

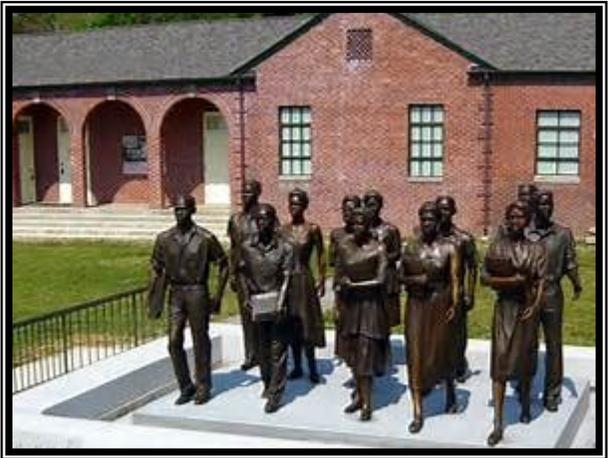


Oak Ridge Institute for Continued Learning

Fall 2016

ORICL - Enriching Lives Through Continued Learning

September 12th through December 2nd
August 17th - early registration deadline



ORICL...



“A perfect blend of those who love to learn with those who love to teach”

INFORMATION ABOUT ORICL

Oak Ridge Institute for Continued Learning is sponsored by Roane State Community College. ORICL is administered by a board elected by the members. Roane State provides classrooms, an office, and administrative support. Residents of Oak Ridge and the surrounding area of all backgrounds and educational levels are invited to become members of ORICL. Its programs are designed to respond to the interests of the participants, who may take courses and join in other activities.

In order to attend classes and activities, it is necessary to join the Institute as a dues-paying member. The fee for membership is \$100 for the full year's three terms beginning in September; \$80 for two terms (beginning in January); and \$45 for the summer term only. **We need two separate forms from couples**, even if both wish to take the same courses. During early registration, members are entitled to choose up to five classes each term plus five field trips. If a course or trip is oversubscribed, a random selection will determine who is admitted. **Participants are asked not to arrange substitutes for trips or classes, as we may have waiting lists of people who would be called for those spots.**

Out-of-town guests can be class visitors for one session on a space-available basis. Call the office for availability, as seating space is sometimes limited. **For trip participation, however, you must be an ORICL member.**

Classes and activities for the Fall 2016 term begin on Monday, September 12th and end on Friday, December 2nd. After the close of early registration on Wednesday, August 17th, we will tally the registrations received, and a week before the term begins send acknowledgements indicating courses and trips in which you are enrolled, class locations, and those programs for which you are on a waiting list. Registrants will be notified by phone if a space becomes available in an activity for which they are on a waiting list.

Some courses, such as computers, cooking, and art, may entail additional fees for use of equipment, materials, and transportation. These fees are non-refundable a week before class begins. Trip fees are non-refundable after the listed date. **After receipt of acknowledgment that you are assigned to that class or trip, please send fees to the ORICL office by dates stated.**

After August 17th, all registrations will be processed on a space-available basis.

Please note: Every person registering for Fall 2016 must pay the \$100 registration fee. We cannot process your registration without the accompanying fee; however, please do not pay for class fees or trip fees until you receive your letter signifying that you are enrolled.

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CLASSES

ART & CULTURE

100 Dutch Masters: The Age of Rembrandt

This is another in our series of art classes featuring courses offered by The Teaching Company (aka The Great Courses: www.TheGreatCourses.com). This one is devoted to the outstanding artists who flourished in the Netherlands during the Sixteenth and Seventeenth Centuries: Rembrandt,



Hals, Hooch, Steen, Vermeer, and so on. The professor is William Kloss, who also taught the earlier ORICL course on *A History of European Art*. Those attending that class will remember his outstanding presentation of each work he discusses, including a detailed description of the work at hand, its style, context, and its emotional content. Even those knowledgeable about the paintings will enjoy his keen insights, gaining deeper appreciation of the genius of the artist.

The course is made up of 36 lectures. We will follow the format of our earlier classes, taking in two of Kloss's lectures each session. This makes for three terms of six sessions each, meaning that this ORICL class will continue in the Spring and Summer, 2017, terms.

Come join us and enrich your understanding of this era of the efflorescent flourishing of Netherlandish genius.

Murray Martin is the coordinator for this video presentation. He has enjoyed many of the Great Courses over the years and would like to share with you his enthusiastic response to this Teaching Company offering. Murray has previously taught and presented courses on music and travel..

Six sessions: Mondays, 4:00—5:10 p.m., September 12, 26; October 3, 10, 17, 24

ORICL Class Disclaimer

The course content provided in these classes is for information purposes only, and may not apply to your individual situation. ORICL and the staff provide no warranty about the content or accuracy of subject matter presented. Information provided is subjective. Keep this in mind when attending these classes. Any individual actions taken as a result of courses should be reviewed with competent authority. Please contact the ORICL office if you have any questions.

101 Art a la Carte Film Series

Art a la Carte is a series of brown-bag luncheon learning programs designed for those interested in the arts – both artists and arts appreciators. Films concentrate on art history, museum collections, interviews with artists and/or demonstrations by various artists, and the creative muse or spirit. Fall



2016 will feature the film series “Understanding Art: Impressionism”. Art critic Waldemar Januszczak casts his considerable wit and focus on one of the most beloved, if not the most beloved, art movements of all time. However they were not always so loved. In fact, they were rebels and outcasts in the Paris Salons. “As he (Januszczak) visits the studios, hot spots and rustic vistas that inspired the artists, he sheds light on a motley collection of personalities from Jean-Frederic Bazille, a gifted, nearly seven foot tall painter who helped bankroll his fellow artists, to Claude Monet,

whose obsession with water compelled him to build a floating studio. When they banded together for eight legendary exhibitions between 1874 and 1886, they forever expanded the boundaries of art.” Films for the series are approximately 60 minutes long but may be slightly longer. The series is held the fourth Friday in each month at 12 noon. This class will be held at the Oak Ridge Art Center, 201 Badger Avenue, Oak Ridge.

Three sessions: Fridays, 12:00 noon – 1:00 p.m., September 23, October 28, November 25

102 Art Appreciation – Ceramics and Paintings

Join us for a two session course examining items in the private collection of Eun-Sook Kim. The first session will cover ceramics. Pieces from the Far East, Central America, and the ancient world will be viewed and discussed. The second session will cover Far Eastern paintings. Both contemporary and vintage examples will be presented.



This class will be held at Ms. Kim’s studio at 109 Windham Road.

Eun-Sook Kim, an Oak Ridger, has had several one-person shows of her artwork and has exhibited in international and national juried shows in KS, NC, WV, and OH. She is founder of Corner Gallery, OR. Among her many presentations and lectures were art presentations at Shigaraki, Japan; WanKwang Univ., Korea; and Ewha Woman’s Univ., Seoul, Korea. Ms. Kim received her MFA in ceramics in 1990 from UTK.

Two sessions: Mondays, 9:30—10:40 a.m., October 3, 10

Fees for classes and trips should be paid by September 12, unless noted otherwise, so that deposits may be made to vendors. Trip fees will NOT be refunded after the cancellation date.

103 Creative Journaling

Class Fee: \$15

Use visual journaling to gain knowledge and tools for self-discovery, planning, healing and creating anything new. We will use found images and items, paint, drawing media, stamps, ink, and recycled materials, to develop a creative journal for self-discovery. Simple art techniques and materials will be discussed and demonstrated in each class. This practice may have many uses in one's life from simple diary to problem solving difficult situations, clarifying thoughts, or even catharsis. No arts experience or background is needed, just a playful attitude and a willingness to try something new. A list of additional materials and/or personal mementos students might want to use will be sent to participants before the first class.



Leah Marcum-Estes is the Director of the Oak Ridge Art Center. As a museum professional and arts educator for over 30 years, she has worked with artists and techniques in Tennessee and Kentucky.

Three sessions: Wednesdays, 10:00 a.m. – 12:00 noon, September 21, 28 and October 5

104 Dichroic Glass Pendants

Class Fee: \$25

Dichroic glass is wonderfully sparkling – flashing different colors depending on the angle you look at it. Developed for use in the space program, it is now a popular material to use in jewelry making. In this class, you will make a fused glass pendant, choosing glass from a variety of colors, textures and patterns to produce your own unique design. The pendants will be fused for you in the Art Center's kiln and we will attach a bail to complete the pendant in the second class. Then they are ready to be worn on a chain or cord and admired by everyone!



Ruth Prince teaches glass fusing, enameling and metal clay classes at the Oak Ridge Art Center and serves on their advisory board. She has a BA in math and computer science and a BFA in painting, both from UT, Knoxville.

Two sessions: Thursdays, 10:00 a.m. – 12:00 noon, October 6, 13

105 Hand Built Mugs

Class Fee: \$35

Students will work with clay to make two simple hand-built, slab mugs. They will learn to roll out slabs, construct a simple mug shape with them and add decorative designs and/or embellishments. Pieces will then be bisque fired, before students return for the second session to glaze. Students will return for the 3rd session to pick-up their finished work. Classes will meet in the pottery studio at the Oak Ridge Art Center – 201 Badger Avenue, Oak Ridge. Students should wear washable clothes and shoes and be prepared to play in the “mud.”



Bill Capshaw is a member of the Advisory Board of the Oak Ridge Art Center, where he oversees the planning and operation of the pottery studio and teaches beginning to advanced classes. He received a Bachelor of Fine Arts (Ceramics) in 1971 and a Master of Fine Arts (Printing Process) in 1974. In addition to teaching at the Art Center, he has given workshops at facilities such as the Appalachian Center for Crafts, Arrowmont, John C. Campbell Folk School, and Vanderbilt University. As a professional artist, he competes locally and on a national level, has received many awards, and is represented in many museum collections.

Three sessions: Thursdays, 10:00 a.m. – 12:00 noon, October 20, 27 and November 3

106 Doodles and Tangles

Class Fee: \$10

Are you always doodling when you are stuck on hold on the phone or sitting in a boring meeting?



You are not alone. There is a flood of books recently about ‘doodles’ or ‘zentangles.’ But what is this all about? These books give techniques to take your ‘doodles’ and create beautiful designs by repetition of simple patterns. Adult coloring books are popular today. Learn to make do-it-yourself images to color and save yourself money. No artistic ability is necessary, just the ability to copy a few pen strokes in different configurations. You will complete several designs to take home. Pens and paper will be furnished. Materials fee of \$10 will include your own pen so you can continue to explore this fun activity.

Ruth Prince – See class 104 for bio information.

