

on air

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The magazine for industrial gases



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Danilo Lukač on their
cooperation in the
meat-processing sector



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Welding and Cutting – united with the future

Advancements in welding and cutting are constantly continuing. In delivering an individually tailored product range, Messer is pro-actively shaping developments in this sector.

Over the years, welding technology has yielded a range of innovations. Our cover picture shows Stefan Messer, CEO Messer Group, presenting our steel cylinders for welding gases.

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On a mission: producing safe food

Igor Kolar, Plant Director at Panvita MIR, and Danilo Lukač, CEO at Messer Slovenia, talk about their cooperation in the meat processing sector.



At Panvita meat products are hygienically packed in a protective atmosphere.

Messer World : 12-14

Serbia fills up with renewable energy

In Novi Sad nitrogen is being used for storing biodiesel.



Rape seed – a basic component of biodiesel

Oxygen purifies drinking water in China

The Changsha waterworks use oxygen in their water-treatment process.

Hot and cold delicacies

Cooking with nitrogen is opening up an exciting world of new culinary treats.

Plant construction at Messer – cross-border cooperation

Messer is building its own on-site facilities for generating nitrogen.



Messer's newly-designed on-site plant

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Tips, events and important news

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Dear Readers,

Welding – the joining of metal pieces with or without the aid of additional materials – has been a feature of our industrial society for over one hundred years. However, the key to this technology lies in the continual improvement of welding and cutting processes to boost productivity, cost-efficiency and quality. This requires intensive co-operation with customers, colleagues and dedicated welding organisations – building up competence which “welds” people together in a common bond.

Once again the protection of human beings and the environment lies at the

heart of a range of new projects being launched by Messer in both Europe and Asia. In Serbia, nitrogen is added into the tanks storing biodiesel and methanol in the production of biofuel. Effectively displacing the air and the oxygen contained therein, nitrogen offers reliable protection from explosions and oxidation. We also report from a Chinese waterworks in which oxygen is applied in the production of ozone. Each day some 100,000 tonnes of water are processed into drinking water at the Changsha treatment facility, located in Hunan province. The introduction of ozone serves as an environmentally compatible oxidant and antiseptic, and promotes rapid sterilisation.

An entirely new patent is also finding application in the environmentally friendly recycling of used paper. To date, glue residues like those derived from Post-It notes could only be removed using abrasive chemicals. Using our newly developed process, liquid carbon dioxide is now added to the pulp and converted into dry ice, enabling the adhesives to be easily separated out.

I hope you all enjoy reading this latest issue of on air!

Best regards,

Yours

Stefan Messer



Stefan Messer



A matter of taste

By virtue of its oxygen-displacing properties, nitrogen is used in the bottling of still soft drinks to preserve flavour and prolong shelf-life. Over the past few years, Messer has put into operation over 20 liquid-nitrogen injectors to service the Serbian cooking oils and soft drinks industry. For these applications some 250 tonnes of liquid nitrogen – which incidentally is of food-grade quality – are used in Serbia annually.

Siniša Drobňak, Messer Tehnogas

Nitrogen prolongs the shelf-life of soft drinks.

Largest air-separator in Vietnam

Messer is investing some 13 million euros in Vietnam's largest, most state-of-the-art air-separation unit. The air-separator, together with a gas liquefier, will be constructed on the site of the steel manufacturer Hoa Phat Steel. The term of the contract for supplying oxygen, nitrogen and argon is for over 25 years. When production commences, 16,500 standard cubic metres of oxygen per hour will be pipelined to the company's steel works in Hai Duong province.

Diana Buss, Messer Group



Messer and Hoa Phat Steel have struck a deal for the supply of industrial gases over the next 25 years: (from left to right, seated) Tony Rivera, CEO Messer Vietnam, Stefan Messer, CEO Messer Group, Tran Dinh Long, CEO Hoa Phat Group, and Dang Thanh Cam, Director of the Hoa Phat Joint Stock Steel Company



Specialities from one source: Messer is supplying the Hungarian pharmaceuticals company Servier with gases and gas mixtures...

Supplying equipment and speciality gases to pharmaceuticals lab

Currently building a new research laboratory in one of Budapest's most modern industrial parks, the pharmaceuticals manufacturer Servier has contracted Messer to fully equip its laboratory. Scheduled for completion in 2008, the lab will also be supplied with ultrapure gases and gas mixtures by Messer's Hungarian branch. Our partner, the second largest pharmaceuticals company worldwide, invests around 25 percent of its annual turnover in research and development.

