Mark your calendar and plan to attend the OLLI Happy Hour from 4:00-5:30 p.m on Sunday, December 20th.

Because there is no campus holiday party this year, we decided to hold our own happy hour holiday celebration. It is virtual so… BYOBeverage and snacks. We might even try singing a holiday jingle and playing some games. We will send a Zoom invitation to everyone shortly before the event.

So join your OLLI community and celebrate the season. We look forward to seeing many of you.
Happy Holidays to all! By the time you read this, Thanksgiving may be just a memory. I hope you had the best holiday possible- staying safe in these challenging times.

I am happy to share with you the news of our national recognition at the Osher National Conference this year. Please take a look at the article elsewhere in this newsletter.

This is also a gentle reminder that if you have not yet paid for your 2021 membership, it is definitely time. We don’t want to miss you and you do not want to miss any of the OLLI activities in the new year. Beginning in January, Zoom class notifications will only be sent to current members as will printed copies of the newsletter.

If you are not sure whether you are a current member, you may contact any board member. Board member contact information is available on the OLLI website.

Please remember that although there are fewer students in residence on campus, many are attending virtually. Your membership fees fund the scholarship fund that provides assistance to those in need. You may pay online or submit a paper form. You will find links to both methods on the OLLI website: olli.ucsc.edu. There is also a printable membership form in this newsletter.

Cheers and best wishes,

Bonita Sebastian
Learning Updates

Continuing Class

The Current Crisis and World Affairs
with Professor Emerita Ronnie Gruhn
Ronnie’s “Short Commentaries” series on YouTube.

International perspectives: Pres.-Elect Joe Biden
https://youtu.be/1kCXo55H3H0
Bad News/Good News
https://youtu.be/C1cdMWb5aJk

Dr. Gruhn welcomes feedback and questions.
You can email her at ronnie@ucsc.edu

Class and Event Recording Links since last newsletter

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<td>November OLLI General Meeting: Politics and Ideology in the U.S. and Canadian Supreme Court</td>
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Like all these classes?

Be sure to join OLLI for the coming year and we will continue sending links to the classes.

Sign up online at olli.ucsc.edu
or use the form at the end of the newsletter.

Send us your thoughts and ideas for inclusion in future monthly newsletters. We are interested in the well-being of our members and what everyone is doing to cope with the rules created to help us weather the pandemic. Everyone is encouraged to participate in this effort.

Please send your input to: olliucsc@gmail.com with “Newsletter” in the subject line.
Modern Molecular Biology

Saturday Mornings, 10:30 - Noon, 7, 14, 21 November and 5 December.

A typical animal cell contains more than 40,000 different kinds of molecules. In the past 20 years, great progress has been made in understanding how these molecules combine and interact to form a living creature.

As in previous years Professor Emeritus Barry Bowman will organize the course and offer two lectures. Two other professors from the Molecular, Cell and Developmental Biology Department at UCSC will present lectures covering topics related to their research programs.

These talks are intended for a general audience. A scientific background or knowledge of biology is not expected. Barry Bowman, the course coordinator, will begin with a basic review of genes, proteins and cells.

Lecture #1. Professor Emeritus Barry Bowman, An introduction to the basics of molecular biology

Lecture #2. Assistant Professor Josh Arribere, How quality control protects our cells

Lecture #3. Professor Martha Zuniga, SARS Wars: Immune defenses against SARS-CoV-2 and COVID-19 pathology

Lecture #4. Professor Emeritus Barry Bowman, Digging deeper into DNA

Our OLLI Reporter, Johnna, sent me the following: I would also be interested in people's pandemic tips, kind of a round-robin article with snippets from about 30 different people of how they keep their spirits up and themselves growing in meaningful ways.

This would be very helpful to all of us. Please email her directly at aleena12teacher@yahoo.com

Thanks for helping us.
The Beauty of Mathematics: Equations

Dates: Tuesdays, January 5, 12, 19, 26, 10 a.m. to Noon
Location: Zoom online
Instructor: Peter Farkas

These lectures will be slightly different from my previous lectures on mathematics: there will be hardly any proofs, and much more history. I will present just enough formalism to be able to state the theorem about solving equations, understand and appreciate it in its context, and appreciate what is involved in proving it.

You may remember that in your first algebra (or pre-algebra) class you were taught formulas for solving 1st and 2nd degree equations. (Never mind if you don’t remember the formulas or the equations, or even ever having seen them.) In this class we will review such equations, and tell the story of the quest for finding formulas for solving them. Surprisingly no formulas exist for *some* equations; it is not that people could not find them; rather, such formulas do not exist! We will take a look at the amazing story of the proof of this fact. We will take frequent detours to see the larger context, and to learn about some of the people and history (some of it unusually dramatic) related to this topic.

