

# STEM Service-Learning Institute: Day 1 Agenda

## Thursday, January 27<sup>th</sup>, 8:30 am – 4:00 pm

<b>8:30 Continental Breakfast, Registration &amp; Networking</b> Pick up your “STEM SL Connections” card and start networking!	
<b>9:00 Welcome, introductions and overview of institute – Woodland/Winters Room</b>	
<b>9:15 STEM Service-Learning: The Opportunity – Woodland/Winters Room</b> Mike Brugh, CDE CalServe Initiative, will set the stage for the institute.	
<b>9:45 Developing and Implementing High Quality STEM Service Learning Projects</b> <b>“Experienced” Track – Woodland/Winters Room</b> 9:45 – 10:15 Deb Bruns, Region 3 Service Learning Lead, <i>Using and applying the K-12 Standards for Quality Service Learning</i> 10:15 – 11:45 Four Corners Discussions & Sharing Nate Ivy, Region 4 Service Learning Lead, <i>Youth Voice</i> Mike Brugh, CDE CalServe Initiative, <i>Putting the STEM in STEM Service Learning</i> Bob Bachmeier, YCOE Math Specialist & STEM SL Facilitator, <i>Linking to Curriculum</i> Poonie Holst, Service Learning Consultant, <i>Assessment &amp; Evaluation</i>	<b>9:45 Developing and Implementing High Quality STEM Service Learning Projects</b> <b>“Novice” track - Washington Room</b> John Durand, SL Coordinator, Galt <i>If you are relatively new to service learning, this is the workshop for you. Learn (or review) the key elements of high quality service learning projects.</i> <i>Tools &amp; resources to get you off to a successful start with your STEM service learning projects.</i>
<b>11:45</b> – All participants meet in <b>Woodland/Winters Room</b> for overview of lunchtime sessions <i>Don't forget to sign up for an afternoon planning group before the end of lunch</i>	
<b>12:30 – 1:15 Working Lunch Sessions</b> <i>Serve yourself from the buffet in the Woodland/Winters Room and then join the session(s) of your choice below.</i>	
<b>Building &amp; Sustaining Community Partnerships – Woodland/Winters Room</b> <i>See attached list of partners who will be available over lunch to talk with participants, share advice on successful partnerships and explore new collaborations.</i>	<b>Leadership for STEM SL – Washington Room</b> <b>School Site Leaders</b> , Facilitator: Mike Brugh <b>Community Partners</b> , Facilitator, Nate Ivy <i>Join a facilitated discussion on expanding STEM Service Learning in your sphere of influence – how to engage your colleagues and new partners.</i>
<b>Afternoon Sessions</b> <i>You will be working in small groups to refine your plans and give/get feedback and input from other participants. We will help you find the right group to work with. Groups will also be assigned to one of the “Technology Resources” workshops. Check the sign-up sheets in the Woodland/Winters Room.</i>	
<b>“A” Groups</b> <b>1:30 Technology Resources for STEM Service Learning</b> (in Esparto Computer Lab) <b>2:00 Putting It All Together: Planning Your STEM Service Learning Project</b>	<b>“B” Groups</b> <b>1:30 Putting It All Together: Planning Your STEM Service Learning Project</b> <b>2:30 Technology Resources for STEM Service Learning</b> (in Esparto Computer Lab)
<b>3:15 Reflections &amp; Evaluation of Day 1 – Woodland/Winters Room</b>	

## STEM Service Learning Institute Building & Sustaining Community Partnerships

The following partners will be available over lunch on Thursday, January 27th to meet with participants for one-on-one conversations:

