

UCLA *Fiat Lux* Freshman Seminars Winter Quarter 2008

ART & HUMANITIES

Ancient Near East 19, Seminar 1

Virtual Karnak: Ancient Egyptian Religion in Stone, Bits, and Bytes

Willemina Wendrich

The famous Karnak temple in Luxor has steadily grown over more than a millennium from a small local shrine to an enormous state temple complex. A close study shows that the impressive stone architecture has been built up, taken down, reused, and reshaped in what seems to have been a constant building frenzy. From the stone walls, and the beautiful reliefs inscribed in them, we can not only learn about the religious rituals, but also about the politics of the time, the waxing and waning of the worship of gods, and the power of the pharaohs. In order to understand the complicated developments, and the function and meaning of the different modifications, a Virtual Reality model is in development at UCLA.

Participants of this seminar will be the first group to work with the model, which will help them prepare an in-depth study of one aspect of the rich and fascinating history of the building.

Willemina Wendrich is an Associate Professor of Egyptian Archaeology at the Department for Near Eastern Languages and Cultures. She directs the UCLA excavations in the Fayum Oasis in Egypt, and teaches a graduate-level field work class there. She has worked as an archaeologist in Egypt for 18 years, participating in expeditions in several regions, working on a wide range of periods of Egyptian history. In addition to her archaeological work, she is one of the directors of the Karnak Virtual Reality project.

Applied Linguistics and TESL 19, Seminar 1

Language and Gender

Olga T. Yokoyama

This seminar provides an introduction to the basic concepts and issues in the field of gender linguistics through lectures, in-class discussion, and out-of-classroom observations of real life situations where male and female language and language behavior differs. Data from different languages and communication genres are considered. Students are welcome to bring data from any language and communication genre to class discussions. We will explore the nature of male and female

“genderlects” and gendered language, as reflected in lexicon, language behavior, phonetics and intonation, language acquisition, and language change across generations.

A Professor of Applied Linguistics and TESL, Olga Yokoyama taught at Harvard University from 1978 until 1995, and has taught at UCLA since 1995. A visiting professor in Russia and Japan, she has over eighty publications that include topics such as Slavic syntax and semantics, discourse pragmatics, intonation, gender linguistics, philology, folklore, and poetics.

Asian 19, Seminar 1

History Wars in Northeast Asia: The Politics of the Past
John Duncan

A survey of the controversies that have erupted among China, Korea, Japan, and Russia over issues of historical interpretation and historical claims to territory, this seminar considers how the controversies are fueled by nationalist passions and how they complicate efforts toward regional integration.

John Duncan is a historian of Korea with strong interests in the interconnectedness of Korea, China, and Japan. He is also the Director of the Center for Korean Studies and the chair of the Department of Asian Languages and Cultures at UCLA.

Chinese 19, Seminar 1

Understanding Chinese Cultures through Keywords

Hongyin Tao

If you analyze George Bush's State of the Union addresses over his tenure as president, you will find that the keywords in those speeches were often quite different, for political reasons. Similarly, if you analyze the People's Daily editorials over time, you will also be able to find interesting changes in keywords. How do politicians of the PRC and Taiwan contrast with each other in their use of keywords? How do we characterize social cultural changes in China over the past three decades with keywords? How can we use the internet to search for keywords as evidence for cultural similarities and differences among the greater Chinese speaking regions (e.g., China, Taiwan, Hong Kong, and

Singapore)? This seminar will explore all of these issues and more. It will combine theoretical discussions with hands-on practices. By the end of the seminar, students should be able to apply basic text analysis techniques to understand Chinese language and culture and to help with research projects in their own fields.

Hongyin Tao is an Associate Professor of Chinese Language and Linguistics and Applied Linguistics and also Director of the Chinese Language Program in the Asian Languages and Cultures Department. He specializes in text analysis and language and culture, working primarily with Chinese and English language data. Prior to UCLA, he taught at the National University of Singapore and Cornell University.

Comparative Literature 19, Seminar 1

*The Short Works of Franz Kafka, or
How the Modern World Works*
Kathleen Komar

An examination of the short works of one of the world's most famous and puzzling authors, Franz Kafka. Kafka has been labeled everything from Existentialist to Realist, from mystic to comic. This seminar will examine the implications that Kafka's unique perspective has for our own times. Students write three questions based on readings to shape each class discussion. Readings of several Kafka short fiction pieces including *The Metamorphosis*, *The Country Doctor*, *An Old Manuscript*, *In the Penal Colony*, *Report to an Academy*, *A Hunger Artist*, and *The Judgment*. These pieces help us understand why Kafka remains so timely despite having lived in context very different from our own.

Kathleen L. Komar is Professor of Comparative Literature and German at UCLA. She won UCLA's Distinguished Teaching Award in 1989. She served as Chair of Comparative Literature, Associate Dean of the Graduate Division, and as Chair of the Academic Senate. Komar has published on a variety of topics from Romanticism to the present in American and German literature; and she has written on the works of Hermann Broch, Rainer Maria Rilke, Alfred Döblin, Christa Wolf and Ingeborg Bachmann, among others. Her books include *Reclaiming Klytemnestra: Revenge or Reconciliation* (2003), *Transcending Angels: Rainer Maria Rilke's "Duino Elegies"* (1987), *Pattern and Chaos: Multilinear Novels by Dos Passos, Faulkner, Döblin, and Koeppen* (1983), and the collection *Lyrical*

Symbols and Narrative Transformations, co-edited with Ross Shideler, (1998).

Design | Media Arts 19, Seminar 1

What Is Interactive Media?
Erkki Huhtamo

Interactivity and interactive media have been among the most repeated buzz-words of media culture for more than a decade. Still, their actual meaning is far from clear. There is not a single theoretical book fully devoted to interactivity, exploring its theoretical, cultural and historical underpinnings. In this seminar, we will develop a broader understanding of interactivity, particularly in relation to media, art, and design. We will discuss different definitions of interactivity and explore its relationship to earlier phenomena like mechanization and (full) automation. We will also review a wide variety of interactive applications, ranging from interactive media art and interactive entertainment to cinema and design. The goal of this seminar is to lead participants to a more critical understanding of the concept and its uses.

Erkki Huhtamo is a Professor at the Department of Design | Media Arts. He is a media archaeologist, writer, and exhibition curator. He has published extensively on media archaeology and media arts, lectured worldwide, created television programs, and curated media art exhibitions. His research deals with topics like peep media, Marcel Duchamp's optical experiments, the use of 3-D imaging by media artists, the pre-history of the screen, and the archaeology of mobile media. He is currently working on two books, one about the 19th century moving panorama, and another on the archaeology of interactivity.