One session: Thursday, 10:00 a.m. – 12:00 noon, November 3

107 Exploring Thailand and Myanmar

Fay and I invite you to join us for a slide show presentation with commentary on our travels in 2009 to Thailand, with a pre-trip to Angkor Wat, Cambodia, and in 2015 to Myanmar (Burma). Our first destination was Bangkok, Thailand, where highlights were the Grand Palace and the nearby floating markets. Leaving Bangkok we visited the site of the River Kwai railroad of World War II infamy, and walked on the famous bridge over the river. Then we traveled to the northern cities of Chiang Rai, where we visited one of the hill tribe villages, and finally Chiang Mai. A short flight took us to Siem Reap, Cambodia, where the highlight was exploring the ruins of Angkor Wat, viewing it both at sunrise and at sunset.



Our trip to Myanmar, land of pagodas, began in Yangon (Rangoon) where we visited the spectacular Shwedagon Pagoda, said to be sheathed in more gold than is contained in all the vaults of the Bank of England. We flew north to Bagan where we explored some of the many temples, including the Shwezigon Pagoda. Later we boarded our ship for a 7-day cruise on the Irrawaddy River. From the river, we were able to access several of the villages bordering the river where we had a chance to observe local craftsmen manufacturing clay pots and statues for sacred use in temples. We ended in Mandalay where one highlight was a pagoda referred to as “the world’s biggest book”.



In the third session, we will be joined by Frank Plasil who will discuss a trip to Burma that he took several decades ago.

Murray and Fay Martin are retirees from the Oak Ridge National Laboratory, Murray from the Physics Division and Fay from positions in the Biology, Environmental, and Information Divisions. They have traveled extensively since retiring and enjoy sharing their experiences with others. Murray has previously taught classes on piano music and on other travels.

Three sessions: Mondays, 4:00—5:10 p.m., November 7, 14, 21

108 Indonesia (Bali, Tana Toraja, Sulawesi), Komodo and Flores

Because of its population, Indonesia is the largest Muslim country in the world. The island of Bali is the only island in the country (of about 13,000 islands) where the Hindu religion is practiced. This makes it unique because its temples and customs are very different from the rest of the country. Additionally, Bali has very nice beaches, vegetation, flowers and fruits. The instructor visited Bali for the third time in October 2015.



The island of Sulawesi is a larger island, mainly covered by volcanic mountains. In the interior region of Tana Toraja, the inhabitants are Animists and Christians who built their houses and granaries with a very unusual shape and also have very different (from the rest of the world) funeral practices. On our arrival we were invited to be witnesses to a funeral and later visited several resting places for grown-ups and very young children.

The islands of Komodo and Rinca are part of a National Park because their inhabitant lizards (Komodo Dragons) are unique in the world. What makes them unique is their very large size (an adult can be about 10 feet long and weigh 150 pounds) and they hunt their food.

Join the instructor for a narrated video of these islands, which were recently checked off of his bucket list!

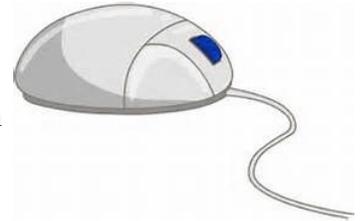
Carlos Bamberger received a PhD in Chemistry from U.N. Buenos Aires. He retired from ORNL in 1997 as Senior Research Staff. He authored more than 100 publications, 3 book chapters and holds 24 patents. He has visited more than 80 countries and speaks 4 languages.

Four sessions: Thursdays, 2:30—3:40 p.m., October 27, November 3, 10, 17

COMPUTER

150 Do What You Want to Do With Computers

Do you have questions or problems with your PC computer or peripheral equipment? If so, bring them to this class for some answers. This “Question and Answer” class will NOT have access to computers and is for somewhat experienced computer users with Windows XP or Vista. This course will also help with questions related to Windows 7, 8 and 10.



Seth Mintz is currently the Business Technology Lead at Staples in Oak Ridge. He has more than 40 years of experience working with computer technology including software development and programming, beta-testing of new software, computer sales, and both hardware and software support. He relocated from Maine to Tennessee several years ago.

Six sessions: Tuesdays, 2:30 - 3:40 p.m., September 13, 20, 27, October 4, 11, 18

FINANCE

200 Tax Update 2016: What Changes to Expect

This course will examine the 2016 tax filing season. We will take a look at expiring provisions of federal tax law and those new provisions that will become effective for 2016. Additionally, we will discuss what may be coming in the tax arena with the recently completed presidential election. Additionally, we will discuss Tennessee Hall income tax and the changes on the horizon for that tax and others for Tennessee residents.



As always, we will expand our scope to discuss estate taxes, required minimum distributions on retirement accounts, and other topics that are annually relevant to individual tax filers.

Plenty of time will be available to discuss individual tax issues so be prepared with your questions and don't be shy!!

Tracy J. Larabee is the owner of his own CPA firm in Oak Ridge and has been practicing accounting in the Oak Ridge area since 1989. He has had extensive experience in the areas of taxation and estate planning. He is a member of the American Institute of Certified Public Accountants and Tennessee Society of Certified Public Accountants. He is a past member of the Oak Ridge Board of Education.

Three sessions: Tuesdays, 9:30—10:40 a.m., November 22, 29, December 6

201 How to be Successful as a Real Estate Investor

Real estate transactions happen all around us. The best deals are found without a listing agent or sign in the front yard. There are so many different ways a person (or group of people) can pool their resources- time, money and energy- together to become successful in real estate. It does not take \$100,000 or more in the bank to begin to build a real estate portfolio. Whitney will present several strategies to acquire unwanted properties. Her personal favorite properties are vacant houses. She is committed to helping people realize the opportunities in real estate that they drive by every day and pass up. When regular people start to show up at closings and become informed real estate investors, we all win.

Whitney Nicely is a native to Knoxville, TN, and graduated from the University of Tennessee in 2007 with a Bachelor of Arts in Communication. She found a connection with real estate auctions in her teenage years by attending Saturday sales with her parents. They didn't "win" the first house auction she visited, but she was hooked. In May 2015, Whitney became the Principal Auctioneer for Nicely Done Auctions, LLC and has auctioned properties from 1 acre to 215+ acres of rolling hills. She is also the Principal Broker with Whitney Buys Houses, LLC. Whitney purchased over 12 houses in 2015 by paying CASH, Lease with Option, taken over debt or she has received Owner Financing. As of May 2016, Whitney and her partners own 15 houses, 19 apartment units and 7 tracts of vacant land. Throughout the year, she hopes to double her investments.

Four sessions: Tuesdays, 4:00 – 5:10 p.m., September 20, 27, October 4, 11



202 Effective Market Research Study Methods

Do you know what businesses are underserved and needed in the Oak Ridge-Knoxville area? Effective market research study methods, techniques, and tools that are unbiased and useful to find the answers will be discussed. Also presented will be glimpses from the instructor's future book, *Corporate America and Health Professions*, discussing how flawed studies and statistics can be misleading, to help you have more objective/critical thinking skills and keener eyes for the information presented by different sources and media.

Matt Holker has spent his career in Business Management specializing in business development, and has specific training and experience in Process Efficiency, Market Research, and Digital Marketing.

One session: Wednesday, 6:00—7:10 p.m., October 5

HISTORY

250 East Tennessee in World War II

Secretary of State Cordell Hull, a Tennessean, was betrayed in Washington, D.C., by a Japanese delegation who knew America's Navy was being attacked while they pretended to take part in peace talks. From this time, until the building of the bombs that brought the war to a sudden and dramatic end, Tennesseans played prominent roles throughout World War II. The important contributions, by East Tennesseans in particular, during the war years are covered in the book East Tennessee in World War II. This work is the first-ever comprehensive history of the accomplishments of East Tennesseans during a critical time in our nation's history. The authors will review the just-released book and highlight the tremendous contributions of East Tennesseans.



Dewaine Speaks earned a BA in Economics from UTK and was an outfielder for the Volunteers baseball team. He was a member of the United States Air Force, the Tennessee Air National Guard, and is currently a member of the East Tennessee Veteran's Honor Guard. He retired from Robertshaw Controls Company as National Sales Manager. He is a member of the Author's Guild of Tennessee and has previously published two books.

Ray Clift earned a BS in Biological Sciences Education and a MS in Industrial Technical Education from UTK. He holds a PhD in Business Management from Walden University. Dr. Clift worked as an Engineering Graphics and Mathematics Instructor at the University of Georgia before joining Rohm & Haas Chemical Company, from which he retired. He was a member of the United States Air Force, the Georgia Air National Guard, and is currently on the Board of Directors of the Emerald Youth Foundation.

One session: Wednesday, 11:00 a.m.—12:10 p.m., November 30

251 The Vikings and their Impact on History

This six session course will include a brief introduction before delving into the Viking origins, culture (language, society, and religion), system of laws, travels as plunderers and traders, settlements, and influence on the inhabitants of the areas where they settled, and finally their legacy and contribution.



Ron Jones is a native of Knoxville, a graduate of Central High School, the University of Tennessee and a life-long student of history with a special interest in the War Between the States, the American Revolution, Scotland and the Scots-Irish, and the Vikings. He is the author of three historical novels. Since retiring, he has renewed his love of history through genealogy work and writing and speaking on each of these subjects.

Six sessions: Tuesdays, 11:00 a.m. — 12:10 p.m., October 25, November 1, 8, 15, 22, 29

252 A Brief History of Prussia: Where Did It Come From, What Was It, and Where Did It Go?

Prussians were originally one of several forest-dwelling heathen non-Germanic tribes along the Southern Baltic coast. This class will follow Prussia's history from its subjugation, colonization, Germanization, and Christianization by the Order of Teutonic Knights created by the Pope in 1226, all the way to its elimination as an ethnic Germanic province by the Russian Red Army in 1945. This class will briefly discuss: its creation; the Duchy of Prussia as a fief of Poland; its role in the reformation and the foundation of state socialism; the House of Hohenzollerns; the creation of Brandenburg-Prussia; the role of Prussia in the Thirty Years War; Frederick the Great's elevation of Prussia to a great power following the Silesian conflict with Maria Teresa of Austria and near death experience of the Seven Years War; the Polish Partitions; Prussia during the French Revolution; the Prussian veto of a liberal German state in 1848; the creation of a militaristic conservative German state under Prussian in 1870; its role in WWI and the complete elimination of Prussia after WWII; and the German reunification treaties in 1990.



David Olsen is a retired PhD physicist from ORNL who worked in the Neutron Physics Division, Physics Division, and SNS Project. He has had a lifelong interest in History, particularly European history, since in his view the present reality is simply the weighted summation of the past. Since retiring he has taken many history classes at UT Knoxville.

