



# LLI Summer 2021 Catalog

## Class: 21SU01 Nonverbal Cross Cultural Communication (ONLINE) (1 Session)

We will define nonverbal communication and discuss the role it plays in our understanding of others in cross cultural environments. The major challenges to nonverbal communication and how we can overcome those challenges to increase our appreciation of diversity and multiculturalism will be discussed. **NOTE TIME: THIS IS AN EVENING CLASS.**

Date/Time: Wed, Jun 2, 7:00-8:30 PM (Note time)

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Nan Peck

Instructor: **CAROL QUADE** is an adjunct faculty member at NOVA-Annandale in the Communication Studies and Theater Department. Her doctorate is in communication and media studies. She has taught communication and English courses for 24 years in four different countries. Her family is in the Foreign Service and they have lived overseas, off and on, for the past 20 years, currently living in Tokyo, Japan.

## Class: 21SU02 Emerging Diseases-What Might be Next? (ONLINE) (1 Session)

This lecture will discuss a few emerging pathogens as well as infections that are becoming resistant to antibiotics. We will cover what is known about emerging diseases, their current status and the factors that have the potential to influence them, and measures taken to prevent the next pandemic.

Date/Time: Thu, Jun 3, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Nan Peck

Instructor: **KAREN BUSHAW-NEWTON** holds a Ph.D. in ecology from the University of Georgia. Her research in microbial ecology and the structure and function of bacterial communities has taken her from the Beaver Ponds in northern Canada, to the coastal and inland waters of Georgia and the mid-Atlantic including the Patuxent and Anacostia Rivers. Dr. Bushaw-Newton has extensive experience teaching microbiology courses and her research has been published in several journals including *Nature*, *BioScience*, the *Journal of the Northern American Benthological Society*, and the *Journal of Environmental Pollution Research*.

## Class: 21SU03 LLI Goes Baltic (ONLINE) (1 Session)

Join Conne Rubinstein as she presents her video of LLI's Baltic Sea cruise. Visit and learn about Helsinki, Finland; St. Petersburg, Russia; Tallinn, Estonia; Riga, Latvia; Visby municipality in Gotland, Sweden; Gdansk, Poland; Bornholm, Denmark, and Berlin and Rostock in Germany. Expect to be educated and entertained.

Date/Time: Thu, Jun 3, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Doug Johnson

Instructor: **CONNIE RUBINSTEIN** taught English at Oxon Hill Science and Technology High School for twenty-five years. Since retiring she has been creating videos of the numerous trips she has taken.

**Class: 21SU04            Hans Kelsen and the Making of Secular Law (ONLINE) (1 Session)**

This class will survey the life and teachings of professor Dr. Hans J. Kelsen, author of the Austrian Constitution of 1919, and perhaps the greatest secular jurist of the twentieth century. Through his numerous books he established a new "positivist" foundation for constitutional, comparative, and international law that does not appeal to religion, tradition, or philosophy. Comparisons will be made to the French secular legal tradition, and discussion shall question whether a "science" of law appears adequate for the tasks of twenty first century governance.

Date/Time: Fri, Jun 4, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Nan Peck

Instructor: **MARK R. ROYCE**, Ph.D., is assistant professor of international relations at NOVA-Annandale. He is a frequent essayist and lecturer on the intersection of religion and politics and international relations and law.

**Class: 21SU29            Genealogy 101 (ONLINE) (4 Sessions)**

Session 1: Basics. How things have changed through the years -- the good and the bad.

