

JANUARY 2021

DEAR READERS,

Welcome to 2021 and thank you for registering to receive our Monthly Santa Clara County Monthly Science and Environmental Literacy Newsletter. This newsletter has been in the works for some time now and we are so excited you have decided to stay in touch with us.

This newsletter will not only share the Santa Clara County Office of Education's workshops but it will showcase what our Community-Based Partners are doing locally to support Science and Environmental Literacy. Our goal is to showcase some of the amazing things happening locally.

We were all challenged in 2020 and have been pushed outside of our comfort zone but we want you all to know that you are not alone. At the Santa Clara County Office of Education, we are here to provide support not only in specific content areas but support in Distance Learning. We have an amazing team of coordinators who are ready and willing to assist.

WHAT'S GOING ON LOCALLY WITH ENVIRONMENTAL LITERACY

In the month of December, our local Environmental Literacy Initiative Leadership Collaborative didn't meet but that doesn't mean we have stopped working. We are in the process of developing a mission and vision for Environmental Literacy in Santa Clara County as well as bringing high quality virtual resources to you and your students.

Many don't understand why Environmental Literacy is so important. In order to answer this, we must first explain What is Environmental Literacy?

"An environmentally literate person has the capacity to act individually and with others to support ecologically sound, economically prosperous, and equitable communities for present and future generations. Through lived experiences and education programs that include classroom-based lessons, experiential education, and outdoor learning, students will become environmentally literate, developing the knowledge, skills, and understanding of environmental principles to analyze environmental issues and make informed decisions." From "A Blueprint for Environmental Literacy- Educating Every Student In, About, and for the Environment."

We are excited to see environmental literacy grow in the Bay Area and if you would like to join us feel free to register for our next meeting on January 21, 2021. Register Here: http://bit.ly/EnviroCollab

ENVIRONMENTAL LITERACY PARTNER WEBSITES



SANTA CLARA

EDUCATION-

LITERACY



WALDEN WEST

http://www.waldenwest.org/

CALIFORNIA ENVIRONMENTAL LITERACY INITIATIVE (CAELI)

CALIFORNIA ENVIRONMENTAL

LITERACY

https://ca-eli.org/

https://www.scc-enviro-ed.org/

COUNTY OFFICE OF

ENVIRONMENTAL







SAN MATEO COUNTY OFFICE LITERACY OF EDUCATION-ENVIRONMENTAL LITERACY

https://eeproviders.smcoe.org

SANTA CRUZ COUNTY OFFICE OF EDUCATION-ENVIRONMENTAL LITERACY FOR ALL

https://sites.google.com/view/ environmental-literacy-forall/professional-learning SAN JOAQUIN COUNTY OFFICE OF EDUCATION-ENVIRONMENTAL LITERACY

https://www.sjcoescience.org/ environmental-literacy.html







VALLEY WATER

https://www.valleywater.org/ Distance Learning Resources: Distance Learning NEW FOR 2020 | Santa Clara Valley Water

ENVIRONMENTAL VOLUNTEERS

https://www.evols.org/ Distance Learning and COVID Modified Resources: 2020/21 Programs (COVID Modified) | Environmental Volunteers - Environmental Volunteers (evols.org) LIVING CLASSROOM

<u>https://www.living-</u> <u>classroom.org/</u>

MORE ENVIRONMENTAL LITERACY RESOURCES AND PARTNERS FEATURED ON THE SCCOE AND SMCOE ENVIRONMENTAL LITERACY WEBSITES ABOVE.

NGSS NOW NEWSLETTER FOR JANUARY 2021

NGSS NOW

7 things to know about quality K-12 science education in January 2021

UPCOMING EVENTS

REGISTER HERE- CA NGSS STATEWIDE IMPLEMENTATION

This learning series is the new NGSS Rollout. These are high quality sessions that have been revamped to support both in person and virtual learning environments. We highly encourage teams of teachers and administrators to register for the series.

CA NGSS Statewide Implementation Professional Learning #1

Building Student Sensemaking Through Disciplinary Literacy



When

January 28-29, 2021 8:00 a.m. - 5:00 p.m. February 22-25, 2021 4:30 p.m. - 7:30 p.m. March 16, 18, 23 and 25, 2021 8:30 a.m. - 11:30 a.m.