English 19, Seminar 1

What a Poem Says
Jascha Kessler

This seminar examines the three principal modes of poetry in Western literature and will introduce students to verse by some of the major poets of our tradition. The "art of reading poems" will be discussed and practiced.

As a Professor of English in colleges and universities from 1952 until 1993 (when emeritus status was taken), Jascha Kessler has taught poetry regularly in lecture courses and creative writing seminars, as well as the

writing of plays, and fiction and non-fiction. She has published a good number of books of poetry and fiction, and translations from several languages, including Persian, Bulgarian, Hungarian, and Serbian, as well as poems and reviews of poetry. For more information, please visit her website: www.jaschakessler.com

English 19, Seminar 2

Origins of Identity: History and Memory in Women's Poetry

Karen Rowe

Who we are or may become originates in history, each unique by virtue of ethnic heritage, gender, sexuality, spirituality, and individual talent. In personal writings and poetry, women voice maternal stories that also recollect communal history replete with images of homelands, political struggle, and ancestral rituals. Whether reading or creating poetry, hearing or crafting stories, or drawing forth dreams, students are expected to be contributors and collaborators. By identifying and celebrating personal legacies, students learn how memory and history imprint identity, how past suffuses our present. By heeding truths gleaned from ancestral past, each woman comes to know her self and infuses her poetry with distinctive vision and voice that makes lives, both old and new, into poetic memoirs. Remember, Audre Lorde proclaims, "poetry is not a luxury" but a "litany of survival."

A Professor of English, Karen Rowe's research ranges from Renaissance and early American literatures to later British and American women writers, from continental fairy tales to women's education and curriculum reform. She was the Founding Director of UCLA's Center for the Study of Women and teaches courses cross-listed through the Women's Studies Program. She received a Distinguished Teaching Award and has been active in curriculum transformation and general education reform.

English 19, Seminar 3

John Muir and the High Sierra

Paul Sheats

In this seminar, we will read the journal this famous naturalist kept in 1869 during his first extended visit to Yosemite and the Sierra. We will also look at maps, photographs, and read about Muir's harsh childhood in Scotland and his youth on a frontier farm in Wisconsin. Some of the questions will include: Who was John

Muir? Why did he go into the mountains? How did he understand nature and its relation to us? How have his ever-growing fame and urgent priorities of modern environmental movement changed the way we see him?

Paul Sheats has taught courses on John Muir for many years, as well as on the English Romantic period, his principal field of study. He has written a number of articles about Muir, as well as two editions, a critical book, and numerous articles on the English poets. He enjoys walking, especially in the Sierra.

Ethnomusicology 19, Seminar 1

Music Theory through the Recorder

Roger Savage

Would you like to learn music theory while learning to play an instrument? This class is for students who would like to study the rudiments of music theory by playing the recorder. Each class includes practice pieces and exercises related to music notation, keys, melody, rhythm, rounds, and harmony. Students will also have the opportunity to write and perform short compositions. By taking a practical approach to music theory, students will develop a foundation for reading, playing, and writing music. Students need not have any prior musical experience. Recorders will be available for purchase at a nominal cost on first day of class.

Roger Savage is Associate Professor in the Systematic Musicology Program. He teaches courses in the aesthetics, philosophy and sociology of music, and he has special interests in hermeneutical philosophy and music criticism. His research focuses on intersections between musical aesthetics, politics, and questions of personal, social, and cultural identity. Last summer he traveled with a group of students to Venice, Salzburg, Vienna, and Paris as the director for The European Musical Aesthetic Travel Study Program.

Film and Television 19, Seminar 1

The Art of Cinematography

William McDonald

Who is responsible for camera and lighting decisions on feature films? The cameraperson? The cinematographer? The director of photography? All of them, for they are the same artist. This seminar will survey the technological and artistic developments of cinematography within the Hollywood film industry.

Beginning with silent films and moving toward today's latest developments in digital imagery, it will capture a broad conceptual understanding of one of the most influential art forms in history. Students enrolled will see screenings of clips from films under discussion.

William McDonald is a veteran cinematographer whose credits include dramatic and documentary films. He is head of the Cinematography Program in the School of Theater, Film and Television and is the recipient the UCLA Academic Senate Distinguished Teaching Award. As a documentary producer and cinematographer, his work has focused on portraits of writers and artists in such films as *Women of Mystery: Three Writers Who Forever Changed Detective Fiction*, and *Funny Ladies: A Portrait of Women Cartoonists*.

German 19, Seminar 1

Writing about Love in the High-Middle Ages
James Schultz

This seminar will focus on two great love stories of the Middle Ages: *Abelard and Heloise*, and *Tristan and Isolde*. The former historical figures struggle over the nature and meaning of their love in a series of brilliantly-crafted letters. The latter, fictional characters, achieve their supreme literary representation in the romance of Gottfried von Strassburg. These two texts-letters of Abelard and Heloise and Gottfried's Tristan romance-provide an opportunity to consider how medieval ideas of love differ from ours as well as how medieval writing about love differs from ours.

Dr. Schultz received his BA from Harvard in 1969; and his PhD from Princeton University in 1977. He has held faculty positions at Columbia, Yale, the University of Illinois at Chicago and UCLA. He is a Professor of German (specialty, medieval German literature) and Director of the Lesbian, Gay, Bisexual, and Transgender Studies Program. He has published books on the narrative structure of Arthurian romance, childhood in the middle ages, medieval sexuality, and courtly love.

German 19, Seminar 2

Violence, Sex, and Music in Germany's Pre-Nazi Era
Wolfgang Nehring

The pre-Nazi era was a time of extensive social and political unrest in Germany. This seminar will examine Kurt Weill's and Bertolt Brecht's greatest success, the

musical (?) *The Three Penny Opera* (remember *Mack the Knife*?) in relation to its historical and social background and in comparison with its English predecessor *The Beggar's Opera*.

Wolfgang Nehring has been a Professor of German for 36 years at UCLA. His expertise is German Culture and Literature from 1700 through the present.