The only prerequisite for this class is curiosity about the topic, and a desire to explore the beauty and history of mathematics. There will be moments when I will talk of technical subjects, but I will introduce and explain everything we need. No special knowledge beyond middle school mathematics will be assumed.

Peter started out as a mathematician with a master’s degree in mathematics from the University of Bucharest, Romania, and a Ph.D from the University of Chicago. He started an academic career as a mathematician but swerved at some point and became a software engineer. Throughout his software engineering career, his love and awe for mathematics persisted, and now, in retirement, he is returning to it. He had a faithful and absorbed audience for his two earlier courses for OLLI.
The Covid pandemic is on everyone's minds these days. How did this disease originate, where did it come from, and how long will it last? These are questions for ecology and evolutionary biology. Moreover the same questions can be asked about numerous other infectious diseases, many of which also impact human societies and human welfare. We will address these and related questions via lectures from four of the world's experts on the ecology of infectious disease.

January 7. Dr. Felicia Keesing, Bard College---**Biodiversity and Infectious Disease**
January 14. Dr. Drew Harvell, Cornell University---**Disease in the Oceans**
January 21. Dr. Richard Outfield, Cary Institute of Ecosystem Studies--**The Ecology of Lyme Disease**
January 28. Dr Marm Kilpatrick, University of California, Santa Cruz--**The Ecology of Covid-19**

Not only are these individuals among the world's best disease ecologists, they are dedicated public servants and gifted public speakers. Please join us for what promises to be a unique and important learning experience.

Jim Estes received a bachelor’s degree from the University of Minnesota in 1967 and a doctorate from the University of Arizona in 1974. He worked as a research scientist for the US Fish and Wildlife Service and the US Geological Survey. After retiring from federal service in 2007, Jim joined the faculty of the Department of Ecology and Evolutionary Biology at the University of California at Santa Cruz. He retired from the University in 2018 although he continues to occasionally teach and work with students. Jim is an internationally known expert on species interactions, especially those involving predators. He has published more than 200 scientific articles and several books and monographs including a co-edited volume with John Terborgh (Trophic Cascades: Predators, Prey and the Changing Dynamics of Nature, Island Press) and his memoir (Serendipity: An Ecologist’s Quest to Understand Nature). He has served on the editorial boards of various scientific journals. Jim is a Pew Fellow in marine conservation, a Fellow of the California Academy of Sciences, and a member of the National Academy of Sciences. He received the Western Society of Naturalist’s Lifetime Achievement Award in 2011 and the American Society of Mammalogists’ C. Hart Merriam Award for excellence in research in 2012.

- OLLI is not charging for these zoom classes, but we hope many of you will appreciate these classes so much that you will choose to make a contribution to our scholarship fund when you renew your membership. At this time, there are many UCSC re-entry students needing our help.
UCSC OLLI Woo Hoo Entry Wins a Top Prize at the Osher National Conference

This year, the Bernard Osher Foundation held its annual National Conference virtually. As part of the conference, attendees were invited to send in a Woo Hoo- a short video or article showcasing a particularly special activity of their OLLI. We decided to highlight the Alternative Spring Break and submitted the following (as displayed on the conference site):

We were delighted that we were selected as one of the top three winners of 76 entries. It is a real tribute to the program that Mark Gordon has led and that so many of you have participated in. Congratulations to all!!!

More information on Alternative Spring Break can be found at: https://olli.ucsc.edu/activities/college9_10.html
A note from our Treasurer:
Our normal funding for scholarships from memberships and in-person classes and memberships has fallen off as an effect of the pandemic. Please be sure to renew your membership and make a donation to the Silvia Miller scholarship fund. Future links to Zoom Courses will only be sent to current members.

Lois Widom sent this link about Hummingbird’s wings —

From the Santa Cruz Sentinel, November 2, 2020
The Osher Lifelong Learning Institute at UC Santa Cruz contributed 30 Silvia Miller Scholarships of $1,500 to students who have had their education interrupted and are re-entering college through UCSC’s Services for Transfer and Re-Entry Students program. Lifelong Learners, a community devoted to the pursuit of learning, provides an encouraging uplift to the students’ confidence and potential for success.

OLLI Digital Photo Interest Group. “First Rain” by Piotr Zimniak
**Gratitude is the antidote.** It combats ills as vague as societal discontent to others as specific as personal grief and this seemingly endless pandemic. I do hope Thanksgiving was a day of appreciating our immediate surround, loved ones, and dear friends.

