

*First Annual  
ORNL Biomedical Science & Engineering Conference  
Exploring the Intersections of Interdisciplinary  
Biomedical Research  
March 18-19, 2009*

**Call for Papers**

Multidisciplinary approaches are required to address the current challenges in biomedical sciences. The Biomedical Science and Engineering Center (BSEC) at Oak Ridge National Laboratory (ORNL) is hosting its first annual conference to address issues facing the medical community. The conference will provide an opportunity for professionals and researchers from cross-cutting biomedical science and engineering disciplines to discover cutting-edge technologies, and to exchange ideas, research results, experiences, and visions in the fields of biomedical informatics, modeling and simulation, and measurement science and imaging technologies. The conference theme is: Innovative, interdisciplinary research trends in biomedical technologies and research for maximum application-specific problem solving.

**Conference Topics:**

- 1) Biomedical Informatics (the intersection of computer science and medicine; i.e., data analytics, 3-D visualization, user interfaces, data fusion, and multi-modal integration)
- 2) Modeling and Simulation (visualization, organ models, mathematical, mechanistic and statistical modeling of biomedical problems)
- 3) Measurement Science and Imaging Techniques (diagnostic tools and devices, biomarkers and biosensors, advanced imaging technologies, and visualization techniques)

*The conference will include keynote, plenary, oral, and poster sessions.*

**Topics of interest include, but are not limited to:**

- Wound Healing
- Traumatic Brain Injury
- Inflammation
- Breast Cancer
- Vascular Pathologies
- Systems Medicine
- Neuronal Development
- Knowledge Discovery/Data Mining
- Tools/technologies for decision-making, diagnosis, and device development
- Tools/technologies for data analytics, text and image processing, and machine learning

**Submission Requirements:**

Participants are invited to electronically submit original, unpublished research contributions. All abstracts must be 300-500 words long and written in English. They will be refereed for quality, originality, and relevance by the program committee. Authors of the accepted abstracts will be invited to submit four page papers in standard IEEE double column format. Please submit abstracts online at:

[https://www.ornl.gov/ccsd\\_registrations/bsec/abstract\\_registration.cfm](https://www.ornl.gov/ccsd_registrations/bsec/abstract_registration.cfm)

Abstracts must follow requirements established by IEEE-EMBS and include title and authors (first name, surname), indicating the presenter by underlining their name and providing author's contact details: affiliations, department, full address (street, city, state/province, and country), telephone, fax, and Email.

**Important Dates:**

January 26, 2009  
February 4, 2009  
February 11, 2009  
March 13, 2009

**Foreign National Registration Deadline**

Closing date for abstracts for papers and posters  
Notification of acceptance/rejection of abstracts  
Four-page papers (IEEE format) due for review  
(electronic format only).

[http://computing.ornl.gov/cse\\_home/cms/conference/index.shtml](http://computing.ornl.gov/cse_home/cms/conference/index.shtml)



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**Gary Alley**

*Oak Ridge National Lab.*

**Technical Program**

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