Virtual Online Follow-up Date Options: March 10, April 7 and 28, 2021 4:00 p.m. - 5:30 p.m.

Tune Up Sessions: July 28, August 18 and September 15 Times TBD



The California NGSS Statewide Implementation: Building Student Sensemaking Through Disciplinary Literacy is an online professional learning experience designed for K-12 academic coaches, administrators, curriculum leads, and teacher leaders to deepen their understanding and implementation of teaching practices to advance student science understanding.

The sessions are divided into four science and literacy-specific strands as noted below. Participants register for one strand per event where they will experience grade-band specific instructional strategies for student sensemaking, engage in collaborative reflection, develop a classroom plan of action to implement with students, and collaboratively review plan/implementation in online follow-up meetings.

Who

K-12 academic coaches, administrators, curriculum leads, and teacher leaders. It is recommended that districts register teams of four to six educators, including at least one administrator.

Time Commitment

Participants will stay with the strand they registered for during the entire session.

Cost

\$250 per attendee per 12 hour strand (completed in one offering). Registration for a second or third strand for a single attendee is \$200. Fee includes access to all materials. Payment can be made by check or credit card. All payments must be received prior to the professional learning date you are attending. NO purchase orders are accepted. NO participant cancellation refunds.

How

REGISTRATION LINK - https://bit.ly/33JaQmh

For questions or more information, please contact Bernadette

Gutierrez by email at bgutierrez@ocde.us or by phone at

CA NGSS Collaborative





(714) 966-4443.

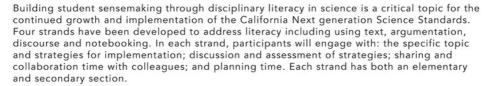




Presented by the CA NGSS Collaborative: a joint effort of the California County Superintendents Educational Services Association /County Offices of Education, K-12 Alliance @WestEd, California Science Project, and the California Association of Science Educators

California

Project



SESSION DETAILS

How to Use Science Text - Elementary and Secondary Strands

Participants will deepen their understanding of reading in relation to science, experience the flow of a science lesson, and acquire strategies to take back to their classrooms. Additionally, participants will engage with a variety of phenomena-driven science tasks that highlight research-based reading strategies to increase students' engagement and comprehension.

Discourse for Sensemaking in Science -Elementary and Secondary Strands

Designed to engage participants with research-based instructional practices that facilitate students' sensemaking through discourse, including engagement with: elicit students' prior knowledge around phenomena; engage students in building understanding and ongoing revision of their thinking; and support students in drawing evidence-based consensus and explanations.

Use of Notebooks for Sense-Making in Science - Elementary and Secondary Strands

Designed to advance participants' use of student sensemaking notebooks, participants will engage in a learning experience that deepens their understanding of the importance of notebooking and will select strategies to explore further: developing and using models; making notebook entries; publishing using evidence from notebooks; using tools to support student independent sensemaking; going beyond CERs; and, using notebooks to assess student understanding.

Argumentation: Moving Beyond CER to Help Students Make Sense - Elementary and Secondary Strands

Through argumentation, students engage in the process of science by cohesively using evidence to form a scientific explanation. Participants will learn how to support students as they develop initial claims, analyze and examine multiple lines of evidence, and critique and revise arguments in the sensemaking process.

Administrator

Administrators will attend a strand of their choice to learn alongside teachers to deepen their understanding of science practices on student sensemaking through the lens of disciplinary literacy. An opportunity, via a breakout session, will be included to discuss with other administrators how to support teachers in the implementation of new strategies and how to analyze the impacts on student learning.



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	CCSESA	CISC Curriculum and Instruction Steering Committee	Ø	California Science Project	K-12 A
CALL					۹D.

REGISTER HERE- THE RACE FOR THE COVID-19 VACCINE

The **Race** for the COVID-19 Vaccine

Understanding the science behind the various COVID-19 vaccine platforms to include: Pfizer/Moderna, Astrazenaca/Gamaleya, Johnson & Johnson, Sinovac, GlaxoSmithKline/Sanofi, Novavax, and Inovio.

