimum performance at all times.

Even with a minimum water draw by the user, it starts the pump after system pressure has dropped to the set value, which can be adjusted by the user (1.5bar to 2.5bar). Once set, the Active System requires no adjustment or maintenance.

In the event of system leaks, dripping, overflows or small water draws, the Active System limits the number of pump starts. If no water is being pumped, it will instantly trigger, stopping the pump from running dry. Once normal functioning resumes, it automatically restores operation.

Key benefits of the new Active System are constant pressure; compact-sized units; maximum reliability; automatic reset; and adjustable starting pressure.

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https://arrow.dit.ie/bsn/vol44/iss1/1

PAGE 16 BSNEWS JANUARY 2005
Creative Technology

"Over 1000 Different Type of Pumps"

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This is the third in a series of articles on data or structured cabling which began in the May issue of BSNews. The first article by my colleague Gerry Farrelly looked at the increasing demand for connectivity, both in offices and homes, and opened a discussion on the training and skill set of the installers. In the second article Dr Gerald Farrell, Head of the School of Electronic and Communications Engineering, looked at the emerging trends in connectivity and the pros and cons of hard-wired, wireless and power line data transmission systems.

This month I offer a brief assessment of why some existing installations have failed to meet user expectations. In addition, I address the question of levels of skills required by personnel in the industry to meet future needs. The views expressed reflect my experience as an installations contractor and educator.

When the first Cat5 Standard* for structured cabling was ratified in 1995 it established a common standard to which all the main stakeholders in the industry could adhere. However, a large number of untrained installers entered the market at this time and installed what they loosely described as "Cat5 Systems". These networks were initially running on systems that operated at 10-Base T** (10Mbps) and, to a large extent, appeared to be satisfactory.

Problems began to emerge in the late nineties when 100­BaseT*** (100Mbps) became commonplace. A significant number of older systems did not operate properly on the 100-BaseT system that required a faster transmission rate capability. On investigation these older systems did not pass the Cat5 standard tests. This begs the question: "were they tested properly in the first instance"?

In many cases failure was due to bad installation practices such as poor termination techniques and lax cable installation practices. A large proportion of these systems had to be upgraded or replaced by competent installers, a costly and time-consuming exercise.

We are now approaching the next phase in the deployment of network systems where the data transfer rates are increasing to gigabit speeds. This gives rise to a new set of questions:—

— Will existing installations be capable of meeting the demands of such developments?

— Is the industry up to the challenges that face it as a consequence of ongoing change?

— What steps need to be taken now to ensure quality in the future?

These issues can be best addressed through education and training. However, we need to consider the problems of how much and for whom.

To my mind a clear distinction must be made between the requisite skills sets for designers and installers. Each of these requires different levels of knowledge and skill. Although a network may be well designed, unless properly installed it can give rise to dire consequences for the end user, causing major disruption and loss of earnings.

Designers, for
example, need to know about the variety and suitability of cable management systems that are available, but they do not need the skills to install and handle them. The designer should have a knowledge and understanding of the standards with the ability of incorporating these in good design. The designers would need to be able to prepare detailed drawings meeting the customer’s needs while fulfilling the requirements of the standards.

These people will need an understanding of how their design will impact on other building services and an ability to resolve any conflicts in the design. An appreciation of the cost implications of their design would also be important.

The needs of installers present a different set of issues. For example, installers do not need the associated mathematics required for the design of such systems. They do require the skills of handling and installing cable management systems and some knowledge of the principles of balanced transmission cables and the care required in their installation. They would need to have an understanding of the test parameters in the standards and the ability to interpret the results. The installer would also need knowledge of earthing and grounding systems, along with power supplies and protection.

To date training has been provided by the main manufacturers or small private training facilities. There is clearly an urgent need for a recognised national standard for installers but, the big question is, should they be specifically trained for the industry or should they progress from the electrical or telecom trades?

It is my belief that the most suitable model is an apprenticeship, which has at Level 1, a core set of electrical installation skills. The apprentice may now select a number of higher-level modules from a range of options to meet the needs of different specialities, including data cabling systems. Examples of higher-level modules are as follows:

- Data cabling systems;
- Industrial controls and maintenance;
- Fire alarm and emergency lighting;
- Intruder alarm systems;
- Lifts;
- Electrical Installations in specialist and hazardous areas.

