

Pauling Medal Symposium Nov. 18, 2017

Pauling Medal Awardee Professor Cummins has invited Steve Lippard, Dan Nocera, and Don Tilley as speakers.

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Save the dates

- Sept. 7 Section meeting at Lewis & Clark College
- Oct. 5 Section meeting at OHSU CHH (waterfront)
- Oct. 14-15 and Oct. 21-22 National Chemistry weekends at OMSI (signup hoffman@up.edu)
- Oct 22 [Poster symposium](#) & career fair at PSU
- Nov. 2 Section meeting at OHSU CHH (waterfront)
- Nov. 18 Pauling Medal Symposium
- Dec. 7 Chemistry-focused tasting (wine, chocolate, cheese)

Contact [Scott Vanderwerf](#) if you have questions



2017 Pauling Medal Symposium

The 2017 Pauling Medal Symposium honoring MIT Professor [Christopher "Kit" Cummins](#) will be held on Saturday November 18, 2017 from 1pm to 5pm, location TBD. The symposium

is followed by a reception and poster session. The symposium, reception, and poster session are free and open to the public.

A Banquet (tickets required) including presentation of the Medal will follow the symposium, reception, and poster session.

Information for the Symposium, reception/poster session, and Banquet will be available on the [2017 Pauling Medal Symposium website](#).

The Symposium speakers include

- [Stephen Lippard](#): Research in Professor Lippard's laboratory at MIT involves bioinorganic chemistry.
- [Dan Nocera](#): The Nocera lab at Harvard University studies the basic mechanisms of energy conversion in biology and chemistry.
- [Don Tilley](#): the Tilley Group carries out research on inorganic, organometallic, polymer, and materials chemistry at UC Berkeley.



The Pauling Medal Award recognizes outstanding achievement in chemistry and is presented annually by the Puget Sound, Oregon, and Portland Sections of the

ACS. The award is named after Dr. Linus Pauling, a native of the Pacific Northwest, because of the inspiration of his example.

Prof. Cummins' citation reads "For unparalleled synthetic and mechanistic studies of early

transition metal complexes, including reaction discovery and exploratory methods of development to improve nitrogen and phosphorous utilization."

The Award Chair for the 2017 Pauling Medal Award is Dirk Iwata-Reuyl; Dave Stuart and Theresa McCormick are symposium co-chairs.

Kara Breuer receives ACS-Hach Grant

Reported by Ronda Bard, PhD, Univ. Portland

Kara Breuer, Senior Adjunct Instructor of Chemistry at UP and chemistry teacher at Ridgefield High School in Ridgefield, WA, has received an ACS-Hach Professional Development Grant in support of her research with UP faculty and the incorporation of new analytical techniques into her chemistry and AP chemistry courses at Ridgefield.

Kara will join the UP faculty-student team assisting in the excavation (see article on page 7 of this Newsletter entitled "*Archaeometric Adventures in Pollentia*") of the ancient Roman city of Pollentia in July 2017, using Raman and X-ray fluorescence (XRF) spectrometers to analyze soils, stone, pottery, and metal artefacts from the Pollentia site. In Fall 2017, Kara will work with her Ridgefield chemistry students to apply XRF spectroscopy to the analysis of soils in the Ridgefield National Wildlife Refuge, particularly those found in the habitats of the wapato tuber (*Sagittaria latifolia*) prized by bands of the Chinook Nation. The Port of Ridgefield has recently completed a clean-up of industrial soil contaminants on the Refuge, and local tribes wish to harvest the wapato tubers according to their Native American traditions. Kara and her students will analyze soils for any remaining contaminants and report their findings to Refuge staff, the Ridgefield community, tribal agencies, and the American Chemical Society.