Four sessions: Thursdays, 11:00 a.m.—12:10 p.m., November 10, 17, December 1, 8

LANGUAGE

300 Introduction to Latin

This class is intended for those who have never taken a class in Latin, or for those who may have taken it quite some time ago, and wish to review. This class will focus on very basic elements of the language – our best attempt at classical pronunciation, and elements of grammar and syntax. This will be done through a series of readings adapted from Ovid's *Metamorphoses*. While I hope we can begin to understand the structure of Latin, the primary goal of the class will be to enjoy exploring the language through these readings.

Students should purchase their own text. *Latin via Ovid*, Goldman & Nyenhuis – Wayne State Univ. Press, ISBN –0-8143-1732-4, available from Amazon, Barnes & Noble, Books-a-Million by order – Price is approximately \$30.

Bill Moore received a BS in Electrical Engineering, BA in English from Texas A&M, and PhD in Experimental Psychology at the University of Houston. He has worked in a variety of settings, including NASA, private industry, and academia. The latter includes post-doctoral work at Duke, and posts at MTSU, Drake Univ., and Marshall. He retired from active teaching several years ago, and has been doing some online courses since. While at Marshall he was fortunate enough to take two years of Latin from two excellent teachers.

Seven sessions: Tuesdays, 11:00 a.m.—12:10 p.m., October 18, 25, November 1, 8, 15, 22, 29

301 Latin via Ovid

This intermediate course will be a continuation of Introduction to Latin course offered previously. Having taken high school or college Latin would also be an acceptable prerequisite to this class. Basic grammar, vocabulary, and pronunciation will be covered. The text will present simplified versions of stories from Ovid's "Metamorphoses."

Book: Latin via Ovid, A First Course. 2nd Edition, Norma Goldman and Jacob E. Nyenhuis. 1977, Wayne State University Press. ISBN 0-8143-1732-4. Available online through Amazon or Barnes & Noble. Locally, Books-A-Million can order it – delivery is usually within a week.

Bill Moore — see class 300 for bio information.

Date & Time: TBD

302 Intermediate Conversational Spanish

This class will be a continuation of the previous basic Spanish classes or appropriate for those who would like to improve their Spanish. The focus will review basic Spanish, pronunciation and grammar and continue on with conversational Spanish. The primary goal for this class is to enjoy it and have fun while learning to carry on basic conversations in Spanish. It is intended for those who have had some previous exposure to Spanish.



Benito Gonzalez is a native of Mexico. He has lived in Oak Ridge since 1981. He worked at the Oak Ridge National Laboratory and is now retired.

Ten sessions: Tuesdays and Thursdays, 4:00—5:10 p.m., October 4 & 6, October 11 & 13, October 18 & 20, October 25 & 27; November 1 & 3

303 German – Advanced



This class is designed to give students with a basic knowledge of German an opportunity to practice conversation, written dictation, reading, and translation. Students are encouraged to come prepared with topics to be discussed. Some basics of grammar, vocabulary, and pronunciation are covered, but this is not a class in beginning German. Students should bring writing materials to class.

Evelyn Oxenius Armstrong, a native German, taught German at ORHS from 1967 to 1989. After relocating to Clearwater, FL, she taught German at St. Petersburg College. She returned to TN in 2000. Since then she has enjoyed substituting at ORHS and has taught German at ORICL for the past 10 years.

Five sessions: Thursdays, 4:00—5:10 p.m., November 3, 10, 17, December 1, 8

LITERATURE

350 Fiction Book Group

The Fiction Book Group encourages its members to read and discuss together the fiction of the last several decades. We read recent winners of the National Book Award, the Pulitzer Prize, the Booker Prize, and the PEN/Faulkner Award, and other literary prizes. Members recommend books they have read, and the final selections are made by majority vote. Join us to discover some new authors and titles to enjoy. You'll like the lively, informal discussions and the insights offered by the avid readers in this group.

Class coordinator is Kay Moss

Three sessions: Thursdays, 1:00 — 2:10 p.m., September 22, October 27, December 1



351 Nonfiction Book Group

Nonfiction ranges widely: politics to biography; history to natural science; adventure to psychology; sociology to business—we read them all. Members recommend books they have read, and final selections are made by majority vote. Come join us and surprise yourself by reading some titles you might never have selected or enjoyed - PLUS enjoy the wide range of stimulating discussions and viewpoints!

The September book is: *Lindbergh* by A. Scott Berg

Class coordinator is Jim Basford.

Four sessions: Thursdays, 10:00—11:30 a.m., September 15, October 20, November 17, December 15

352 Classic Literature Revisited

The Classic Literature book group reads and discusses classic literature with the goal of challenging each other for new insights into old favorites. The group reads novels published before 1950 which have achieved lasting fame. Books for the rest of the year will be voted on by the group.

The September book is: *The Edge of Sadness* by Edwin O'Connor

Class coordinator is Judy Kidd. She has been active in Oak Ridge arts since 1957 and taught English for twenty five years at Robertsville Junior High. She participates in most ORICL book discussions and literature classes.

Four sessions: Mondays, 1:30 - 3:00 p.m., September 12, October 10, November 14, December 12

353 Let's Read a Mystery

Those who read mysteries learn history, culture, and forensic information as well as development of characters. Of course, they also read about criminals, sleuths and the solution to the crime. There are categories such as cozy cottage and suspense. Come and discuss authors and titles.

Class Coordinator is Katherine Smith.

Three sessions: Tuesdays, 4:00 - 5:10 p.m., September 27, October, 25, November 22

354 Shakespeare Out Loud

"What's in a name? That which we call a rose by any other name would smell as sweet."

Romeo and Juliet, Act II, scene ii

What do Peggy Lee, The Supremes, Bruce Springsteen, Tom Waits, Lou Reed, Dire Straits and Taylor Swift have in common? Each has produced a popular work influenced by Shakespeare's *Romeo and Juliet*.

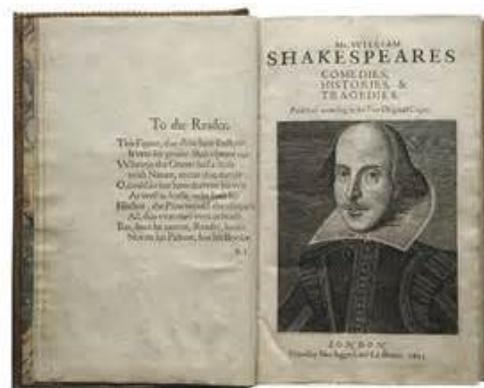
Of Shakespeare's works, *Romeo and Juliet* (our selected play for this semester) has generated the most--and most varied--adaptations. These include prose and verse, narratives, drama, opera, orchestral and choral music, jazz and pop, ballet, film, television and painting. It may be the most filmed play of all time and is one of Shakespeare's most illustrated works (source: Wikipedia). The word "Romeo" has even become synonymous with "male lover" in English.

Come join us as we read this familiar work with more experience and wisdom than we had in high school. Forsooth, we may even play Peggy Lee's cover of "Fever" to get you in the mood!

Romeo loved Juliet
Juliet, she felt the same
When he put his arms around her
He said, "Julie, baby, you're my flame

"Thou giveth fever
"When we kisseth
"Fever with thy flaming youth
"Fever! I'm afire
"Fever, yea, I burn, forsooth."

"Fever" lyrics by Little Willie John



The group reads orally in a round-robin manner, stopping for informal discussions, as the group desires. Mispronunciations welcome! Bring your own unabridged copy of the play. Various editions pose no problems.

Jane Williams and Nancy Burwell are retired educators who know that the best way to learn is to teach. They enjoy organizing the class and absorbing Shakespeare along with the other readers. They like to have fun while learning and have discovered that the more people reading the play to one another, the more fun!

Eight sessions: Tuesdays, 1:00—2:10 p.m., September 13, 20, 27, October 4, 11, 18, 25, November 1

355 Why You Should Write – For Yourself, not Publication

You will learn many things about writing you never before thought about. Writing can/will bring you closer to yourself and others in ways never imagined. You will learn how easy it is, how to get started, how to write well, and will learn of the benefits and rewards. The instructor will take you quickly through all genres of writing, and then concentrate on those “you” can easily do and enjoy. The talk will end with a form of writing few have ever before heard of or seen, but one you will very likely be anxious to begin for yourself—you will be quite surprised. You will come away with a thorough understanding of the marvelous and rewarding universe of “Writing”.



Timothy Joseph earned a BS, BSEd, MA, and PhD. He is a freelance technical writer. As a former high school teacher and science department head, college professor, corporate division director, and senior scientist, he has written hundreds of technical papers and professional journal publications, and was a weekly columnist with the Knoxville News Sentinel. He gives Creative Writing talks at local high schools and organizations, and has taught at writers' conferences. His literary writing includes four novels, a book of poetry, a children's book, and a nonfiction book on the Manhattan Project, and a fifth novel is in the making.

One session: Monday, 4:00—5:30 p.m., November 28

356 The Ghost Stories of Edith Wharton

Pulitzer-prize winning author Edith Wharton is generally known for her fine novels including *House of Mirth*, *Age of Innocence* and *Ethan Frome*. Perhaps lesser known are her short stories, and, in particular, her ghost stories. While Wharton denied believing in ghosts, she showed a life-long fascination with the supernatural in her writings. This course will focus on her well-wrought and spine-tingling ghost stories as we read *Ghost Stories of Edith Wharton: Tales of Mystery and the Supernatural*.



Dr. Deborah Scaperoth is a lecturer at the University of Tennessee. Her poetry has appeared in New Millennium Writings, Yemassee, Number One, Migrants and Stowaways, Literary Lunch, Knoxville Bound, and others. She has taught at the University of Tennessee since 1994, the University of International Business and Economics in Beijing China, University of Memphis, Columbus State Community College, and East Tennessee State University.

Four sessions: Wednesdays, 2:30 – 3:40 p.m., September 21, 28, October 5 and 12

357 Conference Style Workshop on Writing a Memoir

Participate in an extended class session designed to advance your goals for writing a memoir. The class period consists of four segments:

- An open forum for the instructor to provide content on memoir as a written form and strategies for writing/responding critically to your work;
- A thinking and planning/writing period on writing memoir for participants during which the instructor will circulate to confer with individuals or small groups, as needed;
- Small group meetings the instructor will oversee during which participants will read or talk about their writing/plans for writing and receive feedback;
- Group summaries and questions, response, and wrap up.



Registration is limited to continuing students who completed one or both of the Instructor's previous classes on Writing Memoirs. Newcomers might consider the instructor's class #359 (page 18).

Linda Best graduated from Ladycliff College in Highland Falls, NY; holds a Master's in Education from Boston University; and earned an EdD in Cognitive Development/The Writing Process from the University of Rochester, NY. She has 38 years' experience in the teaching of writing, and her work included a federal grant for training K-12 teachers on how to integrate writing into learning activities. Linda's publications include numerous articles and book chapters on teaching and learning, her dissertation, two textbooks, and a memoir. Retiring from Kean University, NJ, in 2012 as a Professor Emerita/English, she relocated to East TN with her husband that same year.

