

# Swarming Events in Cleveland

**Harnessing the power of a swarm.**

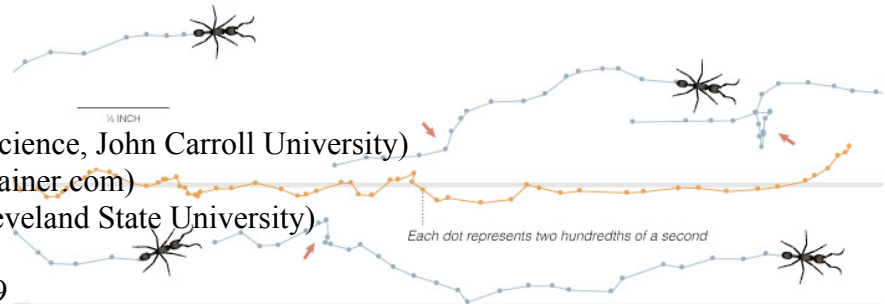
**A collaboration between IngenuityFest and Science Café**

## Who:

Dr. Dan Palmer (Computer Science, John Carroll University)

Mr. Dave Williams (GameTrainer.com)

Mr. Kal Ivanov (Biology, Cleveland State University)



**Date:** Monday, June 29, 2009

**Time:** Drinks start at 6:30 pm, discussion starts around 7 pm.

**Location:** Bodega on Coventry, 1854 Coventry Rd., Cleveland Heights

**What:** For most people, the word “swarm” conjures a mental image of millions of insects moving en masse from one place to another. Although some insects do swarm, they aren’t the only things that do. In fact, many important human activities – such as air travel and sending packages – can be modeled using swarms and the properties that emerge from the individual actions of swarm members. The challenge is figuring out exactly how such emergent properties arise, and how they can be integrated into programs to make the activities of humans (and robots) more efficient. Come to discuss swarms and swarming behavior from mathematical, biological and applied perspectives, and to think about how swarm behavior can be used to help us better meet the challenges of everyday life! The diverse backgrounds of our experts should make for an engaging and interesting discussion.

**See:** <http://www.youtube.com/watch?v=U6qJzkB6K9w>

## Swarming events are a collaboration between IngenuityFest and Science Café:

1. Pre-Ingenuity discussion at Bodega on Coventry: 6:30 pm, Monday, June 29, 1854 Coventry Rd, Cleveland Heights. **FREE.** [www.bodegaoncoventry.com](http://www.bodegaoncoventry.com)

2. Participatory human swarming activity at Ingenuity Festival: 3 pm, Saturday & Sunday, July 11 and 12, Playhouse Square. **FREE** (with festival admission). [www.ingenuitycleveland.com](http://www.ingenuitycleveland.com)  
Come join the swarm! It’s easy to participate and fascinating to watch!

3. Post-Ingenuity discussion at Science Café: 6:30 pm, Monday, July 13, GLBC Tasting Room, 2701 Carroll Ave (by Dave’s Market), Ohio City. **FREE.** [www.greatlakesbrewing.com](http://www.greatlakesbrewing.com)

**ingenuity**fest  
CLEVELAND  
JULY 10-12, 2009