The Ohio State University Emeritus Academy Newsletter: February, 2021 (Volume 3)

Editor, Joseph F. Donnermeyer (Past Chair, EA Steering Committee)

Remember the very first Star Wars movie, with special effects that looked so real back in 1977, and now look so antiquated? If you recall, it's subtitle was "a new hope." Perhaps those three words will describe 2021, once we look back on this year's 52-week voyage into the future. Covid vaccines are now available and most of us in the Emeritus Academy are already eligible (and at an OSU location appropriately nicknamed – "The Schott").

When members of the Steering Committee first conceived of this newsletter, we worried about the number of EA members who would submit their scholarly accomplishments from more recent times. Would there be enough? Well, there was no validity to our apprehensions. The first two issues were filled with fantastic testimonials to the continued intellectual efforts of EA members from anthropology to zoology. This third issue again demonstrates the work we fellow EA members do to advance our respective disciplines, even though we are technically retired.

This is the first of two editions of the EA newsletter to be published during the Spring Semester. KEEP IN MIND THAT THE DEADLINE FOR SUBMISSIONS ABOUT YOUR SCHOLARLY ACTIVITIES FOR THE NEXT ONE, VOLUME 4, WILL BE APRIL 30. As a reminder, be sure to write your narrative in a non-technical style, as much as that is possible, so that EA members from all of the disciplines can appreciate your work.

The "new hope" is that by the time we transition to the Autumn Semester, 2021, Ohio State's campus will have reopened, that our lecture series is again held at the Faculty Club, and that those chocolate and peanut butter savory delights known as "Buckeyes" will entice us to smile again.

Ardine Nelson, Professor Emerita of Art Chair, Emeritus Academy Steering Committee

Bharat Bhushan – Professor Emeritus, Department of Mechanical and Aerospace Engineering

2020 was a good year for Bharat Bhushan, with three achievements of great significance.

First, the **Tribology Gold Medal Award** is annually given by International Tribology Council (ITC), for lifetime outstanding and supreme achievements in the field of tribology. It is considered the world's premier award in tribology, which is the study and application of interacting surfaces that are in motion. The nomination for the award requires strong support from at least five eminent tribologists from five different countries, and the nomination can be made by a prior medal winner or an ITC Executive. The selection is made by an independent Awards Selection

Committee, consisting of eminent scientists from across various scientific and engineering disciplines.

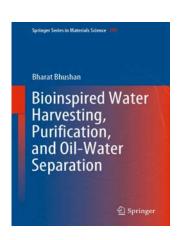
The Tribology Gold Medal was established and first awarded in 1972. It has been awarded to 49 individuals from 18 different countries. In 2020, the award was given to Dr. Bharat Bhushan, an American Tribologist/Scientist. He is the 11th American to be honored, the first since 2013, and the 4th living laureate. The Award Ceremony will take place at UK Embassy in Washington, DC, to be hosted by British ambassador to the US. https://www.itctribology.net/en/awards/tribology-gold-medal/

The citation of the award for Dr. Bhushan states: "In recognition of his outstanding and supreme achievements in Tribology, with five decades of distinguished and continued contributions to its advancement as a prolific author and internationally recognized expert at the nano-to-microscales. His research contributions have significantly extended to the interdisciplinary areas of biological and material science and he has pioneered the tribology of magnetic storage devices, bio-/nanotechnology, cosmetics and biomimetics, nanotribology and green tribology."

Second, Professor Bharat Bhushan was ranked Scopus's One of 440 Scientists for "Career-long Citation Impact Across All Fields" and second in Mechanical Engineering in 2020. He was the only one of the three professors from The Ohio State University to be featured in the top 440, out of over 8 million scientists from around world. He has authored 10 scientific books, 100+ handbook chapters, and 900+ scientific papers. Also, he has edited more than 60 books and holds more than 25 U.S. and Foreign Patents. For more information on Dr. Bhushan's research, visit his <u>Google Scholars page</u>. For more information about the ranking and the methodology used for the Scopus study, visit https://dx.doi.org/10.17632/btchxktzyw.

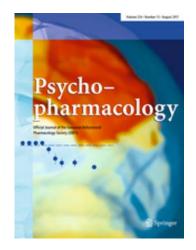
Bharat Bhushan continued

Finally, in the Spring 2020, Professor Bharat Bhushan's new book, *Bioinspired Water Harvesting*, *Purification, and Oil-Water Separation*, is part of the Springer Series in Materials Science. In this book, Professor Bhushan addresses pressing societal concerns such as clean water scarcity for a large fraction of the global population. He describes bioinspired water harvesting from fog and condensation, water purification and oil-water separation techniques. Additionally, he presents designs for water harvesting towers and projections for water collection. More information about the subject matter of the book and ordering information is available Here.