Dates: January 28 and February 23, 2021

Time: 4 to 5:30 p.m. PST

Mark Okuda, BA, Biology/Chemistry (University of Pacific, Stockton Ca.), MA Natural Sciences (San Jose State University, San Jose, Ca.), Silver Creek High School (San Jose, Ca.) science instructor (retired) and currently an adjunct professor of Biology (Evergreen Valley College) and active board member of Teach Biotech (Santa Clara, Ca.). Co-authored a Forensic Science textbook and works as a science education consultant with high schools in developing biotechnology and forensic science programs.



Register: https://bit.ly/3h24bbS

Target audience: Science Educators (MS to HS)

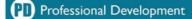
Participants will receive materials on how to implement this topic into your science curriculum as a distance learning module.



For questions, contact: Ma Bernadette Andres-Salgarino, Ed.D. Mathematics Coordinator <u>bandres-salgarino@sccoe.org</u>

REGISTER HERE- K-5 SCIENCE LEARNERS DL

ALAMEDA COUNTY **OFFICE OF EDUCATION**



Creating robust learning environments for K-5 science learners during distance learning.

Please join us for this three-part professional learning series that focuses on the elementary classroom and how to support ALL learners to engage in rich discourse about scientific phenomena. You will have opportunities to engage with new strategies and technology and discuss the challenges of supporting science in distance learning.



All sessions will be held from 3:30pm to 5:00pm

Session Dates



December 8, 2020 **Scientific Sensemaking During Elementary Distance Learning**

January 14, 2021 Making Phenomenon Based Inquiry and Discourse Happen in an Elementary Virtual Classroom

> February 9, 2021 **Exploring Tech Integration** Strategies to Meet Your Pedagogical Goals for Elementary Sensemaking



Sign up! To register, complete this form Or contact Adriene Metover-Leonard Program Specialist at (510) Metoyer-Leonard, Program Specialist at (510) 670-4119 or email at aleonard@acoe.org

Presented by CORE LEARNING, a department of the Alameda County Office of Education



REGISTER HERE- CA HEALTH EDUCATION FRAMEWORK ROLLOUT

Santa Clara County Q Office of Education





Health Education Professional Learning Series California Health Education Framework (HEF) Rollout Project

Purpose

The HEF Project aims to shift educators to more advanced student-centered, skill-based teaching and learning practices, as well as health content, while building a statewide system of support for health education.

A series of professional learning opportunities will be provided in 2020 and 2021. The first session will focus on the overarching framework guidance and implementation resources to support educators.

Join Us To:

Develop a deeper understanding of the CA Health Education Framework guidance
Connect with other educators to build your health education toolbox

Location Online via Zoom Audience Administrators, Teaching Staff, Counselors, Nurses, and any other interested Educator or Community Member	Grade Level(s) TK – 12 Cost Free	Registration Contact: Alex Coronel; acoronel@sccoe.org Content Contact: Jennifer Mutch; imutch@sccoe.org Stephanie Tague; stague@sccoe.org					
 Registration – 							
Session 1: October 13, 2020 Session 2: December 16, 20 Session 3: January 28, 2021 Session 4: March 31, 2021 To register*, please visit: http://bit.ly/CAHealthFWRegis	20	 *Please note the following: All sessions will be held from 3:30p – 5:00p on their assigned dates. Registration indicates attendance for the entire series. In addition to the sessions listed, there are asynchronous components available. Links will be provided to you when registration is complete. 					

Students First - Collaboration - Innovation - Service - Strengths Based

REGISTER HERE- TOSA NETWORK





2020-2021 TOSA & Instructional Coaches Network Meeting

Santa Clara County Office of Education invites all Coaches, Mentors and TOSAs (Teachers on Special Assignment) to the:

2020-2021 TOSA Network Meetings:

- Develop your leadership skills as you learn more about supporting teachers in: content, Pedagogy and Technology
- Network with other TOSAs and coaches

 Explore how to support your Teachers with PBL, Student Centered Learning, Integration of Content areas, and more

12 p.m. to 2 p.m. via Zoom

- Tuesday, September 15, 2020
- Tuesday, October 20, 2020
- Tuesday, November 17, 2020
- Tuesday, January 19, 2021
- Tuesday, February 23, 2021
- Tuesday, March 16, 2021
- Tuesday, April 20, 2021
- Tuesday, May 18, 2021

Via Zoom

Zoom Link will be sent prior to the meeting

Audience TOSAs, Mentors, Coaches

Grade Level(s)

TK – 12 Cost

Free

Content Contact

Jennifer Mutch 408-453-6691 or Jmutch@sccoe.org

Registration http://bit.ly/TOSANetwork20-21



Contact Paula Leggett 408-453-6587 or Pleggett@sccoe.org

Students First - Collaboration - Innovation - Service - Strengths Based

REGISTER HERE- ENVIRONMENTAL LITERACY COLLABORATIVE





2020-2021 Environmental Literacy Leadership Collaborative

Description

The Environmental Literacy Leadership Network will explore how to connect and partner with Community-Based organizations and collaborate on ways to infuse environmental literacy into our classrooms and schools.