Music 19, Seminar 1

Opera's Top Ten
Juliana Gondek

A tour through ten of the most popular operas ever written, including such favorites as Handel's *Julius Caesar*, Mozart's *The Magic Flute*, Wagner's *Ring Cycle*, Bizet's *Carmen*, Puccini's *Tosca*, and Gershwin's *Porgy and Bess*. Background will be given on each composer, his environment, and compositional style. Plots, performers, and audio/video excerpts will bring students closer to understanding and an appreciation of opera, the most complex and spectacular of all art forms. An added attraction will be the availability of live performances at UCLA and nearby professional opera companies of four featured works. The seminar also includes Rossini's *Barber of Seville*, Verdi's *Falstaff*, Leoncavallo's *Cavalleria Rusticana*, Mascagni's *I Pagliacci*, and Strauss's *Der Rosenkavalier*.

Juliana Gondek has maintained a successful international career as an operatic, symphonic, and recording soloist for 30 years. She has sung with the Metropolitan Opera, the New York and Los Angeles Philharmonic Orchestras, at Carnegie Hall, at Milan's famed La Scala Opera House, at the Salzburg Festival, the Edinburgh Festival, and the Mostly Mozart Festival, and with over 125 major North American, European, and Asian opera companies and symphony orchestras. She has collaborated with Leonard Bernstein, Aaron Copland, Herbert von Karajan, and James Levine, and has made almost 40 commercial recordings.

Scandinavian 19, Seminar 1

Strange Things: Folklore, Film, and the Politics of Fear
Timothy Tangherlini

Ghosts, UFOs, psychopaths, evil corporations, Satanists, serial killers, wild conspiracy theories, unlikely ways to be killed, and even more unusual ways to survive. These are but some topics that come up time and again in both

urban legends (contemporary legends) and popular film. Sometimes, popular films are based entirely on these legends (*Scream, Urban Legend, Men in Black*); other times, they simply make use of similar motifs. Although they keep us entertained and frightened, there is more to these stories and their presentation than simple entertainment. An exploration of how the storytelling of legends can be used to endorse ideological positions, this seminar will focus on how this process translates into popular film. Its goal is to develop an understanding of how narratives, particularly those that aim to create fear, can be used for local or global political ends.

Tim Tangherlini is a Professor of Folklore in the Scandinavian Section and the Department of Asian Languages and Cultures at UCLA. His research focuses on the politics of storytelling in well-defined communities.

Scandinavian 19, Seminar 2

Short, Short Stories of Scandinavia

Mary Norseng

Reading and discussion of short fictional texts by Scandinavian writers from the middle ages to the present. Topics include the power of "the short."

Mary Norseng has been a member of the Scandinavian faculty at UCLA since 1973. She teaches courses on Scandinavian literature, primarily of the 19th, 20th, and 21st centuries, including many of the short stories that will be discussed in this seminar.

Slavic 19, Seminar 1

"Are You Saved?" Paradigms of Salvation in the Judeo-Christian Tradition

Ronald Vroon

This seminar is devoted to soteriology, the concept of salvation and its instrumentalities in the Judeo-Christian tradition. We will begin with a survey of the roots of the concept in the sacrificial cult of post-exile Judaism and then take up the way the concept is exploited in the Pauline and pseudo-Pauline epistles to include a wide variety of conceptual frames, including such notions as redemption, propitiation, justification, sanctification, satisfaction, and penal substitution. We will proceed to examine the soteriological paradigms that dominated in the early church, how these were narrowed in Western

Christianity through the agency of Augustine and later the scholastics, and how Eastern Christianity developed its own paradigms. The emergence of revised models of salvation in classic (Calvin and Luther) Protestantism will follow. The seminar will conclude with a consideration of some post-modern approaches to the soteriological problem, including a discussion of how soteriology influences political and social thought.

Ronald Vroon is a Professor of Slavic Languages and Literatures who specializes in Russian literature and religious philosophy of the twentieth century.

CULTURE & SOCIETY

Anthropology 19, Seminar 1

Language Myths: Beliefs about Language That Are Harmfully Wrong

Paul Kroskrity

This seminar treats the topic of language myths by examining some popular beliefs about language, specific languages, and communication that appear to not only be wrong but also potentially harmful to oneself and others in our society. In most Western societies, language is often thought of as a neutral vehicle that provides a labeling system for the material world. Sayings such as "talk is cheap" and "actions speak louder than words" reveal a lack of appreciation of the social work that language performs and even a cultural bias against seeing language activity as a form of social action. Thus, even though it can be arguably maintained that our language ability is our most distinctive and important capacity as a species, most individuals engage in linguistic and communicative activity with only a minimal awareness of either the structure of their languages or the explicit and implicit communicative norms of their society. By shedding light on unexamined properties of language structure and language use, this seminar will expose a variety of language myths and increase awareness.

Paul Kroskrity is an anthropologist specializing in Linguistic Anthropology. His research has focused on two very different Native American communities through long-term field work in each-one in Central California (Western Mono) and the other in Northern Arizona (the village of Tewa). He has examined how these languages have changed over time in response to Euro-American and other Native American languages. His topical specializations include the study of Language and Identity, Verbal Art, Languages in Contact, Language ideologies, Language Death, and Linguistic Revitalization. His writings include the books *Language, History, and Identity* (1993); *Language Ideology: Practice and Theory* (1998); *Regimes of Language* (2000); *Western Mono Ways of Speaking* (2002), and the forthcoming *Revealing Native American Language Ideologies*.

Anthropology 19, Seminar 2

Repatriating Native American Human Remains

Russell Thornton

Native Americans in the United States recently have been successful in obtaining the passage of federal and state laws not only preventing the further disenfranchisement of human skeletal remains and cultural objects, but also repatriating remains and objects to appropriate tribes and individuals. The seminar will examine this phenomenon. Topics will include a history of federal and state legislation pertaining to repatriation; the role and strategies Native American leaders have used in bringing about this legislation; historical practices of "collection" for museums and scholars; native objections to the study of this material; the various types of scientific and scholarly knowledge obtainable from skeletal remains, etc.; the complexities and difficulties involved in the actual repatriation process; and new relationships which are developing between Native Americans, scholars and scholarly institutions. Seminar material will be drawn from a variety of sources and disciplines, including recent repatriation cases from the Smithsonian Institution.

Russell Thornton is a Distinguished Professor in the Department of Anthropology at UCLA, and an enrolled member of the Cherokee Nation (Oklahoma).

