Cognition and Neuroergonomics (CaN) Collaborative Technology Alliance (CTA) All Hands Meeting 2015

Date:	NOVEMBER 18-19, 2015
Location:	UC San Diego San Diego Supercomputer Center 10100 Hopkins Drive La Jolla, California 92093

AGENDA

Day 1 – November 18, 2015

08:00	**Arrival**
08:15	**Welcome**
08:30	**CTA Status: Overview, News and Meeting Objectives**
	Advanced Computational Approaches (ACA) science area project review (15 min. per project):
09:00	LSIE EEG Focused Analysis (ACA-LSIE-EEG)
09:15	Adaptive Time-frequency Methods for Non-stationary Signals (ACA-NS)
09:30	Deep Learning (ACA-DL)
09:45	Transfer Learning for real-world imaging (ACA-TL)
10:00	**Break – 15 mins.**
	ACA project review continued (15 min. per project):
10:15	ACA ECoG / EEG Data Collection (ACA-EDC)
10:30	ECoG / EEG Source-Resolved Data Analysis (ACA-ESRDA)
10:45	Understanding Uncertainty in State-based Estimation (ACA-UCM)
11:00	Structure-Function Integration in Neural Systems (S-FINS)
11:15	Real-Time Distributed Source Reconstruction, Connectivity Analysis, and Prediction (ACA-RSC)
11:30	**Technology Transition Update**
12:00	**Lunch on your own**
	Brain Computer Interaction (BCI) science area project review (Conference Room) (parallel sessions, 15 min. per project):
13:30	Connectivity for Real-Time BCI (BCI-CRB)
13:45	Fuzzy Control Systems for Joint Human-Autonomy Image Analysis (BCI-FCS)
14:00	Multi-Aspect Calibration Tasking (BCI-MAC)
14:15	Online Fatigue/Lapse Detection for Adapting BCI Technologies (BCI-ABCI)
	Real-World Neuroimaging (RWN) area project review (parallel sessions, 15 min. per project):
13:30	Novel Approaches for Assessing Real-world Motion Artifact (RWN-NAARMA)
13:45	Dual Electrode Design for Artifact Removal (RWN-DEDAR)
14:00	Development of Benchmarks for Data Quality of RWN Required Technologies (RWN-DBQNS)
14:15	Interactions of Stress and Fatigue in the Classroom (RWN-SFC)
14:30	Comparison of Stress Responses under Laboratory, Ambulatory, and Real-World Environments (RWN-CSR-LAR)

14:45	Polymer electrode characterization (RWN-PEC)
15:00	**Poster and demo session**
15:00	**CMC Meeting (Conference Room)**
16:30	**"Big Ideas" discussion and break-out session (Dr. Paul Sajda)**
18:00	**Adjourn**

Day 2 – November 19, 2015

08:30	**Future Direction for ARL Research:** Current and future directions of translation neuroscience at ARL
09:00	**Taking neurophysiology from the lab to the real world to applications (Dr. Peter König)**
10:00	**Break – 15 mins.**
10:15	**Big-Data Repository Update with Q&A**
11:15	**Lessons Learned - IMAI**
11:45	**Lunch on your own**
13:00	**Syntrogi Tools & Technology**
14:00	**Program Year 7 Project Development – ACA, BCI and RWN:** Q&A review of Call for Proposals
15:00	**Poster and demo session** **Break-out meetings** **Collaboration and proposal development**
18:00	**Adjourn**

All presentation will be held in the main lecture hall unless otherwise noted. Posters will be distributed throughout the common areas of SCCN.