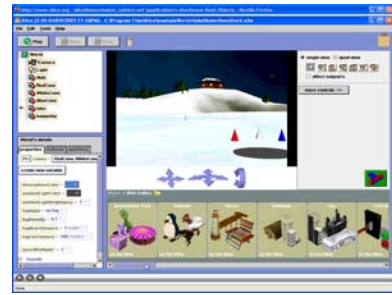


Summer 2009
July 6th - July 24th 2009
8:00 -1:00
ARL Computer Lab



Information Assurance/Computer Security/Digital Forensics: Young Scholars Program

High school IS/IA/DF Scholars gain valuable skills related to digital literacy while exploring career opportunities related to Computer Security, Information Assurance, and Digital Forensics. Investigate the design and use of games and simulations for educational purposes, and the research and development issues associated with each. Experience various modeling and simulation software packages (MicroWorlds, Excel, Scratch, and StarLogo).

Participants will engage in hands-on activities and learn about digital literacy (technology fluency and applications, team building, collaboration tools, problem based critical thinking), defending against viruses, Trojan Horses, and worms; and applying basic security concepts through gaming, modeling and simulation development, while investigating exciting careers that interconnect the fields of science, math, technology, and computer security. Students will also discuss such topics as cryptography, system vulnerabilities, and careers in computer security/digital forensics, and will learn more about security clearance processes and identity management strategies. Tours of local labs will be conducted, and students will have the opportunity to hear from a variety of speakers from state and federal agencies and local security companies.



- Explore various modeling and simulation software packages (MicroWorlds, Excel, Scratch, and StarLogo)
- Create an Animated Story & Interactive Game/Maze with MicroWorlds
- Learn more about Careers in IA/IS and Digital Forensics
- Develop an Interactive Educational Mini Simulations with Excel, Star Logo and Scratch
- Develop Digital Forensics and Cryptography Skills through activities and exercises



Tentative Field Trips & Speakers:

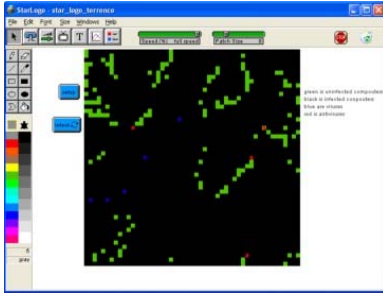
- FBI Digital Forensics
- National Electronics Museum
- Edgewood Chemical Biological Center
- Maryland Internet Crimes Against Children Task Force
- CyberWATCH
- NSA/ Cryptologic Museum

For More Information:

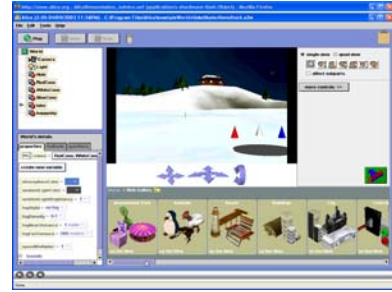
Lee Summerville
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ARL Computer Lab



***Information Assurance/Computer Security/Digital Forensics:
 Young Scholars Program***



Student Name (Last name, First Name, MI) : _____

Street Address: _____

City, State, Zip Code: _____

Parent/Guardian (Last name, First Name) : _____

Home Phone: _____

Parent/Guardian Work/Cell Phone: _____

Parent/Guardian Email Address if available: _____

Emergency Contact (Last Name, First Name): _____

Emergency Contact Home Phone: _____

Emergency Contact Work/Cell Phone: _____

 Signature of Student

 Date

 Signature of Parent/ guardian

 Date

PLEASE RETURN THIS FORM TO
ARL STEM OFFICE
10920 Route 108
Ellicott City, MD 21042