Anita Kötél, Messer Hungarogáz



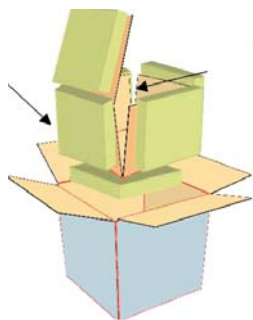
... and is equipping its entire lab.



The fifth air-separation facility on the site of the steel manufacturer Xiangtan Steel ensures the abundant availability of atmospheric gases.

Innovative:

The Eco-Box consists of three materials – a packaging carton, biodegradable insulation material and biodegradable plastic film



Environmentally compatible packaging

Dry ice is growing rapidly in importance, particularly in the fields of refrigerated transport and cleaning, as is the need to ensure an environmentally friendly product supply chain. Boasting high durability and easy, eco-friendly disposal, the newly patented Eco-Box serves as the ideal disposable packaging for dry ice. Meeting all the legal requirements governing the foodstuffs industry, it has been also Messer's entry for the "Innovation Prize of German Industry" 2007.

Marc Dierckx, Messer France

"Unsticking" the "stickies" using ice

In the recycling of used paper, book-binding adhesives and post-it notes continually impair quality due to their tendency to stick to the machinery during the drying process, causing the paper to tear easily. To date, glue residues or "stickies" have been removed using chemicals. Now Messer has

patented a new and innovative, eco-friendly process: during recycling, liquid carbon dioxide is added to the pulp where it turns into dry ice, the resulting frozen adhesive can be separated out without causing any damage.

Diana Buss, Messer Group

During recycling dry-ice is used to gently remove "stickies" from paper.



Photo: pixello.de

More oxygen, more steel

Consuming vast quantities of the atmospheric gases nitrogen, oxygen and argon, the blast furnaces in the Chinese Xiangtan steel works in the province of Hunan are now to be served by a fifth air-separation unit. This latest addition will ensure sufficiently high availability of industrial gases to enable Xiangtan to boost its annual steel production from its current 6.5 million tonnes. Oxygen promotes combustion and is blasted into the furnaces in order to attain the high temperatures required for melting steel.

Diana Buss, Messer Group

Using oxygen to melt stone

A global family enterprise operating in the construction sector, the German Knauf Group has become a byword in the field of dry construction and insulation. During the modernisation of the Serbian mineral wool production plants, a new cupola was constructed to serve as a melting furnace. Mineral wool is made from stone melted at a temperature of approximately 1500°C. To obtain these temperatures, the furnace is blasted with oxygen-enriched air. Messer's Serbian branch serves as Knauf's reliable partner in all matters relating to technical gases.

Diana Buss, Messer Group

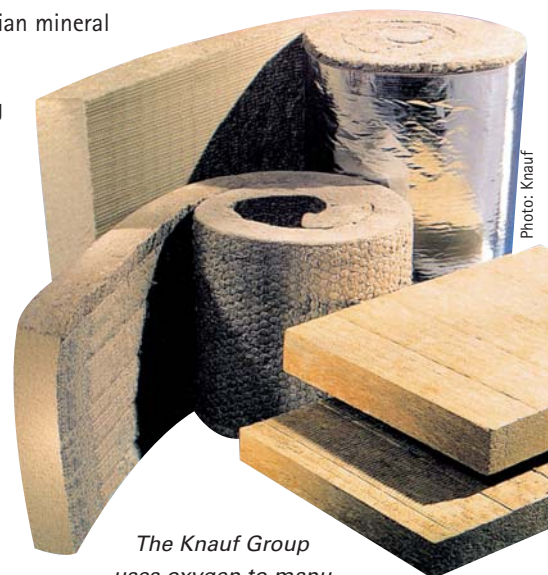


Photo: Knauf

The Knauf Group uses oxygen to manufacture mineral wool.

On a mission: producing safe food

In recent years Panvita MIR, Slovenia's leading manufacturer of meat products, has undergone major strategic realignment. As a supplier of industrial gases, Messer has been aiding the company's development. In an interview with *on air*, Plant Director Igor Kolar and Danilo Lukač, CEO of Messer Slovenia, describe their successful cooperation.

on air: Mr Kolar, you set very high quality standards in the manufacture of meat products. How does the application of gases assist you in this objective?