This list is not exhaustive but is intended to give an idea of the types of modules that could be available within a Standards-Based Apprenticeship scheme that has the flexibility to address specific industry needs. The modules offered could be available on a part-time basis to allow qualified people to train in other areas to facilitate career advancement and development. To paraphrase the Qualifications Education and Training Bill 1999: “all programmes should allow students opportunities for access, transfer and progression”.

The suggested model would mean a radical change in the electrical apprenticeship area so that the needs of specialist areas, such as data cabling, can be met and the opportunities available to apprentices can be enhanced.

*Cat5 Standard* ISO 11801 (1995) to support 100 Mbit transmissions. As systems have developed new standard Cat5 has been ratified and is known as ISO 11801 (1999). The difference with this standard is that it will support 1 Gig-Bit transmission speed.

**10 Base T**

One of several adaptations of the Ethernet (IEEE 802.3) standard for local area networks (LAN’s). The 10 Base-T system operates at 10 Mbps and uses base band transmission methods.

***100 Base T***

100 Base-T standard is IEEE 802.3u. A networking standard that supports data transfer rates up to 100 Mbps. Because it is 10 times faster than Ethernet, it is often referred to as Fast Ethernet.
The CER’s consultation document — Paper 04/355 — called for submissions from the industry so that all views could be taken into account when drafting the proposed Natural Gas Safety Bill which will have a major impact on how the business operates. Among the critical issues to be discussed are the registration of gas installers and the traceability of the appliances they install.

REGII has been campaigning for such measures for some time now and welcomed the opportunity to make a formal submission. In doing so it joined forces with the Alliance of Plumbing & Heating Contractors in Cork and The Registered Gas Installer Panel as operated and managed by Bord Gais Distribution. Indeed, most of the installers in the two representative bodies are on the Bord Gais Panel.

This coming together of interested parties — and the quality of the actual submission — represents a quantum leap forward for the installer sector. It will undoubtedly yield results and confirms for once and for all that the business has finally come of age.

The following is the full text of the submission.

**Introduction**

We represent installers in Ireland on these groups and as such have canvassed them for their views on the proposed legislation and the CER Paper 04/355. We present the accumulated views of Installers here. It is also important that the CER Paper 04/355 recognises and understands the differences between (a) Installation and (b) Appliance Servicing/Maintenance. Some of our members are Installation only, some are Servicing only and others are Both.

The Installers represented in this response very much welcome this important initiative that installers in Ireland must be qualified and licensed to work on natural gas appliances and systems and encourage the immediate introduction of this Legislation (with a phased implementation as set out below). This will go a long way to improving the safety of natural gas in Ireland. We also welcome the immediate establishment of the new Registration Body that will certify installers.

We do have some additional points we would wish to make on the CER’s Paper and in relation to natural gas safety in Ireland in general.

**Response to Specific Points in CER 04/355**

**Implementation of New Framework**

- We would ask the CER and DCMNR to consider how they are going to implement the requirement that all installers in Ireland must be qualified. We believe that most installers who currently carry out installations and fit appliances in Ireland are not qualified and therefore careful implementation of the requirement is required in order that customer demand for installation can continue to be met. We would suggest that a period of 18 months be
Vision for the Proposed Safety Framework for the Natural Gas Market

allowed for implementation during which time qualified installers could sign off non-qualified installer’s work. This would allow sufficient time for training and qualification to take place and would meet customer demand for gas installation and servicing/maintenance.

Qualification Training

- Qualification training must be “installer-friendly”. Current training schemes are often at unsuitable times (i.e. during the busiest times of the year, during the working day, and never in the summer months when things are normally quiet) and are very costly. This is often why installers are reluctant to go through training courses, as they are required to take time out of their working day and at a significant cost. We would suggest that in order to get the maximum number of installers through qualification for the purpose of this legislation, that training courses are run in the evenings and at a discounted cost. A budget should be provided to fast-track this initiative.

Representation on New Bodies

- The CER states the Gas Safety Committee will play a key role in the framework. As arguably the key group with responsibility for safety, installers believe that we should be given reasonable representation on all new Committees. We would also ask that we be given full input into the terms of reference of the Committees and the Registration Body.

