

## Come to Laborama and discover what we can do for you

**LABORAMA**

**2011** March 24 - 25

You will find us at stand 2-E19

The 12th addition of the Laborama trade show, these days an absolute must for professionals in the field, is to be held on 24 and 25 March 2011 in Brussels. Cryo Solutions will be there to exhibit the very latest in cryogenic products and solutions. You are more than welcome to visit us to discuss your questions and wishes, be they about equipment, service and maintenance, or the supply of liquid gases. We look forward to seeing you there!



### INTERVIEW

Amsterdam, 28th February 2011 | Text: Ester Hendriks

## Sjoerd Repping enthusiastic about tailor-made cryogenic solutions for AMC University Hospital



Sjoerd Repping

The opening of the new Centre for Reproductive Medicine in November 2010 marked a very special addition to the outpatient department at AMC University Hospital in Amsterdam. The high, transparent linking units in the Q-building seem to allude to the endless possibilities now available in reproductive medicine on the upper floors of this facility. On Q3, however,

the clinical associations were temporarily forgotten as Sjoerd Repping, professor of human reproductive biology and head of the new laboratory, extended his visitors a warm welcome.

The guests, accompanied by Richard van Woerden, sales director at Cryo Solutions, were interested in the technical challenges involved in building the unit. Van Woerden was also there to replace the nitrogen vessels from the previous installation.

At Richard's request, Sjoerd told the delegation something of the background to the building of the clinic, and briefly explained about the very first IVF

babies in the 20th century, the first IVF baby in 1978 and the incredible developments that have been made in this field since that time. 'In the Netherlands, one in 38 children are born as a result of IVF. The average age of women who undergo IVF is 37. The most common reason for IVF being performed is that these days many women choose to postpone having children until later in life', Repping explained.

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## University Hospital Leuven chooses for maintenance and backup services



In the past, we have provided the Uni-

versity Hospital (UZ) in Leuven with new equipment and upgrades to its existing systems. UZ Leuven is so pleased with the service that it has now also opted for a maintenance contract with Cryo Solutions. In addition to maintenance, UZ has also signed a backup contract with us.

## Cryo drinks reception at the WSN congress



This year, in honour of its 10th anniversary, the WSN (Working Group for Stem Cell Laboratories in the Netherlands) held its congress at the VU University Medical Centre in Amsterdam. We contributed by providing a chef who made the drinks reception that followed the congress very special by demonstrating molecular cooking.

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The Department of Reproductive Medicine at the University of Amsterdam had already been established back in 1950, and moved to the AMC in 1985. Research and patient care have now been combined at the new clinic. 'We are hoping that this will enable to offer faster and more efficient patient care. The main focus was to optimise the quality of the environment in which the embryos, egg cells and sperm cells are stored.' Repping went on to say 'Clean air, a constant temperature and the correct pH value in the specially designed 'Clean Room' ensure that embryos are given the best chance possible of ultimately becoming a child. A good cryogenic installation is required for freezing and storing these materials.'

Repping opted for a cryogenic vapour phase installation (MVE816). This system reduces the risk of viral infections and temperature variations to a minimum. It saves time and, compared to individual vessels, space. TEC3000 controllers fill automatically, have an alarm system, and monitor function, temperature and levels.

Realising the project together with the parties involved was a lengthy process. The architect, for example, did not want the bulk tank and piping to be visible on the exterior of the building. In order to supply the different floors with nitro-



Pressure vessels are hoisted

gen, and to avoid the risks involved in transporting pressure vessels for filling within the departments, Cryo Solutions came up with the solution of placing two 400-litre tanks with switching equipment on the roof of the fourth floor. The tanks could then be filled from a tanker vehicle in the street below. Inside the building, everything is connected to the nitrogen network; pressure tanks in each cryo area allow for manual siphoning and also act as emergency buffers.

'The installation is working like a well-oiled machine! As a user, that gives me a very secure feeling!' confirmed Repping, who is extremely satisfied with the service and customer-cooperation provided by Cryo Solutions.



Filling box on the ground floor

### Description cryogenic project for AMC



The AMC cryogenic project comprises two parts: outside, a filling box for Cryo Logistics, and vacuum insulated piping to

two 400 litre pressure vessels with switching equipment on the roof. From the switching equipment, piping runs to the inside of the building where cryobanks have been installed on the 3rd and 4th floor. These cryobanks include a waste gas system and a semiautomatic filling system for a pressure vessel. Any gas produced during the waste gas release is pumped back outside. Each cryobank comprises a combination of MVE815 or MVE816 biological storage containers and a Cryo Anlagenbau CS pressure vessel.

### Complex cryogenic installation for University of Groningen



The University of Groningen has opted for Cryo Solutions to supply a highly complex cryogenic installation in its new building. Optimum automation and an upgraded nitrogen supply are very important for this installation. The system we have supplied comprises switching equipment for three Eurocyl 230 pressure vessels in the corridor, vacuum insulated piping, three filling systems and a waste gas unit.

### Cryogenic cooking at the 'HET Instrument 2010' trade show



During the trade show, we exhibited the new IVF storage vessel MVE816 and the new monitoring system Assure24seven from Planer. And since molecular gastronomy, otherwise known as 'cryogenic cooking', is becoming increasingly popular, we invited top chefs from restaurant 'In de Keuken' in Amsterdam to be our special guests and each day provide visitors to our stand with delicious, authentic cryogenic refreshments.