John P. Bruno, Professor Emeritus, Department of Psychology

My students, collaborators, and I have authored over 175 peer-reviewed articles in the fields of psychology, behavioral neuroscience, neuropsychopharmacology, and biological psychology. Major themes of our cross-disciplinary research, over the years, are developmental brain plasticity; neurobiology of neurodegenerative diseases such as Parkinson's and Alzheimer's; and more recently, the search/development of novel treatments for Schizophrenia.



The capstone of my 32-year tenure at The Ohio State University was serving as Chair of the Department of Psychology (2015-2018). During that period, I was also named as a Distinguished College Professor in Psychology. While I closed my laboratory at the time of my retirement in 2018, I continued to engage in scholarship related to Ohio State. For the next year, I served as a Faculty Fellow in Neuroscience for the College of Arts and Sciences. In this role. I was a consultant to the SBS Divisional Dean and the ASC Executive Dean for all issues related to enhancing the College's considerable investment in neuroscience at the undergraduate, graduate, and faculty levels. Presently, I am preparing several manuscripts, each containing a series of experiments conducted in my laboratory. The experiments focused on the functions of reciprocal interactions between subcortical (hippocampus; accumbens; amygdala) and

cortical (prefrontal) regions. We demonstrate that such reciprocity is essential for the regulation of affective state as well as maintaining effective components of normal cognitive control (attention; working memory). Moreover, breakdowns in these anatomical circuits lead to the cognitive control deficits seen in several psychiatric disorders such as Depression, Schizophrenia, and Post-Traumatic Stress Disorder. In

John P. Bruno continued

2020, we published an article in the journal *Psychopharmacology* (*Phenis et al.*, *Vol.* 237, *pp* 1723-1735, 2020) on the neurochemical mechanisms underlying working memory. We are currently writing a major review on the cognitive impairments associated with altered development of these subcortical-cortical loops.

Our results demonstrate multiple procedures to restore cognitive control using either novel pharmacotherapeutics or behavioral training. These studies are likely to strongly influence the development of future, more efficacious, therapeutic approaches in treating these devastating mental illnesses.

Malcolm Cochran - Professor Emeritus, Department of Art

I retired in December 2012, but since this is my first entry to the newsletter, I won't

rewind eight years. Let's start with 2016, when I was awarded a two-month residency at Cité Internationale des Arts in Paris to do research for a project titled Requiem, a multi part installation in which for the first time I incorporated vocal performance in my work. While there my concept for the project stretched when I met composers whom I ended up commissioning to write a cappella songs; I also used the unbroken time to complete and launch my website (malcolmcochran.com).



2017 was a wonderfully full year in my post OSU teaching life. After a five-year search, in March of '17 I bought property just south of Greenlawn Avenue, just east of the river and railroad tracks. I mention this in the context of professional news because it fulfills a lifelong dream to have my living and studio at the same place. When I came to OSU from New Hampshire in January 1987, it was great to have a studio (rather than an office) in the sculpture building on west campus. Within a few years, however, having next to no

International Sculpture Center

separation from the students made me eager to have a studio off campus. Thanks to a significant national award in 1992, I was able to begin renting private studios, and I continued to do this through fall of 2018

when I moved everything to my new place. I intend to use the studio both as a space to make new work and to display existing pieces with the aim of placing them in collections before the grim reaper knocks on my door. In autumn 2017, I was honored to receive the International Sculpture Center Educator of the Year Award. I take particular pride that former students nominated me and wrote the recommendations. One does not set out as a young teaching to win awards, but it was indeed gratifying to be honored this way at the end of my teaching career.

John Cochran continued

Requiem premiered at the Weston Art Gallery, Cincinnati, in winter 2018, and I am eager to present it again when it is again possible to stage public exhibitions and performances.

I have been working with Columbus Landmarks to find an alternative venue for the presentation and are hopeful that we can find the resources to have it at a deconsecrated Catholic church on East Main Street, just west of Bexley.



