NSF-sponsored CSP Projects

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CREC’s Academy of Aerospace and Engineering
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President, CTCSTA & CSP Pilot Instructor
Development Leaders

1. AP Computer Science Principles, Phase 2 Pilot, Durham, NC.
   http://apcsprinciples.org/ : Owen Astrachan (PI, Duke) & Amy Briggs (co-PI, Middlebury)

2. College Board:
   Lien Diaz, ldiaz@collegeboard.org.
Project Leaders Contd.

1. Supervise the pilot instructors and the course development process
2. Collect data on all csp projects.
3. Owen and Amy: Great contact for general CSP information. Fran is a member of the Development Committee.
4. College Board: supervises the exam development process and final revision of the curriculum.
List of NSF CSP projects

Thirteen projects listed on CS10K website: http://cs10kcommunity.org/projects

Some listed on apcsprinciples.org.
Mobile CSP

Project: Mobile CSP, Hartford, CT
Website: http://www.mobile-csp.org/
Programming tool: App Inventor
http://appinventor.mit.edu/explore/
Curriculum: Full (lesson plans, assessments, etc.):
Online: https://ram8647.appspot.com/mobileCSP/course
Mobile CSP contd.

Interesting facts:
Building ready to use Android-based Mobile Apps
http://www.nbcconnecticut.com/video/#!/on-air/as-seen-on/Students-Develop-Apps-for-City-of-Hartford/271438201
Contacts: Ralph Morelli (PI)
Chinma Uche (co-PI)
Project Engage

Project: Project Engage, Austin, Texas, website: http://www.cs.utexas.edu/~engage/
Curriculum: Full (lesson plans, assessments, etc.): Online: Thriving in our digital world,
http://www.cs.utexas.edu/~engage/
Project Engage contd.

Interesting facts:
This day in History.
Great Introductory video, https://onramps.instructure.com/courses/1196409
Contacts:
Bradley Beth
CS Matters in Maryland

Project: CS 10K: CS Matters in Maryland
Website: http://ce21maryland.umbc.edu/
Programming tool: Python
https://www.python.org/
Curriculum:
in pdf http://ce21maryland.umbc.edu/projects/cs-matters/
CS Matters in Maryland contd.

Interesting facts:

Contacts:
Marie desJardins
IDoCode: A sustainable Model for Computer Science in Idaho

Project: IDoCode, Boise, ID
Website: http://coen.boisestate.edu/idocode/
Programming tool:
Curriculum:
Interesting facts:
Teacher training program. MS in STEM Education

Contacts:
Amit Jain
(208) 426-3821
New Mexico Computer Science For All

Project: New Mexico CS for All, Santa Fe, NM
Website: http://cs4all.org/node/about
Programming tool: NetLogo http://ccl.northwestern.edu/netlogo/
Curriculum:
New Mexico CS4All contd.

Interesting facts:
Modeling and Simulation of Complex Systems

Contacts:
Irene Lee
Leading the Way to CS10K

Project: Leading the Way to CS10K, West Lafayette, IN
Website: http://pd4cs.cs.purdue.edu/
Programming tool: Project Lead the Way
http://www.pltw.org/
Curriculum:
Leading the Way to CS10K contd.

Interesting facts:
Part of the Project Lead the Way project

Contacts:
Aman Yadav,
Beauty and Joy of Computing

Project: Beauty and Joy of Computing, Berkeley, CA
Website: http://bjc.berkeley.edu/
Programming tool: SNAP http://snap.berkeley.edu/
Curriculum:
Beauty and Joy of Computing contd.

Interesting facts:
1. Scratch-like tool
2. Allows manipulation of functions of functions: recursion:

http://bjc.berkeley.edu/website/curriculum.html

Contacts:
Dan Garcia
Computing in Secondary Schools

Project: Computing in Secondary Schools (CISS)
Website: http://selab.csuohio.edu/
Programming tool: Alice
http://www.alice.org/index.php/
Curriculum:
Computing in Secondary Schools contd.

Interesting facts:
1. Use ComPASS curriculum from San Diego
2. Makes movies

Contacts:
ciss@csuohio.edu
(216) 687-5341
Educational Media to Advance Computer Science (EMACS)

Project: Educational Media to Advance Computer Science (EMACS)

Website: http://experts.umn.edu/grantDetail.asp?t=ep1&id=7630&o_id=99

Programming tool: Scratch http://scratch.mit.edu/

Curriculum:
Educational Media to Advance Computer Science contd.

Interesting facts:

Contacts:
Siddika S Guzey
(612) 626-2132
Developing and Supporting CS Teachers

Project: Developing and Supporting CS Teachers via Strategic Partnering, Newark, DE
Website: https://sites.udel.edu/partner4cs/
Programming tool: Scratch http://scratch.mit.edu/ and SNAP http://snap.berkeley.edu/
Curriculum:
Developing and Supporting CS Teachers contd.

Interesting facts:

Contacts:
Partner4cs@udel.edu
ComPASS

Project: ComPASS, San Diego, CA
Website: http://www.ce21sandiego.org/
Curriculum:
ComPASS contd.

Interesting facts:
1. Makes movies
2. Wealth of objects in the gallery.


Contacts:
contact@ce21sandiego.org, (858) 822-5492.
A model for Statewide Deployment of CS Principles

Project: A model for Statewide Deployment of CS principles Courses, Alabama, AL

Website: https://csp-cs4hs.appspot.com/preview

Programming tool: SNAP   http://snap.berkeley.edu/

Curriculum:
A model for Statewide Deployment of CS Principles contd.

Interesting facts:
2. Allows generation of code in other traditional text languages. https://www.youtube.com/watch?v=ysq-wvq7eSY

Contacts: Jeff Gray
Other relevant resources

3. Code in the browser http://codeinthebrowser.org/