

**Building Locally  
Linking Globally**

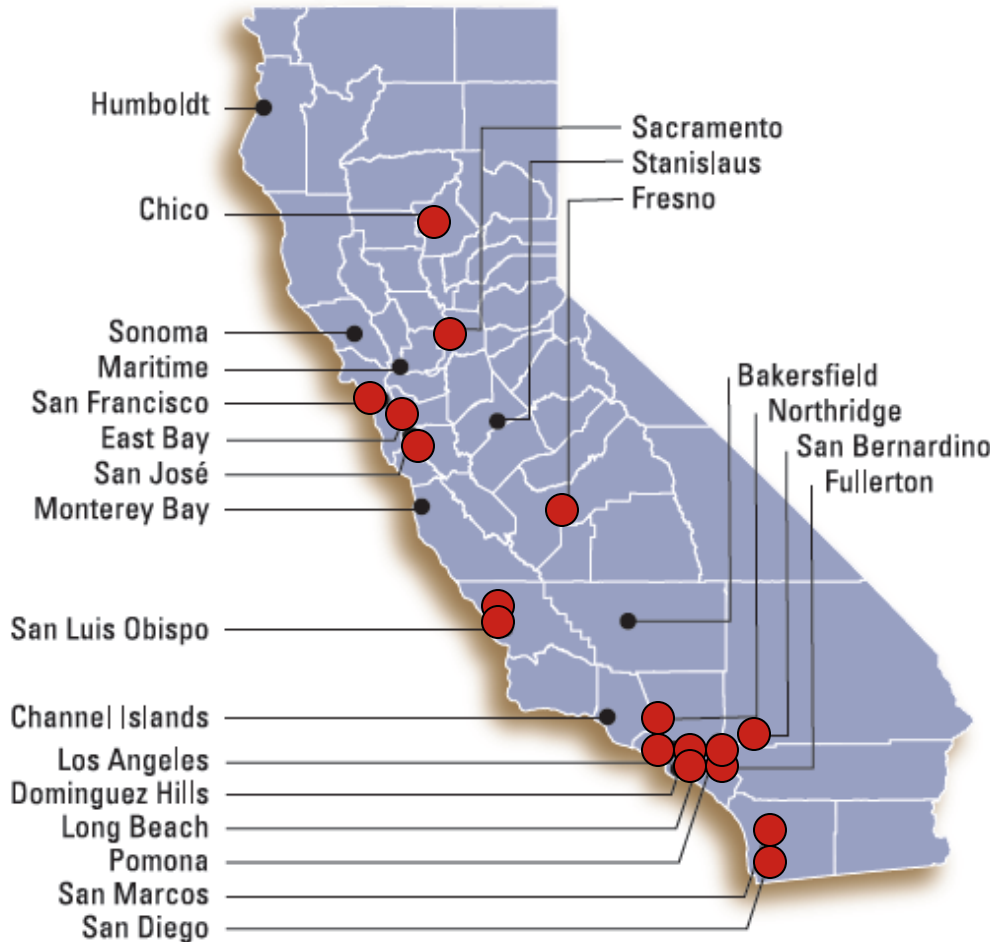
**Networking Micro-Communities of New Science and Math  
Teachers Using the NSDL to Advance Instructional  
Excellence in High Need Schools**

Elizabeth Ambos and David Andrews  
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# Building Locally, Linking Globally

- Project began in November 2007; steering committee involves leadership from Fresno, Los Angeles, Long Beach, Monterey Bay, Pomona, San Bernardino, and Chancellor's Office of the California State University
- “Building Locally” : individual CSU campuses with active **Robert Noyce Scholars** programs create project-specific “micro communities” that include:
  - Social support systems – MERLOT “Voices” capability
  - Share and critique lesson plans/learning materials – Noyce Institutional Teaching Commons (ITC)
  - Create and share ePortfolios – KEEP Tool Kit
- “Linking Globally”: individual “micro communities” can:
  - Link together to form a regional to national Noyce Scholars community to support mathematics and science teaching
  - Access to the wealth of learning objects, library search tools, visualizations/graphics/data, and other science and mathematics information housed at the **NSDL (National Science Digital Library)** and **MERLOT (Multimedia Education Resource for Learning and On Line Teaching)**

## THE 23 OUTSTANDING CAMPUSES OF THE CSU



*16 of 23  
California State University  
Campuses now participate  
in the NSF  
Robert Noyce Scholar  
Program*