Last month I was awarded an Ohio Arts Council

Individual Excellence Award which I would like to use as seed money for a presentation this fall, if funding and Covid-19 vaccinations allow. For video documentation of Requiem, see: https://vimeo.com/325028444. My current project, albeit only in the ideation stage, is another multi part installation with vocal performance. It is ambitious and will require funding; I will keep you posted.

Joseph F. Donnermeyer, Professor Emeritus, School of Environment and Natural Resources

Dr. Donnermeyer was recognized with the Lifetime Achievement Award from the Division of Rural Criminology, the American Society of Criminology for his distinguished scholarship, teaching, and service in the field of Rural Criminology. Dr. Donnermeyer is one of the few members of ASC who have received the Lifetime Achievement Award from two separate divisions of the Society. The other was presented to him in



2017 by the Division of Critical Criminology and Social Justice.

Mark Failla, Professor Emeritus, Human Nutrition Program

Since retiring in 2018, I have continued activities that address the digestion and absorption of nutrients and other health-promoting compounds in foods. I have served as co-Principle Investigator and Principle Investigator for two interdisciplinary grants from industry totaling \$332,000. Publications during the period of 2018-2020 include the following.

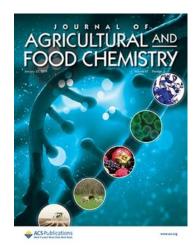
Failla ML, Gutierrez-Orozco F. (2018) Mangosteen Xanthones: Bioavailability and bioactivities. Fruit and Vegetable Phytochemicals; Chemistry and Human Health, Volume 1. ed. E.M. Yahia, 2nd edition, John Wiley & Sons, In, West Sussex, England, pp. 165-181.

Chitchumroonchokchai C, Failla ML. (2018) In vitro approaches for investigating the bioaccessibility and bioavailability of dietary nutrients and bioactive metabolites. In: Functional Foods and Beverages: In Vitro Assessment of Nutritional, Sensory and Safety Properties. N Bordenave and MG Ferruzzi, eds. Wiley Blackwell, Sussex, England. pp. 171-199.

Mark Failla continued

Zhong S, Vendrell-Pacheco M, Heskitt B, Chitchumroonchokchai C, Failla ML, Sastry SK, Francis DM, Kopec R. (2019) The effect of novel processing technologies on the bioaccessibility and Caco-2 cell uptake of carotenoids from tomato and kale-based juices. J. Agric. Food Chem. 67, 10185-10194.

Atnip A, Giusti MM, Sigurdson GT, Failla, ML, Chitchumroonchokchai C, Bomser JA. (2020) The NCI-N87 cell line as a gastric epithelial cell model to study

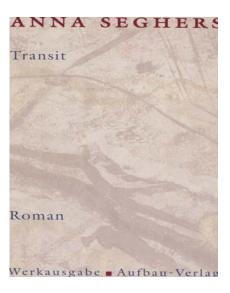


cellular uptake, transepithelial transport, and gastric anti-inflammatory properties of anthocyanins. Nutr. Cancer 72, 686-695. doi.org/10.1080/01635581.2019.1644354.

Failla ML, Rodrigues DB, Chitchumroonchokchai C. (2019) Bioavailability and metabolism of carotenoid esters. In: Carotenoid Esters in Foods: Physical, Chemical and Biological Properties. Ed., A.Z. Mercadante. Royal Society of Chemistry, London, pp. 399-419.

Helen Fehervary – Professor Emerita, Department of Germanic Languages and Literatures

2020 was quite a rewarding year for me as general editor of the text-critical, commentated edition of the German writer Anna Seghers' (1900-1983) collected works published by Aufbau-Verlag in Berlin. I have overseen this edition since 1998 and by 2014, 12 volumes had appeared. After an interruption of several years due to limited funding, Aufbau-Verlag is prepared to begin publishing again. The entire edition is projected to have 24 volumes containing Seghers' 11 novels, circa 50 stories, and numerous essays and letters. My co-editor at the Universität Mainz and I are just now completing the text base, notes, and commentary



Helen Fehervary continued



Anna Segher

for Seghers's novel *Der Kopflohn* (A Price on His Head), which will appear in time for the Frankfurt book fair in October 2021. Written in 1933 during the first year of Seghers's political exile from Germany and published by an exile press in December of that year, this novel depicts the Nazi takeover of a rural Hessian community in the summer of 1932 when the National Socialists made major electoral gains in this region and nationwide. The parallels to today are astounding! Seghers is best-known for longer novels such as her antifascist *The Seventh Cross* of 1942 (a book-of-the-month-

club bestseller, then a Hollywood film directed by Fred Zinnemann and starring Spencer Tracy) and her novel *Transit* of 1944 about the often failed escapes from France in 1940-41 (recently staged in theaters and made into an award-winning film). However, this shorter, earlier novel *Der Kopflohn* contains the seeds of the catastrophes that followed only a few years later.