Issues Not Covered by CER 04/355

Traceability of Gas Appliances & Gas Appliance Sellers

- The “gas to gas” market (where a customer replaces an existing gas appliance with a new gas appliance) is now much larger than the changeover to gas market. In the latter type of installation, installations require a meter to be fitted by Bord Gais. Therefore Bord Gais can monitor the safety and quality of work when it fits the meter. However, there is no such means of monitoring the safety/quality of the work done in the “gas to gas” market as no Bord Gais check is carried out. Bord Gais has no knowledge or record of these installations and as such initiatives must be put in place in order to redress this imbalance in the safety assurance program. We believe that in order to improve the traceability of gas appliances that are being sold, the gas appliance seller (Manufacturers, Distributors, Suppliers) should ask for (a) GID proof (ID of Installer Qualification) or (b) an address and verifiable ID from the customer/purchaser of where the appliance is going to be fitted. This would improve safety levels in the “gas to gas” market, as it would discourage appliances from being fitted by non-qualified installers and also enable Bord Gais to access this data for safety inspections. Very little mention is made of the role that Gas Appliance Sellers play in ensuring and promoting safety. As set out above, they clearly have a key role to play at the beginning of the installation process.

Public Awareness

- We believe that the new qualification regime for installers will only work if the new legislation is given sufficient publicity. It is important that careful consideration is given to the public awareness campaign. It would clearly not benefit the industry to “scaremonger” about natural gas safety, however, this will have to be balanced with the need to make the public aware that it is an offence for a non-qualified installer to install gas appliances. Otherwise, those installers who have invested time and money becoming qualified will lose out to a “black market” of non-qualified installers who carry no insurance and are prepared to break the law.
Increased Responsibility on Landlords and Home Owners

- We firmly believe, resulting from both the experience of our members and the feedback from the Safety Assurance Program, that rental properties are a "high-risk area" in terms of natural gas safety. As such obligations and responsibility must be placed on landlords to ensure that the gas installations in their rental premises are safety certified at least every two years.

- Home Owners who have natural gas installations could also take more responsibility for their safety by being required to have them safety certified on a regular basis (e.g. every 2 years). Presently there is a very low take up regarding annual servicing as recommended by manufacturers and we need to change this culture. In addition when homeowners are selling their property they should also be required by law to produce a safety certificate to the purchaser. This is currently the case in the electricity market where a safety certificate is required on a change of ownership (if none exists).

Revisions to Current Safety Standards for Installers

Safety Certification and Liability Issues

- Safety Certification and Liability requires to be addressed for installers under the new framework. We appreciate that many of the rules surrounding this are likely to be developed by the new Registration Body for Installers. It is therefore absolutely critical that installers are given proportionate representation when these rules are being made or revised. One of the main issues, which require revision, is around the issuing of "Conformance Certificates". Currently an Installer is required to sign-off the conformance of a whole natural gas system when in fact he has only fitted one appliance (e.g. a gas cooker). This would clearly seem to place liability on that installer under the new legislation where penalties for breach are significant. Similarly, the certification of the whole system places additional cost on the installer who will only be paid for the installation of the one appliance. Therefore, we believe that a new certification system needs to be developed. Perhaps there should be specific certificates for different jobs i.e. a certificate for appliance installation and a certificate for boiler/central heating installation.

- It should also be established how long certificates are valid - especially given the liabilities that will be involved under the legislation. When does the installer’s responsibility and liability end? In Germany, for example, gas installations must be re-certified every two years by law. In Ireland, the Department of the Environment requires that new cars be certified after 4 years and then every two years subsequently. We believe that these precedents provide useful guidance to Irish natural gas industry. Indeed, the Insurance Industry of Ireland have given us indications that they would look very favourably on a regular safety certification scheme for natural gas systems and that this would reduce home insurance premiums substantially.

Contact

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Ann Mullan. Tel: 086 289 6839
Gerry Marry. Tel: 087 260 1866
Quality Plastics Ltd (QPL) was established in March 1970 and has led the field in the manufacture of high and low-density polyethylene piping and polyethylene damp proof course since then. It was one of the first in the industry to achieve ISO 9002 and BS 5750 accreditation and has always been committed to producing quality plastic goods for the construction, agriculture and plumbing and heating sectors.

State-of-the-art manufacturing and test procedures have ensured that it has consistently maintained internationally-approved certificates for its products over the years. Laboratory facilities within the company ensure careful control of the quality of the Qual-PLAST product range while these resources also contribute to the development of new product lines. Today, more than 30 years later, it is still pioneering new and innovative solutions to meet the industry’s ever-changing needs.

To sustain such a continuous development programme requires ongoing investment and, in the last couple of years alone, QPL has spent in the region of €5 million on new plant and equipment. Significant resources are also allocated to staff training.