Communication Studies 19, Seminar 1

The Hidden Side of Female Desire

Martie Haselton

Theories in evolutionary biology predict that men will be more open to low-cost mating opportunities than will women, and women will be more cautious in mating than will men. Abundant evidence across social and biological sciences supports these predictions. Does this mean that women are monogamous and men are not? Not necessarily. There is another side of female desire that can also be understood from an evolutionary perspective—one that predicts that women will stray from their long-term relationships in predictable circumstances. This seminar will explore the facets of female sexuality that have previously been hidden from view. We will also discuss other hidden aspects of women's desires, including control, power, and food.

Martie G. Haselton is an Associate Professor in the Departments of Communication Studies and Psychology. Her work bridges disciplines across the social and biological sciences, with a particular focus on sex differences, relationships, female sexuality, and

changes in women's social behavior across the ovulatory cycle.

Economics 19, Seminar 1

The "Winner's Curse" in Common Value Auctions
Hugo Hopenhayn

This seminar examines the phenomenon of "winner's curse." Winner's curse occurs when a person who wins at an auction wishes he or she had not won. Since many other interesting phenomena have the same basic structure as common value auctions, insights learned about auctions in the laboratory have significance in other areas where unhappy winners are important, such as political contests and voting behavior, jury decisions, and companies racing to discover and patent an invention.

Hugo Hopenhayn received his Ph.D. in economics from the University of Minnesota in 1978, was on the faculty of Stanford University, Universidad Pompeu Fabra, Universidad Torcuato di Tella, and Rochester University, before coming to the UCLA economics department in 2003. He specializes in microeconomic theory, contract theory, macroeconomics, and industrial organization. His research interests include the study of labor markets, contracts, industry dynamics, auctions, and innovation. He has published extensively in professional economics journals.

Economics 19, Seminar 3

Was Ibn Khaldun (1332-1406) the "Father of Economics"?
George Murphy

This seminar is a survey of early Islamic economic thought and will place Ibn Khaldun's writings in the larger context of the history of economic thought and the contributions of early Islamic thinkers.

George Murphy has lectured on American economic development, Soviet Russian economic development, comparative economics, Price Theory, and the history of economic thought. He was manager of Net Assessment Studies in General Electric Tempo (GE's 'thinktank') under contract to the Office of the Secretary of Defense, and the Office of Naval Research, directing backup research work for the Salt II Treaty talks.

Economics 19, Seminar 4

Bargaining, Haggling, and Fairness Across Cultures
Jernej Copic

An exploration of the nature of trust and fairness in bargaining situations through the simple ultimatum bargaining game, a game that is useful for exploring how self-interested individuals behave in bargaining situations (and many others). It has been conducted in many countries over the last decade, with the discovery that most cultures appear to have strong norms of fairness (the only exceptions are certain very primitive cultures). That is, rigorous self-interest, even in obviously commercial setting like haggling, is rare. In addition to bargaining, some time is devoted to experimental analysis of public good contributions and wage-setting, and, in general, to the exploration of the extent of motives such as fairness, trust, and reciprocity, versus pure self-interest in economic decisions.

Jernej Copic is a newly appointed Assistant Professor in the Department of Economics. His research interests are in game theory and in the relatively new and expanding fields of behavioral economics, neuroeconomics, and genetic engineering.

Economics 19, Seminar 5

Risk and Inequality
William Zame

Inequality - and attitudes toward inequality- have varied enormously over time. Why? Are attitudes toward inequality correlated with attitudes toward risk? This seminar uses the methodology of laboratory experiments to explore these issues.

William Zame holds a Ph.D. in Mathematics from Tulane University, is a Distinguished Professor in the Departments of Economics and of Mathematics at UCLA, and Director of the California Social Science Experimental Laboratory (CASSEL). Before coming to UCLA, he held appointments in the Mathematics Departments of Rice University, Tulane University, the State University of New York at Buffalo, and in the Economics and Mathematics Departments at The Johns Hopkins University. A Fellow of the John Simon Guggenheim Memorial Foundation for 2004-2005, his research interests include economic theory, finance, and experimental economics.

Education 19, Seminar 1 (Canceled)

Translating Childhoods: Immigrant Youth in the Contemporary U.S.
Marjorie Orellana

This seminar examines the experiences of growing up as the children of immigrants in the United States today. We will read fiction and non-fiction accounts, as well as

biographical and auto-biographical work produced by students in the seminar. This seminar will consist of large and small group discussions of the readings, short films, and excerpts from films about immigrant childhoods, and an interactive writing workshop in which students share their own experiences as children of immigrants (as appropriate) and/or from interviews they conduct with others.

Marjorie Faulstich Orellana is an Associate Professor in the Graduate School of Education and Information Studies. She also serves as Director of Faculty for the Teacher Education Program. Her research focuses on the daily life experiences of the children of immigrants living in urban communities, with a particular focus on their work as linguistic and cultural brokers for their families.

Education 19, Seminar 2

U.S. and Global Development through Eyes of Hollywood: Environment, Health, Glob
Edith Mukudi Omwami

This seminar explores the position and role of the U.S. in global development through the eyes of Hollywood. Topics include environmental impact of trade and development, access to health care, global security and the world of children, and the impact of economic globalization in poor countries. In order to accommodate the viewing of the films that are central to our session conversation on the development topics, we will have a nontraditional schedule. We will meet for a total of five times for two hours each, starting third week through eighth week. Each meeting begins with film viewing, followed by instructor-moderated discussion.

Edith Mukudi Omwami is a graduate of SUNY at Buffalo, NY. She is an Assistant Professor in the Graduate School of Education and Information Studies. She teaches comparative and international studies in education and has worked in the field of community development. She is also a Faculty-in-Residence at UCLA.

Geography 19, Seminar 1

American Rivers: History of Environmental Change
Stanley Trimble

The objective of this seminar is to offer students a basic understanding of rivers and how human agency has changed them in the United States.

Stanley W. Trimble is a Professor in the Department of Geography and Institute of Environment at UCLA. His interests include historical geography of the environment and especially human impacts on hydrology, including soil erosion, stream and valley sedimentation, and stream flow and channel changes. His regional interests are the humid U.S. and western and central Europe. Trimble was a research hydrologist with the USGS from 1973 to 1984, and has been a visiting professor at the Universities of Chicago, Vienna, Oxford, London (University College), and Durham. He is joint editor of CATENA, an international journal of soils, hydrology, and geomorphology, and editor of the Dekker Encyclopedia of Water Science.