**Newsflash:** The next TED Talks virtual meeting will be January 25th to discuss: *The permanent changing nature of education worldwide through remote learning and improved communication systems.* This group meets virtually fourth Mondays at 1pm. Recommended references, film, or written material, should be reviewed at home before the meeting to foster more fruitful discussion time.

**Try a new interest group.** Especially now that many groups are meeting virtually, why not join a meeting to see what you’re missing?!

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<td>Adventuring</td>
<td>Kathryn Nance</td>
<td>332 8051</td>
<td><a href="mailto:momokat13@gmail.com">momokat13@gmail.com</a></td>
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<tr>
<td>All Things Classical</td>
<td>Jay Stoffer</td>
<td>(310) 923 3099</td>
<td><a href="mailto:jaystoffer8@gmail.com">jaystoffer8@gmail.com</a></td>
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<td>American History &amp; Literature</td>
<td>Virginia Law</td>
<td>425 5453</td>
<td><a href="mailto:veelaw29@gmail.com">veelaw29@gmail.com</a></td>
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<td>Art-Joy of Painting</td>
<td>Gayla Pius</td>
<td>464 6559</td>
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<td>Art &amp; Architecture</td>
<td>Lois Widom</td>
<td>423 0184</td>
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<td>Bagel Ladies</td>
<td>Mary McKane</td>
<td>400 8799</td>
<td><a href="mailto:omforest9@gmail.com">omforest9@gmail.com</a></td>
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<td>Baroque Festival</td>
<td>David Copp</td>
<td>708 2206</td>
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<td>332 2361</td>
<td><a href="mailto:marycaravalho@gmail.com">marycaravalho@gmail.com</a></td>
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<tr>
<td>Biographical Fiction</td>
<td>Jan Mintz</td>
<td>(714) 719 0694</td>
<td><a href="mailto:musicmintz@gmail.com">musicmintz@gmail.com</a></td>
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<td>Jo Anne Dlott</td>
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<td>Peter Marks</td>
<td>464 8300</td>
<td><a href="mailto:peter@designinsight.com">peter@designinsight.com</a></td>
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<td>Current Affairs I</td>
<td>Mark Gordon</td>
<td>(408) 314 4802</td>
<td><a href="mailto:mgordon@cruzio.com">mgordon@cruzio.com</a></td>
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<td>Digital Photography</td>
<td>Cindy Margolin</td>
<td>688 8129</td>
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<td>Diane Zacher</td>
<td>786 9550</td>
<td><a href="mailto:dianezacher@gmail.com">dianezacher@gmail.com</a></td>
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<td>Florence Orenstein</td>
<td>427-2380</td>
<td><a href="mailto:santacruzflos@aol.com">santacruzflos@aol.com</a></td>
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<td>English in Action</td>
<td>Karin Grobe</td>
<td>427 0984</td>
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<td>Dusty Miller</td>
<td>426-0835</td>
<td><a href="mailto:hndmiller@hotmail.com">hndmiller@hotmail.com</a></td>
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<td>Bill Patterson</td>
<td>479 3729</td>
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<td>Steve Edmonds</td>
<td>338 3106</td>
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<td>Beatrice Barbakow</td>
<td>661 5444</td>
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<td>457 2690</td>
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<td>Joyce Burt</td>
<td>464 3470</td>
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*full **delayed virtual meeting*
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<td>462 1280</td>
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<td></td>
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<td>Read &amp; Socialize *</td>
<td>Edna Elkins</td>
<td>454 8611</td>
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<td>426 0835</td>
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<td>818 8059</td>
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<td>David Brick</td>
<td>325 7380</td>
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<td>Theatrics</td>
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<td>Visit Not-for-Profits</td>
<td>Gabrielle Stocker</td>
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<td>Walking</td>
<td>Alice Tarail</td>
<td>334 3328</td>
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<td>Phil Lynch</td>
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<td>Margie Lafia</td>
<td>304 7380</td>
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<td>Pamela Roby</td>
<td>247 0675</td>
<td><a href="mailto:roby@ucsc.edu">roby@ucsc.edu</a></td>
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**The Senility Prayer**

Grant me the senility to forget the people I never liked anyway, the good fortune to run into the ones I do, and the eyesight to tell the difference.
For those of you looking for lifelong learning opportunities online:

**WindowSwap? Travel without moving!**

[https://www.window-swap.com/](https://www.window-swap.com/)

Let’s face it. We are all stuck indoors. And it’s going to be a while till we travel again. Window Swap is here to fill that deep void in our wanderlust hearts by allowing us to look through someone else’s window, somewhere in the world, for a while. A place on the internet where all we travel-hungry fools share our ‘window views’ to help each other feel a little bit more connected till we can explore our beautiful planet again.