Meanwhile I continue to write and this year participated in zoom conferences. In July I was on a Brandeis University panel about German writers and race focusing on Anna Seghers – who wrote more about people from Asian, Latino, and Black African and Caribbean cultures than any other German writer of her generation. In September I was interviewed by the leading German cultural broadcaster *Deutschlandfunk Kultur* for a radio feature about migrants in Marseille in 1940 (as in Seghers's novel *Transit*) and today. In October I delivered a paper on the Hungarian intellectual and scholar László Radványi as part of the international conference *Red Migrations: Marxism and Mobility after 1917*. In November I spoke at the Emeritus Academy about the friendship and working relationship between the actor Peter Lorre and the poet, playwright, and director Bertolt Brecht. In December I was the discussant for a fascinating paper by Irina Denischenko at the *Red Migrations* conference about the Hungarian avant-garde before, during, and after the Soviet Republic of 1919, especially the theoretician and artist János Mácza.

Writing in 2020 includes two encyclopedia articles for Metzler Verlag's Anna Seghers

Handbuch (Sept. 2020); a paper about my work on Seghers for the Seghers Society yearbook Argonautenschiff (Nov. 2020); my essay about Peter Lorre and Brecht in the Brecht-Yearbook (Dec. 2020); and "Anna Seghers, a Writer Who Defended the Wretched of the Earth," in Jacobin (Nov. 2020), a magazine which to my delight has 2 million on-line and 60

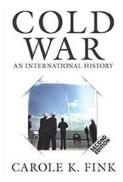


Helen Fehervary continued

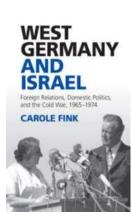
thousand print readers. In honor of my longtime friend, the celebrated German theater actor Jürgen Holtz who died in June 2020, I wrote and prepared materials concerning his legendary performance in the premiere of Heiner Müller's play *The Mission*, in the International Brecht Society on-line *Newsletter e-cibs* (Dec. 2020). For the *Heiner Müller Handbook*, forthcoming in De Gruyter in 2021, I wrote two entries. And I wrote "Brecht and Feminism" for the Cambridge University Press volume *Brecht in Context* which will appear in the UK in July 2021, in the U.S. in October.

Carole Fink – Humanities Distinguished Professor of History Emerita

Since retiring in 2011 and relocating Wilmington, NC to be nearer my two children, I have been an active scholar, publishing three books (a general survey: *Cold War: An International History*, 1st and 2nd eds. 3rd ed. in preparation); a collection of original essays: *Writing 20th Century International History: Explorations and Examples*, and a research monograph: *West Germany and Israel: Foreign Relations, Domestic Politics, and the Cold War, 1965-1973*), delivering papers at national and international conferences, and winning several research awards.







I have also been an engaged Wilmingtonian, giving lectures, writing newspaper articles and participating in refugee assistance (alas! abruptly terminated in 2017), tutoring in an inner-city school, and working with the homeless.

Among the highlights of these past ten years have been my visiting teaching appointments in Haifa, Qingdao, Jena, and Sydney – each enabling me to experience new environments and meet students, colleagues, and community members, many of whom became friends. Another was the launch of new archival research in Germany, Israel, and the US to be presented to the Emeritus Academy in April and published in an international journal on the unexpected arrival of Soviet Jews in West Germany before 1989. And, finally, my senior fellowship last year at the Leibniz Institute of European History in Mainz, which, although interrupted by the onset of the covid-19 pandemic,

Carole Fink continued

enabled a rich interchange with young scholars from all over Europe that I hope to continue.

Donald Haurin, Professor Emeritus, Department of Economics

Since retirement from the Department of Economics in 2012, I have been a member of a research team with OSU faculty from the Glenn College and Department of Human Sciences. We have been supported with grants from the Department of Housing and Urban Development, the MacArthur Foundation, and the Social Security Administration.

