IWBDA 2017

AUGUST 8-10TH PITTSBURGH, PA
AUGUST 11TH SBOL

IWBDA 2017 Committee

General Chair
Natasa Miskov-Zivanov
University of Pittsburgh

Program Committee Chair
Nicholas Roehner
Boston University

Publication Chair
Evan Appleton
Harvard University

Web Chair
Aaron Adler
BBN Technologies

Finance Chair
Traci Haddock-Angelli
iGEM Foundation

Finance Co-Chair
Jacob Beal
Raytheon BBN Technologies

Local Chair
Cheryl Telmer
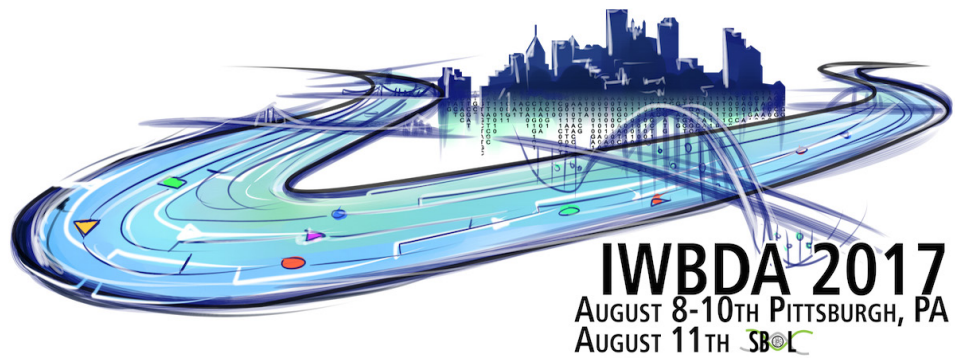*Carnegie Mellon University*

Local Co-Chair
Khaled Sayed
University of Pittsburgh

Local Co-Chair
Adam Butchy
University of Pittsburgh

Organized by
Bio-Design Automation
Consortium (BDAC)

About IWBDA 2017

The Ninth International Workshop on Bio-Design Automation (IWBDA) at the University of Pittsburgh will bring together researchers from the synthetic biology, systems biology, and design automation communities to discuss concepts, methodologies and software tools for the computational analysis and synthesis of biological systems.

The field of synthetic biology, still in its early stages, has largely been driven by experimental expertise, and much of its success can be attributed to the skill of researchers in specific domains of biology. There has been a concerted effort to assemble repositories of standardized biological parts; however, creating and integrating these parts remains an ad-hoc process. Inspired by these challenges, the field has seen a proliferation of efforts to create computer-aided design tools addressing synthetic biology's specific needs, many drawing on prior expertise from the electronic design automation community.

The IWBDA offers a forum for cross-disciplinary discussion, with the aim of seeding and fostering collaboration between the biological and the design automation research communities.

Topics of Interest

- Engineering methods inspired by biology
- Domain specific languages for synthetic biology
- Automated assembly techniques
- Design methodologies for synthetic biology
- Standardization of biological components
- Computer-aided modeling and abstraction techniques
- Data exchange standards and models for synthetic biology

Key Dates

Abstract Submission deadline:	April 28, 2017
Scholarship application due:	May 12, 2017
Abstract and scholarship notification:	May 26, 2017
BDAthlon team application due:	June 2, 2017
BDAthlon competition:	August 8, 2017
Main IWBDA workshop:	August 9-10, 2017
SBOL workshop:	August 11, 2017

Abstract Submission

Abstracts for oral and poster presentations should be two pages long, following ACM SIG Proceedings format. Detailed instructions will be posted on the IWBDA 2017 website.

BDAthlon Competition

The BDAthlon will be held on Aug. 8, 2017. Participating teams will work on a set of programming challenges. Prizes will be awarded to the winners at the close of IWBDA.

Travel Scholarships

Students and young researchers who have submitted an abstract are invited to apply for travel scholarships. These funds will go towards flight and accomodation costs.

SBOL Workshop

A Synthetic Biology Open Language (SBOL) workshop will be held on Aug. 11, 2017. Learn more about the SBOL standard at www.sbolstandard.org

IWBDA Information

Website:
www.iwbdaconf.org/2017/

Contact the committee:
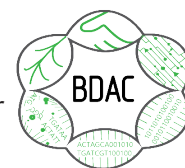iwbda-exec@lists.bio-design-automation.org

BDAC Information

Board of Directors:
Douglas Densmore, *President*
Aaron Adler, *Vice President*
Traci Haddock-Angelli, *Treasurer*
Natasa Miskov-Zivanov, *Clerk*

Website:
www.bio-design-automation.org

BDAC BioDesign Automation Consortium

Host University

PITT | SWANSON ENGINEERING