One session: Wednesday, September 7, 10:00 a.m. – 1:00 p.m.

358 Russian Fairy Tales

Russian stories are elaborate and convoluted, inhabited by archetypes and magical animals. Come and share adventures of the spoken word with the likes of Vassalissa the Wise, Koschei the Deathless, Baba Yaga, and the Firebird. No reading required.



Kathleen Mavournin grew up in Minnesota fascinated by myths, folktales and fairytales. She has lived more than 45 years in East Tennessee, holds a PhD in Microbiology from UT, and worked 20+ years at ORNL. On retirement 15 years ago, she turned into a professional storyteller. Her repertoire includes rarely heard stories from remote places as well as Appalachian, Native American, and European tales. She's a graduate of the School of Sacred Storytelling and a member of the Healing Story Alliance. She leads workshops on telling life stories, creating fairytales from personal experience, or goddess mythology; she teaches storytelling to children and teaches teachers to teach storytelling to children.

Five sessions: Tuesdays, 11:00 a.m.—12:10 p.m., September 20, 27, October 4, 11, 18

359 Writing a Memoir

Discuss concepts in writing to advance your goals for writing a memoir. Engage in class activities that focus on memoir as a distinct writing form, strategies for generating and organizing ideas, writing style, and grammar. Develop skills for generating narrative and reviewing your work and others' critically through in-class writing, group work, and individualized instructor feedback. Appropriate for continuing and new participants.



First day attendance required to confirm registration in the class. Regular attendance expected.

Due to the nature of this course, enrollment is limited. Attendance in the class is strictly limited to those individuals who are officially on the class roll.

Linda Best — see class 357 for bio information.

Seven Sessions: Wednesdays 11:00 a.m. – 12:10 p.m., September 14, 21, October 5, 26, November 9, 23, and December 7

Volunteer Incentive!

When filling out your class registration form, please consider checking the box that says you would be willing to be a class assistant for one or more classes. As an incentive to do so, the Curriculum Committee is offering a class admission benefit. If you check the box, and if you are chosen to be the assistant for that class, you will bypass the lottery and be enrolled automatically in that class. We really could use a larger pool of class assistants, so please consider offering to help.

For those of you who may be concerned about classes in which audio-visual equipment is to be used, we can provide one-on-one instruction as the need arises. Each classroom has an illustrated instruction sheet and also there will almost always be someone available in the class who is familiar with the equipment.

360 Ron Rash: An Appalachian Writer of Poems, Short Stories, and Novels

Ron Rash has published award-winning pieces in several fields of writing. His novel *Serena* was made into a movie starring Jennifer Lawrence in the title role. Rash's most recent novel, *Above the Waterfall*, is a *New York Times* Bestseller. He is the author of four collections of poems, six collection of stories, and six novels. He has also published widely in journals and anthologies. His novels were finalists in the 2007 and 2009 PEN/Faulkner Awards. He won the 2010 Frank O'Conner International Short Story Award, and he has twice been the recipient of the O. Henry Prize. He teaches at Western Carolina University.



This four-session class will sample Rash's poetry, short stories, and novels. The opening class will look at the poems, especially those in *Raising the Dead* and *Among the Believers*. In the second class we will discuss Rash's first published novel, *One Foot in Eden*. The third class will include a look at the author's short stories, with attention to Rash's habit of taking the germ of an idea in a poem and developing a short story. In the final class, we will consider Rash's most recent novel, *Above the Waterfall*.

Connie Green is a graduate of ORHS, Auburn University, and UT. She taught writing at UT and published short stories, poetry, and novels for young people (including The War At Home, set in OR during WWII). Since 1978, she has written a personal column for The Loudon County News Herald. She belongs to numerous writing organizations.

Four sessions: Wednesdays, 1:00—2:10 p.m., October 5, 12, 19, 16

Important — Please Read **A Note from Board President Bob Olson**

Some ORICL instructors have been disappointed in the number of people who register for their classes but do not show up. One instructor will not teach for ORICL again because of this.

This has happened in classes that had a long waiting list. We know that plans can change, especially in the long time between course registration and the beginning of classes and that you may have to miss a class. However, if your plans change and you will be unable to attend a course, please inform the ORICL office so that a person on the waiting list can take your place.

MEDICINE AND HEALTH

400 Blue Zones – Where People Live Longest and Why

In 2004, Dan Buettner teamed up with National Geographic and the world's best longevity researchers to identify pockets around the world where people live measurably longer and better. In these "Blue Zones" they found that people reach age 100 at rates 10 times greater than in the United States.



After identifying 5 of the world's Blue Zones, Dan and National Geographic took teams of scientists to each location to identify lifestyle characteristics that might explain longevity. They found that the lifestyles of all Blue Zones residents shared nine specific characteristics.

Dan's subsequent book *The Blue Zones* hit the *New York Times* best-seller list and took Dan everywhere from *Oprah* to TED to Bill Clinton's Health Matters Initiative. The success prompted a new challenge: could we improve health and longevity in the US?

In 2009 Dan's group partnered with AARP and the United Health Foundation to apply the Power 9 principles to Albert Lea, MN. It worked: after just one year, participants added an estimated 2.9 years to their average lifespan while healthcare claims for city worker dropped 49%. Blue Zones are now being built in cities and businesses across the country. Join us to learn more about this interesting topic!

Delores Moyer – see class 403 for bio information.

One session: Wednesday, 1:00—2:10 p.m., November 30

401 Blue Zones—Where People Live Longest and Why

Same class as Blue Zones above, but additional session added due to popular demand. Please choose the one that best suits your schedule.

One session: Wednesday, 2:30—3:40 p.m., November 30

402 Medicine TBD

Dr. Paul Huffstutter, who taught a course on medical simulation, will teach a course on a subject to be determined. He assures us that it will be interesting, and we are sure it will be.



Paul J. Huffstutter, M.D. FACS is Assistant Professor of the University of Tennessee Graduate School of Medicine and Co-Director of the UT Center for Advanced Medical Simulation.

One session: Thursday, 9:30—10:40 a.m., October 13

403 Long-term Care - Updated

Guidelines on how to choose services you and your family may need in the future

This course will review different types of long-term care services including home care, assisted living and skilled services, retirement options, homes for the aged, continuing care retirement communities, sitter services, etc. Pros and cons, cost and financial considerations will be discussed. Advice will be provided regarding facility visits, what questions to ask while there, and how to determine whether or not it's a good fit for you or your family member. Suggestions on how to use the internet to research options and how to conclude the decision making process will also be discussed. Updated information from the class offered in previous terms will be provided.



Delores Moyer has taught health care administrative/allied health courses at Christian Brothers University in Memphis as well as at the College of St. Francis. Most recently, she was the interim Administrator for the Willow Ridge Rehab and Living Center. Delores is currently serving on Oak Ridge City's Board for Health and Education and volunteers for the state ombudsman program at two facilities in Oak Ridge.

One session: Monday, 1:00—2:10 p.m., November 28

404 Supercharge Your Retirement Health

Come learn how to create an active, happy and healthy retirement! The following topics will be covered during this six session class:

- Creating Healthy Habits
- Controlling Blood Sugar with Diet and Exercise
- Heart Health and Stress Reduction
- Controlling Inflammation
- The Aging Brain
- Weekly, Healthy Meal Planning.



Kay Belangia is an Integrative Nutrition Health Coach and a Certified Nutritionist Consultant. She graduated from the Institute for Integrative Nutrition and has a certification from the Natural Healing Institute of Naturopathy. Prior to studying nutrition she was a classical guitarist and teacher for 40 years. At the age of 54, she had to give up the guitar for medical reasons and was thrown into retirement without warning. Her journey to wellness has given her many insights into creating a balanced and healthy life after the majority of her working years.

Six sessions: Thursdays, 7:00—8:30 p.m., September 15, 22, 29, October 6, 13, 20

405 Introduction to Herbalism, and Common Edible and Medicinal Backyard Plants

Herbs have a long history as medicine, and their components still form the basis of most of our modern day prescription medications. Their actions range from mild to strong and are indicated for different body types and organ systems. We will discuss common herbs and how their tastes and properties dictate bodily response. Preparation methods and storage of plant material will also be covered. Several common local herbs will be discussed and how you can use them in your daily life. This class will help streamline your understanding of herbs as medicine and assist with appropriate herb selection for home use. There will be a brief introduction to the identification of common local edible and medicinal wild plants that can be found in most people's backyards. We will discuss a few uses of the plants, how to identify them, and where to find them. Live plants will be available for the students to practice on and become comfortable with identification.

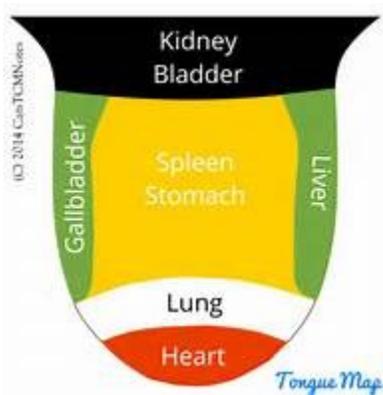


Danna Sharp obtained her BS in Biochemistry from the University of Tennessee Knoxville in 2012 and her Master's Degree in Chemistry in 2015. She has been working with plants for many years and has been studying nutrition and herbalism both independently and with other local herbalists.

Two sessions: Wednesdays, 2:30—3:40 p.m., September 21, 28

406 Chinese Diagnosis in Medicine

Traditional Chinese methods of diagnosis are very well established and useful techniques for understanding bodily imbalances. Tongue diagnosis is one such technique that is widely used in China today. It has been refined over hundreds of years in the field of medicine. This class will cover the basics of diagnosis and what different tongue patterns mean in the body from a Chinese medicine perspective. This 3 hour class is detailed and relies heavily on class participation. Students can expect to better understand the health picture of the body that the tongue relays. The typical herbs used for specific tongue patterns will be briefly discussed at the end of the course.



Suggested prerequisite: Introduction to Herbalism

Danna Sharp—see class 405 for bio information.

One Session: Wednesday, 2:30—3:40 p.m., October 5

MUSIC

450 ORCMA Concert Introduction Series

Join Oak Ridge Symphony Music Director, Dan Allcott, for a lecture previewing works on the upcoming symphony concert. The lectures will be held on Monday afternoons before the Saturday concerts. Maestro Allcott will present musical excerpts and provide historical context on the works to be performed in the concerts.