3 p.m. - 5 p.m. via Zoom

- · Thursday, September 17, 2020
- Thursday, October 22, 2020
- Thursday, November 19, 2020
- Thursday, January 21, 2021
- Thursday, February 25, 2021
- Thursday, March 18, 2021
- Thursday, April 22, 2021
- Thursday, May 20, 2021

Via Zoom

Zoom link will be sent before the meeting

Audience

TK-12th grade Teachers, History Social Studies Teachers, Health Teachers, Science Teachers, TOSAs, Instructional Coaches, and Informal Environmental Educators

Grade Level(s) TK – 12

Cost

Free

Content Contact

Jennifer Mutch 408-453-6691 or Jmutch@sccoe.org

Registration





Contact Paula Leggett 408-453-6587 or PLeggett@sccoe.org

Students First - Collaboration - Innovation - Service - Strengths Based

REGISTER HERE- CAST ACADEMY





California Science Test (CAST) Academy January 25 & 26, 2021 • 3 to 6 p.m.

Purpose

- Learn about the CAST Design and expectations
- Explore CAST Training and Practice Test Items
- Discuss ideas for supporting students to practice with NGSS styles of questions

Highlights

- Deconstruct a California NGSS Performance Expectation
- Consider the implications of the CAST and NGSS for science teaching and learning
- Understand how the CAST helps you prepare students for 3-dimensional learning with NGSS

Via Zoom

Zoom link will be sent before the meeting

Audience

K-12 Science Teachers, TOSAs, Administrators, Teacher Leaders, Instructional Coaches

Grade Level(s) TK – 12

Cost

\$40 per participant

Content Contact

Jennifer Mutch (408) 453-6691 Jmutch@sccoe.org

Registration

http://bit.lv/CASTJan-2021 Contact



Paula Leggett (408) 453-6587 or Pleggett@sccoe.org

Students First - Collaboration - Innovation - Service - Strengths Based

PARTNER WORKSHOPS AND EVENTS

MONTEREY BAY AQUARIUM LEARNING AT HOME RESOURCES

JOIN US FOR 2 MORE SESSIONS OF #TEENSCAN MAKE A DIFFERENCE. SEE REGISTRATION LINK ON THE FLYER BELOW



MORE INFO- DE ANZA COLLEGE PLANETARIUM FIELD TRIPS

2020 - 2021 SCHOOL YEAR

VIRTUAL Field Trips

Introducing virtual field trips at the De Anza College Planetarium

BRING THE EXPERIENCE OF THE PLANETARIUM TO YOUR STUDENTS VIRTUALLY

Our online presentations last approximately 45 minutes for up to 100 guests, and are gradeappropriate "live" learning modules created by our Planetarium Staff. Presentations also include a question and answer, an activity and the use of planetarium software *Stellarium* (open-source) and *DigitalSky2* by Sky-Skan, Inc. Zoorn and Google Meet formats are both available.

Show Options:

- All presentations are aligned with NGSS standards
- "Patterns in the Sky"for Kinder Grade 2
- Stars and Seasons "Celestial Cycles" for Grades 3–5
- Weather and Climate "Climate: The Long Cycle" for Grades 3-5
- Celestial Moon "Dance of the Solar System" for Grades 6–8
- Solar System "The Gravity of the Cosmos" for
 Grades 6-8
- Grodes o-o
- "The Moon and Stars" for general audiences Grades K-8

Fees & Payment: Field trips are \$250 per reservation and must be paid in full upon submission of your online request via our online reservation window. To reserve a date with a check or PO please contact galvangracysdeanza.edu