Session 2: Working with a database and census records

Session 3: Mormon records, Ancestry, and other web sites, DNA

Session 4: Getting past "brick walls"; publishing

Dates/Time: Fri, Jun 4; Jun 11; Jun 18; Jun 25, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Nan Peck

Instructor: **JANICE SMITH** has been doing genealogy for 50 years in Scotland, France, and mainly Virginia in the US. She has found wonderful breakthroughs through DNA. She has published three books on her research and one digitally with color. *Family Genealogy*, 1992;

**Class: 21SU05      Getting the Best from Your Cable Company (ONLINE) (1 Session)**

Learn the customer service standards that apply to cable television and how to deal with cable customer service problems such as untimely telephone response, missed service appointments, outages, unclear or distorted picture or sound, billing issues, and unavailability of service. Find out how to file a consumer complaint, get assistance, and report a cable safety or construction issue in your neighborhood. Hear the latest developments on set-top boxes and other home equipment.

Date/Time: Tue, Jun 8, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Philippa Centini

Instructor: **DOUGLAS POVICH** is a management analyst in the Communications Policy and Regulation Division of Fairfax County's Department of Cable and Consumer Services where he works on cable TV, media, and technology issues. Before joining the county government in 2017, Doug practiced telecommunications and technology law for over thirty years, focusing on regulatory and transactional matters in the wireline, wireless, and public safety communications sectors. He holds a B.A. in English and philosophy from Union College (1982) and a J.D. from Georgetown University Law Center (1985).

**Class: 21SU06      Early Renaissance Art in Italy (CANCELED) (3 Sessions)**

Small changes in art in the 13th century blossomed into the glorious Early Renaissance of 14th century Florence. Painters, sculptors, and architects were inspired by examples from ancient Greece and Rome. Brunelleschi and Alberti developed a new approach to architecture from their study of Roman buildings. Donatello led the pathway to increasingly realistic sculpture. Masaccio's frescoes demonstrated new ways to show depth on a flat surface with the development of perspective. This class will examine masterpieces of art in Florence and other locations in Italy to follow the invention of this new art, noting contributions of artists from Giotto to Michelangelo.

Dates/Time: Wed, Jun 9; Jun 16; Jun 23, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Nan Peck

Instructor: **ROZ HOAGLAND** is a retired art historian with a B.A. from Marietta College and an M.A. from Penn State. She taught at NOVA for 40 years and also at the Corcoran College of Art + Design and gave lectures at the US State Department Training Center. In retirement she continues to take groups to Europe for study tours focusing on art, architecture, historic, and unusual sites. Since 1999 she has led 55 trips to over 20 countries.

**Class: 21SU07      The Girls of Atomic City (ONLINE) (1 Session)**

Oak Ridge, Tennessee, was the site of a key installation in the Manhattan Project — the World War II effort to build the atomic bomb. The names of the atomic scientists are well known, but equally important were the thousands of civilians, many of them young women from small towns, who were recruited to this “secret city” by the promise of solid wages and work that was vital to the war effort. Sworn to secrecy and kept “in the dark” as they worked in the factories, labs, and offices, few would ever guess the true nature of the tasks they performed until the end of the war. This class, with a title based upon the 2013 book by Denise Kiernan, will tell the story of how this town came to life in the middle of Appalachia and the young women whose pluck, courage and humor contributed to this important effort.

Date/Time: Thu, Jun 10, 10:00-11:30

Location: ONLINE

Class Size: Min. 20, Max. 97

Coordinator: Derick Malis

**Instructor:** **MIKE AHERN** is the president of LLI-Manassas and has presented many LLI classes. He holds bachelor’s and master’s degrees in chemistry and served 26 years in the US Army. He has taught at the US Military Academy at West Point; 12 years with Prince William County Schools; and as an adjunct for George Mason University’s College of Education. He is a former Washington Post Teacher of the Year for Prince William County Schools. With a son who worked as a computer scientist at the Oak Ridge National Laboratory, Mike has visited and toured “Atomic City” many times and looks forward to reprising this amazing story.

**Class: 21SU08      Growing Old Successfully In Place; the Missing Ingredients (ONLINE) (1 Session)**

This class will address the considerations of remaining in your home: interior modifications, continuing home management and upkeep, remodeling if feasible, and finding a contractor. We will also discuss the interior senior-living features to look for in a residence if you are thinking of relocation. This is a repeat of a class offered in Spring 2019.