Pride of Place – A World Premier work by Knoxville composer, Mark Harrell
 “Calm Sea and Prosperous Voyage” by Felix Mendelssohn
 “Ellis Island: The Dream of America” by Peter Boyer

A Mozart Celebration – Mozart: Mass in C major, k. 317 “Coronation”
 Mozart: Divertimento in F, k. 138
 Mozart: Violin concerto no. 5, k. 219 “Turkish”

Dan Allcott has been the Music Director of the Oak Ridge Symphony since 2010. Maestro Allcott continues to lead Oak Ridgers on a journey of musical discovery - honoring our traditions while bringing new works and performers to our audience. Well-known throughout the Southeast as an educator and professional, he is Professor of Music and Director of Orchestras at Tennessee Tech University. In addition Maestro Allcott serves as Music Director and Conductor for the Bryan Symphony, and recently accepted a position as Artistic Advisor for Eastport Strings in Maine.

Two sessions: Mondays, 4:00—5:10 p.m., September 19, October 31

451 The Life and Music of Wolfgang Amadeus Mozart

This is a series of music classes featuring courses offered by The Teaching Company (aka The Great Courses: www.TheGreatCourses.com). This class will feature Mozart – a figure whose personal life generated nearly as much interest as his music. The series is a biographical and musical study of Wolfgang Amadeus Mozart (1756–1791), who composed more than 600 works of beauty and brilliance in just over 20 years.

We will view eight forty-five minute lectures by Professor Robert Greenberg, Music Historian-in-Residence with San Francisco Performances.

Dan Robbins retired from B&W Y-12 in 2013 after 47 years of company service. At Y-12 he was the director of the analytical laboratories. He is a chemistry graduate of UNC, Chapel Hill and a Princeton PhD.

Eight sessions: Wednesdays, 11:00 a.m.—12:10 p.m., September 21, 28, October 5, 19, 26, November 2, 9, 16



452 Hootenanny: The American Folk Music Revival of the 1950s & 1960s

By the early 1960s, Washington Square Park and the Greenwich Village Gaslight Café in New York City were the epicenters of the full grown folk music revival in America. Woody Guthrie, Pete Seeger, Burl Ives, The Weavers, and The Kingston Trio dominated folk music in the 1950s, followed by Peter, Paul and Mary; Joan Baez; The New Christy Minstrels; and Bob Dylan in the 1960s. By 1965 the boom of folk music had reached its peak as rock n' roll came to dominate the music marketplace. Even though short-lived, the folk music revival left an enduring musical legacy on American culture. This new genre of American music was a blend of southern ballads, blues, string band music, bluegrass, gospel, sea shanties, cowboy, and political protest songs. This class will contain mini-lectures, recordings, live musical instrument demonstrations, group discussions, and sing-alongs. Come to learn why this music should be preserved and perpetuated.



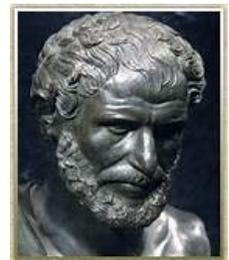
Chip Bailey is a member of The Tennessee Arts Commission as a "Teaching Artist," The Tennessee Folklore Society, The Appalachian Studies Association, a Musician Ambassador at the Museum of Appalachia, and a retired college professor/administrator.

Two sessions: Mondays, 6:00—7:10 p.m., November 7, 14

PHILOSOPHY

470 Gene Hise Philosophical Society

The Philosophical Society begins its fourteenth year of exploring useful knowledge and the integration of the sciences. In all previous semesters, presentations and stimulating discussions were held in areas of physical science, engineering, medical science, natural science, and social science.



The Society has no fixed subject or topic. Any topic in the sciences is fair game; however, we leave politics and theology to other classes. The society has no permanent instructor. Members and guest speakers who are knowledgeable in the topic for that session make presentations.

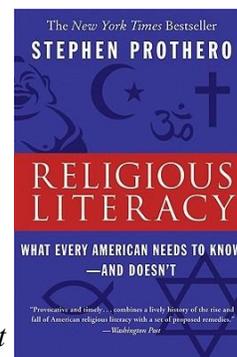
It has been our experience that the presentations are well-prepared and intellectually stimulating, and the discussion periods (while not descending quite to anarchy) are equally stimulating and great fun.

Class moderator is Bob Olson.

Ten sessions: Fridays, 11:00 a.m.—12:10 p.m., September 16, 23, 30, October 7, 14, 21, 28, November 4, 11, 18

471 Religious Literacy

What does it mean to be "religiously" literate? Can/should you be religiously literate without being religious? Is it important to be religiously literate? These questions and others will be explored in this course. Our guide will be Prothero's 2008 book entitled *Religious Literacy*. To some degree this class will be a natural follow-up to my previous courses on the Philosophy of Religion and the Concept of Religious Freedom.



Dr. Phil Hamlin is a native Tennessean. He has taught a wide variety of courses at UTK since 1964. His particular interests in philosophy include: the teaching of philosophy, aesthetics and the philosophy of art, the philosophy of religion, philosophy and narrative (literature and film), applied ethics.

Eight sessions: Thursdays, 11:00 a.m.—12:10 p.m., September 15, October 6, 13, 27, November 3, 17, December 1, 8

472 Ethics in America

The class will view the videos from a PBS series “Ethics in America” and discuss the issues they raise. The videos are round-table discussions of a variety of ethical issues, including decisions faced by lawyers (“To Defend a Killer”), physicians (“Do Doctors Know Best?”), politicians and journalists (“Politics, Privacy, and the Press”), military (“Under Orders, Under Fire”), businesspersons (“Anatomy of a Corporate Takeover”), scientists (“The Human Experiment”), and others.

Glenn C. Graber, Emeritus Professor of Philosophy, The University of Tennessee, Knoxville is the discussion leader.

Ten sessions: Tuesdays, 9:00—10:40 a.m., September 13, 20, 27, October 4, 11, 18, 25, November 1, 8, 15



473 Who Should Have Power & Why? Topics in Political Philosophy

Politics is about power: who should have it, and why? In this course we will explore ancient and modern answers to this question. Our aim is to develop our ability to think in sophisticated ways about social and political life generally, and of democratic life in particular. We will find that reflecting philosophically about exercising social, political and economic power helps us develop a better understanding of our relationship with the power we have and the problems and possibilities of building a better society.

Christian Golden received a BA in Philosophy from the University of Virginia and PhD in Philosophy from Georgetown. Prior to his current position as lecturer in the Philosophy department at UTK, he taught at Georgetown. His areas of specialization are Moral Philosophy, Ethics, and Political Philosophy.

Five sessions: Wednesdays, 4:00 — 5:10 p.m., November 2, 9, 16, 23, 30

RELIGION

500 How the Buddha Awakened and Taught

Proposition: what we know from early suttas and the Buddha's life from "Awakening" at about the age of 35 until the age of 80 is how he awakened, lived life, and (fortunately) taught others, thus 45 years of Nibbana! How could his life have been otherwise?

This is a course about Siddhāttha Gotama (probably 480-400 BC), the Buddha (not about "Buddhism"), and after an initial time for considering how conditions were in India in the 5th century BC, and information about the Buddha's family, his disciples and companions, women, kings, *brahmins*, Jains, and *samanas* (seekers), we will turn to how he discussed human experience in the world and our place in it.

We will examine and discuss three major areas of the Buddha's teaching: 1) how the world is with its impermanence and other characteristics; 2) how we human beings are receiving information through our senses, how we react to it with desire and identification, and how these tendencies can be harnessed for great insight and good; and 3) how we can practice individually and with many others in a world where there is a great need for the alleviation of suffering. Practice in this tradition includes meditation, clarity, study, conversation, and attending to others in the world through loving kindness, compassion, joy and equanimity. Several books can be recommended for summer reading: Richard Gombrich, What the Buddha Thought (Oxford series, Equinox, 2009) is a fresh look at how the Buddha thought and taught, while Rupert Gethin, Foundations of Buddhism (Oxford University Press, 1998) is a rather more traditional look at both the Buddha and the tradition.

We hope that we can hear from the monks and laypersons at Chua Phap Bao, the Vietnamese Temple in West Knoxville along the way.

After these main topics, we will look into (or review) some separate topics that we will have let languish such as *karma*, rebirth and so forth. "Ehipassiko" ("come and see!")

Fred Martinson is an art historian (PhD Univ. of Chicago) who taught at the University of Tennessee, Knoxville for 30 years. He has a special interest in the iconology of Buddhist art ("meaning" as well as style and context). After specializing in the meaning of Buddhist subjects in Asian art for decades, about 25 years ago, he began a meditation practice of his own. Since that time, he has studied with a number of different teachers and he participates in a half-dozen meditation and study groups in the Knoxville area including one on suttas (the Buddha's Discourses).

Ten sessions: Mondays, 11:00 a.m.—12:10 p.m., September 12, 19, 26, October 3, 24, 31, November 7, 14, 21, 28



501 Introduction to Unitarian Universalism

This class will begin with the roots of Unitarianism and Universalism in the early history of Christianity and explore the main developments in these two liberal branches of Christianity up to their consolidation in 1961 and on to the present day of what is now the pluralistic faith of Unitarian Universalism.



Tandy Scheffler and Jake Morrill are the Ministers of the Oak Ridge Unitarian Universalist church. Tandy's focus is education, small group ministry, and leadership development. Jake's focus is worship, community ministry, and outreach. They are both long time Unitarian Universalists, residing in Oak Ridge.

Four sessions: Mondays, 2:30—3:40 p.m., October 31, November 7, 14, 21

502 Hinduism 101

Hinduism believes in One Supreme Being who is Infinite, All-Pervasive, and Eternal and the source of all creations in the universe. God is in every thing that exists, and at the same time beyond the manifest universe. The various divine functions and aspects of the One Supreme Being are given different names and worshipped through different images. Hindus believe that all religions are different paths towards the same goal of God-realization. The classes covered in four sessions will be more of an interactive dialogue with the attendees. If possible, attendees will get a tour of the local Hindu temple. The Instructor, raised as a Hindu, grew up in the midst of Muslims, studied in Catholic and Protestant Institutions and has a secular perspective of religions.

Gomes Barathi Ganapathi, a native of India lives with his family in Oak Ridge, TN. He holds a PhD in Civil/Environmental Engineering from Oklahoma State University. Gomes worked for Bechtel Corporation for 25 years and retired in 2013. Also, as an Adjunct with the UTK-Civil/Environmental Engineering Dept., he has been teaching Hazwaste Management, a Graduate Level course since 1992. Gomes, an avid reader, is a freelance writer in Tamil – a classical language from Southern India and has published several poems and articles in reputable Tamil Magazines. He is an Advisor for Thendral, A Global Tamil Magazine published from the Bay Area, CA and speaks across the US and lectures on Tamil Literature including Hinduism.