Gwynn Benner	Energy Projects*Youth Corps	<a href="mailto:gwbenner@ucdavis.edu">gwbenner@ucdavis.edu</a> <a href="http://epyeducation.org">epyeducation.org</a>
Harry Cheng	UC Davis K-14 Outreach Center for Computing and STEM Education (CASE)	<a href="mailto:hhcheng@ucdavis.edu">hhcheng@ucdavis.edu</a> <a href="http://case.ucdavis.edu">http://case.ucdavis.edu</a>
Linda Christopher	LEED (Linking Education & Economic Development) and Project Lead the Way	<a href="mailto:lchristopher@leed.org">lchristopher@leed.org</a> <a href="http://www.leed.org">http://www.leed.org</a>
Suzette Delbono	SMUD (Sacramento Municipal Utility District)	<a href="mailto:sdelbon@smud.org">sdelbon@smud.org</a> <a href="http://www.smud.org">http://www.smud.org</a>
John Durand	Cosumnes River Preserve	<a href="mailto:jdurand@galt.k12.ca.us">jdurand@galt.k12.ca.us</a> <a href="http://www.cosumnes.org/">http://www.cosumnes.org/</a>
Megan Harns	UC Davis/John Muir Institute of the Environment	<a href="mailto:megan.harns@gmail.com">megan.harns@gmail.com</a> <a href="http://johnmuir.ucdavis.edu/">http://johnmuir.ucdavis.edu/</a>
Laura Leavitt & Susan Wheeler	SAGE (Sacramento Advocates for Girls Empowerment)	<a href="mailto:leavittl@sbcglobal.net">leavittl@sbcglobal.net</a> <a href="mailto:swheeler@sierracollege.edu">swheeler@sierracollege.edu</a>  <a href="http://www.sacsage.org">www.sacsage.org</a>
Fatima Malik	Health Education Council	<a href="mailto:fmalik@healthedcouncil.org">fmalik@healthedcouncil.org</a> <a href="http://www.healthedcouncil.org">www.healthedcouncil.org</a>
Mike Stark	Service Learning consultant	<a href="mailto:michaelstark@surewest.net">michaelstark@surewest.net</a> <a href="http://sites.google.com/site/servicelearningresources/">http://sites.google.com/site/servicelearningresources/</a>
Nina Suzuki	Center for Land-based Learning	<a href="mailto:nina@landbasedlearning.org">nina@landbasedlearning.org</a> <a href="http://www.landbasedlearning.org">www.landbasedlearning.org</a>
Karleen Vollherbst	U.S. Fish & Wildlife Service/Schoolyard Habitats	<a href="mailto:karleen.vollherbst@fws.org">karleen.vollherbst@fws.org</a> <a href="http://www.fws.gov/cno/conservation/schoolyard.cfm">http://www.fws.gov/cno/conservation/schoolyard.cfm</a>

# STEM Service-Learning Institute: Day 2 Agenda

## Friday, January 28<sup>th</sup>, 8:30 – 5:00 (inc. reception)

<p><b>8:30 Continental Breakfast and check-in</b> Welcome to our new participants from Regions 2 &amp; 5!</p>	
<p><b>9:00 STEM Service Learning in Practice –Davis/Washington Room</b> Jerry Delsol and Students, Woodland High School <i>Overview of Woodland High School’s STEM Service Learning efforts in Ag and Environmental Science Programs. Will include demonstration of Solar Teaching Program.</i></p>	
<p><b>9:30 EPICS (Engineering Projects in Community Service) – Davis/Washington Room</b> Pam Dexter &amp; Dr. William Oakes, Purdue University <i>Lessons learned and resources available from this model program in which students solve engineering and technology-based problems in partnership with community service and education organizations. EPICS teams throughout the country have developed projects ranging from homelessness prevention to environmental protection to creating learning devices for children with disabilities.</i></p>	
<p><b>11:00 Project Citizen: Engaging Students in STEM Policy Issues – Davis/Washington Room</b> Cricket Kidwell, Assistant Superintendent, Trinity County Office of Education <i>Project Citizen is a model program for engaging students in identifying, researching and analyzing public policy solutions to community issues. Learn how Project Citizen can be the foundation for STEM Service Learning projects that integrate STEM-content with language arts and history/social science.</i></p>	
<p><b>11:30 Project Citizen: A Closer Look</b> <i>Davis/Washington Room</i> <i>For those who want to learn more about how to use Project Citizen in your classroom or after school program.</i></p>	<p><b>11:30 EPICS: Teaching Engineering Design</b> <i>Woodland/Winters Room</i> <i>An in-depth session on EPICS Project Design Cycle and curriculum for engineering projects.</i></p>
<p><b>Working Lunch</b> <i>Serve yourself from Paco’s buffet in the Woodland/Winters Room before the presentation</i></p>	
<p><b>12:45 STEM Service Learning in Practice: Davis/Washington Room</b> Galt High School’s Engineering and Bio-Medical Science Academy &amp; Project Lead the Way (PLTW) <i>Engineering teacher Debra Crane has integrated PLTW and service in projects such as designing a horse arena for Project RIDE, a local organization that works with disabled students. She and several students from Galt High School will talk about their work together.</i></p>	
<p><b>1:30 Creating Effective Youth/Adult Partnerships &amp; Learning Environments – Woodland/Winters Room</b> Andy Paul, Youth Development Network <i>Highly interactive session on developing “youth voice” and cultural competency.</i></p>	
<p><b>3:15 Reflection &amp; Evaluation on Day 2 – Woodland/Winters Room</b></p>	
<p><b>3:30-5:00 Field Trip &amp; Reception at Woodland High School’s Laugenour Farm Site</b> <i>Environmental and Veterinary Science students will lead tours and give presentations of Ag projects, grassland restoration, solar-powered barn and more. A reception will be catered by the ROP Culinary Arts Program with decorations by the ROP Floriculture Program. Woodland Community College Ag Program partner will also be presenting. See map in your packet.</i></p>	
<p><b>6 pm STEM Service Learning Facilitator Dinner – Capitol Saloon, 601 Main Street, Woodland</b></p>	