Igor Kolar: We use gases at various stages in our production process. Our fresh sausage meat is packed in an inert-gas atmosphere. This means that we carefully regulate the composition of the atmosphere in the packaging to avoid undesirable influences, such as bacterial infection or mould. This necessitates the application of a precisely-defined mixture of nitrogen and oxygen. In the production of our Čevapčiči meatballs, which are made from mince, we use liquid carbon dioxide for cooling the meat in the mixer. The carbon dioxide is fed directly into the mixer which rapidly lowers the temperature and protects the product from the heat generated during mixing, thus keeping it fresh. As no cooling water is required, the mince retains a low water content.

on air: What criteria do you use to select your preferred suppliers, and why did you opt for Messer?

Igor Kolar: In order to remain competitive and successful on the European market we focus

carefully not only on maintaining product quality, but also on nurturing a partnership with our suppliers. We select suppliers commanding extensive experience in implementing new technologies on the European market. We build up successful partnerships based on the principle of mutual benefit. Only by optimising the manufacturing process can we acquire the flexibility to offer our customers new types of products. Last summer, for example, we launched "Čevapčiči kebabs" onto the market – which will mean a lot less sticky fingers at the next family barbecue!

on air: Mr Lukač, as a supplier, how would you describe the nature of your cooperation with Panvita?

Danilo Lukač: As a supplier of gases we know exactly how the properties of our products can influence and protect the fine quality of foodstuffs. However, each and every technical advancement in the production process must be coordinated with our colleagues at Panvita. We engage in regular discussion over the

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Diana Buss, Editor-in-chief of „on air“, interviews Dejan Šibila, Danilo Lukač and Igor Kolar (from left to right).



d

“Only optimised processes afford us the flexibility to innovate.”

Igor Kolar, Plant Director at Panvita MIR



various technical issues, inspect the production halls and have become closely acquainted with the manufacturing processes. Although a new development may require only minimal technical effort, it can have a huge impact – and this requires excellent cooperation.

on air: Mr Kolar, what importance do you attach to quality control on the part of the suppliers?

Igor Kolar: Of course, certification assumes a crucial role in the production of foodstuffs, particularly in the meat-processing industry. The gases supplied to us by Messer are certified according to HACCP – as are our raw materials. HACCP stands for “Hazard Analysis and Critical Control Point”, which, in practice, means that product traceability must be guaranteed at all times across the entire production and supply chain. We are delighted to be able to provide our customers with this safety guarantee. As one of only a handful of companies in Slovenia, we are also certified under the international foodstuffs standards. However, the most important factor for us is the award from the Ministry for Agriculture, Forestry and Foodstuffs in recognition of the quality of our fresh meat products. We are proud of this.

Interview: Diana Buss, Messer Group

16,000 tonnes of fresh meat annually

The brand name Skupina Panvita encompasses the three interrelated sectors of agriculture, meat and meat products, as well as energy. The production of meat under the company name Panvita MIR has its roots in the town of Gornja Radgona, near Maribor. Founded in 1922, the small company has grown into one of Slovenia’s leading meat processors.

Panvita MIR is the only meat processing enterprise in Slovenia certified to process both white and red meat, which is supplied by the company’s own pig-breeding plant and poultry farms. Each year Panvita MIR brings 16,000 tonnes of fresh meat and other meat products onto the market. The company cooperates with all the leading food-store chains in Slovenia and a number of major retailers across the former Yugoslavia and the European Union. 15 per cent of the entire production output is sold abroad. In line with its corporate mission statement, the company is committed to the environmentally friendly production of foodstuffs.



Fresh meat for consumers: Gases supplied by Messer ensure the hygienic and quality-preserving production of meat products.