Four sessions: Tuesdays, 9:30—10:40 a.m., October 11, 18, 25, November 1

503 The First Christmas

“Jesus’ birth,” prominent Anglican clergyman and New Testament scholar N. T. Wright observes, “usually gets far more attention than its role in the New Testament warrants.” Because Christmas looms so large in our culture, “outshining even Easter in the popular mind,” we are prone to give it far more attention than the Bible itself gives it [*The Meaning of Jesus: Two Visions*, 171]. The scarcity of reference in Christian scriptures to the birth of Jesus and other questions raised from within scripture itself are central when considering the origin and purpose of the stories about Jesus’ birth.

The stories (plural) of Jesus’ birth are contained in only two of the twenty-seven books of the Second Testament—in the first and second chapters of Matthew and Luke. Paul, the earliest of the New Testament writers does not mention Jesus’ birth other than to say he was “born of a woman.” Mark, the earliest Gospel written, begins with the preaching of John the Baptist; and the Gospel of John, the last Gospel written, begins with the Word which was “in the beginning . . . with God” and moves to affirm that “the Word became flesh and lived among us.” Although every book of the Second Testament bears witness to the underlying faith that, as Paul puts it, “God was in Christ,” why is it that only two relatively late Gospels tell of Jesus’ birth?



Could it be the stories were a part of the earliest Christian tradition, but the early writers did not know about them or knew about them and did not consider them important? Or could it be that the stories were a late development, and the writers did not include them because they had never heard of them?



This course will consider these and other questions as it seeks to revisit the stories and their purpose and meaning within the context of the first century culture in which they originated. Class members

may enjoy securing their own copy of Marcus J. Borg and John Dominic Crossan’s *The First Christmas: What the Gospels Really Teach about Jesus’s Birth*, which will be a primary resource for the class.

Carolyn Dipboye holds a PhD in Christian ethics from Southern Baptist Theological Seminary in Louisville, KY. She served as an adjunct professor of courses in ethics and religion at Southern Seminary and Bellarmine College in Louisville, Carson-Newman, and Tennessee Wesleyan. She published articles on ethics and biblical studies and is the author of Women of Faith and currently serves as a pastor of Grace Covenant Church.

Five sessions: Wednesdays, 1:00 -- 2:10 p.m., September 14, 21, 28, October 5, 12

504 The God-Question in Modern Christian Theology

In the decades following World War II, the debate about the existence of God, which had periodically appeared in secular discussions of science and faith, took on a new dimension as a legitimate question for dialogue among Christian theologians. The bubble of theological optimism that emerged at the turn of the century was sufficiently destroyed by two world wars, the Great Depression, and the Nazi Jewish Holocaust, not to mention wars in Korea, Vietnam, the Mideast and the current fear of terrorism. German theologian, Lutheran pastor, and Christian martyr Dietrich Bonhoeffer speculated in his *Letters and Papers from Prison* about a new age of “religionless Christianity.” Primarily out of disillusionment with the corruption of the institutional Church under Hitler, Bonhoeffer sparked a posthumous development of the oxymoron, “secular religion.” In the same World War II context, German-American theologian Paul Tillich expressed a distaste for discussion of the “existence” of God in preference for the ontological issue of “being.” For Tillich, God is not a being who exists; God is “Being-itself.” Anglican Bishop John A.T. Robinson gathered up the accumulated protest to traditional theism to declare the dawn of a break from traditional Christian theism in his famous 1963 publication *Honest to God*.

The God debate was not settled in the last century. The history of world crisis and literary dialogue has perpetuated the on-going debate about God both inside and outside Christian theological circles.

Larry Dipboye has served six churches in pastoral ministry in Texas, Missouri, Kentucky, and Tennessee since 1962. He has lived in Oak Ridge since 1988 and served the Grace Covenant Church since 2003. A graduate of Baylor University and Southwestern Baptist Theological Seminary in Texas, he received his PhD from Southern Baptist Seminary in Louisville, Kentucky, in 1970 where he also later served as Adjunct Professor of Systematic Theology.

Five sessions: Wednesdays, 9:30 — 10:40 a.m., September 14, 21, 28, October 5, 12

SCIENCE & TECHNOLOGY

550 Technical Book Group

The Technical Book Group will discuss books on topics in science and technology. The first book will be selected during the Summer session of the group. Subsequent books will be selected from nominations at the first meeting. Members should send nominations from their good-book-list to the class coordinator, leeaberry223@gmail.com at least one week before the first meeting.

Lee Berry is the class coordinator.

Three sessions: Mondays, 4:00 — 5:10 p.m., September 26, October 24, November 28



551 The Research Program at ORNL's Spallation Neutron Source (SNS)

In this series of four lectures, researchers from the SNS will describe the continuing development of the SNS facility, and various aspects of the research program at the SNS. The speakers, their topics, and the schedule of talks are as follows:

- Accelerator Physics and SNS Operations – *George Dodson*
- October 19, 2016
- Neutron Scattering and Chemical and Engineering Materials Research – *Dan Olds* - October 26, 2016
- Quantum Materials Research – *Georg Ehlers*
- November 2, 2016
- Radiological Health and Safety at the SNS – *Scott Schwahn*
- November 9, 2016



Four sessions: Wednesdays, 4:00 — 5:10 p.m., October 19, 26, November 2, 9

552 Latest Trends in Predictive Maintenance of Industrial Processes with Emphasis on Nuclear Power Plants

This lecture is based on 40 years of experience in testing of process instrumentation in industrial facilities, especially nuclear power plants. The focus of the lecture is on implementation of advanced signal processing technique for equipment condition monitoring in industrial processes. The role of nuclear energy in worldwide electric power production will also be discussed.



H.M. "Hash" Hashemian is President and Chief Executive Officer of Analysis and Measurement Services Corporation, a nuclear engineering consulting firm headquartered in Knoxville, Tennessee, and operating in the United States, Europe, and Asia. A globally recognized expert who lectures frequently in nuclear power plant instrumentation and control areas, Dr. Hashemian holds

a PhD in nuclear engineering, a Doctor of Engineering degree in electrical engineering, and a PhD in computer engineering. He has worked for the nuclear, aerospace, and other industries, as well as the U.S. government, including the Nuclear Regulatory Commission, Department of Energy, Department of Defense, Air Force, Navy, and the National Aeronautics and Space Administration. Dr. Hashemian is the author of three books: Sensor Performance and Reliability (ISA, 2005), Maintenance of Process Instrumentation in Nuclear Power Plants (Springer Verlag, 2006), and Monitoring and Measuring I&C Performance in Nuclear Power Plants (ISA, 2014).

Two sessions: Wednesdays, 6:00 — 7:10 p.m., September 14, October 12

553 Important Conservation Efforts in our Area: Honey Bees and Freshwater Mussels

Honey bees have been in the news a lot lately due to the sudden and mysterious disappearance of many hives known as Colony Collapse Disorder (CCD). In this country, somewhere between 40 and 65% of all bee hives are lost each year. At the same time, current agricultural system practices and our food supply are ever more dependent on pollination by honey bees. This course will present introductory bees and beekeeping. Even if you have no interest in getting a hive or two for your backyard, long term health of honey bees is related to the sustainability of all pollinators including butterflies and hummingbirds, the cost-effectiveness of farming, and our own human health. The presentation will include the life cycle of bees, architecture of a bee hive, the purpose of a swarm, bee health challenges, how most commercial bees are treated, how bees get through the winter, how bee health is related to our own health, and what we can do to support the honey bee populations.



The Powell River together with the Clinch are the two primary tributaries for Norris Lake. They are also two of the largest undammed rivers in Tennessee and are of great interest to the U.S. Fish & Wildlife Service (USF&W). On USF&W's website, they describe the Powell River as "one of the most biologically diverse rivers in a temperate climate anywhere in the world." The Powell River supports between 32 and 35 species of freshwater mussels, several of which are Federally Endangered (in danger of going extinct as a species). Agencies are also interested in mussels because they act as "indicator species." Since they ingest the river flow and all it contains, they thrive if the river is healthy and die off if it is not. The mussel population in the Powell River is still limited – especially in some stretches of the river – but is making a slow comeback. This class will present the fascinating life cycle of the mussel, its historical usage, challenges to its survival, its function in a healthy river system, and recent actions taken with respect to certain endangered species.



Don Oakley is a registered Civil Engineer in Oregon and Washington. Seven years ago, he moved to Tazewell TN where he and his wife, Patty, are two of the Directors and are the on-site managers of the Well Being Conference Center on a peninsula around a section of the Powell River where he has established an apiary with five hives, perennial wildflowers, and an annual beekeeping workshop; and where they have supported research efforts by Lincoln Memorial University professors and student interns on the Powell River which resulted in the reintroduction of endangered species of mussels into the Powell.

Two sessions: Thursdays, 4:00 — 5:10 p.m., September 29, October 13



Several ORICL members have significant allergies and sitting in a classroom with strong smells can be difficult, or impossible, for them. Please be courteous to your fellow members and refrain from wearing strongly scented perfumes or lotions to ORICL classes.

Thank you!

554 Are Driverless Cars in My Future?

Technology soothsayers predict a future that includes driverless cars. The only uncertainty, it would seem, is when. Today's new cars promise improved safety and ease of driving. This three-lecture course will present my experience, for better or worse with new Toyotas: a 2015 Camry and a 2016 Prius. The discussion will include a description of their "driver assistance" features; the sensors employed in their implementation; and my driving experience and reactions. I will attempt to answer the question, "Am I ready to go driverless?"



Lee Berry, now retired, worked at ORNL for over forty years on a wide range of science and technology issues. While most of his research was in fusion, he also worked in materials processing, semiconductor fabrication, and aviation traffic studies. With respect to the present course, he admits to being a car technophile, having ordered his first Prius in 2003, and recently replacing it with the fourth generation 2016 model. He is currently coming to terms with the driver assistance features of this Prius as well as a 2015 Camry.

Three sessions: Wednesdays, 2:30 — 3:40 p.m., November 2, 9, 16

There are now three categories of ORICL membership. Regular memberships are \$100 per year. **Sustaining Members** contribute a minimum of \$25 more than the otherwise applicable membership fee. **Sponsor Memberships** are available for \$50 or more above regular memberships. Sustaining and Sponsor Memberships are intended to provide additional funds for purposes beyond ordinary operating costs; however, the Board, at its discretion, may use these funds in order to avoid an increase in ORICL membership fees. The additional donation above the regular membership amount is tax deductible.

555 Mind Your Mitochondria: How These Organelles Affect Health, Aging, and Disease

Mitochondria are often referred to as the ‘powerhouse’ of the cell, and rightly so because they are responsible for utilizing oxygen to provide most cells with the energy that they need to function and survive. These organelles have their own DNA, but unlike the DNA found in the nucleus of your cells, it is inherited solely from your mother. Why do mitochondria have their own DNA? What happens when mutations occur in mitochondrial DNA? How do these mutations affect your health, the aging process, and the risk of neurological or endocrine diseases such as neuropathies or diabetes? Is there anything you can do to keep these organelles healthy? What does the most recent research say about our lifestyles and how they affect mitochondrial function? In this 2-session course, we’ll talk about the origins of these unique organelles and how they affect the life and death of many of the cells in your body. It’s a fascinating story taking place within you every day. Come and discover what’s going on!