One of the most recent and successful QPL products is the Qual-PEX barrier pipe. Qual-PEX is a tan-coloured, crosslinked, polyethylene plumbing pipe which was specifically developed, tested and approved for hot and cold water services, central, and underfloor heating systems. It is designed to suit push-fit and brass compression fittings and manifolds, and is flexible enough to be cabled through awkwardly-placed holes under flooring and threaded behind partition walls and ducts.

Qual-PEX is also available with an EVOH oxygen diffusion barrier layer sandwiched within the walls of the pipe. This protects the layer from physical and UV damage and renders the pipe virtually impervious to gases. It also improves the performance of sealed central heating systems. In 1996 the Qual-PEX Underfloor Heating Department was established. The service provided includes design and supply of the system — including all components (via a Qual-PEX pipe stockist) — which is then installed by the appointed heating contractor.

QPL’s heating engineers design a system to meet the client’s requirement by working in conjunction with them and their contractor. By imputing the key factors into a specialist software package, they determine each zone/rooms’ heat requirements to ensure optimum comfort levels. Full technical support is also provided throughout the installation process.

QPL has also devised a new way of controlling underfloor heating systems. The key to operating an efficient system without the fluctuating ambient temperatures is to forget about intermittent circulation, which applies to conventional heating systems, and instead have a constant water circulation through the floor structure.

QPL’s Automix Series of controllers is claimed to be unique. An electronic programmer is positioned within an index room of the rooms to be heated. This programmer calculates the proper heat output required and continuously resets the mixing valve and thus water temperature. The mixing valve is the most important link between the boiler and the heat distribution system. Continually adjusting the mixing valve setting to suit internal heat requirements provide the most efficient and comfortable underfloor heating system possible.

The overall QPL portfolio includes a diverse range of related and complementary products. What they have in common is that many are innovative; all are manufactured to exacting tolerances and standards; only the finest-quality materials are used; manufacturing techniques and production machinery are state-of-the-art; and the personnel who produce them are highly-motivated, experienced and fully-qualified.

Contact: Karen Horgan, Commercial Director, Quality Plastics. Tel: 021 - 488 4700; email: karen.horgan@qpl.ie

Stocks of QPL's Qual-PEX flexible crosslinked polyethylene plumbing pipe at its headquarters in Cork
Drainage Systems Dublin Ltd is one of Ireland's largest suppliers of drainage and pressure pipe systems. Representing Europe's leading manufacturers, Drainage Systems provides the widest range of high-quality drainage materials to the building services, civil engineering, local authority, and merchant sectors.

Apart from products, Drainage System's team of experts provides assistance in the design of system solutions, along with the selection and specification of those products to best satisfy each particular application. There are six primary Divisions within Drainage Systems Dublin Ltd — civil engineering, mechanical engineering, line drainage, municipal castings, local authority, and architects and engineers.

Among the principal brands represented are Ensign and Aco. Brief details of their ranges are as follows:

**ACO**
- **Fulbora**
  - ACO Technologies has modern state-of-the-art manufacturing plants throughout Europe producing authentic stainless steel products in grades 304 & 316 to a quality system in accordance with ISO 9001.
  - Range includes gullies, modular off-the-shelf and purpose-made channels, gratings, grease traps, stainless steel pipes, covers and frames, silt traps, and a full range of roof and floor drains in aluminium. Full design service and site installation assistance is also available.

**ACO Polymer Channel Drainage**
- ACO drain is the world leader in channel drainage technology, providing quality solutions for any loading, whether it be light domestic, medium urban, or the heaviest highway of airport drainage schemes.

ACO has over 30 years of experience of channel installations, with more than five million metres of ACO channel drainage installed between Ireland and the UK, and more than 100 million metres worldwide!

ACO channel drainage complies with the full range of relevant performance guarantees, including BS EN ISO 9001, DIN 19580, BBA Certification (No. 88/2071) and the forthcoming EN1433.

Ensign cast iron soil and waste system — Ensign offers specifiers and installers a complete cast iron drainage pipe system for above and below ground applications in accordance with the new BS EN 877 European standard.

Fully approved by the British Board of Agreement for soil and drain, Ensign is a lightweight easy-to-install system with a comprehensive but simplified range of modular components. The addition of a number of new fittings enables the use of rodding points, resulting in simplified designs and significant cost savings.