History 19, Seminar 1

Los Angeles: Architecture and Ethnicity
Teofilo Ruiz

This seminar introduces students to the ethnic diversity and architectural eclecticism of downtown Los Angeles and the canals of Venice. The seminar consists of a first introductory meeting to be held on Thursday, January 31, 2008, 4:00-5 PM, at 6265 Bunche Hall. This will be followed by a walking tour of downtown L.A., including travel through mid-Wilshire, Hancock Park, and other points of interest on Saturday, February 2nd, from 10 AM to 5 PM. Then, it will meet again on Thursday, February 7, 2008, from 4 to 5 PM. The walking tour will include lectures and discussions about significant downtown buildings: The new Disney hall, the L.A. Public Library, the Biltmore Hotel, the new cathedral, the Bradbury and Oviatt buildings, Chinatown, Olvera Street, and Union Station. The tour will conclude with a walk along the Venice canals before returning to campus.

Teo Ruiz is a medievalist, former chair of the Department of History, and author of nine books and over forty articles. He leads UCLA students every summer through a month of lectures and walking tours in Paris.

History 19, Seminar 2

How We Remember the Bomb
Ludwig Lauerhass

The first military use of atomic bombs devastated Hiroshima and Nagasaki. It precipitated the end of World War II, and ushered in the new Atomic Age. Since then, the event has been subject to widely divergent interpretations in the U.S., Japan, and the world at large. This seminar highlights the bombing's

remembrance and commemoration from 1945 through its 50th anniversary in 1995, focusing on sources from documentary and feature films to journalistic accounts, and from artistic renderings to museum exhibitions. Analysis will emphasize how debates have continued to this date, without resolution.

Ludwig Lauerhass, Emeritus Professor in the UCLA Department of History, has taught and researched widely on themes of nationalistic and national identity in Latin America and the United States. Since retirement from full-time service, he has taught annually either at UCLA, in Brazil, or in UCLA's Center for American Politics and Public Policy in Washington, DC. He is writing a book on *American Memory, Monuments, and National Identity*.

History 19, Seminar 3

The 1948 Palestine War in Arabic and Hebrew Literature
Gabriel Piterburg

The spring of 2008 marks the 60th anniversary of the 1948 war in Palestine. For Israeli Jews, this has meant independence; for Palestinian Arabs and Israeli Palestinians, this has been the *nakba* (catastrophe). In this seminar we shall read and discuss literary works that address the events and memories of that war. All pieces we shall read in English translation, so knowledge of Arabic and/or Hebrew is not required.

Gabriel Piterberg was born in Buenos Aires and grew up in Israel. He studied at Tel-Aviv University and Oxford, and taught at Durham University (UK), Ben-Gurion University, and, since 1999, at UCLA. He writes and teaches on the history of the Ottoman Empire, and on Zionism and Israel/Palestine.

History 19, Seminar 4

Honor and Shame in Clash of Civilizations and Religions
Scott S. Bartchy

Honor and shame are core cultural values for the vast majority of human beings, including most Muslims. Ignoring this fact has led to serious (and avoidable) misunderstandings of world events and mistakes in U.S. foreign policies, which have been based most often on the western individualistic values of achievement and guilt. This seminar involves reflection on values with which students were raised, as well as a deeper understanding of the ways in which honor/shame values

continue to influence self-perception, gender roles, and group practices of more than five billion people.

Professor Scott Bartchy specializes in the comparison of the great religious traditions, their histories, and their effects on culture and human behavior. He teaches courses in the history of religion and directs UCLA's Center for the Study of Religion and the undergraduate major in the Study of Religion. In his research, he uses insights from cultural anthropology to understand the religions of the Roman Empire, especially Christianity and Judaism.

History 19, Seminar 5

The Scopes Trial: Evolution Debates in America
Theodore Porter

This seminar is about evolution debates in America, in particular, the famous 1925 Tennessee Scopes Trial, and the trial in Dover, Pennsylvania in 2005 about the standing of "intelligent design" in public education.

Ted Porter teaches History and the History of Science in the UCLA History Department. He is interested in the ways that science works in the world, including what people expect of it, and what they take to be its proper place.

History 19, Seminar 6

Revolutionary Thoughts: European Radicalism, 19th to 20th Centuries
Stephen Frank

This seminar provides an introduction to the various strains of radical thought in modern Europe. Beginning with early socialism (Babeuf, St. Simon), students will sample growth, development, and a variety of revolutionary ideas and practice in readings by or concerning anarchist, radical, socialist, Marxist, and Leninist thinkers from the late 18th through the early 20th century—that is, from the French to the Russian Revolution.

Stephen Frank is an Associate Professor of History. He received his M.A. and Ph.D., from Brown University, and his B.A. from State University of New York.

Honors Collegium 19, Seminar 1

The Muslim Student Experience at UCLA
Susan Plann

This seminar will explore the Muslim experience at UCLA through discussions, readings, and interviews with Muslim students on campus. Students will learn to master the basics of conducting oral interviews. Muslim and non-Muslim students are all welcome-let us learn together.

Susan Plann is a Professor in the departments of Applied Linguistics, and Spanish & Portuguese. Her interest in this topic is related to her on-going research on second generation Arabic speaking youth in Spain.

Honors Collegium 19, Seminar 2

Perceptions of Americans Abroad: Discussions with Visiting Fulbright Scholars
Ann Kerr

In the post 9/11 world, there is a greater than ever need for Americans to know more about the rest of the world and to understand how we are perceived abroad. This seminar affords students the opportunity to see ourselves as others see us by hearing visiting Fulbright scholars from around the world speak about their countries and the perceptions of America there, and have a chance to ask them questions. The scholars will speak informally for 10-15 minutes and the remainder of the time will be devoted to class discussion.

Ann Zwicker Kerr, a native of Southern California, has spent a total of 15 years living, studying, and teaching in the Middle East. She was educated at Occidental College, the American University of Beirut, and the American University of Cairo. She serves on the Board of Trustees of the American University of Beirut, the American University of Kuwait, the President's Council of EARTH University in Costa Rica, and the Advisory Board of the RAND Center for Middle East Public Policy. She is the author of *Come with Me from Lebanon, An American Family Odyssey* and *Painting the Middle East*.

Honors Collegium 19, Seminar 3

LGBT is Not a Sandwich: Straight Talk on the Effects of Silence on Sexual and Gender Minorities in Los Angeles
Ronni Sanlo and Suzanne Seplow

This seminar informs students through active discussion and participation about the myriad ways in which people and communities are affected by issues of sexual orientation and gender identity. Topics include the history of sexual orientation issues, health and legal issues of sexual and gender minority people,

sexual/gender identity development, and legal issues directly affecting UCLA and Los Angeles.