Sept. 7 ACS meeting Lauren Kurtz, JD

The Sept. 7 Portland ACS meeting will be held at Lewis & Clark Law School, 10015 SW Terwilliger Blvd., Portland, OR 97219-7799. The Law School is the north-

eastern-most group of campus buildings with entry at “Gate 1” (refer to [campus map](#)), which is the first exit from the roundabout on Terwilliger Blvd traveling south. The Legal Research Center (LRC) is the southern-most building in the Law School complex; the meeting is down a flight of stairs in the Lower Student Lounge. Handicap parking is available in Lot B, Gate 1, near the entrance to the LRC. General parking is available for \$3 per car in “Upper Griswold” parking lot (“C” on campus map) accessible at “Gate 2” on Palatine Hill Road. Parking permits can be purchased at the information kiosk in Upper Griswold parking lot. Attendees will need to walk to LRC from Upper Griswold parking; signs will direct attendees to the meeting location.

The speaker for the Sept. 7 meeting is Lauren Kurtz, JD, Executive Director of the Climate Science Legal Defense Fund (New York). Her talk is entitled “When Peer Review Turns to Legal Review”. Abstract and bio follow below.

Abstract: “When Peer Review Turns to Legal Review” The scientific method is designed around the belief that skepticism is good. Results

should be subjected to scrutiny through the peer review process, followed by close examination and replication by others in the scientific community. However, researchers sometimes do not realize their work may also be subject to another form of scrutiny: legal review. In particular, the federal Freedom of Information Act (FOIA) and state law equivalents have provided an increasingly common forum for taxpayers to seek review of scientists and their research. Scientists have also been targeted with ideologically motivated investigations, threatened with defamation lawsuits, and even sued for “tortious interference with business relationships.” This talk will discuss some of the legal issues that researchers have faced, and provide tips about how researchers can protect themselves.

Bio: Lauren Kurtz is the Executive Director of the Climate Science Legal Defense Fund (CSLDF), which works to defend climate scientists in a variety of legal actions, as well as educate scientists about their legal rights and responsibilities. Prior to joining CSLDF, Lauren was a litigation associate at the international law firm Dechert LLP. At Dechert, she represented commercial and individual clients on complex commercial disputes. Lauren graduated from the University of Pennsylvania Law School.

The September Section Meeting also will recognize members who have 25 or 40 years of continuous membership in the Society. Those members will receive a free dinner and a 25 or 40-year pin.

Portland Section Officers

Chair: Jean Eames
Chair-Elect: Scott Vanderwerf
Secretary: Elaine Nam
Treasurer: Dave Reingold

Councilor: Angela Hoffman
Councilor: Marcie Merritt
Alternate Councilor: Warren Ford
Alternate Councilor: Aida Melendez

Intersectional Picnic at Cor Cellars

The Oregon Section, the Puget Sound Section, the Richland Section, the Washington/Idaho Border Section and the Portland Section enjoyed a day of wine tasting and sightseeing at the second intersectional wine tasting and picnic Saturday, July 8, 2017 at Cor Cellars in Lyle Wa. Pictures by Jim Tung.



HONOR THE PAST, RESPECT THE PRESENT

Temani Pesh-wa

Liunulem ilkalamatba

(Written on Rock) Temani Pesh-wa Trail

The images you see here are ancient images respected and honored by the First People to inhabit the Columbia River Gorge and the surrounding uplands. These images were originally located at lower elevations in the Gorge and would have been covered by the reservoir behind The Dalles Dam — as were thousands of others. To preserve a sample of the images, these stones were removed from the walls of the Gorge and stored at The Dalles Dam for nearly 30 years.

They have been placed here at the request of the Confederated Tribes and Bands of the Yakama Nation, the Confederated Tribes of the Warm Springs Reservation of Oregon, the Confederated Tribes of the Umatilla Reservation and the Nez Perce Tribe, with assistance from the Corps of Engineers, the Bonneville Power Administration and Washington State Parks, to be shared for the benefit of all people as a tribute to all living and non-living things.

Please respect the sacred nature of the images and the rights of the First People as they practice their religious ceremonies at this site. Please do not disturb offerings left by First People or touch or make rubbings or casts of the images. Also, because this site is intended to be a place of prayer, please treat this area as you would any other place of worship.

Federal law and Tribal policy prohibit the disturbance or removal of archaeological resources from these lands, including these petroglyphs. Surveillance is conducted and violators are subject to five years in prison and a \$250,000 fine.