The use of quality-assured manufacturing processes ensures premium quality products with high safety factors providing peace of mind to specifiers and installers of above and below ground drainage. The new high-resistant coating is now standard on all Ensign pipes, which are lined with a new two-part epoxy coating, giving greater performance against exposure to aggressive substances or to high temperature waste.

Availability of the full range of pipe and fittings — from 50mm to 300mm in both above and below ground systems — is guaranteed from the extensive stock kept at Davies new premises in Artane. It is supported by technical and practical assistance by trained engineers who can advise on selection, design and installation of the system.

Among the prestigious where Ensign has already been installed are the Four Seasons Hotel, Dublin; Liffey Valley and Jervis Shopping Centres, Dublin; Coca Cola, Drogheda; Sandoz, Cork; Hilton Hotel, Dublin; Croke Park Football Stadium; and Intel, Leixlip Co Kildare, and many more.

Contact: Sean Cunningham, Davies. Tel: 01 - 851 1800; email @ scunningham@davies.ie
A NEW WORLD IN PLUMBING

Wavin Pex Approved to BS7291-1 2001 Class S has Full Irish Agrément Board Approval.

Wavin Pex is recommended for use with Brass Compression Fittings to IS239 and Tectite Push Fit Fittings.

Wavin Pex is available in Irish dimension 1/2", 3/4", 1" in Coils and Straight Lengths

Wavin Pex is available in all leading Builders and Plumbers merchants nationwide.

WAVIN PEX

We Go Further
Wavin Ireland

Wavin has been the pioneer and leading innovator of plastic pipe systems technology in Ireland for almost half a century. It has now added to that reputation by perfecting a range of cross-linked polyethylene pex pipes in Irish dimensions for plumbing and heating applications. New Wavin Pex Plumbing and Heating Solutions is ideal for those hard-to-reach places that every installer encounters. This new Wavin Pex brings plumbing and heating pipe production to a new level in terms of flexibility, strength and application.

Wavin has rigorously tested and re-tested this pex pipe in extremes of temperature to produce the ultimate pex pipe for hot and cold applications. This is the highest-quality product on the market and it far exceeds the requirements of Class S service conditions as specified in BS 7291-1-2001. It also carries the Irish Agreement Board Certification, Certificate No: 04/0201. It is fully approved for both open and closed central heating systems, underfloor heating, and plumbing applications.

As Wavin Pex weighs only a fraction of the weight of copper, it is lightweight and easily transportable on site. It comes in a range of coil sizes and straight lengths to allow for short and long pipe runs without the use of connectors. Packaged in plastic wrap around with easy access through the centre, it can be uncoiled with little effort. For ease of measurement the pipe has markings every metre.

Wavin Pex is available in a range of dimensions. It is suitable for all plumbing applications and includes an internal oxygen barrier making it the choice for central and underfloor heating applications, as well as tap water installations.

The pipe has been rigorously tested with IS EN 1254 brass compression fittings and Irish Dimension Tectite push-fit Fittings. Copper inserts are required as internal support before attaching a fitting to the cut end.

Wavin offers the full range of Tectite push-fit fittings for use with Wavin Pex pipe. Tectite is ideal when working with limited tool space in those hard-to-reach places, giving more flexibility for better plumbing solutions.

Wavin Pex can be jointed using Wavin Pex brass compression fittings to IS EN 1254. The pipe should be cut smoothly and squarely with a purpose-made pipe secateurs or hacksaw, and may need to be trimmed or filed to allow for a good joint. A copper pipe support insert should be placed into the pipe end after the nut and olive have been placed on the pipe. Push the pipe and olive into the fitting and screw the nut tightly to complete the compression joint.

Over the period of its life Wavin Pex pipe will not be damaged by freezing temperatures. The internal bore is smooth and is not liable to accumulation of scale in hard water areas. Pipes will not corrode under the action of soft water. Thermal expansion is accommodated within the length of a pipe run, reducing movement and subsequent creaking noises on joists, etc. Low thermal conductivity values mean that hot pipes are cooler to touch and the incidence of condensation on cold pipe is reduced.

The Wavin Pex oxygen barrier greatly reduces the ingress of air into the system, thus reducing the corrosion within a central heating system. Wavin Pex has a product guarantee of 25 years against defects in materials and manufacture, and has a life expectancy in excess of 50 years.

Wavin Pex is a high-performance material, which is flexible and durable. Due to its high impact resistance, less damage can be done on site, thus creating less waste.