Date/Time: Thu, Jun 10, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Robert Gisch

**Instructor:** **LYNN HOOVER** is a certified senior advisor (CSA), a senior real estate specialist (SRES), and an associate real estate broker with McEneaney Associates. She has spent over 40 years helping folks buy and sell real property. Assisting and counseling her many over-55 clients and exploring their options is a large part of Lynn’s business and one she treasures with each relationship she and her clients build together.

**Class: 21SU09 Secretary of Labor Frances Perkins (ONLINE) (1 Session)**

As a student at Mount Holyoke College in Massachusetts, Frances Perkins was assigned to complete firsthand research in local factories. She investigated a paper mill, recording information about the company's earnings, unsafe working conditions, and workers' hours and wages. As the result of this experience, improving working conditions for factory workers became her lifetime goal. From 1933-1945 Frances Perkins served as U.S. Secretary of Labor, the first female Cabinet member.

Date/Time: Tue, Jun 15, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Arlene Gribben

Instructor: **MARY LIPSEY** was raised in Fairfax County and retired from teaching seventh grade history after almost 30 years at Lake Braddock Secondary School. She loves to share local history.

**Class: 21SU10 Summer Dinner Salads (ONLINE) (1 Session)**

In the summer many people are looking for lighter meals using local produce. Chef Cal will offer recipes and suggestions for dinner salads. Recipes provided.

Date/Time: Wed, Jun 16, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Bonnie Hopler

Instructor: **CALVIN KRAFT** attended *L'Academie de Cuisine* and The Culinary Institute of America and has taught culinary classes. He worked in the corporate world of the travel and hospitality industry for 30 years. After retiring, he was the owner and executive chef of Dinner Is Served LLC, a personal chef/catering operation.

**Class: 21SU11      The SALT Richmond Wrap-up (ONLINE) (1 Session)**

Social Action Linking Together (SALT) proposes and advocates for fair and common-sense social policies in Virginia. John Horejsi, SALT founder and current coordinator, will share successes and near misses during the 2020 Special Session and 2021 General Assembly Sessions of the Virginia General Assembly. He will discuss changes that were initiated by the "Blue Wave," and how they made a difference, and whether change is still in the air. John will also address laws that passed and failed, those affecting quality of life in Northern Virginia, and whether the laws were progressive for families, gun restrictions, prison reform, and compassionate treatment of immigrants. Hear success stories about the value of legislative advocacy in shaping outcomes and the need for more work to be done. Learn your role in supporting SALT's agenda in shaping social policy that advances the common good and supports human services in Virginia.

Date/Time: Thu, Jun 17, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Philippa Centini

**Instructor:** **JOHN HOREJSI** is the coordinator and founder of Social Action Linking Together (SALT), a grassroots organization that proposes and advocates for fair and common sense social policy legislation for Virginia. He has been advocating on behalf of low income Virginia working families and prisoners since 1983. In 2020 SALT celebrated nine legislative wins in the Virginia General Assembly and has worked on some bills for 15 years.

**Class: 21SU12      Rooted in the Earth: Hildegard's Garden (ONLINE) (2 Sessions)**

Hildegard, the 12th century Christian mystic and abbess, was an innovator with a love of gardening. In a time of growing political turmoil the monasteries kept the science and art of gardening alive. In Hildegard's time the Benedictine Rule ignored women. The Church characterized women and the physical world as Satan's realm, but Hildegard had a different vision. In her own words she understood Divinity's expression in the natural world: "I am the breeze that nurtures all things green. I encourage blossoms to flourish with ripening fruits. I adorn all the earth. I am the rain coming from the dew that causes the grass to laugh with the joy of life." Let's explore this brilliant woman's garden to find the connection to nature and the divine.

