

Annual BSEC Conference at the Oak Ridge National Laboratory Collaborative Biomedical Innovations

https://www.ornl.gov/bsec_conferences/2014

The Biomedical Science and Engineering Center (BSEC) at ORNL in partnership with the Neuroscience Network of East Tennessee (NeuroNet) announces its annual conference on Collaborative Biomedical Innovations. The central theme of the 2014 BSEC Conference is **“The Multi-Scale Brain: Spanning Molecular, Cellular, Systems, Cognitive, Behavioral, and Clinical Neuroscience.”**

Advancing our understanding of how the brain works has emerged as the leading research focus area for the coming decade. Such advancement is expected to have a marked impact in the diagnosis, treatment, and management of neural and mental disorders. Critical innovations in neuroimaging, nanosensors, multi-scale modeling, and large-scale data analytics for multimodal brain data are needed to bridge the gap between molecules and mind. The conference aims to bring together researchers from all disciplines at the intersection of brain science: neuroscience, cognitive science, psychology, nanotechnology, radiology, chemistry, biology, computer science, and data sciences.

Specific topics of interest include but are not limited to:

- Molecular and cellular signaling in the brain;
- High resolution spatio-temporal neuroimaging;
- Neutron technologies for brain imaging;
- Nanosensors;
- Computational methods for multi-scale, multimodal brain data integration and analytics;
- Neuro-trauma and neuro-rehabilitation;
- Epidemiological and clinical applications in neurological and neuropsychiatric disorders.



Submission in four-page IEEE short paper format are invited. To submit, follow the link:
https://www.ornl.gov/bsec_conferences/2014/author_toolkit.shtml. Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

Important Deadlines:

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| • Submission Deadline of 4-page Manuscript : | March 23, 2014 |
| • Notification of Acceptance: | April 5, 2014 |
| • Submission of Camera-Ready Manuscript: | April 30, 2014 |
| • Registration Deadline: | April 15, 2014 |

Registration Costs:

General Registration (including the workshop): \$220.00
DOE Oak Ridge Reservation employees (ORNL, Y12, DOE-ORO): \$150.00
Undergraduate and Graduate Students: \$150.00
Workshop Registration Only: \$50.00