

# Biomedical Engineering



## Seminar

### Image Guided Surgery – Orthopedic Solutions

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**BrainLAB Inc.,**

**Friday, April 30, 2004**

**Castleman Building, Room 212**

**2:00-3:00 pm**

#### **Abstract:**

BrainLAB develops and distributes software and integrated solutions worldwide that enable minimally invasive therapies in medicine. In partnership with leading physicians, more than 550 BrainLAB employees work every day toward one goal: the creation and enhancement of clinical solutions that improve quality of life for patients everywhere.

Many surgical procedures currently enhanced with Image-Guided Surgery have historically been performed without it. Today, the trend in most surgical procedures is towards reduced invasiveness, which is made possible by the application of Image-Guided Surgery. For example, in coming years orthopedic surgeons are expected to more fully exploit the capabilities of advanced Image-Guided Surgery, enabling their implants to be positioned through small incisions. In contrast to the highly invasive procedures performed today, such techniques will allow patients who undergo these surgeries to go home the same day. The advantages for patients and medical facilities are obvious, and their recognition of such will lead to significant increases in the percentage of procedures and institutions where Image-Guided Surgery is utilized.

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Mr. Khan is a former BME MS Graduate Student, May 2003,