Dates/Time: Tue, Jun 22; Jun 29, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Judy Robison

**Instructor:** **BARBARA STIFFLER** has been studying and giving classes on Hildegard of Bingen, a 12th century German Benedictine abbess, for the last 15 years. Her previous classes have focused on Hildegard's life and times, art, and music.

**Class: 21SU13      Where the Wild Things Are: The Galapagos Islands (ONLINE) (1 Session)**

The Galapagos Islands hold some of the world's most exotic, vulnerable, and cherished animals. Volcanoes that created the islands are still active today. Meet blue-footed boobies, marine iguanas, and Lonesome George, the poster child-er-tortoise for endangered species.

Date/Time: Thu, Jun 24, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Richard Robison

Instructor: **BONNIE BECKER**, a former high school history and geography teacher, was with the Fairfax County Public Schools Office of Human Relations for 27 years and has been an adjunct instructor for the University of Virginia. She currently teaches adult ESL with the Washington English Center. Bonnie is an LLI member.

**Class: 21SU14      Flutter by, Butterfly (ONLINE) (2 Sessions)**

After reviewing the basics on butterflies and moths, this class will add to the presentation given in 2020 with more "fun facts" regarding these important pollinators. In the second session we will visit Meadowlark Botanical Gardens to find butterflies (and other interesting insects). **Note: separate registration is required for each session.**

Date/Time: Wed, Jun 30, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Philippa Centini

Instructor: **MARY ALEXANDER** is a roving interpreter for the Fairfax County Park Authority. She has a Natural History Field Studies certificate from the United States Department of Agriculture/Audubon Naturalist Society Graduate School and is a Virginia Master Naturalist. Mary has worked or volunteered at a number of nature centers and parks including Sky Meadows State Park (Delaplane, VA), a state park along the Oregon Trail (Idaho), and Grand Teton National Park. Butterflies have been of special interest for more than twenty years and inspired Mary to teach classes on Lepidoptera (an order of insects that includes butterflies and moths) and guide field trips to find butterflies. Mary is an LLI member.

**Class: 21SU15 Flutter by, Butterfly (LIVE ONLY) (2 Sessions)**

This session is a field trip to Meadowlark Gardens to observe and identify common butterflies found in our gardens. It is the second of two sessions. See Class 21SU13. Rain dates: July 2 or July 8. **NOTE: Separate registration is required for each session. PLEASE MAINTAIN SOCIAL DISTANCE (AT LEAST 6 FEET SEPARATION) AND WEAR A FACE MASK. ANYONE WITHOUT A FACE MASK WILL NOT BE ADMITTED.**

Date/Time: Thu, Jul 1, 11:00-12:30 (Note time)

Location: Meadowlark Botanical Gardens

Class Size: Min. 5, Max. 20

Coordinator: Philippa Centini

Instructor: **MARY ALEXANDER** is a roving interpreter for the Fairfax County Park Authority. She has a Natural History Field Studies certificate from the United States Department of Agriculture/Audubon Naturalist Society Graduate School and is a Virginia Master Naturalist. Mary has worked or volunteered at a number of nature centers and parks including Sky Meadows State Park (Delaplane, VA), a state park along the Oregon Trail (Idaho), and Grand Teton National Park. Butterflies have been of special interest for more than twenty years and inspired Mary to teach classes on Lepidoptera (an order of insects that includes butterflies and moths) and guide field trips to find butterflies. Mary is an LLI member.

**Class: 21SU16 Tanzania Photo Safari (ONLINE) (1 Session)**

David Drachsler will escort us on a 9-day photo safari in Tanzania. Our transportation will be modified Toyota Land Cruisers manned by local drivers and guides. Be prepared to explore Serengeti National Park, Tarangire National Park, Lake Manyara National Park, and the Ngorongoro Conservation area. We'll also visit a workshop for the handicapped, a regional school, a Masai Village, and hear a park ranger discuss protecting rhinos from poaching. Our travels will include a stop at an overlook of the Olduvai Gorge where important fossils of early humans were found. Expect accommodations in nicely appointed lodges and the vacation of a lifetime!