De Anza College

Planetarium

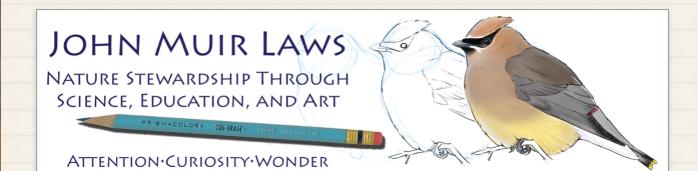
Availability & Sohedule: Virtual field trips begin September 14th, 2020 and will be offered through June 2021, Monday to Friday mornings: 9:00, 10:00 and 11:00 a.m. To see our field trip calendar for available dates click <u>here</u>. For alternative times please contact galvangracysdeanza.edu

To Reserve a Field Trip: Reserve your field trip two weeks or more in advance to ensure your preferred date and time availability. Please use our <u>online reservation window</u> to submit your field trip request and payment.

Confirmations: Our planetarium will follow up with a confirmation of your reservation and Instructions on how to access your virtual field trip to the Planetarium.

Questions or need help? Contact us at planetariumedeanza.edu

REGISTER HERE- FREE EDUCATOR WORKSHOPS



JOIN JOHN MUIR LAWS ON WEDNESDAY'S AT NOON FOR FREE EDUCATOR WORKSHOPS

Learn how to teach Nature Journaling! Join our weekly discussion and idea-sharing for teachers, home school parents, and other educators interested in teaching nature journaling skills. Each meeting will have a theme. Most of the conversation that day will revolve around this core idea but expect interesting side routes and trails.

Click Here to Join the Meeting

All ages and experience levels are welcome. No registration is necessary, This live workshop can hold 500 people and is open to everyone on a first-come basis. If you are new to Zoom or are having trouble with the meeting controls, please see these notes and suggestions on **Zoom**. **Tips for Online Classes with John Muir Laws** to help you get more out of the online workshop. When possible I will also make a recording of the workshop and post it on my blog. I look forward to seeing you there!

NOTE: Start time is 12 PM Pacific, 1 PM Mountain, 2 PM Central, 3 PM Eastern Time



THRIVELY

Ignite creativity with ready to integrate learning experiences. Engage your students with

- STEM/STEAM
- Social Emotional Learning
- Project Based Learning, Work Based Learning

CLICK HERE TO EXPLORE THRIVELY LEARNING EXPERIENCES

TEACHER OPPORTUNITIES

Middle School Teachers needed to try out curriculum created by WildMind. If you are a teacher at a school with 50% or more FRMP student enrollment, you can qualify to utilize this program for FREE. If interested, please contact: Michele Durant

Assistant Director: Programs Manager/Wildlife Manager

WildMind Science Learning (formerly Wildlife Associates) wildmindscience.org <u>michele@wildmindscience.org</u> OFFICE 650-712-0800

Welcome to the Wildmind NGSS Distance Learning Classroom Science Units

for Middle School Students



WHY CHOOSE WILMIND UNITS

Our units are project-based. They embed scientific practices and skills, content and steryline-based curriculum that the NGSS and similar standards-based science frameworks premote.

Due to the overwhelming positive response when we piloted our elementary school units in 2017, and growing need for middle school teachers to find project-based learning units that integrate multiple science standards, we created this unit. Several of the leasons have already been vetted with preservice middle and high school teachers who found the lessers to be very compelling and mspaging and, along with the empathy connection to the Wildmind animals, serve as an effective model for 3-dimensionally implemented NGSS lessons. They appreciated easy to follow instruction and prompts that are critical for teachers to demonstrate student learning related to the standards.

Based on nearly from decades of school-based education experience, we designed these standards-aligned classroom units that support STEM/STEAM learning for students to experience science through collaboration while developing interpressional communication skills as well as empathy to become informed and inspired environmental leaders of tomorrow. Your students will learn the science and they will learn to care.

The opportunity to see these wild animals – up close on a smart board in their classroom or their computer at home – provides an optimal setting to learn science and pursue solutions. The units begin when Wildmind educators and animals "visit" on the first day of the unit via a live, interactive videoconference. This helps engage and immerse your students in a learning experience with a focus on addressina a near work deministration and livee.

