

**IDEAS™**(Innovation, Design, and Emerging Alliances in Surgery)



**Surgical Robotics: Building Bridges and Breaking Barriers**  
**Saturday April 27, 2013, 7:30 AM-4 PM**

*Presented by the Roberta and Stephen R. Weiner Department of Surgery*  
**Beth Israel Deaconess Medical Center, Boston, MA.**

Symposium Location: Inn at Longwood Medical (Fenway Room)  
342 Longwood Ave., Boston, Mass.

7:30-8:15 AM: Check In; Continental Breakfast

8:15–8:30 AM: **Introduction:** Co-Leaders: Henrik Christensen, PhD, Georgia Tech; Elliot Chaikof, MD, PhD, BIDMC, Harvard

8:30-10 AM: **SESSION 1: Microrobotics**

- *Frontiers in Microrobotics*; \*Paolo Dario, PhD, Scuola Superiore Sant'Anna, Italy
- *Technologies for More Accurate, Less Invasive Robotic Surgery*; \*Robert J. Webster III, PhD, Vanderbilt University
- *Micromechatronic Catheters for Percutaneous Interventions*; Pierre Dupont, PhD, Boston Children's Hospital, Harvard
- Roundtable discussion

10–10:25 AM: Break

10:30 AM-12 Noon: **SESSION 2: Human-Machine Systems**

- *Quality of Life Technologies*; \*Takeo Kanade, PhD, Carnegie Mellon University
- *Wearable Robots*; \*Conor Walsh, PhD, Wyss Institute, Harvard
- *Socially Assistive Robots That Care*; \*Maja Mataric, PhD, University of Southern California
- Roundtable discussion

12 Noon–1 PM: Buffet Lunch

1-1:30 PM: **Views from Washington: NIH's Priorities in Robotics**; \*Grace Peng, PhD, NIBIB, NIH

1:30-3 PM: **SESSION 3: Robotics in Practice: Realizing Clinically Meaningful Advances**

- *Challenges in Robotic Abdominal Surgery*; \*A. James Moser, MD, BIDMC, Harvard
- *Barriers to Robotic Cardiac Surgery*; \*T. Sloane Guy, MD, MBA, Temple University
- *Transoral Robotic Surgery for Head and Neck Cancer*; \*Umamaheswar Duvvuri, MD, PhD, University of Pittsburgh
- Roundtable discussion

3-3:45 PM

- *Discussion: Possible Future Opportunities/Avenues*

3:45-4 PM

- *Concluding Remarks*: Elliot Chaikof, MD, PhD

\* confirmed speaker

**To maximize the opportunity for collaborative interactions, registration is limited to 70. A nominal registration fee of \$35 is required (fee is waived for BIDMC faculty and trainees), which includes continental breakfast and lunch. To register, please contact Kaitlyn Dmyterko: [kdmyter@bidmc.harvard.edu](mailto:kdmyter@bidmc.harvard.edu) (617-632-7341) or Hilary Bennett: [hbennett@bidmc.harvard.edu](mailto:hbennett@bidmc.harvard.edu) (617-632-9913).**