Date/Time: Thu, Jul 8, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Richard Robison

Instructor: **DAVID DRACHSLER** is an LLI member. He "had camera; did travel."

**Class: 21SU17      Watching TV on the Internet (ONLINE) (1 Session)**

Today's TVs, computers, and mobile devices offer "over-the-top" options to watch movies and TV programs via streaming video over the internet. Services such as Netflix, Hulu, YouTube, Amazon, Sling TV, and Apple TV provide new alternatives. "Cord-cutters" are replacing or supplementing their cable television subscriptions with such internet video sources. The Fairfax County Department of Cable and Consumer Services will discuss the benefits and limitations of these choices.

Date/Time: Mon, Jul 12, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Philippa Centini

Instructor: **ALLAN HIDE** has worked as a management analyst for Fairfax County Department of Cable and Consumer Services in the Communications Policy and Regulation Division since 2003. He reviews state and federal communications legislation and regulations and enforces the franchise agreement that the County has with the cable providers Comcast, Cox and Verizon. Allan also provides outreach and education to Fairfax County residents on communications topics and cable complaint resolution. He formerly worked as a market analyst in the Washington, D.C., office of Africa's largest research and development organization, the Corporation for Scientific and Industrial Research (CSIR) based in Pretoria, South Africa. He has an M.S. in environmental biology from George Mason University and a B.S. in general biology from London University (Queen Mary College).

**Class: 21SU18      Glorious Greece: Ancient Painting & Sculpture (ONLINE) (2 Sessions)**

The development of ancient Greek painting and sculpture started with geometric shapes and crude proportions. Artists slowly turned to a more realistic interpretation of the human body, reaching an apex with the High Classical period. Drama and emotion filled the work of the Hellenistic period in the world conquered by Alexander the Great. This class will trace the development of painting by looking at vases, mosaics, and frescoes. It will also examine parallel developments in free-standing and relief sculpture. Many of the works are known today only from Roman copies. This is the glorious art that inspired the Renaissance.

Dates/Time: Wed, Jul 14; Jul 21, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Nan Peck

Instructor: **ROZ HOAGLAND** is a retired art historian with a B.A. from Marietta College and an M.A. from Penn State. She taught at NOVA for 40 years and also at the Corcoran College of Art + Design and gave lectures at the US State Department Training Center. In retirement she continues to take groups to Europe for study tours focusing on art, architecture, historic, and unusual sites. Since 1999 she has led 55 trips to over 20 countries.

**Class: 21SU19 Exploring Choices for Where and How to Live Life to the Fullest and Ensure a Stable Tomorrow (ONLINE) (2 Sessions)**

- The first session will discuss the features of different residence options: mixed age communities, 55+ retirement communities, and Continuing Care Retirement Communities (CCRCs), and what relevant factors to consider in making your choice.

- The second session will be a discussion with three panelists who have chosen the three different options. They will explain why they made their choice and the lessons they learned. The panelists will answer questions.

**NOTE: Participants taking this class should consider also taking “Growing Old in Place Successfully – The Missing Ingredients” (21SU08, June 10, 1:30-3:00)**

Dates/Time: Thu, Jul 15; Jul 22, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Robert Gisch

**Instructor: LYNN HOOVER** is a certified senior advisor (CSA), a senior real estate specialist (SRES), and an associate real estate broker with McEneaney Associates. She has spent over 40 years helping folks buy and sell real property. Assisting and counseling her many over-55 clients and exploring their options is a large part of Lynn’s business and one she treasures with each relationship she and her clients build together.