Jennifer Hartwig received a BS in Health and a MS in Kinesiology. She was a professor for Carson Newman University and Adjunct Instructor for UTK. She was employed for 8 years with Tennova (formerly Baptist Health System) in the Heart Institute.

Two sessions: Wednesdays, 4:00 — 5:10 p.m., September 14, 21

556 The Life and Death of Stars, Part 3

This class will be comprised of eight 30-minute lectures on DVD from The Teaching Company. The lectures will be given by Professor Keivan G. Stassun, PhD, a Professor of Physics and Astronomy at Vanderbilt University. His dissertation research focused on the birth of stars. Before going to Vanderbilt, he served as assistant director of the NSF Graduate STEM Fellows in K-12 Education Program. STEM stands for science, technology, engineering, and mathematics.

Topics for the lectures will be: Cepheids and Supernovae, Supernova Remnants, Stillborn Stars, the Dark Mystery of the First Stars, Stars as Magnets, Solar Storms, the Stellar Recipe of Life, a Tale of Two Stars.

Richard Wright received a commission in the U. S. Naval Reserve in March 1961. He served as an instructor in physics and mathematics at the U. S. Naval Nuclear Power School from 1961-64. He received a MS in mathematics from Emporia State University in 1965. He was employed by Union Carbide at K-25 from 1965-69 and then worked at ORNL from 1970-2000. He was employed as a consultant with the Nuclear Science and Technology Division at ORNL in 2005-2006 and is now retired.



Four Sessions: Thursdays, 9:30 — 10:40 a.m., September 15, 22, 29, October 6

SOCIAL SCIENCE & ECONOMICS

600 Oak Ridge Public Library – To the Future and Beyond!

Come learn about libraries generally, and about the Oak Ridge Library specifically. How did libraries get to where they are today? We'll talk about the changing roles of libraries in this changing world.

The issues covered include:

- what makes Oak Ridge Public Library different from other public libraries
- what special collections are in the library
- why are there policies for everything
- who uses the library
- what is COROH and how does it work
- what is this privatizing thing
- what is the future of print.



You can amaze your friends with the answers to these questions and more!

Join us as we tackle these issues.

Kathy McNeilly has worked at the Oak Ridge Public Library for 40+ years, as Reference Assistant, Cataloger, Head of Reference, Assistant Director, and Director. She has been the Director of the Library since 1998.

Two sessions: Tuesdays, 11:00 a.m. — 12:10 p.m., September 13, 20

The ORICL Lottery System:

For a variety of reasons, the number of attendees in some of our classes is limited. To be as fair as possible in the selection of attendees we have developed a computer lottery system which is equivalent to a method to draw names randomly out of a hat. Each registrant is allowed to select five classes in order of priority (the first five on the registration form). For the first five requests for classes listed, there is no advantage to early registrants as long as registration is received by the early registration deadline. The higher the priority assigned to a class, the more “slips” are put into the “lottery hat”. The computer program does the drawing of slips, and prints out a class list. Our registration form now allows registrants to list five additional classes beyond their priority choices which she/he would like to attend. Members are encouraged to register for as many classes as they wish to take in order to receive class location, dates, and times information and class notes. Space is allocated to these extra requests on a first come first served basis, after the lottery has been run. For the supplemental classes there is an advantage to getting the forms in early. Don’t hesitate to call the office if you have any further questions about our system.

601 Oak Ridge Chamber of Commerce: Building the Case for Business

The class will provide a brief and broad overview of the chamber of commerce “movement” leading to the establishment of the Oak Ridge Chamber of Commerce and its 2016 initiatives. Sessions will include: 1) history and overview – past to present; 2) attracting new business – commercial, retail, residential development; 3) growing basic jobs and broadening the tax base; 4) leadership, advocacy, political action, and value.



Parker Hardy is President/CEO of the Oak Ridge Chamber of Commerce. He is a graduate of the Institute for Organization Management, the Academy of Organization Management and the Economic Development Institute. He is a Certified Chamber Executive – one of approximately 500 ever to have achieved that designation. Parker is a former president of the Tennessee Chamber of Commerce Executives, a former president of the Virginia Association of Chamber of Commerce Executives, and has served, on the Boards of the North Carolina and Georgia Associations of Chamber of Commerce Executives.

Four sessions: Tuesdays, 9:30 — 10:40 a.m., September 13, 20, 27, October 4

602 The Waters of Oak Ridge: Tap, Waste, and Storm

This three-session course will provide an overview of the City’s water systems; water, wastewater, and storm water. The potable water session will discuss Oak Ridge’s existing potable system from source to tap. The wastewater system session will discuss the collection system and treatment requirements to meet state and federal requirements. Finally, the storm water session will discuss the importance of storm water management and associated regulatory requirements.



Shira McWaters was in the private consulting field for over 22 years prior to accepting the Public Works Director position for the City of Oak Ridge. She helped municipal clients in the areas of water, wastewater and storm water. Ms. McWaters has a BS degree in Civil Engineering from Worcester Polytechnic Institute and holds professional engineering licenses for the states of Tennessee, Massachusetts, and Arizona.

Three sessions: Wednesdays, 6:00 — 7:10 p.m., October 26, November 2, 9

MISCELLANEOUS

650 Film Viewing and Discussion

This course is a follow up on the format used in last Spring's film course, that of describing several films which exemplify similar themes and/or genre features, and then having the class vote on the one they want to watch. After watching it, we will talk about it. Like we have done before.

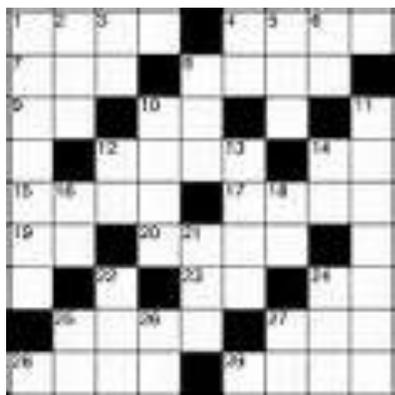
Phil Hamlin – see class 471 for bio information.

Eight sessions: Thursdays, 1:00 — 3:00 p.m., September 15, October 6, 13, 27, November 3, 17, December 1, 8



651 Cryptic Varietal Crossword Puzzles

Mental exercise such as working crosswords is thought to benefit older brains by keeping them agile. In cryptic crosswords, the clues are puzzles in themselves. Cryptic varietal crosswords have an added layer of logic. So cryptic varietal crosswords are like crosswords on steroids! They combine cryptic clues with variations on the construction of the puzzle itself. Generally, no two puzzles are alike in construction, and the intent of the puzzle authors is to entertain with novelty.



We will begin with an introduction about the history and culture of these puzzles, and then we will solve puzzles together as a class. We will use U.S. varietal crossword puzzles (provided to students) to learn how to solve cryptic clues and to deduce the wordplay of varietals. They will seem impossible at first! Each clue provides its own AHA! moment, and the wordplay and logic part will keep your mind nimble. Vocabulary is not nearly as important as flexibility and clue type recognition.

Elane Streets began learning to solve cryptic crosswords as a newly-wed in England in the early 70's, and, although the shock was severe in the beginning, has learned to treasure them much better than even the toughest U.S. regular puzzles. Cryptic varietals are even more fun to work on by oneself and as a team.

Twelve sessions: Tuesdays, 2:30 — 3:40 p.m., September 13, 20, 27, October 4, 11, 18, 25, November 1, 8, 15, 22, 29

652 Learning from Supernatural Phenomena

This class examines research on various supernatural phenomena experienced by individuals, ranging from the dramatic (such as near-death experiences and after-death communications) to the relatively simple (such as telepathy and precognitions). The objective is to understand what these phenomena teach us about the unseen yet vibrant spirit universe around us and how this knowledge can shape our current lives.



Due to the nature of this course, enrollment is limited. Attendance in the class is strictly limited to those individuals who are officially on the class roll.

Dr. Pratibha Dabholkar taught at UTK for more than 20 years, teaching research methods and service management to undergraduates as well as doctoral students. She received her PhD from Georgia State University and, while at UT, she visited several international universities to give presentations on her research and to work with international students and faculty. Since her recent retirement from UT, she has been working with special needs people to help them read, learn, and grow.

Four sessions: Thursdays, 2:30 — 3:40 p.m., September 29, October 6, 13, 20

653 Health Benefits of Tai Chi and "Internal Push Hands" Game

Tai Chi is healthy! Medical studies from Harvard, Stanford, Johns Hopkins, the Mayo Clinic, and many others consistently verify that Tai Chi promotes good health and longevity. Among the benefits are: better balance, coordination, strength, stress relief, normalized blood pressure, and arthritis relief. Yet for all its many benefits, Tai Chi is poorly understood in the Western world.

In this class you will learn the quality of movement that makes Tai Chi so healthy, how to practice Tai Chi throughout the course of your normal day (without learning a single "form"). People are familiar with the form, but the lesser known (and more advanced) side of Tai Chi is a game called Push Hands, and Internal Push Hands (or No Style Push Hands) is the fastest way to build the internal principles that create better health. It is one of a few secret methods from one of China's famous "Tai Chi Living Legends." Before he died, Grandmaster Ma Yeuhliang taught this game to Grandmaster Richard Clear. Matt Holker is a certified Clear's Internal Push Hands instructor and a Tai Chi instructor. In this hands-on class you will learn a game that is not only fun to play, it will give you more real Tai Chi skill than decades of doing forms! Best of all, by playing Internal Push Hands you automatically get realistic feedback on your "form," so you don't have to be in front of a Tai Chi master to get results.



Matt Holker has been practicing martial arts for over thirty years. He was introduced to Tai Chi at the age of 11, and over the next quarter of a century he studied directly under four recognized Grandmasters. Matt is a certified instructor in Tai Chi, and the related practice of Chi Kung. He is one of a very select group in North America to be certified as a Fa Kung practitioner, and he is one of only about 30 people in the world to be recognized as a Tai Chi Internal Push Hands Instructor. Matt has given lectures on Tai Chi and other martial arts at several major universities, and has been a guest speaker at MENSA events.

Two sessions: Wednesdays, 6:00 — 7:10 p.m., September 21, 28

654 The Football Family of Tennessee

Join former University of Tennessee Head Football Coach John Majors to hear about his journey from a Middle Tennessee town to major college football coach to the Football Hall of Fame. The



entire Majors family were charter inductees into the Tennessee Hall of Fame in 1966. The trademark of John Majors' coaching career is his ability to elevate football programs to new heights. He forged a reputation as a football program builder and every program that he inherited reached new found successes. Among other things, he will discuss "Coaching and Playing with Pride and Enthusiasm (never, ever accepting losing as a way of life and eventually you will learn to win)"!

