

7th Annual  
St. Louis Ecology, Evolution, and Conservation Retreat  
Center for Global Citizenship, Saint Louis University  
September 16, 2017

8:00 – 9:00 **Bagels and coffee; sign in; set up posters and talks**

9:00 **Welcome and Introduction**

9:15 *Can phylogenomics unravel rapid radiations?: the order Zingiberales as a case study.* **Monica Carlsen**, Missouri Botanical Garden.

9:30 *As good as the competition? What photosynthesis and allocation patterns say about the shade tolerance of Amur honeysuckle and two native species.* **Kurt Schulz**, Department of Biological Sciences, Southern Illinois University Edwardsville.

9:45 *Trading spaces: changing shelters changes predation of Urbanus dorantes and U. proteus (Hesperiidae).* **Christina S. Baer** and Robert J. Marquis, University of Missouri-St. Louis and the Whitney R. Harris World Ecology Center.

10:00 *Beginning Research on Bumblebee-Pollination Networks in the Chinese Himalayas.* **Alan Moss** and Peter Bernhardt, Department of Biology, Saint Louis University, Zong-Xin Ren, Kunming Institute of Botany.

10:15 **Coffee Break and Posters**

10:45 *A 3D approach to the analysis of movement patterns and home range estimation for the Timber Rattlesnake (Crotalus horridus) in central Illinois.* **Andrew Jesper** and Scott Eckert, Department of Biology and Natural Resources, Principia College.

11:00 *Genomic signature of asymmetric pollen transfer among Burmeistera species.* **Nathan Muchhala**. Department of Biology, University of Missouri-St Louis.

11:15 *The allometry of animal movement.* **Carl Cloyd** and Anthony Dell, National Great Rivers Research and Education Center and Washington University in St. Louis.

11:30 *Local niche-assembly mechanisms influence global patterns of forest biodiversity.* **Dilys Vela Díaz**, Department of Biology, Washington University in St. Louis, Marko J. Spasojevic, Department of Evolution, Ecology, and Organismal Biology, University of California Riverside, Joseph A. LaManna, WUSTL, Jonathan A. Myers, WUSTL, and the Smithsonian Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network: Norman A. Bourg, Sarayudh Bunyavejchewin, Li-Wan Chang, Jyh-Min Chiang, George B. Chuyong, Keith Clay, Richard Condit, Matthew E. Craig, James W. Dalling, I. A. U. Nimal Gunatilleke, C. V. Savitri Gunatilleke, Chang-Fu Hsieh, Stephen P. Hubbell, Daniel J. Johnson, David Kenfack, Andrew J. Larson, James A. Lutz, Sean M. McMahon, William J. McShea, Vojtech Novotny, Geoffrey G. Parker, Richard P. Phillips, Pavel Samonil, I-Fang Sun, Duncan W. Thomas, Benjamin L. Turner, John B. Vincent, Tomas Vrska, and George D. Weiblen.

11:45 *Temperature influence on mating behavior of male and female Enchenopa binotata (Hemiptera: Membracidae) treehoppers.* **Dowen Jocsón** and Kasey Fowler-Finn, Department of Biology, Saint Louis University.

12:00 – 1:00 **Lunch Break**

1:00 *Transmission of pathogen between introduced and endemic carnivores in the Betampona Natural Reserve landscape, Madagascar.* **Fidisoa Rasambainarivo** and Patricia G Parker, Department of Biology, University of Missouri-St. Louis.

1:15 *A new Flora of Missouri; taxonomy & digitization.* **Aaron Floden**, Missouri Botanical Garden.

1:30 *Plant-pathogen interactions over a latitudinal gradient: potential consequences of variation in winter climate.* **Rachel Penczykowski**, Department of Biology, Washington University in St. Louis.

1:45 *Ecological Research at the Shaw Nature Reserve: Past, Present and Future.* **Quinn Long**, Missouri Botanical Garden.

2:00 *The role of complexity in bumblebee partner choice in floral communities.* **Aimee Dunlap**, Department of Biology, University of Missouri-St. Louis.

2:15 *Vitis Underground: below-ground perspectives on plant conservation, diversity, and crop improvement.* **Allison Miller**, Department of Biology, Saint Louis University.

2:30 *Housekeeper or house-crasher? Ecological context and partner genotype influence the impact of endosymbiont colonization in amoebae.* **Susanne DiSalvo**, Department of Biological Sciences, Southern Illinois University Edwardsville.

2:45 *Big brains stabilize populations and facilitate colonization of variable habitats in birds.* **Trevor Fristoe**, Department of Biology, Washington University in St. Louis, Andrew Iwaniuk, Canadian Center for Behavioral Neuroscience, University of Lethbridge, Carlos Botero, Department of Biology, Washington University in St. Louis.

3:00 **Coffee Break and Posters**

**Keynote address**

4:00 *On the origin of species on islands: signal divergence and speciation in Solomon Island Flycatchers.* **Dr. Albert Uy**, Department of Biology, University of Miami.

5:00 Concluding remarks

5:30 Happy Hour and BBQ at the Humboldt Pavilion in Tower Grove Park