This unit includes online curriculum - with lesson plans containing activities and assessment criteria - for the teachers to implement, and support from the Wildmind educators throughout the unit

INSPIRE A LOVE OF SCIENCE AND STEWARDSHIP OF THE NATURAL WORLD

- Solutionary project-based learning mod
- Interactive and web-based science units
 Focus on nature, wildlife and human connection
- Focus on nature, wildlife and human connections to current environmental issues
 Teacher led classroom curriculum provided that supports STEM/STEAM learning
- Each lesson connects to WGSS via bundled Science and Engineering Practices SEPs], Desciptionary Core Ideas (ECC) and Consorting Concepts (CCC) and also select (CSS-ELA skills as well as CA Environmental Principles and Concepts (EPAC).

LET OUR WILD TEACHERS HELP YOU BRING SCIENCE ALIVE FOR YOUR STUDENTS!

Wildmind (formerly Wildlife Associates) is a nonprofit education organization based in the San Francisco Bay Area and slilly permitted by state and fielderal animal welfare agencies. We are nationally recognized for our existing, dynamic and starke wildlife presentations. We adapted our nearly 40 pears of school-based education programs, having educated millions of young people, to create these grade-specific standards-aligned classroom units.

We operate year-round with a trained staff of dedicated professional wildlife specialists and environmental educators, providing a forever home to all animals in our forever care because they are non-releasable. They can newr survive in the wild after being abandoned or permanently injuned in the wild or were born in capitvity. We forature them as true "wild teachers" because they help to nurture empathy and respect for all life while teaching the real nature of science.

MIDDLE SCHOOL CURRICULUM

The main focus of this unit is how human activities impact water availability or quality and even competition for this vital resource. Bundling several (PKs) performance expectations from farth, Life and Physical science standards, students will explore the challenges of colonizing another planet to discover the importance of resolving current environmental issues on our own Earth. This curriculum supports the need for phenomenon-based units to promote critical threling and problem-solving akils as well as empathy and respect. Students will learn how humans, the environment and the scientific principles behind all natural systems are deeply connected. St instruction and accessments are integrated throughout these units, building on student driven questions and mean-skilk.

Visit us at www.wildmindscience.org to learn about the various virtual assembly programs for all ages and group sizes or our 3rd, 4th & 5th grade science units.

COST & LENGTH DISCOUNTS FOR MULTIPLE UNITS

- > One classroom unit, per grade, is \$250. Each additional back to back unit, to the same grade, is \$100 each.
- If presenting a single introduction to multiple classrooms at one time for a school, the cost is \$395
- The lessens can be completed as quickly as 2 weeks or expanded to several weeks, depending on the pace set by the teacher and based on your schedule and the students' engagement.

Transform your classroom into a world of scientific study with our beautiful wild animals leading the way.

Call now to schedule your NGSS-aligned science unit(s) (650) 712-0800 • info@wildmindscience.org





PD Bass 2000, Itali Mann Bay, CA 1900 Program, priors and attinuk are subject to change without ratics. © 2020 Conservation Early Wilchnind

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SCCOE & VALLEY WATER ENVIRONMENTAL LITERACY LEADERSHIP COHORT-INTEREST LIST

SCCOE and Valley Water Education Outreach is partnering to provide a series of workshops for a cohort of 5th and 6th Grade teachers, TOSAs, and Instructional Coaches, where you will learn about infusing water-focused, NGSS based lessons and projects into your teaching and you will be able to earn a small stipend when the project is completed. Projected start time: April 2021 and applications will be available in March 2021

Please complete this form if you are interested in applying for this program: <u>https://forms.gle/TEKPCpB2DUZWwp456</u>



ISTEAM - SCIENCE & ENVIRONMENTAL LITERACY

🕐 @sccoe

The mission of the Science Department is to provide service and support for all educational stakeholders. We offer workshops, conferences, and student events that promote the Next Generation Science Standards (NGSS). Science explores and explains phenomena around us. It is a way of gaining, organizing, applying, and conveying knowledge of that phenomena. Having science as one of the core contents in K-12 education is vital as it influences our culture and has

allowed society to flourish.

💡 1290 Ridder Park Drive, San Jo...

8 4084536587

pleggett@sccoe.org
sccoe.org/isteam/science/Pag...

SCCOE SCIENCE GOOGLE WEBPAGE

For even more resources, workshops and upcoming conferences, please visit our webpage. We are updating this weekly. Please also let us know if you have any events or workshops that you would like to share.

OPT- OUT OF FUTURE NEWSLETTER EMAILS