John Terrell Majors is a former football player and enjoyed a remarkably lengthy and successful collegiate head coaching career. As an All-American tailback at Tennessee, he led the Vols to a 10-0 record in 1956, a #2 ranking, and a trip to the Sugar Bowl. That year he was named as UPI's Back of the Year and finished second to Notre Dame's Paul Hornung in the Heisman Trophy balloting. He was inducted into the College Football Hall of Fame in 1987. Majors served as the head football coach at Iowa State University (1968–1972), the University of Pittsburgh (1973–1976, 1993–1996), and Tennessee (1977–1992), compiling a career college football record of 185–137–10. In 1976, his Pittsburgh Panther's team posted a perfect 12-0 record, including a win in the Sugar Bowl, to claim the National Championship.

Two sessions: Wednesdays, 2:30 – 3:40, September 14, 21

655 Yoga for Beginners

Yoga is a physical, mental, and spiritual practice or discipline which originated in India back around 200/300 BCE. Yoga became popular as a system of physical exercise across the Western world. Yoga in Indian traditions, however, is more than physical exercise, it has a meditative and spiritual core. The instructor, a Certified Yoga Instructor will teach the fundamentals of Yoga focusing on Kundalini Yoga. The class will include: presentations and discussions on the science of Yoga, demonstrations and practices of Yoga postures to help understand how Yoga impacts the human anatomy and physiology, and breathing techniques, followed by meditation.



Please wear loose clothes. Bring a Yoga mat & water.

A trip to Isha Foundation, an authentic Yoga Ashram located in McMinnville, TN is planned.

Gomes Ganapathi is a Certified Yoga Instructor. He has worked for Bechtel for 25 years. While on assignment with Bechtel in Australia, he taught Yoga for fellow employees and currently teaches at the National Fitness Center.

Four sessions: Thursdays, 9:30 — 10:40 a.m., October 27, November 3, 10, 17

656 Meditation and the Nature of Thought

Rene Descartes famously said that “I think, therefore I am” which begs the question, “What would happen if I suddenly stopped thinking – if even for an instant?” And then we are told that the goal of meditation is “to calm our minds,” which, if we are to believe Descartes, sounds like dangerous territory to explore. But when we actually try to calm our minds by sitting silently, what is generally found is an uninterrupted stream of thoughts. And if we try to stop those thoughts, especially those annoying ones, it only seems to energize those thoughts. This class will explore the nature of thought itself, our identity with our thoughts, the function of conditioned thoughts, witnessing our thoughts, and the role that meditation can play in discovering our own consciousness within which all content occurs. The class will include an exploration of these topics as well as a direct, experiential introduction into unconditioned consciousness. Note: The class will not be presented in terms of any religion and will not include religious or spiritual terminology.



Don Oakley and his wife, Patty, are two of the Directors and are the on-site managers of the Well Being Conference Center on a peninsula around a section of the Powell River. Don has been involved in a practice of meditation for over 40 years and now holds weekend meditation retreats at Well Being Conference Center on a monthly basis.

One session: Thursday, 4:00 — 5:10 p.m., October 20

TRIPS

700 Tour TV Station WBIR

WBIR-TV signed on the air on August 12, 1956 as a CBS television affiliate. The station's call letters come from Jesse W. 'Jay' Birdwell, who founded WBIR radio in 1941. Initially, all programming was broadcast from the basement of the transmitter building on Sharps Ridge.

In May of 1957, the WBIR studios were completed and the station moved to its present location on Bill Williams Avenue. On September 10, 1988, WBIR became an NBC television affiliate. In December of 1995, WBIR was purchased by Gannett, Co. Inc. and in 2015, when Gannett spun its publishing properties from its broadcast and digital properties, WBIR became part of TEGNA Media, one of the largest and most geographically diverse broadcasters in the U.S. As part of the tour, we will see the Noon News.



You will provide your own transportation. Detailed directions will be provided.

Wednesday, October 12, 2016 - Arrive at the station by 11:30 a.m.

Trip leader is Bob Olson.

Trip charge of \$5 covers administrative costs.

ORICL Cell Phone (865) 558-7413

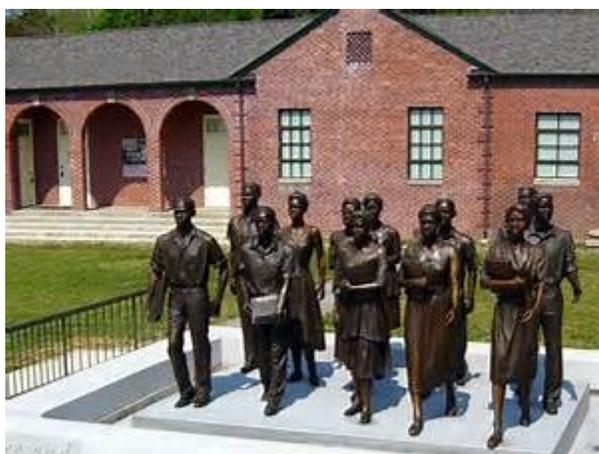
701 Christmas in Old Appalachia and Green McAdoo

Popcorn balls and paper chains... fruits and nuts in their stockings ... carols by the fire... a cedar tree cut in the nearby woods- that's the Christmas most rural Appalachian children knew, and we will get to experience it as it is recreated each year throughout the Museum of Appalachia. Traditional trees and hand-made decorations, typical of austere pioneer days, transform the Museum's authentic log buildings.



After we tour the cabins and displays, we will sit down to a full Tennessee country buffet lunch in the banquet hall and enjoy authentic old-time, traditional and bluegrass music from the Museum of Appalachia Band. After lunch, some of us may wish to pick up some stocking stuffers in the Museum Gift and Antique Shop, which features everything from hand-crafted ornaments, locally made muscadine and moonshine jellies, to beautiful pottery, along with baskets, quilts, and plenty of Appalachian specialties.

We will then travel a short distance for more Anderson County history. The Green McAdoo Cultural Center and Museum tells the compelling story of twelve high school students, who in 1956, braved threats of violence to attend Clinton High School, making it the first desegregated public high school in the South. Tennessee holds the honor of having the first black graduate from an integrated public high school in the South after the Brown vs Board of Education landmark decision. The Green McAdoo Cultural Center and Museum follows the chronologically detailed story of the 1956 desegregation of Clinton High School in life-size pictures with dramatic narrative.



Wednesday, December 8, 11:00 a.m.--5:00 p.m.

Bus leaves at 11:00 a.m. SHARP from the flag pole in the RSCC parking lot.

Trip leader is Melanie Harless.

Trip charge of \$88 includes transportation, lunch, tours and all gratuities.

Last date to cancel with refund is Wednesday, October 26.

ORICL Cell Phone (865) 558-7413



702 UTK Archaeological Research Laboratory

The Archaeological Research Laboratory maintains a proficient staff, which includes numerous professional archaeologists. The Laboratory has equipment and facilities necessary to support several field crews including vehicles, computers, survey and photographic equipment, and small boats. The ARL is prepared to pursue archaeological or architectural history projects ranging from initial reconnaissance to full scale data recovery.

We will have a lecture and tour of the lab.

There is no elevator to the second floor.

You will provide your own transportation to the Laboratory on Middlebrook Pike. There is adequate parking available, and directions will be provided.

Friday, October 7, 3:00 — 5:00 p.m.

Trip leader is Bob Olson.

Trip charge of \$5 covers administrative costs.

ORICL Cell Phone (865) 558-7413



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703 Manufacturing Research Facility and National Transportation Research Center

As the nation's premier research laboratory, ORNL is one of the world's most capable resources for transforming the next generation of scientific discovery into solutions for rebuilding and revitalizing America's manufacturing industries. The lab's Manufacturing Demonstration Facility offers distinctive world-leading capabilities in manufacturing and materials research technologies and characterization facilities that leverage previous and on-going government investments.

ORNL's expertise in material synthesis, characterization, and process technology will assist manufacturing industries in conducting assessments of new fabrication concepts and methods for improving existing technologies. High priority research activities include:

- **Additive Manufacturing** utilizing a broad range of direct manufacturing technologies, including electron beam melting, ultrasonic extrusion, and laser metal deposition for rapid prototyping
- **Carbon Fiber and Composites** using a broad range of carbon fiber synthesis, characterization, and compositing technologies from precursor evaluation through carbon fiber pilot scale production (25 metric tons/year) for low cost, lightweight, and higher-performance carbon fiber

As a User Facility, the National Transportation Research Center offers industry, academia, and other agencies the opportunity to access state-of-the-art technologies, equipment and instrumentation, and computational resources to advance transportation technologies. These resources are critical to their efforts in the areas of improving fuel economy, reducing emissions and addressing transportation systems issues, such as traffic congestion, evacuation planning and highway safety.

Tour is limited to U.S. citizens.

You will provide your own transportation. Directions will be provided in advance. The MDF and NTRC is off the Pellissippi Parkway at Hardin Valley Road.

Wednesday, October 26, 2016, 3:00 – 5:00 p.m.

Trip leader is Bob Olson

Trip charge of \$5 covers administrative costs.

ORICL Cell Phone (865) 558-7413



Important!!! Please Read!

If you would like to take a class and/or trip with a friend, spouse, or significant other, **both of you** must sign up for the class/trip on the **same line on both registration forms** or the lottery will be unable to pair you up for the class or trip! Unfortunately our system is not capable of pairing more than two (i.e. a group can not request to be together).

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THANKS!

Eagle-eyed proofreaders of the preprinted catalog are Murray Martin, David Smith, Nancy Basford, Laura Bowles, and Melanie Neal.

Graphics in this issue were obtained from clip art and the Internet.

Laura Bowles and Melanie Neal typed in all the data and formatted and edited the catalog.

Without the army of volunteers organized by Nancy Basford, the catalog would not reach your mailbox.

Reminders:

- **Early registration deadline is August 17th.**
- ORICL needs people who can assist the teachers. The duties vary from class to class. If you can help, please check the box on your registration form.
- If you don't intend to take a class or trip, please be considerate and call the ORICL office so that someone on the waiting list may have a chance.
- Do you have suggestions for ORICL classes or trips? The Curriculum Committee will welcome your ideas.
- **It's time to join ORICL for the year! Please include your \$100 check with your registration form.**



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Email: oricl@roanestate.edu

Office Hours:
Monday – Friday
9 a.m. to 12 p.m.; leave a
message at other times.

Laura Bowles, Administrator
Melanie Neal, Assistant
Administrator

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