**Santa Cruz Flash Tours**

[https://www.santacruzworks.org/our-events](https://www.santacruzworks.org/our-events)

Every week, we do a Zoom live “Flash Tour” of a local company. In fewer than 25 minutes, you meet the owners, learn about their culture and success formulas, jobs, and the tech they use. In the line-up is Humble Sea, Annie Glass, Zero Motorcycles, Parallel Flight, and more. Our first Flash Tour was with Idea Fab Labs.

**San Francisco Opera – Free**

[https://sfopera.com/opera-is-on/streaming/](https://sfopera.com/opera-is-on/streaming/)

In this new virtual era, San Francisco Opera is streaming past productions from its stage directly to your screens at home. The weekend streams are only available to the public for a limited time; however, the Opera is offering KQED members access to its gallery of streamed operas Dec 1–31! Registration form available until December 29.

**ScienceWebinars | AAAS**

FREE WEBINAR

December 2
3:00pm to 4:00pm

Astronomy meets pathology:
An interdisciplinary effort to discover predictive biomarker signatures for immuno-oncology

Speakers

Janis Taube, M.D., M.Sc.
Johns Hopkins University
Baltimore, MD

Alexander S. Szalay, Ph.D.
Johns Hopkins University
Baltimore, MD

Arts at UCSC
https://arts.ucsc.edu/

Art of Change Podcast
Sunday, Nov 1 - Saturday, Dec 31

Elvert Perez (Online Exhibition)
Thursday, Nov 5 - Thursday, Dec 31

Saul Villegas (Online Exhibition)
Monday, Nov 9 - Thursday Dec 31

Christmas Carol 2: Scrooge Strikes Back
Friday, Nov 20 - Wednesday, Dec 23

James Dupen (Online Exhibition)
Wednesday, Oct 28 - Thursday, Dec 31

What Makes Us Human: An Art + Genomics Convergence
Thursday, Nov 12 - Wednesday, Jun 30, 2021

Kaelene Jensen (Online Exhibition)
Tuesday, Nov 17 - Thursday, Dec 31

Cezar Cozianu (Online Exhibition)
Monday, Nov 23 - Thursday, Dec 31

DANM MFA Show - Fall 2020
Friday, Dec 4 - Thursday, Apr 1, 2021

Sesnon Gallery Speak Up: Undoing Time
Wednesday, Dec 9 - 5:30pm to 6:30pm
Promotion Partners

Next Stage Productions
Theatre and Performing Arts for Active 50+
https://www.nextstagesantacruz.org/

JEWEL THEATRE COMPANY

Espressivo
a small, intense orchestra

Santa Cruz Shakespeare
https://www.santacruzshakespeare.org/

Santa Cruz Baroque Festival
P.O. Box 482 Santa Cruz, CA 95061
contact@santacruzbaroquefestival.org
scbaroque.org • 831.457.9693
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*Elected office
**Replacing resigned officer
Join OLLI Now

Join or Renew Membership. Osher Lifelong Learning Institute at UCSC, Period Ending June 30, 2021

Please consider registering online at our website, http://olli.ucsc.edu. It’s faster for you, saves us time and money, and helps ensure accuracy.

To join or renew your membership, which includes unlimited participation in our peer-led interest-group program*, enter personal information. Enter credit card information or include your check payable to UC Santa Cruz Foundation. Mail this form to the address at right. For further information, contact Karen Gamell, 831-905-6636, kgamell@yahoo.com. Your membership established with this coupon and payment will end June 30, 2021.

Osher Lifelong Learning Institute
 c/o Bonita Sebastian
 755 14th Avenue, Unit 301
 Santa Cruz, CA 95062

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Check small boxes (□) above for information you do not want published in the OLLI at UCSC member directory. All names are published. We need your email address to send you our periodic email newsletters.

During this time when we are not meeting in person, all members will be sent an email link to a bi-weekly multipage PDF newsletter.

Current members will also receive invitations to the monthly course offering which is offered without charge.

Contribution Information:

We ask a donation of $60. Please consider an additional donation to the Silvia Miller scholarship program. If funds are limited, in confidence you may contact OLLI president Bonita Sebastian, BonitaS@ucsc.edu, to discuss alternatives.

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*Some interest groups have limited membership. You may ask a group’s leader to be placed on a waiting list or get help from our interest-group coordinator to form a new group. See our website for more information.

Contributions to the UC Santa Cruz Foundation are tax deductible as allowed by law. You will receive an acknowledgement of your contributions from the University. Thank you for your generosity!

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