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Safety Training – to do or not to do?

Training must be provided for new employees, if an employee is transferred to different work or if new equipment or technology is introduced. Such training must also be provided for temporary employees, including those on fixed term contracts. The legislation does not state that the employer cannot deliver this training themselves but the whole area of competency should be looked at first. If the employer is unable to provide the training themselves they can select a consultant or training provider but Section 6(2)(j) of the 1989 Act should be borne in mind concerning competency.

Among other issues to be considered are the following:
- Does the provider hold a Health & Safety Qualification?
- Is he/she a member of IOSH?
- Does he/she hold adequate professional indemnity insurance cover?
- Can a client list be obtained for reference purposes?

Training is not only a legal requirement but, where training is given, it can be seen as a positive step towards ensuring the employee’s health and safety. This in turn can lead to high staff morale, lower accident rates and a knock-on effect in compensation.

When the New Bill is published the whole area of competency will be clearly defined in primary legislation. In recent years we have seen the development of the Safe Pass Training Course and the reduction in workplace deaths. While this is positive for the business industry, more stringent duties are proposed under the new Safety, Health & Welfare at Work Bill due in 2005.

In a recent High Court Case Mr. Justice Johnson said “it was not acceptable that the Gardaí were not given the very best of equipment and training”. There was a €60,000 settlement in this case.

Under the new Bill, the expanded employers duties include:
- have employees attend training courses as required,
- provide information and training in a form, manner and language which employees understand;
- to train new employees upon recruitment and employees who are transferred;
- inform employment agencies through whom they may be recruiting temporary employees of the skill required and the specific features of the job.

Employers should be acting now in regard to the new Bill to ensure they are in full compliance.
- All training material, delivery of training and safety statements should be reviewed to ensure they are in compliance with the new legislation.
- A further expansion of the employer’s duties is to ensure that the safety statement is subject to review at least annually and brought to the attention of employees following each review.
What?
Who?
Where?
Go the full distance ...

See inside back over
The CIBSE Annual Dinner, which is for members, their guests and friends, will take place in the Fitzwilliam Hall, the Burlington Hotel, Dublin on 18 February 2005. Dress for the occasion is informal and members are invited to book individual tables to entertain their guests.

The cost per person €75. Cheques made out to the CIBSE Social Account should accompany each request for tickets and be returned to Brian Sterling, L Lynch & Co Ltd, 16 Fonthill Industrial Park, Fonthill Road North, Clondalkin, Dublin 22.

Printed invitations are being prepared and will be forwarded on receipt of a cheque for the appropriate amount on a first come first served basis.

Tables can accommodate 10 to 12 persons. Therefore, it will be necessary for parties of less than 10 to share a table. All attending are asked to present themselves at 7.30 pm for dinner which will commence at 8pm sharp.

The Annual Dinner of the Institution has always been a successful occasion and members are encouraged to attend to make this year’s Dinner an even greater success.

Right: Aidan Mc Donald of F4 Energy in Cork, one of the joint speakers at the New Developments in CHP in Ireland lecture in Kevin St DIT.

Below: Brian Geraghty, Kevin Kelly, Kevin St DIT; Drew Munden from Southampton; Aidan Mc Donald, F4 Energy, Cork; Greg Traynor and Kevin O’Connell, Head of Department, Kevin St DIT. The topic was New Developments in CHP in Ireland and some case studies of current projects being undertaken by Southampton City Council in the UK. Drew Munden and Aidan Mc Donald were the joint speakers.
Another Side of...

On 'Workabout' in Cape Town

When Graham Fay, Managing Director, Calpeda Pumps Ireland Ltd, heard about the magnificent work being done by the Niall Mellon Township Challenge in South Africa, he immediately offered his services, never realising that, within months, he would be acting as Site Foreman overseeing the construction of homes in the township of Imizanu Yethu in Cape Town.

As he joined the other 350 volunteers in Dublin Airport last October his mental image of what to expect was light years away from the reality he encountered on arrival. On first touring the township he was shocked and saddened by what he saw. However, the excitement of the people and the warmth of their reception reinforced just why they were there in the first instance.

Viewing the township from the top of its mountainous location gave a feel for the scale of the problem. The existing shack sizes average 9ft square, with occupancy of between 5 and 7 people with over 14,000 people living on a 50 acre site. In between the shacks are a warren of narrow pathways strewn with rubbish, barbed wire, broken glass, uneven surfaces, no lighting, and an unbearable stench yet the inhabitants were very proud and went to great lengths to keep themselves and their children clean.