*Most of the CSUs have  
strong ties to K-12 high  
need school districts*

● **CSU Noyce  
Scholar Programs** 3

## Overview of Noyce-NSDL-MERLOT Project Activities

- *Build* a select collection of online science and mathematics learning content and curriculum that is successful in high needs schools, particularly in middle and high schools; **emphasizing inquiry conducted in complex classroom management situations**
- *Share* experiences with instructional applications of NSDL-MERLOT resources and such tools as CSULA's effective and engaging "Virtual Courseware" science simulations
- *Link* the CSU Noyce Scholars Teaching Commons to their local school district user communities, enabling Noyce Scholars to share NSDL-MERLOT teaching resources and pedagogy with teacher colleagues
- *Provide* Scholars with powerful ePortfolio tools to assist them in using NSDL and MERLOT resources to meet the challenges of teaching in high need settings, work effectively with under-achieving students, build their own professional resumé, prepare for teacher performance assessments, national board certification

## Communications

### Recent Events:

- April 5 Noyce Scholar Workshop at CSUMB**

Noyce Scholars participated in a very special, hands-on workshop hosted by the Noyce - MERLOT National Science Digital Library Project. This was an opportunity to be part of the digital learning institute and learn about the many teaching & learning resources available to math and science teachers. Photos from this workshop are posted [here](#).



- April 19 Noyce Scholar Workshop at CSULA**

Noyce Scholars (above) participated in a very special, hands-on workshop hosted by the Noyce - MERLOT National Science Digital Library Project. This was an opportunity to be part of the digital learning institute and learn about the many teaching & learning resources available to math and science teachers.

### Want to email someone you met at the Noyce Workshop?

- Go To: <http://www.merlot.org/merlot/advSearchMembers.htm>
- Type in NOYCE in the "ASSOCIATIONS" box on this page and hit ENTER
- You'll get a list of all the NOYCE Scholars that you can browse through
- You can also "SORT BY" a number of features (alphabetically, etc) by making a selection from the drop down list in the GRAY BAR and then CLICK GO
- If you're logged in as a MERLOT member, the Noyce Scholar's email address will be right on the page. Just CLICK on the email address and you'll be able to send them an email

[top of page](#)

### [Are You A Noyce Scholar in the CSU? Join the CSU Noyce Scholars Listserve](#)

The [listserv](#) will provide you periodic advice and information about Science and Math education in high need schools, a forum for your fellow Noyce Scholars to share successes, ask questions, pose problems, and for CSU Teacher Education and Science/Math Education faculty to respond to the needs of Noyce Scholars in a timely and simple manner.

### MERLOT Grapevine

Learn about the people, projects, and innovative uses of technology in teaching and learning in MERLOT's quarterly news letter. For more information, go to <http://taste.merlot.org/newsletters.html>

### NSDL Whiteboard

*NSDL Whiteboard Report* is a free bi-weekly newsletter published by NSDL since 2000 that includes information from NSDL projects and programs nationwide. Research news, community initiatives, program highlights, and information about events of interest to a broad audience of educators, digital library projects, librarians, collaborators, and funders are featured in *NSDL Whiteboard Report*. For more information, go to <http://nsdl.org/news/?pager=publication>

# First Year – Great Progress:

-Building the ITC content and associated tools  
 -Pilot Workshops for over 200 Noyce Scholars, Noyce PIs, and other science and math teaching professionals in California  
 -Testing modes of on-line delivery of professional Development  
 -Supplemental NSF funding for Mathematics 5

# Project Feedback Thus Far....

- Noyce Scholars, PIS, and other stakeholders have given us feedback that what they like *best* about our project are the opportunities to:
  - connect with other scholars and current teachers to form a multi-dimensional community of mathematics and science teachers in high needs schools
  - find resources and tools on the web in a “one stop shop mode” that are trusted and will actually transition (fairly) easily to classrooms with little technology infrastructure
  - Participate in professional development activities, particularly those that offer a “hybrid” approach: some face-to-face interactions, some on-line synchronous, and some asynchronous
  - share teachers’ own lesson plans and other teaching tools in a central web portal, tied to development of professional portfolios

## **Our Work Today....THANK YOU...In Advance**

- Building on our first year's success, we want to refine our services and programs
- Need input from you!
- We will now ask for you to think through some typical scenarios for use of the resources, tools, and professional development programs we have developed
- We also hope that some of you will volunteer to keep working with us over the next year



For more information

**<http://teachingcommons.cdl.edu/noyce/index.html>**