Title: Security in the CS Curriculum
Leaders: Bill Chu, Maureen Doyle, Kevin Du, Siddharth Kaza, Blair Taylor
Attendees: 20

The BOF focused on some specific questions and then continued to general discussion. The summary is listed below.

Does security have a place in CS1, CS2, and Data Structures?
- Secure coding is very important, there are some issues like
  - input validation
  - information hiding
  - passwords (comp. literacy)
  that need to be explicitly included from the beginning.
- Use tools at CS1, CS2 that include support for security
- Pedagogy idea: compare sloppy code to actual viruses and other vulnerabilities in real code that have been known to cause problems in the real-world.
- There was support for this argument as representatives from many schools mentioned that we do not have enough students to have tracks, hence security needs to be in all courses or our students may not see it at all.
- Pedagogy idea: Show the leap year vulnerability of the Zune player in classes. It is easy to understand code.

How does one get colleagues to adopt any materials that might be developed to address security issues?
- Talk to NSA about including requirements into CAE qualifications. So – include not just security related courses but also security in each of the courses taught as a requirement.
- Train faculty – there was some disagreement on whether this can be done effectively since there is resistance
- Develop policy at the departmental and accreditation/certification body levels
- Write a textbook
  - At this point a participant pointed that there are free text books available however they themselves have many security vulnerabilities in their code
- Include explicit security bullet points in course objectives
- Talk to chairs to allow security faculty to guest-lecture in other courses
  - In return for a course release?
  - After a few semesters, the target faculty will start including security in their classes themselves
- Have funded dedicated RA to help with your materials so faculty has an easier time adapting.
- Have minimally invasive materials (possibly with no teacher involvement)
- OWASP is building a live cd with all old web security problems

Other issues raised?
- Why is industry not demanding more secure coding training at universities?
  - Part of the issue is acceptance of bad code in the market
- Why are we still teaching C/C++ or PHP?