Ronni Sanlo is the director of the UCLA LGBT Campus Resource Center and a lecturer in the Graduate School of Education. Her three books - *Working with LGBT College Students: A Handbook for Faculty and Administrators*; *Unheard Voices: The Effects of Silence on Lesbian and Gay Educators*; and *Our Place on Campus* are published by Greenwood Press. She is the originator of the award-winning Lavender Graduation, an event that celebrates the lives and achievements of LGBT students. She lives on the campus of UCLA as a member of the Faculty-in-Residence program.

Suzanne L. Seplow, Ed. D., is a graduate of the GSEIS Educational Leadership program at UCLA. Her focus is on maintaining living/learning communities that foster positive impacts on student learning. She specializes in learning communities, environmental influences, and student development theory.

Honors Collegium 19, Seminar 5

Civic Engagement in Los Angeles
Laura C. Romero

This seminar will examine civic engagement in Los Angeles. Invited guest speakers from public and private sectors-including city government, corporations, and community-based organizations- discuss the impact of their work on society. By focusing on different types of civic engagement, this seminar will analyze how individuals contribute to Los Angeles and also encourage students to become civically engaged during their college careers.

Laura C. Romero is an Assistant Director of Local Government and Community Relations at UCLA. She has worked in the Office of Government & Community Relations for over seven years. As an assistant director, she serves as a liaison between UCLA and government and business and community leaders in the greater Los Angeles area.

Honors Collegium 19, Seminar 6

The Black Student Experience at UCLA
Kelly Lytle-Hernandez and La'Tonya Rease-Miles

This seminar examines the social, academic, and political concerns facing Black Bruins, and explores how Proposition 209 has affected the UCLA black student community. It asks the question, how can students affect change at UCLA? The seminar features invited guest

speakers from the Office of Residential Life, campus administration, and alumni.

La'Tonya Rease Miles is Associate Director of AAP and Director of the AAP Mentoring Programs.

Professor Kelly Lytle-Hernandez is an Assistant Professor of History. Both participate in the Faculty-In-Resident Program.

Human Complex Systems 19, Seminar 1

Understanding and Managing Complex Natural and Social Systems

William McKelvey

If there is no intelligent designer, how can we account for order in the natural world? Can the human economic system organize itself without someone in charge? How do social systems come into being, grow, and coordinate activities? Can top management arrange things so that bottom-up solutions emerge from other levels of hierarchy? New sciences of complexity address these questions in physical, biological, social, and organizational systems. Complex systems scientists also investigate how systems and institutions can self-destruct in absence of outside forces (e.g., what stock market crashes, earthquakes, and mass extinctions have in common). Traditional science, such as mathematics and statistics, makes heroic assumptions about averages, sameness of individuals, their independent behavior, and equilibrium dynamics, while complexity science seeks more effective ways to improve organizations and social systems.

William McKelvey is a Professor of Strategic Organizing and Complexity Science at the UCLA Anderson School of Management. His current writing focuses on the philosophy of science, organization science, complexity science, agent-based computational modeling, and complex leadership. His book, *Organizational Systematics* (1982) remains the definitive treatment of organizational taxonomy and evolutionary theory. He chaired the building committee that produced the Anderson Complex at UCLA, directed over 170 field study teams on 6-month projects concerned with strategic and organizational improvements to client firms, and initiated the founding of UCLA's Center for Human Complex Systems and Computational Social Science.

Latin American 19, Seminar 1

Introduction to Nahuatl (Aztec) Language and History

Kevin Terraciano

This seminar introduces students to the study of Nahuatl—a major indigenous language of Mexico. In particular, we will study the language and grammar of Nahuatl language texts and documents that were written with the Roman alphabet in the colonial period (16th-18th centuries), when alphabetic writing in Nahuatl and several other Mesoamerican languages of Mexico was widespread. In beginning to study the language and conventions of these older texts, we will also learn about the history of Nahua culture and writing in this period. The study of the older language and culture is relevant to studies of modern variants of the spoken language and to the understanding of contemporary Nahua culture. Today, about a million people speak more than 20 variants of the Nahuatl language, also referred to as "la lengua Mexicana." In fact, some of these Nahuas live in Los Angeles and other parts of California.

Kevin Terraciano received his Ph.D. from UCLA in 1994 and joined the faculty as an Assistant Professor in 1995. He is now a Professor of History, Chair of the Latin American Studies Program, and Associate Director of the Latin American Institute. He specializes in colonial Latin American history, especially Mexico and the indigenous cultures and languages of central and southern Mexico.

Law 19, Seminar 1

Law and the Poor

Joel Handler

This seminar will discuss the history of aid to poor single mothers and their children (formerly "AFDC") now known as Temporary Assistance to Needy Families ("TANF"). Also examined will be the welfare reform of 1996, "ending welfare as we know it," leading to a decline in the welfare rolls. We will discuss what has happened with poverty and inequality since then, with an emphasis on working mothers and their children in low-wage labor markets.

Joel Handler teaches Law and the Poor, a research seminar on social welfare issues, and another seminar titled Comparative Welfare States. His research interests include poverty, social welfare reform, and the European conception of social citizenship. He has been a member of the National Academy of Science's Committee on the Status of Black America and chaired the Academy's Panel on High-Risk Youth. He is a past president of the Law and Society Association. Dr. Handler previously taught at Wisconsin Law School as the George Wiley and Vilas Research Professor of Law, where he was a senior researcher at the Institute for Research on Poverty

and chaired the Governor's Task Force for the Reform of General Relief.

Law 19, Seminar 2

Law, Morality, and Social Justice: Conflicts between Theory and Practice
Frances Olsen

This seminar critically examines law-related issues, such as police brutality (including the abuse of taser guns), government surveillance, arrest or detention without due process, racial profiling, and politicization of the U.S. Attorney's office. For many, these practices challenge the traditional image of American justice. What role can and does the law play in perpetrating and/or remedying such abuses? This seminar will examine the relationships between law, morality, and social justice from the sometimes-conflicting perspectives of an academic law professor and civil rights/human rights lawyer. Students passionate about social justice are especially welcome, as are students considering a career in law who want to expand their understanding of limits and possibilities of such a choice.