**Class: 21SU20 Impact of White-Tailed Deer on the Northern Virginia Ecosystem (ONLINE) (1 Session)**

Deer are a beautiful part of our landscape today and were once an important food source for our ancestors. While hunting and urbanization nearly extirpated deer from Virginia in the early 20th century, they are now so plentiful that they threaten our forests as a habitat for other wildlife. In this presentation we’ll talk about the implications for continuing to ignore the recent increase in the number of deer.

Date/Time: Wed, Jul 21, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Arline Sachs

**Instructor: BILL BROWNING** has been a certified Virginia Master Naturalist (a Virginia Cooperative Extension program) since 2013, and completed the Audubon Naturalist Society Natural History Field Studies program in 2018. He is passionate about working to help rehabilitate our local forests and making them better habitats for native flora and fauna.

**Class: 21SU21 No Cooking Required (ONLINE) (1 Session)**

This class will introduce you to an assortment of healthy and tasty recipes that require no cooking. Learn to make soups, salads, appetizers, and main dishes that can be prepared quickly. Chef Cal will discuss how to prepare, transport, and plate these dishes. Recipes provided.

Date/Time: Wed, Jul 28, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Bonnie Hopler

**Instructor: CALVIN KRAFT** attended *L’Academie de Cuisine* and The Culinary Institute of America and has taught culinary classes. He worked in the corporate world of the travel and hospitality industry for 30 years. After retiring, he was the owner and executive chef of Dinner Is Served LLC, a personal chef/catering operation.

**Class: 21SU22 Pseudoscience And Its Place In Science Denialism (ONLINE) (1 Session)**

Science denialism poses a serious threat to human health and the long-term sustainability of human civilization. One of the major contributors to today's science denialism is pseudoscience. Pseudoscience is a belief or process which masquerades as science in an attempt to claim a legitimacy which it would not otherwise be able to achieve on its own terms. In this talk we will look at the history and deleterious effects of pseudoscience and the fabricated fake controversies that illustrate how pseudoscientists consistently distort the scientific process.

Date/Time: Thu, Aug 5, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Philippa Centini

Instructor: **BARRY CENTINI** has a Ph.D. in geology from the University of North Carolina, Chapel Hill. He has been offering geology and science classes to LLI members for several years and is an LLI member.

**Class: 21SU23 Richard Risk's Poetry and You (ONLINE) (4 Sessions)**

Join us for one of LLI/NOVA's long-time favorite classes and learn how poetry can enrich your life. We share poems – contemporary or classic – illustrating a theme, occasion, form or school/movement, or we may read and discuss poems by the same poet as selected by the class. This class is dedicated to the memory of Richard Risk who established Poetry and You and was one of LLI/NOVA's founding members.

Dates/Time: Fri, Aug 6; Aug 13; Aug 20; Aug 27, 1:30-3:30 (Note time)

Location: ONLINE

Class Size: Min. 8, Max. 25

Coordinator: Marianne Moerman

Instructor: **KATHRYN O'TOOLE** is a recent member/officer on the LLI/NOVA Board of Directors, currently serves as web editor, and is active with the Favorite Books Special Interest Group (SIG). She received her B.A. from the University of California.

**Class: 21SU24 Travel Through Deep Time at the Smithsonian National Museum of Natural History (ONLINE) (1 Session)**

This is a virtual tour of the Deep Time Exhibit (Fossil Hall) at the Smithsonian National Museum of Natural History narrated by Debbie Cohen, a volunteer at Fossil Hall. We will start 500 million years ago with early life and move forward in time to view dinosaurs and life after the mass extinction 66 million years ago.

Date/Time: Tue, Aug 10, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Philippa Centini

Instructor: **DEBBIE COHEN** is a public-facing volunteer who trained for the Deep Time exhibit and volunteered in person from its opening in June 2019 until it closed in March 2020. As we await the reopening, she has enjoyed doing interactive Zoom virtual tours for friends and family. She holds a B.S. in biological sciences and an M.B.A. and retired in 2019 with broad experience in various aspects of business. She is interested in environmental and social issues as well as science education and serves on two boards of directors consistent with her interests. Debbie is an LLI member.

