COMMONWEALTH COMPUTATIONAL SUMMIT 2018

Agenda:

08:30 am – Registration and Breakfast

09:00 am – Welcome and Introductions (Lisa Cassis, UKY Vice-president for Research)

09:15 am – Academic Keynote (Georgia Tourassi, Director of the Biomedical Science & Engineering Center at ORNL and Joint Professor at the Univ. of Tennessee Knoxville)

10:00 am – Graduate Poster Team (One Slide Intro/Invites)

10:30 am – Networking Break

10:45 am – Parallel Sessions (Each session with 3 papers/talks each 30 minutes in length)

**Topic A** – Big Data & Discovery (Session Chair: Sally Ellingson) – **Location: Ballroom A**  
potential topics such as informatics, bioinformatics, data mining, machine learning, deep learning, linguistics-textual analysis, sensor data aggregation/analysis, data science, knowledge discovery, data architecture, data engineering, predictive analysis, applications using Hadoop/Spark, etc.
- Brent Seales
- Allison Burkette
- Nathon Jacobs

**Topic B** – Big Computing/HPC (Session Chair: Jeramiah Smith) – **Location: Ballroom B**  
potential topics such as High-Performance Computing applications (CFD, Molecular Dynamic Simulations, HEP, etc.), genomics pipeline processing, complex modeling/simulations, extreme scale computing, HPC software tools and techniques: MPI, OPeNMP, OPeNHP, etc.
- Anthony Skjellum
- Chi Wang
- Peter Kekenes-Huskey

**Topic C** – Future Technologies (Session Chair: Suzanne Smith) – **Location: Ballroom C**  
potential topics such as quantum computing, cloud computing, object stores, augmented reality & virtual reality, high performance software defined networks, GPUs/TPUs, optical computing, cognitive computing, autonomic computing, etc.
- Bill Haneberg
- James Griffioen
- Samson Cheung

12:15 (noon) – Networking Lunch Break

12:30 pm – Student Poster Session Opens

2:30 pm – Government Keynote – William L. Miller Science Advisor, Office of Advanced Cyberinfrastructure (OAC) at the NSF

3:15 pm – Industry Panel (Tony Elam, Moderator)

4:45 pm – Poster Winners Announced***, Closing

5:00 pm – Networking Reception Begins