Frances Olsen has taught, lectured, and published extensively throughout the world- on every continent except Antarctica. Before entering academia, she represented the Native Americans in the 1973 Uprising at Wounded Knee, South Dakota, and established a feminist, public interest law firm that represented war resisters, rebellious students, and one of the first plaintiffs seeking recovery for sexual harassment before it was recognized as a legal wrong. She brings her interest in progressive movements to her scholarship, teaching and other academic activities. A number of her former students are now activist lawyers struggling for social justice.

Management 19, Seminar 1

An Introduction to Human Resource Management
This seminar will be team-taught by five faculty from the Anderson School of Management: Sanford Jacoby, Christopher Erickson, Samuel Culbert, Daniel Mitchell, and David Lewin

This team-taught seminar is intended to provide an introduction to managing the employment relationship in modern organizations. Topics include the origins of human resource management; negotiations; diversity; pay practices; and HR and business performance. **The seminar will be offered every other week for two hours per session.** Each session will be taught by a different professor from the Anderson School of Management.

Each faculty member has done extensive research in their area of specialization, which are: history of management (Jacoby); pay practices (Mitchell); human resources and business performance (Lewin); diversity (Culbert); and negotiations (Erickson). For more complete information, go to: www.anderson.ucla.edu/acad_unit/hrob/

Political Science 19, Section 1

Can't We Make Moral Judgments?
Susanne Lohmann

This seminar explores normative ethics (how we should reason about right and wrong), empirical ethics (how we actually reason), and meta-ethics (how we can ground moral reasoning). Normative ethics includes standard ethical principles of utilitarianism, rights, and justice-fairness. Empirical ethics relies on evolutionary psychology (just-so stories), social psychology (experiments), anthropology (cross-cultural differences), and history (cultural change over time). Meta-ethics splits into two camps, realist (there are objective values) and anti-realist (there are no objective values). The latter includes moral, or cultural, relativism. Special emphasis is placed on the relationship between religion and ethics (e.g., if God is dead, is anything and everything permitted?).

Susanne Lohmann is a Professor of Political Science and Public Policy, Director of the Center for Governance, and the founding faculty member of the Interdisciplinary Degree Program on Human Complex Systems at UCLA. She received her Ph.D. in economics and political economy from Carnegie Mellon University in 1991. She was John M. Olin Fellow at Carnegie Mellon University in 1986-89; Alfred P. Sloan Fellow in 1989/90, also at Carnegie Mellon University; James and Doris McNamara Fellow at Stanford University in 1991/92; John M. Olin Fellow at the University of Southern California in 1996; Fellow of the Center for Advanced Study in the Behavioral Sciences in 1998/99; and Fellow of the John Simon Guggenheim Memorial Foundation in 2000/01. She has published extensively on collective action and central banking.

Sociology 19, Seminar 1

Migration as Business: The Migration Industry in Global Perspective
Ruben Hernandez-Leon

The burgeoning global migration industry is a complex of profit motivated services that foster, facilitate and

sustain international migration. Migration industry includes services of smugglers (“coyotes”), labor contractors, transportation companies, travel agencies, communication and remittance businesses, mail-order bride services, false and valid documentation procurement, and legal and paralegal consulting, among others. This seminar looks at the role of the migration industry in a variety of international migratory flows, in the context of Mexico-U.S. stream and, specifically, Los Angeles.

Rubén Hernández-León is an Assistant Professor of Sociology at UCLA. He is a former Fogarty Postdoctoral Fellow with the Mexican Migration Project at the Population Studies Center at the University of Pennsylvania (2000-2002), former faculty in the Department of Humanities at Universidad de Monterrey in Monterrey, Mexico (1997-1999), and former research associate with the Center for Immigration Research at the University of Houston (1995-1999). His current areas of research are new destinations of Mexican immigration in the United States, the migration industry between these two countries, urban and metropolitan origins of Mexico-US migration and the social and political management and construction of the US-Mexico border. He is the author of *Metropolitan Migrants: The International Migration of Urban Mexicans to the United States* (Forthcoming with UC Press) and co-editor of *New Destinations: Mexican Immigration in the United States* (Russell Sage Foundation).

Sociology 19, Seminar 2

Cool Japan: Exporting Contemporary Japanese Culture
Adrian Favell

In 2002, "Japan's Gross National Cool", a short article by Wired magazine journalist Doug McGray, launched a scramble by Japanese policy makers to capitalize on the growing global cache of Japanese contemporary culture. Building on the fame of its anime, toys, and games industries, politicians have ever since been promoting Japanese prestige of its contemporary art, architecture, street fashion, pop music, and cuisine as a substitute for its declining industrial and financial might. This seminar will examine this curious new foreign trade policy, as well as successive global waves of Japanese contemporary culture sweeping the planet. California and its Asian American population have played a huge role as principal gateway to the West. Who are the people and businesses behind these trends? What does it tell us about Japanese politics, culture, or society today? What do these new Western obsessions with Japan tell

us about popular culture and society in America and Europe?

Adrian Favell is a Comparative Sociologist of Migration, Mobility and Global/Transnational Trends, with research experience in Europe, North America and East Asia. In 2007, he was awarded a prestigious SSRC/Japan Foundation Abe Fellowship for a project studying the Cool Japan phenomenon, and has this year done ethnography and interviews in the many fascinating art and creative worlds of Tokyo. He has also interviewed extensively creative entrepreneurs, artists and fans in California. As part of the class, he hopes to organize an in-class visit to the Takashi Murakami retrospective that will be running at MOCA, and the class will also feature inside views of leading businesses such as Uniqlo, A Bathing Ape, Musha restaurants, CWC/Blythe Dolls, Fruits Magazine, Tofu Records, J Rock Revolution, 2K T-Shirts, and others.

SCIENCE & TECHNOLOGY

Astronomy 19, Seminar 1

Invisible Universe and Life in the Solar System:

From Alpha to Omega

David Cline

This seminar is a non-mathematical discussion of the current understanding of the dark universe that is mostly made up of invisible dark energy, dark matter, and neutrinos. Normal matter (of which humans are made) makes up less than four percent of the universe; stars, less than half of a percent. Seminar includes a discussion of how invisible dark matter leads to the formation of galaxies and stars. Some stars explode, producing neutrinos and heavy elements that constitute materials from which life originates and complex molecular systems were likely formed. We trace the distribution of heavy elements to the period five billion years ago. They also were incorporated into organic materials that eventually led to the origin of life on earth. This seminar is also a discussion of the search for life elsewhere in the solar system that may involve the very same organic molecules.