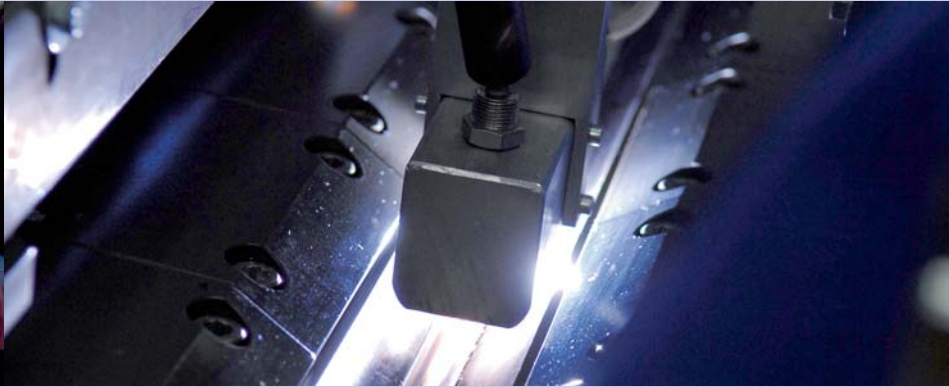
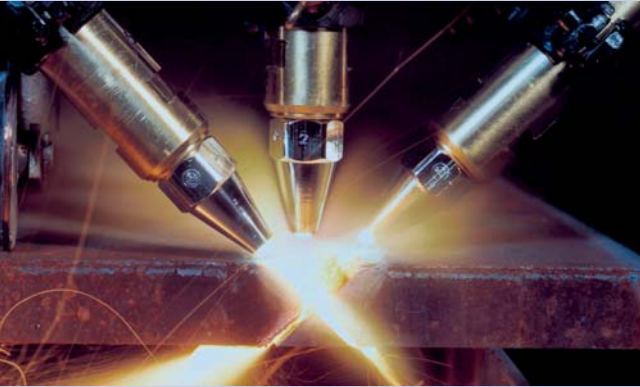




Be it welding, cutting, joining, coating or straightening – welding technology has yielded numerous innovations over the years.

Welding and cutting – united with the future

Actively shaping the rapid development in welding and cutting requires more than a high-quality, customised product range. Consequently, Messer maintains particularly close contact to customers in Europe and China and to distinguished research institutes in order to continually develop its processes.



The different energy sources applied in welding determine its economic viability and quality – be it in autogenous gas cutting (left), automated WIG welding ...

Without the technology of welding and cutting many constructions and consumer items would simply not exist. Cars wouldn't drive, modern ocean liners wouldn't sail the seas and airplanes couldn't take to the skies. To a large extent, all these means of transportation consist of metal parts which have to be assembled using welding technology. The different energy sources applied determine the cost-efficiency and quality of the welding performance; beginning with the open fire some 5000 years ago, the oxyacetylene flame of a century ago and the electric arc through to the modern-day laser and electron beam. Other technologies related to the welding process include cutting, coating, modifying the inherent properties of matter, forming, and with special applications, primary forming. When this variety of processes is combined with different groups of materials, it is easy to explain Messer's extensive product portfolio in this sector.

"The multifaceted selection of gases ranges from acetylene, oxygen and carbon dioxide, which originally were used exclusively up to nitrogen, argon and helium through to a variety of mixed gases," explains Dr. Bernd Hildebrandt, Messer's Head of Technology Management Welding & Cutting. At the same time, the consultancy package extends far beyond the field of gases. "Our customers expect all-round process knowhow, together with advice on quality and cost-efficiency, and on operational safety, which we also provide," adds Hildebrandt. Messer also offers a selection of different forms of delivery. The most common

"packaging" is the steel cylinder, which is available in the standard volumes of 10, 20, 30 and 50 litres, and consequently offers a high degree of flexibility. Filling pressures of up to 300 bars also provide further scope in capacity. For larger quantities, the cylinders can be combined to form clusters or arrays. Vacuum-insulated tanks are also available for storage in a liquid state.

As an all-round provider, Messer supports the entire range of processes related to welding and cutting technology in which technical gases are, or can be applied in the future. These processes can roughly be divided into joining (e.g. shielding gas welding), separating (e.g. plasma cutting), coating (e.g. thermal spraying) and other processes (heating and straightening).

Fuel gases from A to X

The technology of autogenous welding requires fuel gases and oxygen. Depending on the individual task, however, a number of parameter settings must be selected. For example, flame straightening demands a rapid, pinpoint flame with acetylene and oxygen, in contrast to soldering which uses a slow burning gas, such as propane in combination with air. Accordingly, the spectrum of Messer's fuel gases range from A for acetylene to X for xenon.

