



Oregon Youth Development Academy Summer Intensive

STEM Learning for Afterschool

When: August 17, 18 and 19, 2010

Where: WESD 2611 Pringle Rd SE, Salem for August 17th and 18th
and the Oregon 4-H Center 5390 4-H Rd NW, Salem for August 19th.

Cost: \$150 for one person, \$250 for two participants from the same program.
Registration includes all training materials and meals.

Oregon State University with OregonASK is presenting three full days of training for Afterschool Professionals working with Middle School Students.

Register: www.oregonask.org or call 503.540.4481 for questions.



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Schedule at a Glance

	Tuesday August 17	Wednesday August 18			Thursday August 19
	Willamette ESD Building, Salem	Willamette ESD Building, Salem			Oregon 4-H Center, West Salem
8:00	Check in and registration with continental breakfast				
8:30		Gathering, continental breakfast			Gathering, continental breakfast
9:00	Welcome , Ice breakers, Program Overview	Welcome, Tuesday follow-up and overview			Welcome, Wednesday follow-up and overview
9:30		STEM Breakout 1 2.5 hour session	STEM Breakout 2 2.5 hour session	STEM Breakout 3 2.5 hour session	9:15 to 10:30 Session One
10:00	Break at 10am (15 minutes) The Essential Elements of Positive Youth Development Programming- Part 1				10:40 to 11: 55 Session Two
10:30					
11:00					
11:30					
Noon	Catered Lunch			Catered Lunch (11;55 to 12:30)	
12:30				Session Three 12:30 to 1:45	
1:00	The Essential Elements of Positive Youth Development Programming- Part 2	STEM Breakout 4 3.5 hour session	STEM Breakout 5 3.5 hour session	STEM Breakout 6 3.5 hour session	Session Four 1:55 to 3:10
1:30					
2:00					
2:30					
2:45	Break (2:45 to 3pm)			Break (2:45 to 3pm)	
3:00	The Essential Elements of Positive Youth Development Programming- Part 3	STEM Breakout 4 Continued	STEM Breakout 5 Continued	STEM Breakout 6 Continued	Break 3:10 to 3:30
3:30					Academy wrap up and evaluation (including plan for ongoing evaluation)
4:00					
4:30	Break (set-up)			Break (set-up for forum)	
5:00	Program and Practice Showcase	Participant Forum: Building the Oregon Youth Development Academy			
5:30					
6:00	End of day: Dinner on Own	End of day: Optional Picnic Dinner			

Tuesday August 17, 2010

The Essential Elements of Positive Youth Development for After School Programs

Presenters: Dr. Mary Arnold, Associate Professor and Youth Development Specialist, Oregon State University
Dr. Pamela Rose, Associate Professor and Youth Development Educator, Oregon State University

This day-long session will provide participants with a detailed picture of the elements of high-quality youth development programs in after-school settings. Workshop participants will engage in interactive activities to develop knowledge and skill in:

- program planning
- the essential ingredients of positive youth development programs
- program evaluation for accountability and program improvement

The presenters are both experienced youth development program educators and have worked with many different audiences to provide training on planning and implementing effective youth development programs.

Wednesday August 18, 2010

Breakout Session #1 The Power of Wind

Presenter: Dr. Mary Arnold, Associate Professor and Youth Development Specialist, Oregon State University

This session will provide an overview of *The Power of Wind* curriculum developed by National 4-H Council with the support of 3M and the Noyes Foundation. The curriculum builds science and engineering skills by helping students work through the engineering design process. The curriculum can be downloaded from the National 4-H website for no charge and includes both a student and facilitator guide as well as a supportive website. Participants will have the opportunity to engage in some of the activities in the curriculum and learn ways to incorporate *The Power of Wind* into their afterschool programs.

Breakout Session #2 4-H Science Activities: Community Learning After school

Presenter: Shana C. Withee, BS, Associate Professor and Youth Development Educator, Oregon State University

After school: A time of learning loss. Not! 4-H Science activities are fun and aid in the future science by building skill and interest of youth today. Activities focus on chemistry, recycling, forestry, entomology, soil, food and range sciences. Exceptional future scientists can turn their communities into exciting laboratories. Explore the world of science after school as we share our schedules, lesson plans and methods.

Breakout Session #3 Let Butterfly WINGS Transform your Students into Citizen Scientists

Presenter: Virginia Bourdeau, MS, Professor and Youth Development Specialist, Oregon State University Professor
Janet Nagele, MS, Associate Professor and Youth Development Educator, Oregon State University

Project Butterfly WINGS, for grades 4th- 8th, focuses on environmental science, citizen science and butterfly biology, identification, and monitoring. Youth participants will identify the presence or absence of butterfly species in a study area of their own choice. This session will introduce you to the publications and interactive web site, including a butterfly identification link, which supports program delivery.

