

Sinomem Launches BIO-CEL® Membrane Bioreactor in Filtech 2005

Singapore, 17 October 2005: - Mainboard-listed **Sinomem Technology Limited** (“**Sinomem**”), a leading membrane-based process and engineering technology company, is pleased to announce that its 50% owned associate company Microdyn-Nadir GmbH has launched its BIO-CEL® Membrane Bioreactor in Filtech 2005—Europe’s specialist conference and exhibition for filtration and separation held in Wiesbaden, Germany, October 11-13, 2005

Membrane Bioreactors are becoming viable alternatives to conventional biological treatment systems used in wastewater treatment industries. By combining biological treatment with membrane separation processes, Membrane Bioreactors can support much higher density of biomass for more effective aerobic biological treatment and reduced aeration basin volume. It produces better results, offers operational safety, high efficiency and cost effectiveness. For NEWater production, the existing three-stage processes of aeration; final sedimentation and microfiltration/ultrafiltration pre-treatment can be effectively replaced by a single-stage Membrane Bioreactor.

Dr Meyer-Blumenroth Ulrich, CTO of Microdyn-Nadir said, “ There are basically two existing types of Membrane Bioreactors, hollow-fibre based systems and plate & frame systems, available in the market, but each has its own weakness. Hollow fibre Membrane Bioreactors suffer from the blocking of membrane surface area due to entanglement of fibrous material around the membrane fibers (braiding), mainly at the ends of the fiber bundles. These deposits are difficult to remove, leading to additional down time and higher operating costs. Plate and frame systems suffer from partial

plugging of the spaces between the plates caused by flow distribution. The result is again a reduced active membrane area and lower productivity. ”

Dr Meyer-Blumenroth Ulrich added, “Microdyn-Nadir is a well-established producer of advanced membrane products. Through our research, development and leveraging on our extensive experience, we launch our newly patented BIO-CEL® Membrane Bioreactor as an alternative to the existing, less than optimal, performing Membrane Bioreactors to achieve better performance.”

Microdyn-Nadir’s innovation marks a breakthrough in Membrane Bioreactor technology as BIO-CEL® combines the advantages of classical hollow fibre and flat sheet Membrane Bioreactors through an innovative new module design using large area, self-supporting membrane sheets. This configuration significantly reduces the formation of a laminar layer and therefore membrane fouling at the boarder area. Open at the top, the module design eliminates the deposition of pollutants at the top. The 2 mm thin sandwich-structured membrane sheets allow a high packing density with less weight by eliminating carrier plate, according to Dr Meyer-Blumenroth Ulrich.

Commenting on the launch of BIO-CEL® Membrane Bioreactor, Dr Lan Weiguang, founder and Managing Director of Sinomem said, “We are very pleased that Microdyn-Nadir has achieved this breakthrough in Membrane Bioreactor Technology. It marks a big step of Sinomem to foray into huge water and wastewater treatment membrane market. We are highly confident that more and more water and wastewater treatment companies in the world will benefit from BIO-CEL® Membrane Bioreactor launched by Microdyn-Nadir.”

Dr Lan Weiguang, added, “As a matter of fact, the applications of Membrane Bioreactor are not limited to water and wastewater treatment, it can be used in much higher value-added applications such as industrial production processes to speed up reaction rate, reduce inhibition and increase production yield. Sinomem will make full use of its established process know-how to develop more industrial applications for Microdyn-

Nadir's BIO-CEL® Membrane Bioreactor to generate wealth and enhance value for our shareholders and customers”

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About Sinomem Technology Limited

Sinomem Technology Limited (Bloomberg - SINO SP; Reuters – SINO.SI) was incorporated on 18 September 2002 under the laws of the Republic of Singapore, On 18 June 2003, the company was listed on the mainboard of the Singapore Exchange Securities Trading Limited. The company and its subsidiaries provide integrated process and engineering solutions for separation, purification and cleaner production purposes for their customers in diverse industries through the use of its proprietary advanced membrane technology. This includes the upstream activities such as advanced membrane material production and downstream activities such as production of biochemical products applying membrane process and engineering technology

About Microdyn-Nadir GMBH

Microdyn-Nadir GMBH is a specialist in advanced membrane production for industrial fluid processing and wastewater treatment with a long history dating back to 1966 when it started development work at Hoechst AG, a Fortune 500 company before its restructuring in 1998. Microdyn-Nadir is now one of the few multinational companies that are involved in the research, development, production and marketing of a full range of polymer membranes either in filtration type such as microfiltration, ultrafiltration and nanofiltration or in configuration type such as flat sheet, capillary, hollow fibre and spiral wound modules. In April 2005, Sinomem has subscribed for a 50% stake with 1% stake option in Microdyn-Nadir.

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