In the field of arc welding technology, shielding gas welding, including its variants WIG (Wolfram Inert Gas), Plasma, MIG (Metal Inert Gas) and MAG (Metal Active Gas) assumes a leading role, with the electric arc providing the heat input. The shielding gas not

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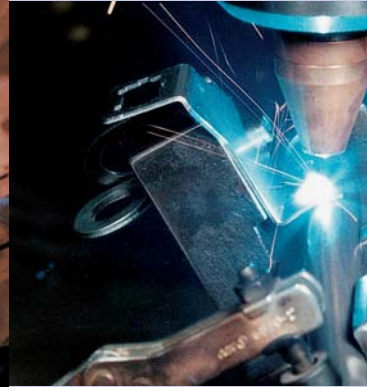
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...flame spraying (left) and manual WIG welding...



... laser welding (left) or MAG we

- □ □ only protects the highly reactive molten metal from the ambient air, but also systematically impacts upon the arc formation, the chemical reaction with the weld pool and the penetration profile. Depending on the type of material to be processed there are a large number of carefully tailored products available.

Well-conceived product names

"In contrast to many gas suppliers, whose product names furnish scant information about the composition and possible applications of their welding shielding gases, Messer has the right solution and an informative product name for every task," emphasises Michael Wolters, Project Engineer for Technology Management Welding & Cutting. In detail, the spectrum of shielding gases comprises "Ferromix" for non- and low-alloy steels, "Inoxmix" for high-alloy steels, "Alumix" for aluminium and non-ferrous metals, together with "forming gas", which offers root protection for high-alloy and some low-alloy steels. Laser-cutting and welding

are also finding increasing application, and set particularly high standards in terms of the quality and purity of gases. Developed to meet these exacting require-

ments, the MEGALAS product range contains gases and gas mixtures for cutting, and welding shielding gases for laser welding and soldering, in addition to operating gases for the CO₂ lasers.

As a highly reputable provider, we must continue to operate at the cutting edge of technology and identify new trends promptly in order to remain competitive on the market place over the long term. For this reason Messer nurtures contacts with market partners, including our sister companies, Castolin and Messer Cutting Systems. To keep abreast of the latest developments, we cooperate on a project-related basis with external research institutes. "Whenever new trends emerge which carry implications for the application of our gases, we endeavour to keep one step ahead of the competition," states Wolters.

Technical training institutes and networks

In order to maintain close contact to customers and to the relevant specialist institutes, Messer runs a number of technical facilities at strategically favourable locations. "Points of support" are located in Budapest (Hungary), Krefeld (Germany), Dällikon (Switzerland) as well as Shanghai (China).

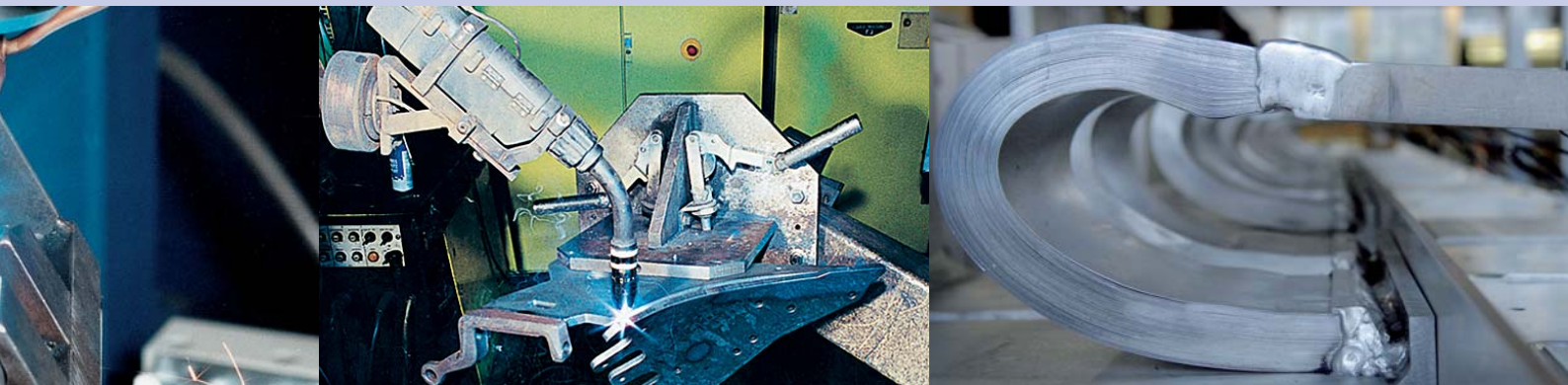
Beyond developing a technical infrastructure, Messer has also fallen into line with modern IT trends and built up an electronic network with colleagues from all our subsidiaries. In addition, Messer stages an annual network conference, which also offers training seminars staged by one of our market partners. And last



Messer offers a wide variety of possibilities for delivery of the welding gases. The commonest type of "packaging" is the steel cylinder.



