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**TRANS IONICS
CORPORATION**

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TRANS IONICS Announces New Service - Custom Separation Synthesis (CSS)™

THE WOODLANDS – August 26, 2009 –Trans Ionics Corporation announced today that it will immediately begin providing a service called Custom Separation Synthesis™ to customers primarily in the petroleum and chemical industries, who currently have difficult separation problems for which they would like more economically viable solutions. “The goal of CSS is to provide customers with alternative separation schemes that are lower in capital and operating costs than separation systems currently available in the marketplace,” says Dr. Robert Schucker, recipient of 47 U. S. and international patents for unique separation solutions and CEO of Trans Ionics, which he founded on his retirement from a 23 year career with ExxonMobil.

The advent of CSS builds on the successful creation by Trans Ionics of five revolutionary separation processes in the past ten years. “The difference with CSS is that the customer will own the technology from the outset. Based on the customer’s description of the need, Trans Ionics will develop the separation concept (including a limited patent and literature search), carry out experiments to confirm the viability of the process, generate initial supporting data and put together a process design with heat and material balances using state-of-the-art process simulation software. The advantage to the customer is that they get a fresh viewpoint on solutions to their separation problems, based on the wealth of experience of Trans Ionics’ personnel in separations and will be involved in the process from the beginning,” continued Dr. Schucker.

Trans Ionics is a leader in the development of advanced separation technologies for the petroleum, petrochemical, environmental, medical and power generation sectors. Located in The Woodlands, TX just north of Houston, the Company has created energy-saving processes for (1) the separation of pure oxygen from air using ion transport membranes based on a unique material licensed from the University of Houston (SeprOx™), (2) desulfurization of a wide range of petroleum streams (TransFinning™), (3) recovery of olefins (like propylene and ethylene) from mixed gas streams (MMEO™), (4) recovery of benzene and other high valued aromatics from chemical plant streams (BenzSep™) and (5) recovery of ethanol and/or butanol from fermentation liquids (ESep™).

Trans Ionics has been awarded 8 patents and has 9 additional applications pending for its separation technologies. MMEO and BenzSep are currently available for sale to interested parties.

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