The research focus was initially on older adults' housing and mortgage borrowing choices, but has evolved to focus on the impact of these choices on various outcomes including food security, adherence to taking scheduled prescription drugs, and the progression of selected diseases. Our publication outlets focus on journals, with 2019-20 articles including placements in *Aging and Mental Health*, *The Journals of Gerontology: Series B, Psychological Sciences and Social Sciences, International Economic Review, Journal of Consumer Affairs*, and the *Journal of Housing Economics*. A policy paper on reverse mortgages was published by the Brookings Institute (available at https://www.brookings.edu).



One of the side benefits of this collaboration is the continuous involvement of one or two graduate research associates on the projects. Another benefit is the research team's weekly meetings, which helps to maintain an academically focused contact with the university. During 2020, the meetings were via Zoom, but that



has been fairly successful.

The economic discipline's national meetings were successfully held via Zoom and in many ways it was easier to "attend" sessions. Another unforeseen change in the discipline is that a number of departments have opened their seminar series, via Zoom, to a wider audience and thus attending presentations "at" Princeton, MIT, and various sites in Europe is now an option.

Gary Kennedy, Emeritus Professor of Mathematics

I had signed up to teach a single section of calculus in Spring 2020, which turned out to be the first semester of COVID. In mid-March, as we were all suddenly moving our classes on-line, I was about to teach a short unit on the basics of differential equations. In that unit, which covers just the most basic ideas, a standard example is the logistic equation used as the most basic model of the spread of an infection through a population. The equation involves a specified parameter k, about which one normally doesn't make any particular fuss; it specifies the rate of transmission from infected to



uninfected individuals. But even in this simple model, one readily sees that reducing this parameter has the effect of slowing the progress of the infection; it "flattens the curve." In less than a week I wrote up a modified lesson and packaged it as a short paper to the College Mathematics Journal, where it appeared in the September issue (Flattening the curve, College Math. J. 51 (2020), no. 4, 254–259).

Ardine Nelson – Professor Emerita, Department of Art



2021 is beginning quite positively for me as I was just awarded an Ohio Arts Council Individual Excellence Award in Photography for 2021. This award, recommended by a panel of nationally recognized artists, is based on a blind review of the qualities of the visual work

and statement submitted. It is very encouraging at this time in my life to receive this award based on my current ongoing body of work, *Transitory States*.

Having been a STEP mentor this year via zoom, my group of Sophomores are well on their way to writing proposals to apply for support between May 2021 and August 2022 to complete a "transitional" experience in one of six categories. STEP stands for the Sophomore Transitional Experience Program. This is my third year as a mentor and have found it a wonderful way to remain connected with students while guiding their growth. STEP will be looking for faculty to indicate a willingness to participate for 21-22 later this spring. Please contact me if you would like to know more about this program.

Russ Pitzer - Professor Emeritus, Department of Chemistry

On September 27, 2017, I was honored for starting OARnet (Ohio Academic Resources Network), the state computer network. It was an evening event, large on partying, and

brief in terms of speeches. It was paid for mostly by companies doing business with OARnet. I had 5 minutes to speak about founding it (in 1987) and naming it (in 1988); a member of the Board of Regents had



OARnet An OH-TECH Consortium Member

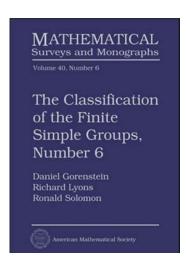
5 minutes to speak, and a state legislator had 5 minutes to speak. At that time, OARnet served 630+ K-12 schools, 314 higher education campuses (Ohio has many regional campuses), 66 healthcare facilities, 8 research facilities (some are industries), 9 public broadcasting stations, 55 local governments, and 64 State and Federal agencies. The original reason for founding the network was to provide statewide access to the new state



supercomputer center (the newest supercomputer is named Pitzer); it doesn't have supercomputer in its name because we knew that as soon as it was in place, it would be used for many other academic purposes, like e-mail.

Ron Solomon, Professor Emeritus Department of Mathematics

In collaboration with Daniel Gorenstein (deceased professor of mathematics, Rutgers University), Richard Lyons (emeritus professor of mathematics, Rutgers University) and my former Ohio State PhD student, Inna (Korchagina) Capdeboscq (associate professor of mathematics, Warwick Mathematics Institute), I have co-authored two volumes published by the American Mathematical Society (A.M.S) in 2018, and one further A.M.S. volume to appear in 2021, with the catchy titles, The Classification of the Finite Simple Groups, Numbers 7,8,9. Shown here is a book from an earlier collaboration with two of my colleagues mentioned above, also published by the American Mathematical Society.