Indispensable for an all-round provider: welding seminars for customers.



lding (centre). The results are impressive, as the MIG welded aluminium component shows.

but not least, Messer collaborates closely with other companies from our sector. "This not only enhances transparency in the market place, but also enables us to participate in discussions on new processes,"

explains Hildebrandt. In this way, Messer is able to keep its range of products at the cutting edge of developments.

Editorial team

Consistent with our corporate philosophy

We posed four questions to Beat Senn, member of the supervisory board and management team of Senn AG, on the subject of gases and welding. Based in Switzerland, this steel and metal processing company has been collaborating for almost 50 years with Messer in the field of welding and gas technology.



Beat Senn (left) being interviewed by Kurt Schenkel.

on air: Mr Senn, Senn AG processes up to 10,000 tonnes of steel and aluminium every year. What role does gas play?

Senn: Gas plays a very important role. Without gas we would not be able to operate our production processes, such as laser cutting, shielding gas welding and flame cutting. Having a consistently high quality of gas is crucial.

on air: How is the recently launched 300-bar technology faring in the shielding gas segment?

Senn: Although we are still in the introductory phase, we can already state that the 300-bar technology has been well received by the welders. As a result, we have greatly reduced the frequency of cylinder changes, and consequently have been able to markedly shrink our cylinder handling operations, our warehouse stocks and our order frequency.

on air: What was the decisive factor that prompted you to introduce this technology?

Senn: Well, quite clearly we aimed to cut our downtimes and cylinder handling operations. This has a beneficial impact on safety and is consistent with our corporate philosophy.

on air: What developments do you expect in gases over the next few years?

Senn: In my opinion, gas technology is quite advanced and there is almost too much experimentation in this field. However, if we can speed up production and reduce splatter, then innovation can only be welcomed. I firmly believe that existing applications can certainly be optimised with speciality gas combinations.

Our interviewer was Kurt Schenkel, Project and Warehouse Manager Welding & Cutting at Messer Switzerland



Yellow fuel: The oil from rape seeds, sunflower seeds and soya beans serves as the basis for biodiesel.

Serbia fills up with renewable energy

Serbia: Motorists living near the Serbian city of Novi Sad now have the opportunity to fill up their cars with eco-friendly biodiesel. Storing this vegetable-oil based fuel safely, however, requires the application of nitrogen.

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In the summer of last year, the first biodiesel production plant went on stream in Serbia. Biodiesel is a "renewable energy source" – a fuel extracted primarily from the oil of rape seeds, sunflower seeds or soya beans. Although not a member of the European Union, Serbia has voluntarily undertaken to implement the EU Directive on the Promotion of the Use of Biofuels. For many years, EU Member States have been meeting a share of their fuel requirements from biodiesel, bioethanol and biogas.

Farmers in the north of Serbia have now begun using their hitherto fallow land for the cultivation of plants from which vegetable oils can be extracted as the raw material for the production of biodiesel. In 2008, some 70,000 tonnes of biofuel are to be produced from rape seed and other crops in a new facility being built by the operator Victoria Oil. Output is set to rise to 100,000 tonnes in 2009.

In addition to biodiesel, methanol is also stored in tanks on the site of the refinery in Novi Sad. Additional nitrogen is fed into the tanks storing both methanol and the finished biodiesel. Nitrogen displaces not only the air, but also the highly flammable oxygen contained therein. As an inert gas, nitrogen is used widely to reliably prevent fires and undesirable oxidation. Nitrogen protects the methanol and biodiesel stored in Victoria Oil's tanks against moisture and atmospheric oxygen, thus preserving their quality and serving as protection against explosions.

Biodiesel can already be purchased at the pumps in the immediate vicinity of Novi Sad at slightly lower prices than conventional diesel. Furthermore, the application of biodiesel in the urban public transport systems of the cities of Novi Sad and Belgrade is now being planned.

