March, 2018

Honors and Awards

Congratulations to MIT CSNE faculty member Polina Anikeeva for winning the 2018
 Vilcek Prize. The Vilcek Prize recognizes contributions to biomedical research made by
 immigrant scientists. For more, see: http://news.mit.edu/2018/polina-anikeeva-and-feng-zhang-awarded-2018-vilcek-prize-0201

Upcoming Seminars, Lectures, Courses, Conferences

- Final judging of the 2018 Neural Engineering Tech Studio Competition will take place on Wednesday, March 7th, from 12:30-2:20 PM at the CSNE (1414 NE 42nd St., suite 204). The TechStudio is a neural engineering student design competition hosted by the CSNE. At the final, teams will present their projects to a panel of industry, media and academic judges and a winner will be announced. All of this will be accompanied by light refreshments and loud applause. We encourage everyone to come and see the show.
- UW Institute for Neuroengineering Seminar: "Changes in Corticospinal Synaptic Strength Lead to Compensatory Changes in Cortical Neuron Firing. What's the Feedback Signal?" by Steve Perlmutter (Research Associate Professor, Dept. Physiology & Biophysics, UW) and "Learning physics and the physics of learning" by Steve Brunton (Assistant Professor, Dept. of Mechanical Engineering, UW), Wednesday, March 14th, 2018, 3:30 pm, Husky Union Building (HUB) 337.
- Inaugural Engineering Accessibility Design Fair, Thursday, March 15, 2018, Atrium of the Paul Allen Center, University of Washington, 4:30-6:30 PM
- The Organization for Computational Neuroscience meeting will be held in Seattle, July 13-18, 2018 (Local organizers: Adrienne Fairhall, Eric Shea-Brown, Christof Koch; Invited keynote speakers include Raj Rao); abstracts are due on March 5, 2018: http://www.cnsorg.org/cns-2018
- A crowdfunding campaign to raise support for a new episode of the BrainWorks TV show
 has just launched. CSNE Executive Director Eric Chudler will host this new episode
 that would feature the latest research about Brain-Computer Interface (BCI) technology
 and how it can help people with movement issues caused by stroke, spinal cord injury,
 Parkinson's disease and other neurological disorders. Donate and tell
 others: https://uw.useed.net/projects/1010/home/

New CSNE Publications

 Narain, D., Remington, E.D., Zeeuw, C.I. and Jazayeri, M., A cerebellar mechanism for learning prior distributions of time intervals. Nat. Commun. 2018 Feb 1;9(1):469. doi: 10.1038/s41467-017-02516-x. Castagnola, E., Winchester Vahidi, N., Nimbalkar, S., Rudraraju, S., Thielk, M., Zucchini, E., Cea, C., Carli, S., Gentner, T.Q, Ricci, D., Fadiga, L and Kassegne, S., In vivo dopamine detection and single unit recordings using intracortical glassy carbon microelectrode arrays. MRS Advances, 1-6. doi:10.1557/adv.2018.98, 2018.

CSNE in the News

- Brain-implanted devices could lead to UW medical breakthroughs (Seattle Times, February 6, 2018):
 https://www.seattletimes.com/seattle-news/education/brain-implanted-devices-could-lead-to-uw-medical-breakthroughs/
- Seeking materials that match the brain (MIT News, February 18, 2018): http://news.mit.edu/2018/faculty-profile-polina-anikeeva-0219
- Faculty Friday: https://www.washington.edu/wholeu/2018/02/16/faculty-friday-eric-chudler/

Recent Papers of Interest to the CSNE Community

- Hubscher, C.H., Herrity, A.N., Williams, C.S., Montgomery, L.R., Willhite, A.M., Angeli, C.A. and Harkema, S.J., Improvements in bladder, bowel and sexual outcomes following task-specific locomotor training in human spinal cord injury. PLOS ONE, 2018; 13 (1): e0190998 DOI: 10.1371/journal.pone.0190998
- Kraus, D., Naros, G., Guggenberger, R., Leão, M.T., Ziemann, U. and Gharabaghi, A., Recruitment of additional corticospinal pathways in the human brain with statedependent paired associative stimulation, J. Neuroscience, 38:1396-1407, 2018.

Grant and Funding Opportunities

- Craig H. Neilsen Foundation, Psychosocial Research Projects: http://chnfoundation.org/psychosocial-research/
- Breakthrough Prize https://breakthroughprize.org/
- UW Three Minute Thesis 2018 Competition http://grad.uw.edu/for-students-and-post-docs/core-programs/uw-three-minute-thesis/

Please send additional news and events items for inclusion in this newsletter to Dr. Eric Chudler (CSNE, Executive Director) at chudler@uw.edu.