We are now at work on two further volumes, which, in conjunction with two volumes written by our collaborator, Gernot Stroth (emeritus professor of mathematics, Halle-Wittenberg), will complete our work on this project, hopefully by 2025.

A group is a collection of functions which encode the symmetries of a set or geometrical figure (often in very high dimensional space). Groups have applications in many areas, including crystallography, coding theory and quantum physics. They themselves have an

Ron Solomon continued

architectural structure, and the building blocks are called simple groups. It was proposed in the 1890s to determine all finite simple groups, in the aftermath of the successful completion of an analogous project for finite-dimensional Lie groups, and this project was pursued with great energy starting in the 1950s. Our series of volumes, in conjunction with several background texts, two A.M.S. volumes by Michael Aschbacher and Stephen D. Smith, and two Cambridge University Press volumes by Helmut Bender, George Glauberman and Thomas Peterfalvi. will finally complete this project.



Christian Zacher, Emeritus Professor, Department of English, delivering an Emeritus Academy Lecture at the Grand Lounge of the Faculty Club, in September, 2017, titled "Christopher Columbus, Ohio: Why This Name for Our City?"

Emeritus Academy Lecture Series (2020-2021)

Despite Covid-19 and the switch to a zoom format, the Emeritus Academy Lecture Series, there have been nothing but excellent presentations, with more to come. Below is the full series for this academic year. Whether in person or online, all lectures begin a 4 PM.

The 2020-2021 lectures series:

- ✓ Philip T.K. Daniel (Educational Studies), "Maximum Extent 'Appropriate' of 'Possible': Which is it for Placement in the Regular Classroom," September 9, 2020
- ✓ Jean-Michel Guldmann (City and Regional Planning), "Green Infrastructure, Urban Planning and Design, and the Urban Heat Island: Mitigation Strategies in the Era of Climate Change," October 7, 2020
- ✓ Helen Fehervary (Germanic Languages and Literatures), "Peter Lorre and Bertolt Brecht: A Working Relationship and Friendship Beyond Hollywood", November 4, 2020
- ✓ Gary Bernston (Psychology), "History and Current Status of Approaches to the Detection of Veracity and Deception in the Context of National Security," December 2, 2020
- ✓ Duane Roller (Classics), "Cleopatra's Daughter: The Invisible Royal Women of the Ancient World," February 3, 2021
- William Clark (Materials Science and Engineering), "It's a small(er) World Looking at Atoms at Ohio State," March 3, 2021
- Carole Fink (History), "The Unexpected Arrivals: Soviet Jewish Immigration to West Germany, 1973 to 1989," April 7
- David Huron (Music), "The Science of Sad Sounds: How and Why Many People Enjoy Listening to Sad Music," May 5

A Reminder of Deadlines for the Spring Semester

There are three important Emeritus Academy deadlines for the second half of the 2020-2021 academic year.

First, a call for new member applications will go out in the second half of February, with a deadline of March 8. The Emeritus Academy values diversity of membership in every way possible. Please encourage your colleagues who have recently retired and are still active scholars to consider applying for Academy membership.

Second, the steering committee members are needed. The call for nomination is about to be sent out to all of you with a Due date of March 8. Please consider serving on this important Emeritus Academy committee. It is imperative that committee members have full access to the university on line including zoom meeting capabilities.

Third, in early March will be the call for 5-year membership renewal, with a deadline of April 1. Membership renewal is when we learn how much Emeritus Academy members have accomplished, from published book, journal articles and presentations at professional society meetings to new grants and research activities.

Fourth, in mid-March will be the call for the Academy's small grants competition, with a deadline of May 1. These small grants help the research and scholarship of many Academy members, as is evidenced through the number of highlights of Emeritus Academy members whose work was previously supported by small grants. Please read the instructions carefully. We still have too many applications that request monies for items we do not fund, and applications that fail to explain in a straightforward fashion so members of the Steering Committee, who represent a great diversity of disciplines, can appreciate what you intend to do if funded. Any questions about the guidelines for grants can be directed by email to: emeritusacademy@osu.edu.

And, one more deadline: Also in the latter half of February, a call to EA members to propose a presentation for the 2021-2022 academic year lecture series Due April 1. These lectures may be zoom presentations from anywhere in the world. Hopefully, by next year we can return to the Faculty Club. Keep your fingers crossed!

For more information on the OSU Emeritus Academy, go to the website at: https://oaa.osu.edu/emeritus-academy