*Stevan Ajdinović, Messer Tehnogas,
Thomas Berger and Diana Buss, Messer Group*



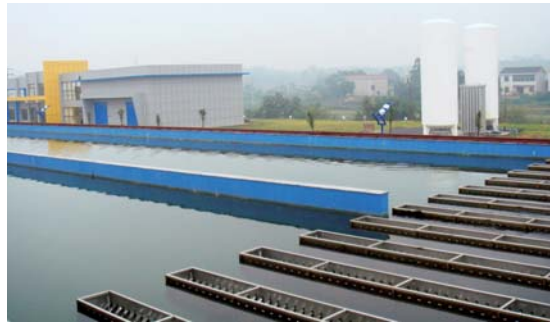
Filling up with eco-friendly fuel – thanks to biodiesel.

Oxygen used to treat drinking water in China



China: Since August of last year, the Changsha waterworks in China's southern province of Hunan has been using oxygen to treat drinking water.

The oxygen is used in an ozone generator for the production of ozone, which efficiently removes organic and inorganic substances, such as iron and manganese. As a strong oxidant and antiseptic, the gas is also capable of eliminating the odours and water discoloration caused by organic substances. In addition, ozone promotes flocculation in water, thus enhancing the degradability of the organic contaminants, and even in small doses helps to accelerate sterilisation. At the same time, ozone does not produce any waste products, as is the case when disinfecting with halogens (such as chlorine). In addition to supplying the gas, Messer China also offers services in the field of the construction,



Vast dimensions: Each day up to 100,000 tonnes of water are purified by the Changsha water-treatment plant.

operation and maintenance of gas plants. Currently the waterworks purifies up to 100,000 tonnes of water daily, which corresponds to a consumption of around 1.4 million cubic metres of liquid oxygen annually. Next year, the capacity of the waterworks is to be doubled, and eventually trebled over the next five years.

Jasmine Yan, Messer China

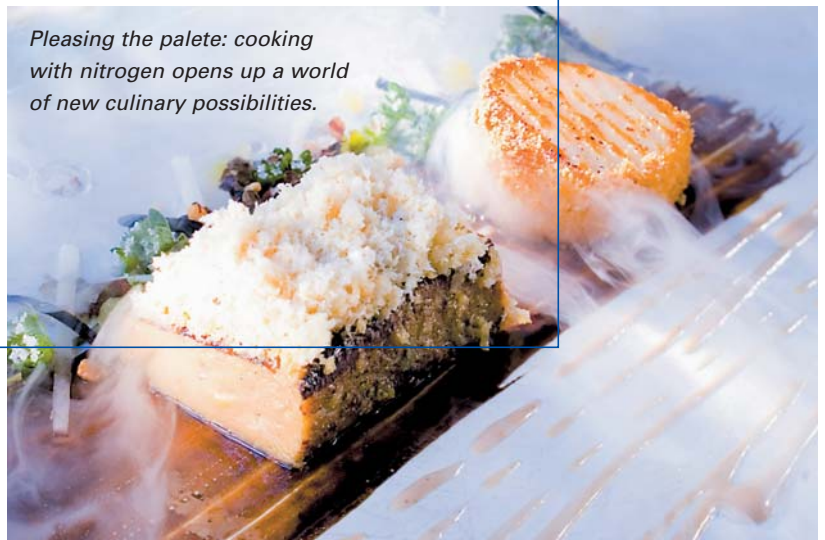
Hot and cold delicacies

Austria: Nitrogen-grilled blini with Beluga caviar, raspberry meringue à la nitrogen served with a Bloody Mary Nitro ... What may read like a banquet menu for the astronauts manning the international space station ISS, is in fact the latest fad consuming aficionados of so-called molecular cuisine - or cooking with nitrogen. Pushing the boundaries of the traditional art of cooking, the new wizards of molecular gastronomy must also combine a knowledge of chemistry, physics and science with their conventional culinary knowhow and experience. Accordingly, the technology transfer between cooking and biotechnology, allied to the chefs' own creativity, enhances both flavour and pleasure, culminating in an explosion of the taste buds. With just a few ingredients, they can concoct a succulent array of astonishing culinary effects, in which the imagination knows no bounds: a frozen exterior surface

with a temperature of minus 70°C, covering a rich warm filling of up to 20°C. These stark contrasts are possible in a single dish, combining to produce a truly spectacular, mouth-watering riot of different flavours. Similar delicacies were also being served up at the Catering Trade Fair "Everything for the Guest" held in Salzburg, at which both Messer and Austria's celebrity chefs prepared culinary delights with liquid nitrogen before an astonished audience.