**Class: 21SU25      Sexual Selection in Avian Evolution (ONLINE) (1 Session)**

Why does a male peacock have such an elaborate tail? Some male hummingbirds have elaborate tail feathers as well. What aerodynamic purpose do they serve? What function do the blue feet on a blue-footed booby or the bright and colorful plumage on male birds-of-paradise serve? Do the warts and protuberances on turkeys and some Latin American birds called cotingas serve any useful role? Do any of these physical attributes enhance survival? The answer initially might be no. Long tails on birds produce drag that slows down a bird in flight and bright plumage can attract predators. So why have them? The answer seems to be that females like these attributes. It is a fitness indicator to a female observer. This is called sexual selection. The theme of this lecture will be how sexual selection contributes to evolution in birds and helps explain the elaborate diversity and even the bizarre physical characteristics of the avian world.

Date/Time: Wed, Aug 11, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Barry Centini

**Instructor:** **LARRY CARTWRIGHT** has been a nature lover for most of his life and is fond of creatures that fly, especially birds and bats. Larry leads the Dyke Marsh Breeding Bird Survey for the National Park Service and the Winter Waterfowl Survey for the Audubon Society of Northern Virginia and compiles the Washington D.C. Christmas Bird Count sponsored by the Audubon Naturalist Society. He is also a participant in a five-year project to update the Virginia Breeding Bird Atlas. Larry has received several awards from scientific and conservation-based organizations, including the Virginia Society of Ornithology's Jackson M. Abbott Conservation Award for 2013.

**Class: 21SU26      Environment - Our Place in the World (ONLINE) (1 Session)**

Where are you sitting right now? Think about your environment. Think about how you feel in different places both when you are inside and outside. Using works from the Smithsonian American Art Museum and the Renwick Gallery, we will explore the way artists depict various surroundings. During the presentation we will push the definition of "environment" in different directions. Drawing from the museums' rich collection, many of the works will be new to participants who have joined us for many other presentations!

Date/Time: Thu, Aug 12, 1:30-3:00

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Philippa Centini

**Instructor:** **SARA SHOOB** is a graduate of Boston University. She has a background in teaching and educational administration with an emphasis in history, social studies, and the arts. She currently works as a docent at the Smithsonian American Art Museum and Renwick Gallery. Sara has presented a number of classes for LLI and loves sharing her passion for art.

**Class: 21SU27      Vegetarian Delights (ONLINE) (1 Session)**

This class is an assortment of delicious and economical vegetarian recipes. We will cover appetizers, soups, salads, main courses, and side dishes. We will touch on the difference between vegetarian and vegan dishes and offer some alternatives to dairy products. Recipes provided.

Date/Time: Wed, Aug 18, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Bonnie Hopler

Instructor: **CALVIN KRAFT** attended *L'Academie de Cuisine* and The Culinary Institute of America and has taught culinary classes. He worked in the corporate world of the travel and hospitality industry for 30 years. After retiring, he was the owner and executive chef of Dinner Is Served LLC, a personal chef/catering operation.

**Class: 21SU28      Genealogy and the Warlock (ONLINE) (1 Session)**

Through researching her family history, Arline Sachs realized the importance of not believing everything that is printed or published. She also learned the importance of understanding history and the settings of events in order to understand what is written. Arline will show how an article written 150+ years ago is still quoted even though many of the "facts" are wrong. Were warlocks (or male witches) really warlocks or were they imprisoned for religious beliefs? Arline's genealogical research will be used to make these points.

Date/Time: Mon, Aug 23, 10:00-11:30

Location: ONLINE

Class Size: Min. 10, Max. 97

Coordinator: Arline Sachs

Instructor: **ARLINE SACHS** has been doing genealogy for over 35 years. She served for six years on the board of the International Association of Jewish Genealogical Societies and was president of the local society. She is an LLI member.