

## **DySoC Critical Workshop: Modeling Complex Systems in Archaeology Saturday-Sunday, 9-10 June 2018**

### **Schedule of Events**

**All Events will take place at NIMBioS at the University of Tennessee, Knoxville, Darwin Conference Room (103), Claxton Building, 1122 Volunteer Blvd.**

**Walking Directions from the Four Points Sheraton to NIMBioS may be found on the next page.**

#### **Saturday, 9 June 2018 (Presentations)**

*Presenters are scheduled for 30 minutes with open time for discussion afterward.*

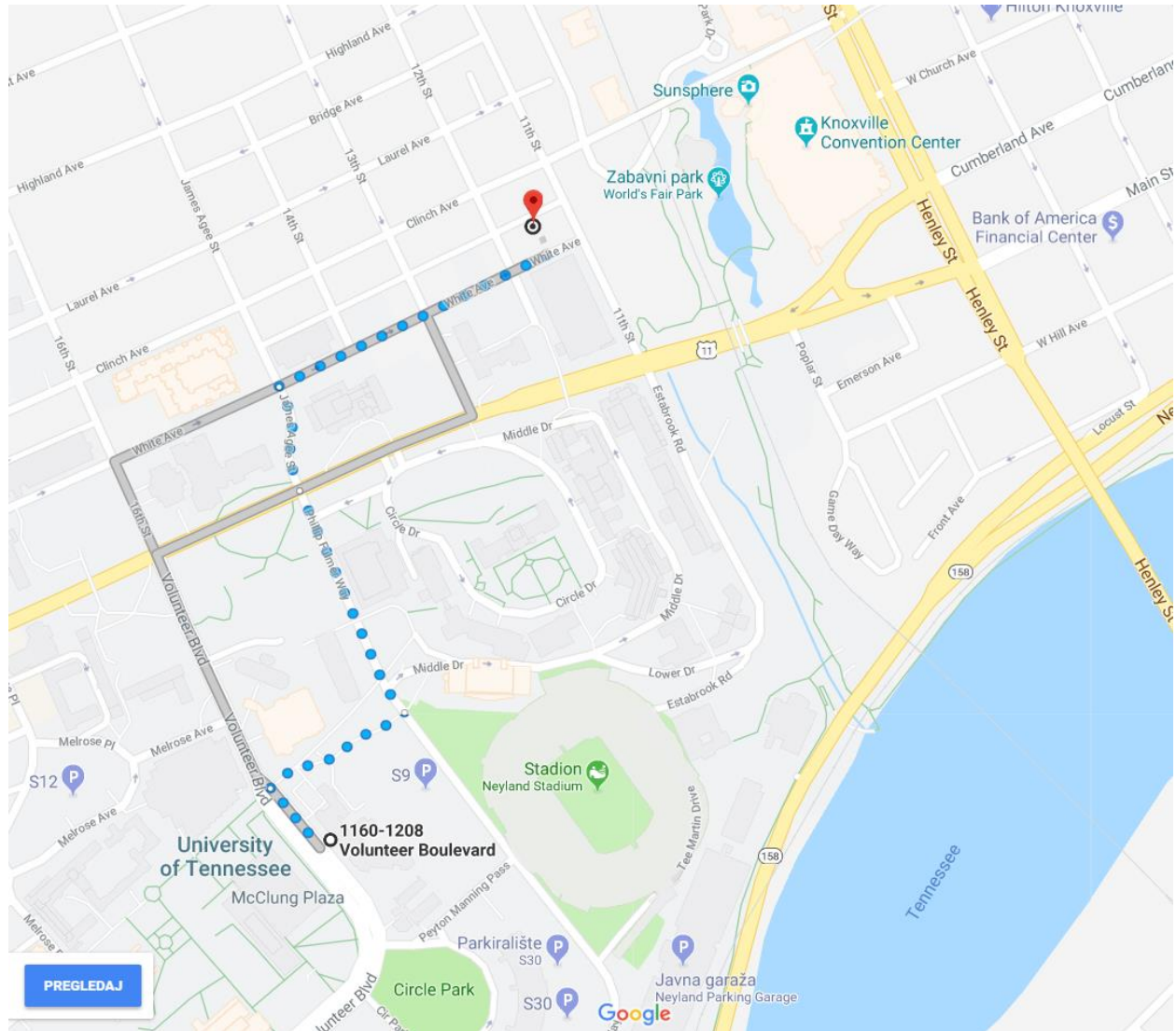
- 9:00 am. Breakfast.
- 9:30 am. Alex Bentley (University of Tennessee) – “Modelling Complex Systems in Archaeology: An Overview of the Past Twenty Years.”
- 10:30 am. Simon Carrignon (Barcelona Supercomputing Center) – “Approximate Bayesian Computation to Link Highly Stochastic Agent Based Models with Archaeological Data.”
- 11:30 am. Jack Hanson (University of Colorado) – “Theoretical, Empirical, and Computational Approaches to the Urban Population of the Roman Empire.”
- 12:30 pm. Lunch.
- 1:30 pm. Katherine Crawford (University of Southampton) – “Using ABM to Study Ancient Ritual Movement Interactions.”
- 2:30 pm. Stephen Collins-Elliott (University of Tennessee) – “Probability and Archaeological Finds Data: Information Loss, Sampling, and Inference.”
- 3:30 pm. General Discussion on Model Selection, Comparison, and Evaluation.
- 7:00 pm. Dinner at Oliver Royale (Downtown at 5 Market Square)

#### **Sunday, 10 June 2018 (Technical Roundtable)**

*Sunday's roundtable is dedicated to providing technical details of the methods used in the Saturday presentations: please be prepared to offer a brief walk-through on a part or all of your presentation the day before to work through with the group.*

- 9:00 am. Breakfast
- 9:30 am. R (Carrignon, Collins-Elliott, Hanson)
- 10:30 am. Python (Collins-Elliott)
- 11:15 am. ArcGIS (Hanson)
- 12:00 pm. Lunch
- 1:00 pm. Netlogo (Crawford)

## Directions to NIMBioS from the Four Points Sheraton



Four Points Sheraton is located just to the west of World's Fair Park, providing a central location to both the University of Tennessee Campus as well as Downtown Knoxville, each of which is around 12-15 minutes away by foot.

Directions to NIMBioS (located on the lower level of Claxton Building, 1122 Volunteer Blvd.) from Four Points: pedestrian routes are illustrated on the above map: you can proceed via 12<sup>th</sup> St. due south and take the pedestrian bridge across Cumberland Ave. Turn left on Cumberland, and go straight until you reach 16<sup>th</sup> St./Volunteer Blvd. Take Volunteer Blvd. south, and will be on the left side of the street.

Directions to Oliver Royale downtown from Four Points: go one block north and turn right onto Clinch Ave. and follow it until Market Ave. Go left one block and you will arrive at Market Square. Oliver Royale is located on the left..