

- [Home](#)
- [About the CVR](#)
- [News](#)
- [Members](#)
- [Seminar Series](#)
- [Conference](#)
- [Resources](#)
- [CVR Summer School](#)
- [Research Labs](#)
- [Training at the CVR](#)
- [Partnering with the CVR](#)
- [Contact Us](#)

- Friday, December 16, 2011
Putting Sensory back into Motor Control

There have been many ways to interpret neural activity in primary motor cortex with the last 25 years largely focussed on identifying neural representations (i.e. muscles versus movements). The results highlight myriad representations are present with little consensus on what this means. Recent theories based on optimal control have been influential for interpreting voluntary control and emphasize the importance of online sensory feedback for guiding motor action. My talk will highlight our recent studies highlight the sophistication of online control including knowledge of limb mechanics, scaling to spatial target location, and avoidance of obstacles in the environment. As well, I will highlight how primary motor cortex provides a key role in this sophisticated use of sensory feedback to guide motor action.

Steve Scott
Queens University