

# 3<sup>rd</sup> International Workshop on Verification of Engineered Molecular Devices and Programs

July 19, 2018, Oxford, UK - <http://dna.caltech.edu/vemdp2018/>

## About

VEMDP 2018 is a one-day workshop, affiliated with the 30th International Conference on Computer Aided Verification (CAV), that aims to promote discussion and collaboration at the intersection between formal methods and biology.

While the workshop prioritises contributions on the formal modelling and analysis of engineered biosystems, we also encourage submissions where either formal verification is applied to natural biosystems, or techniques complementary to formal methods are used for the study of engineered biosystems, including but not limited to:

- DNA computing, DNA robotics, and other forms of natural information processing, sensing, and actuation,
- (stochastic) chemical reaction networks,
- engineered transcription networks and other synthetic biology applications.

Relevant modelling and analysis techniques include:

- automated verification,
- formal languages and methods,
- computer-aided design tools (e.g. automated synthesis),
- equivalence and abstraction of systems,
- static analysis,
- constraints modelling,
- other analysis techniques (optimisation, dynamical systems, topology, etc.).

## Invited speakers

- **Sara-Jane Dunn**, Microsoft Research
- **Andrew J. Turberfield**, University of Oxford

## PC co-chairs

- **Michael Boemo**, University of Oxford
- **Luca Cardelli**, Microsoft Research
- **Frits Dannenberg**, Caltech
- **Nicola Paoletti**, Stony Brook University

## Format

VEMDP 2018 will accept contributions describing **novel**, **in-progress** or **previously published** work. Authors must indicate which of these three categories applies to their submission. We will accept two kinds of contributions:

- extended abstracts for oral presentation (3 pages limit, LNCS style),
- abstracts for poster presentation (1 page limit, LNCS style).

## Important dates

- Abstract submission: **April 23, 2018** (extended)
- Notification: **May 15, 2018**
- Camera-ready: **May 31, 2018**
- Workshop: **July 19, 2018**