

Building Locally Linking Globally

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

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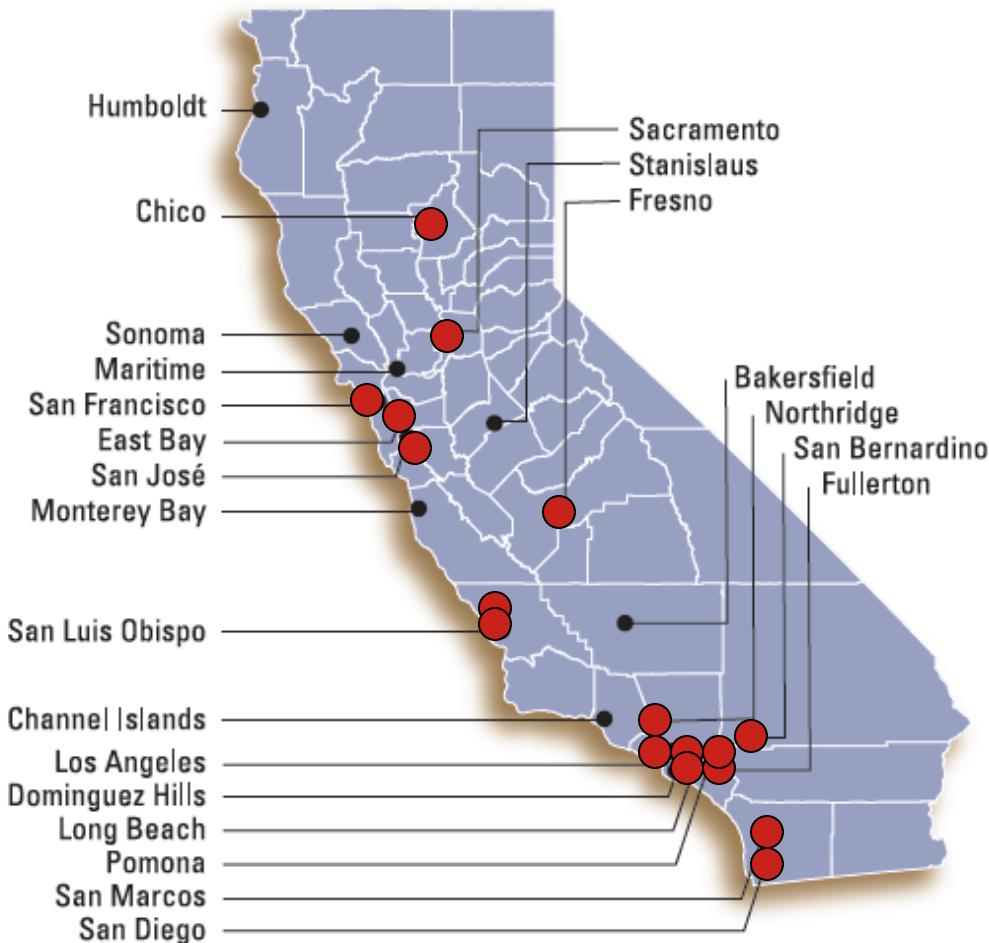
Western Noyce Scholars Conference

Ontario, CA

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?

1. Go To: <http://www.merlot.org/merlot/advSearchMembers.htm>
2. Type in NOYCE in the "ASSOCIATIONS" box on this page and hit ENTER
3. You'll get a list of all the NOYCE Scholars that you can browse through
4. 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
5. If you're logged in as a MERLOTmember, 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 [listserve](#) 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/?page=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 online 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

CSU The California State University

For more information

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