Herbert Herzog, Messer Austria

Pleasing the palate: cooking with nitrogen opens up a world of new culinary possibilities.





Self-reliance in practice:
Messer is constructing its
own on-site plants for
producing nitrogen.



Plant construction at Messer – cross-border cooperation

Germany/Slovenia: One of the Messer Group's key advantages is being able to leverage synergies – as demonstrated by the planning and construction of the on-site facilities for generating nitrogen. Here a highly successful example of German-Slovenian cooperation.

Messer is currently constructing its own on-site plants for generating nitrogen. Predicated on a well-established, cross-border programme of cooperation, Messer is in the position of being able to supply nitrogen generators quickly and competitively across the entire group.

Initially the engineering team in Germany was charged with the conceptual planning, defining the specifications and procuring the key components. Responsibility for the detailed planning, the acquisition of pipelines, cables and other hardware is being assumed by an experienced team from Messer's branch in Slovenia. The compressor, all the air pre-treatment components, the electrical equipment and the measurement and control technology for the remote-controlled plant will be compactly housed in a standard container. However, the expertise of the specialists from Germany will be required directly on-site for a few days during the construction of the container.

Due to the excellent cooperation with Messer's engineers and technicians in Slovenia, an agreement was struck under which the team would assume responsibility of both the detailed planning and the assembly of similar plants for customers in other countries. In the meantime, three facilities have been successfully constructed on this basis – a cryogenic generator and two membrane units. The cryogenic generator is linked to the European Control Center in Budapest and reliably supplies nitrogen to a set of precisely-defined specifications. *Gerd-Lutz Büscher, Messer Group*

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Cooperation model expanded

This allocation of tasks traces back to the construction of the first CryoGAN nitrogen generator based on the new Messer design, which was installed in early 2006 for the company Julon in the Slovenian city of Ljubljana.

*Exemplary: Messer's new
CryoGAN nitrogen generator,
designed in-house*



COMPETITION

Win...

... a Messer wristwatch

Here's what to do. On which page of this issue of on air does this picture appear? Find the page and you could be the lucky winner! Simply email your answer to us.*



Entry deadline:
31st March
2008



diana.buss@messergroup.com

* This competition is not open to employees of Messer or their relatives.

Congratulations to Philippe Lemaitre, Heraeus Materials SA in Cossonay-Gare, the winner of the Messer Truck.

DRY ICE BLASTING

Industrial cleaning made easy

The application of dry-ice to remove solvents, oils, lacquers, synthetics and many other types of residues in foundries, printing houses or in the foodstuffs industry is increasingly rapidly. With the models Ascojet 1701 and Ascojet 2001RX, Asco Carbon Dioxide Ltd. is unveiling two new, high-performance dry-ice blasters guaranteed to achieve optimal results. Based on a compact single-hose system, the Ascojet 1701 boasts excellent cleaning performance even of heavy contamination, whereas the double-hose system used by the Ascojet 2001RX offers the user maximum performance and valuable time-saving benefits – facilitated by the new, rapid system for changing valves, guns and hoses.



Opinions wanted!

What did you particularly like about on air? What did you not like? What would you like on air to cover in the near future?

Please write to us at ...



info@messergroup.com



www.ascojet.com | pellegrino@ascoco2.com

High-performance and compact: the new Ascojet 1701

NEW APPOINTMENT

Stefan Messer is the new EIGA President



Stefan Messer (left) has succeeded Bernard Guerini as the President of the EIGA.

In November 2007, Stefan Messer, owner and CEO of the Messer Group, was appointed President of the European Industrial Gases Association (EIGA). His term of office will run until the end of December 2009. Headquartered in Brussels, the Association represents virtually all European and many non-European companies which produce and sell technical, medical and foodstuffs gases. The Association's members are currently joining forces to agree on a set of exacting safety standards and environmentally compatible methods in the production, transport and application of gases.



<http://www.eiga.org>

Coming up in the next issue:

- □ Fuelling the automotive industry: from the chassis to the drive elements and automotive electronics – Messer's gases are used across a range of engineering technologies. Read all about process expertise for automobiles.
- A smashing success: Helium supplied by Messer is being deployed to operate the world's largest particle accelerator..

