

**Our speaker for the upcoming ABC Robotics Seminar on  
April 27th, at Building 37(Alon Building for Hi-Tech) room 202  
08:45**

**will be:**

**Dr. Shelly Levy-Tzedek**

**Dept. of Physical Therapy, Ben Gurion University**

The title of her talk is

**Sensorimotor Learning with Sensory Substitution**

**Refreshments**

**Talk - 09:10-10:00**

### **Abstract**

Sensory substitution devices (SSDs) convey visual information using sound or touch. A major goal of an SSD is to enable users to successfully move within their environment.

I will present the results of our studies examining movement guided by SSDs. I will discuss how information flowing through the action-perception loop transfers across senses, and will argue that sensory-motor learning is not sensory-modality-specific, but rather novel sensorimotor information can be transferred between sensory modalities.

I will conclude by outlining the important implications of these findings for visual rehabilitation, and for the visually impaired.