Archaeometric Adventures in Pollentia

by Ronda Bard, PhD, University of Portland

In July, 2017, chemistry students and faculty from the University of Portland return for the fourth summer to participate in the excavation of the Roman city of Pollentia in Alcúdia, Mallorca, Spain. At the invitation of Pollentia Directors Miguel Ángel Cau Ontiveros and M^a Esther Chávez Álvarez, Ronda Bard, UP Field Director for 2017, UP colleagues Valerie Walters and Kara Breuer, five UP students, and six volunteers will assist in the excavations and perform archaeometric research using XRF and Raman spectroscopy to study soil samples, ceramics, building materials, and metal artifacts.

The UP contributions at Pollentia have included surveying, remote sensing, and excavation of a necropolis dating to Christian antiquity and the late Roman Empire, all under supervision of archaeologists from the University of Barcelona. The UP team, led by visionary Fr. Richard Rutherford, CSC, UP theologian, also has included chemists Ray Bard (UP), Angela Hoffman, OSB, (UP) and Julio de Paula (Lewis & Clark College), as well as UP environmental scientist Ron Wasowski, CSC (deceased December 2016).

Last summer's discoveries included several unexpected graves dating to the Roman Republic and the early days of Pollentia settlement. Angela Hoffman already has cultured 200+ bacterial strains from soil samples collected from these ancient graves; she reported on antibiotic metabolites from one Actinomycete species at the ACS National Meeting last April. With the sup-

port of a two-year Partners in Science grant from the M.J. Murdock Charitable Trust, Angela continues this search for antibiotic activity among these soil bacteria in collaboration with Amy Sutton, chemistry and biology teacher at Benson Polytechnic High School in Portland OR.

UP students have presented additional Pollentia research at various regional poster symposia sponsored by the Portland Section of ACS, the Murdock Trust, and University of Portland. In July, undergraduate faculty-research teams will continue non-destructive pigment analysis in fifteenth century paintings housed at the Sant Jaume Church Museum in Alcudia, as well as elemental analysis of soil samples from a newly excavated floor of a Roman taberna, soils from the graves, and coins and other metal artifacts



University of Portland students Elinor Wilson and Matt Foronda collect soil samples from a grave at the site of the Roman city of Pollentia near Alcudia, Mallorca, Spain in July 2016

port of a two-year Partners in Science grant from the M.J. Murdock Charitable Trust, Angela continues this search for antibiotic activity among these soil bacteria in collaboration with Amy Sutton, chemistry and biology teacher at Benson Polytechnic High School in Portland OR. Ronda and Valerie gratefully acknowledge support from the UP College of Arts & Sciences and the Christian Antiquities Research Fund; an ACS-Hach grant supports Kara Breuer's participation.

2017-2018 MEETINGS

DATE	SPEAKER/ EVENT	AFFILIATION	TITLE/TOPIC	VENUE
Sep 7, 2017	Lauren Kurtz	Executive Director, Climate Science Legal Defense Fund (New York)	“When Peer Re- view Turns to Legal Review”	Lewis & Clark College Law School Legal Research Center Lower Student Lounge 10015 SW Terwilliger Blvd., Portland, OR 97219-7799
Oct 5, 2017	Mark Burns	Founder, President and CSO, Aminex Therapeutics (Se- attle)	Immuno-oncology drugs	OHSU Center for Health & Healing
Nov 2, 2017	Two local compa- nies (to be deter- mined)		Company pitches to Chemical Angel Network	OHSU Center for Health & Healing
Dec 7, 2017	Wine, Cheese and Chocolate		Chemistry-focused tasting	?
2018	Michael Cohen	OHSU, Physiology and Pharmacology Department	Chemical tools to study ADP ribo- sylation and other cellular processes	?
2018	Brian Grimberg	Case Western Reserve Univer- sity (Cleveland) / Hemex Health (Portlan)	Rapid malaria de- tection device	OHSU Center for Health & Healing
2018	?	FDA	FDA regulations (medical device chemistry)	?
2018	?	?	Drug pricing, reim- bursement	Pacific University School of Pharmacy