Breakout Session #4 Introduction to the 4-H Science of Energy Curricula and Kits

Presenter: Janet Nagele, MS, Associate Professor and Youth Development Educator, Oregon State University

Chemistry can be HOT! Or cool. Light is produced when energized electrons lose their kick. Heat makes molecules move faster. Energy is amazing and fun. See for yourself by exploring activities from the US Department of Energy, the National Association of State and Universities and Land-Grant Colleges (NASULGC) and the National 4-H Council. The four teaching guides provided are "Heat & Heating", "Light & Lighting", "Energy in Motion", and "Chemical Energy". Teaching kits for each topic are available from NASULGC or can be assembled on your own.

Breakout Session #5 Engineering Design Activities that Engage Students Through Simple, Low-Cost Materials

Presenter: Ryan Collay, Assistant Director SMILE/Programming, MS

Oregon's Science Process standards for Engineering Design provide a great opportunity for activities that integrate skills, talents and interests which participants use to solve a problem. We will share activities using simple materials that define the engineering process, support team based activities, and that are engaging for a diversity of audiences.

Breakout Session #6 Teach Sciences via the Digital Media Tool of Video Production

Presenter: Alexandra Steiner, Instructor, OSU Extension, Jackson County, M.A.T.

This is a hands on class. 75 % of the class time will be utilized on how to use a digital video camera, practice framing, effective interview skills with the use of audio equipment, and finalize a 1/2 min. project with the free video editing tool Windows Movie Maker. The instructor will provide curriculum resources, literature and web links for participants to confidentially have a start up menu for their in or afterschool digital media work. Participants will explore the use of the digital video production as a multimodal method of topic exploration for U.S. students' inquiry projects. The use of digital video production enables storytelling and provides students with a concept of audience for their work.



Thursday August 19, 2010

4-H Center Science Professional Development Day

At the Oregon 4-H Center 5390 4-H Rd NW, Salem

9:00 – 9:15	Group meeting, coffee provided by 4-H Center
9:15 - 10:30	Session 1 Tour Science Camp program
10:40 - 11:55	Session 2 Rotating Topics A, B, C
11:55 - 12:30	Lunch
12:30 - 1:45	Session 3 Rotating Topics A, B, C
1:55 - 3:10	Session 4 Rotating Topics A, B, C
3:20 - 3:30	Closing Group Meeting

Topic A- Teaching Science with Field Ecology Cards

Presenters: Maggie Livesay, 4-H Outreach Agent, and Jody Einerson, Natural Resource Education Outreach from the Benton County OSU Extension Service

Explore the habitats of the 4-H Center using the popular Ecology Field Cards. These laminated, field-ready, habitat specific learning materials illustrate and describe common organisms (plants, fungi, birds, mammals, reptiles and amphibians) found in western Oregon’s diverse ecosystems. In this class you will sample a variety of lessons using the Eco-Cards to engage your students in exploring their local forests, prairies and wetlands. In addition we will explore several lessons from the soon to be published Native Plant Curriculum of Oregon.

Topic B- Field Natural History

Presenters: Patrick Willis, Assistant Professor and Youth Development Educator, Oregon State University
Jonathan Mayer, 4-H Youth Development Educator, Oregon State University.

With No Child Left Inside and the positive attributes of getting youth more involved in outdoor activities in natural places, providing enriching and safe outdoor experiences for youth is soon to become a mainstream in educational programs. “Field Natural History” will engage ;participants in a variety of field teaching programs, techniques, and philosophies that help students foster a sense of place in the out-of-doors Attendees will participate in a set of unique field activities, engaging both left and right brain learners, that can be adapted to meet the needs of youth in a variety of natural and semi-natural settings.

Topic C- Empowering Youth to Navigate SHIP3 – Leadership, Stewardship, Citizenship

Presenters: Dan Hoynacki, Marion County Extension Youth Educator, Oregon State University.

Session participants will discover easy steps within their own community’s tool box how to coach youth on creating an action plan for a healthy and harmonic community focus – improve riparian and wildlife habitat, carbon sequestration, etc - through creative problem solving, peer mentoring , focused service- learning. Youth utilize STEM principals and master communication and community outreach skill sets, how-to organize their own ONE4ONE program.



Registration Form

Full registration includes all sessions plus a light snack in the morning and lunch. **Registration must be postmarked no later than Wednesday August 4, 2010.** All refund requests must be in writing and received no later than August 4, 2010. A \$20 administration fee will be deducted on all refunded registrations. Conference no shows or cancellations after August 4, 2010 are not eligible for refunds.

Payment may be combined by agency.

Name _____ Agency _____

Address: _____
Street City State Zip

Email: _____ Phone: _____

Name _____ Agency _____

Address: _____
Street City State Zip

Email: _____ Phone: _____

Registration Fee is \$150.00 per person or \$250.00 for two from the same program.

*Please send all registrations with checks made payable to **OAEYC. Send to OregonASK attn: Lynn at 2611 Pringle Rd SE, Salem 97302.***

Additional Conference Information

- An Oregon Registry approved certificate will be issued for all completed sessions.
- Questions? Contact OregonASK at 503-540-4481.
- Sessions are on a first come first serve basis for participants. When the session is full the room host will close the door.