## STEM Service-Learning Institute: Day 3 Agenda

### Saturday, January 29<sup>th</sup>, 8:00 am – 1 pm

<b>8:00 Continental Breakfast – Woodland Room</b>		
<b>8:30 Is Your STEM Service Learning Project Meeting All Its Goals? – Davis/Washington Room</b> Mike Brugh, CDE CalServe & Poonie Holst, Service Learning Consultant <i>Participants will explore ways to evaluate the benefits and results of engaging youth in STEM- based service-learning activities for teachers, students and community partners.</i>		
<b>Resources &amp; Project Examples</b> <i>See detailed session description in your packet.</i>		
Location	Session One: 9:30 – 10:10	Session Two: 10:15- 10:55
<b>Woodland Room</b>	<b>Energy Busters: Learn How to Assess and Reduce Your Energy Consumption</b> Gwynn Benner, Director, EPYC (Energy Projects*Youth Corps) Brie-anna Rojas, UC Davis Undergraduate	<b>Trash in the Classroom: Waste Audits &amp; Waste Reduction</b> Caroline Sandifer and Ben Bezark, EarthTeam Environmental Network and the Service-Learning Waste Reduction Project (SLWRP)
<b>Winters Room</b>	<b>Community Collaborations: Art, Watershed Education &amp; Service Learning</b> Dr Jennifer Colby, Partners for the Advancement of Teaching at CSU, Monterey Bay	<b>Partnerships for Watershed Education and Restoration</b> Karleen Vollherbst, US Fish & Wildlife, Schoolyard Habitats John Durand, Service Learning Coordinator, Cosumnes River Preserv
<b>Davis Room</b>	<b>Harnessing the Power of the Sun</b> Facilitated by Bob Vasconcellos, Service Learning Consultant, Region 5	<b>Student-Centered Urban Sustainability Projects</b> Sarah Johnson, Environmental Sciences, Leadership Public School, Oakland USD
<b>Washington Room</b>	<b>STEM Service Learning &amp; Partnership Academies: Sharing Successes and Challenges</b>	
<b>Esparto Lab</b>		<b>Project Learning Tree: Green Schools</b>
<b>11:00 Recruiting and Retaining Under-represented Youth in STEM Courses – Davis/Washington</b> Dr. Deidre Sessoms, Department of Teacher Education, Sacramento State University <i>Learn more about how we can meet this key goal of the STEM Service Learning Initiative. Dr. Sessoms will present findings from the latest research and engage participants in conversations about how to apply that to STEM Service Learning projects.</i>		
<b>12:00 Wrap-up, Final Evaluation and Next Steps – Davis/Washington</b>		
<b>12:30 Lunch:</b> Final planning and networking opportunity!		