Encouraging though was the tour of the homes, now over 350, completed by the previous group of volunteers the year before and it was against this background of what could be achieved that Graham and his colleagues set to work the next day.

The arrival of additional tradespeople — including local south African volunteers, black and white — resulted in excellent progress until, at lunchtime on day four, the heavens opened and led to water flowing in rivers down through the site. In keeping with established Irish construction site practice, everyone adjourned to the local “shebeen” for a few pints. This building was actually one of the previous houses constructed by volunteers and it had been cleverly converted to a hostelry, beer (one type only, though nice and cold) cost 90 cents a pint!

Next day the site was a bit sloppy after the rain but the team got stuck in but once again, on day six, torrential rain again meant little or no work done. Everyone was quite dejected so a trip to the Moravian Primary School, which takes kids from the township, was organised to pass the time. Here again the abject poverty of the people was clearly illustrated. Classrooms are tiny and annual grant aid from the government is only €40 per pupil. Moreover, the local white secondary schools will not take the children when they graduate.

It’s hard not to be moved ... a big “hard chaw” electrician from Dublin is quietly crying. The group had a whip around the site and raised €2,500 for the school to buy materials. However, the money could not be lodged by the school to its bank account as the grant aid would be reduced. So, the volunteers took the school leader to a cash and carry and bought the equipment.

Day seven was officially designated as a day off but, because the rain had slowed progress, most turned in and worked a full day. The same applied the following day, despite it being the day of departure. This last push completed the 50 houses being built.

One last beer at the Shebeen and a bit of classical music played by kids from the local school rounds off the visit, save for the final act of generosity ... virtually everyone gives something away to the locals, be it tools, clothes, boots, hats and t-shirts.

Graham would like to thank everyone from the industry who sponsored him to go on this trip and to remind all readers that a further project will be undertaken in November of this year. Sponsorship — in the form of money, skills and time — are most welcome.

Contact: Graham Fay.
Tel: 01 - 825 8212;
www.mellontownship.com
Plumb Lines

Heard it on the grapevine ...

DOYLE MOVES TO UK
As and from the first week of this month Frank Doyle has moved to the UK to take up a management position with York UK. In his new role he will still be part of the UK and Ireland management team though his successor at York ACR in City West is expected to be announced by the end of the month. Best of luck with the new role Frank.

GRUNDFOS OPEN HOUSE
Gordon Barry recently hosted an “open house” at the new Grundfos Headquarters in Dublin 12. A cross-section of consultants, contractors, merchants and architects enjoyed the fare on offer, and the company. Bottle of champagne for best caption to photograph below. Email replies to pat@pressline.ie

'You Really Do Need Me Denis!' A new TV advertisement for Wavin featuring Irish rugby star Denis Hickie is currently being screened on RTE, TV3, Setanta, UTV, TG4 and Sky.

The new commercial highlights the Wavin brand as a "provider of quality intelligent solutions to the building, construction and utilities sectors". However, word has it that the real motivation for the campaign was for Patrick Atkinson to get the opportunity to demonstrate that he was a "provider of quality intelligent solutions to Ireland’s rugby cause". Patrick is pictured above pleading his case with Denis Hickie at the shoot of the commercial in Old Wesley RFC.

Cork, the fantastic Sanyo hi-fi system is yours. See page 2 for this month’s competition.

SUV TO U TOO
The building services industry — and especially the air conditioning sector — appears to have gone SUV mad. More and more of these massive vehicles trundle up at industry events and, contrary to what is implied, they are not loaded up with products and tool kits but sport state-of-the-art baby seats. I want one too ... the SUV that is ... not the baby seat, or baby for that matter!

CLANCY DOUBLES UP!
This month heralds the beginning of a new era in the life of Michael Clancy of 3D Air Sales (Ireland). Obviously, the more important event was the birth of his second child just before Christmas but, running a close second, was the teaming up of 3D Air Sales and HRP. Congratulations on both fronts Michael.

SPOT THE DIFFERENCE
Congratulations to all who entered the new Sanyo Spot The Difference competition. The good news is that every single entry was correct but that, unfortunately, is also the bad news. With so many names in the hat many were bound to be disappointed as there could only be one winner. So, Dennis Kelly from EG Petit & Company in
All the answers

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