

The purpose of this training is to familiarize the participants with the special skills needed for a successful Utah Array™ implantation surgery in non-human primates.

The training session will be over two days. A maximum of 15 participants may attend. Training cost is \$2,500/€1,950. The training session will include a 50% discount for a single standard array order.

Registrations are due before **November 15, 2013** at [sales@blackrockmicro.com](mailto:sales@blackrockmicro.com).

The Utah Array™ has become a benchmark for multi-channel, high-density neural recordings and stimulation applications from large populations of neurons. Over the past two decades, this patented microelectrode array technology has undergone numerous refinements and repeated validations in a variety of species and preparations. This effort delivered a proven and well-documented method to obtain stable and long-term neural recordings of action potentials (spikes) and field potentials in brain and peripheral-nerve tissue. Today, the Utah Array™ is widely used in the context of brain machine interface (BMI) technology in humans and non-human primates, and for the exploration of cerebral functions in large and small animals.

### Training Program

#### Monday Nov. 25<sup>th</sup> 2013

- 08:00 – 08:30 Welcome Reception
- 08:30 – 09:15 Overview of array types: Kian Torab (Blackrock)
- 09:15 – 10:00 General overview of surgery; Surgeon: Nicholas Hatsopoulos (Chicago, USA)
- 10:00 – 10:30 Coffee Break
- 10:30 – 12:00 Video + general discussion
- 12:00 – 13:30 Lunch
- 13:30 – 18:00 Surgery demonstration on a non-human primate
- 18:30 (or after surgery) Aperitif - Dinner

#### Tuesday Nov. 26<sup>th</sup> 2013

- 08:30 - 09:30 Discussion and Q&A
- 09:30 - 10:00 Coffee break
- 10:00 - 11:30 Demo data acquisition systems + software
- 11:30 - 13:00 Lunch
- 13:00 - 18:00 Practice surgery on two parallel pigs followed by a Q&A session
- 18:00 - 19:00 Quick Q&A and wrap up
- 19:00 Farewell aperitif

#### Wednesday Nov. 27<sup>th</sup> 2013

- 9:00 - 12:00 INT lab and animal facility visit including recording presentation

**Fact:** with proper surgery training, the Utah Array is twice/three times as effective.