Professor David B. Cline received his Bachelor of Science in Physics (cum laude) from Kansas State University and his Ph.D in Experimental Elementary Particle Physics from the University of Wisconsin-Madison in 1965. He became an Associate Professor of Physics at the University of Wisconsin-Madison in 1967 and Professor of Physics in 1968. He was an A. Sloan Fellow between 1967 and 1969 and he helped start the FNAL and CERN collider projects with C. Rubbia and others in 1976 through 1980. Dr. Cline joined the faculty at UCLA in 1986, holding a Professorship in the Department of Physics and Astronomy. He initiated the UCLA Center for Advanced Accelerators in 1987 and currently serves as its director.

Atmospheric and Oceanic Sciences 19, Seminar 1

Cosmic Evolution: How Everything is Connected

By the Arrow of Time

Richard Turco

In this seminar we will discuss how matter has evolved over the course of time, since the beginning of the universe to the present. The seminar will emphasize the processes by which complexity and organization arise and grow in natural and manmade systems. We will explore the empirical evidence for inevitable and irreversible transformation of matter, leading toward life and beyond, along the arrow of time.

Richard Turco is a Professor of Atmospheric and Oceanic Sciences, and a faculty member of the Institute of the Environment, where he was its founding director. His interests include the causes of global climate change, the impacts of technology on environmental systems, and issues related to the large-scale engineering of the Earth aimed at benefiting society. He led a research team that discovered the "nuclear winter" effect, and has written a book on this subject with the late astronomer Carl Sagan. *Earth Under Siege: From Air Pollution to Global Change* describes the wide range of environmental problems that Turco has investigated over the years. Solutions to such problems, he believes, require the synthesis of knowledge across traditional academic and disciplinary boundaries. Likewise, "cosmic evolution" is treated as a broadly integrating scientific concept in this course.

Atmospheric and Oceanic Sciences 19, Seminar 2

"Anything can happen": Science and Lore of the Santa Ana Winds

Robert Fovell

People in Los Angeles and beyond are fascinated by the infamous Santa Ana winds, which blow in from the desert during winter and are especially noted for starting and spreading fires. In this seminar, we will explore the science and literature of these "devil winds." Why do they blow? What damage do they cause? How have they become incorporated into the literature and culture of Southern California? Are the winds unique to us, or do other places have their own hot, dry and menacing winds? The course title, "Anything can happen", comes from a Raymond Chandler story named "Red Wind," the title being another nickname for the Santa Anas. He wrote that when the red winds blow, anything can happen.

Robert Fovell is Professor of Atmospheric and Oceanic Sciences and has been teaching at UCLA for 16 years. His research uses computer models to study severe weather, including hurricanes, thunderstorms and Santa Ana winds. His hobbies include digital photography and listening to his son play the flute.

Chemistry 19, Seminar 1

Chemistry and Art

David Scott

This seminar explores how chemistry has been important in the process of making art from ancient times through to the present. Lectures, as well as discussions, together with student reports on murals in Los Angeles, sculpture in the UCLA Sculpture Garden, and the making of a few simple pigments.

David A. Scott is a Professor in Art History and Chair of the UCLA/Getty Conservation Program in Archaeological and Ethnographic Materials. His interests encompass the nature of culture, the use of historical pigments, and the technology and microstructure of ancient metals. His book, *Copper and Bronze in Art* won the prize from the American Association of Publishers as the best scholarly/art book published in the USA in 2002.

Community Health Sciences 19, Seminars 1 and 2

Cosmo Says You're Fat? I Ain't Down with That:

Nutrition and Body Image Life Skills

Jill De Jager and Pamela Viele

This seminar will examine the personal, social, and environmental factors that influence college students' eating behaviors and body image. Students will learn to apply these theories in developing an individualized plan to eat well, be active, and feel good about their bodies. Students will also learn practical skills with applications to stress management, positive body image, and nutrition as they participate in a critical evaluation of popular diets, healthy body weights, sports nutrition, fitness, supplements, muscle builders, media body ideals, and self-destructive thoughts.

Jill DeJager, MPH, RD is a registered dietitian with a background in exercise physiology and public health. In addition to her current role as UCLA's Nutrition Education Coordinator, she functions as an Adjunct Professor of nutrition at Mount San Antonio Community College. She is currently the chair of UCLA's Eating and Activity Task Force which seeks to maximize the success of students by minimizing modifiable nutrition and fitness-related health threats.

Pamela Viele, PhD, MPH holds dual appointments at UCLA as the Director of Health Education in the Arthur Ashe Student Health & Wellness Center and as a faculty lecturer in the School of Public Health. Since joining the UCLA staff in 1976, Pam's professional and teaching activities have focused on helping students to manage the challenging transitional issues of the college years,

including coping with stress, managing emotions, and developing social and cultural competence.

Dentistry 19, Seminar 1

Pain and Stress Management in Dentistry

Francesco Chiappelli

In this seminar, we will discuss research on stress in the context of clinical dentistry. The discussion will focus, for example, on canker sores, psychoneuroendocrine-immune regulation, facial pain (e.g., temporomandibular problems), mind-body interactions, and on the effect of meditation and complementary and alternative medicine in dentistry. Students will be introduced to the research literature, and guided in reading and mastering research on stress and pain management and its implications in dentistry.

Dr. Francesco Chiappelli has a Ph.D. in Counseling Psychology, and completed his post-doctoral fellowship in Psychoneuroimmunology and in Human Fundamental and Clinical Immunology at UCLA. He joined the UCLA School of Dentistry in 1994. He is widely published in stress research, immunology, psychoneuroimmunology, and evidence-based research in dentistry, medicine, and complementary and alternative medicine. He is writing a book entitled *Stress in Dentistry* (Nova Publisher).

Ecology and Evolutionary Biology 19, Seminar 1

Parasites: Eating us Alive

Don Buth

This seminar will introduce students to the parasitological half of the animal kingdom by way of a popular text that emphasizes historical aspects of this biological phenomenon. Topics include how parasites have influenced human evolution and human history.

Donald Buth received his Ph.D. from the University of Illinois and has served on the UCLA faculty for 27 years. His background and earlier research emphasized systematics and genetics of fishes. Since about 1996, he has been more involved in the study of fish parasites and has been teaching the upper-division Parasitology course (EEB 181) since that time. He has been offering this Fiat Lux seminar for several years now and finds the student interactions to be most satisfying.

Ecology and Evolutionary Biology 19, Seminar 2

Evolutionary Medicine: How Natural Selection Helps Us Understand Why We Get Sick

Peter Nonacs

Why do we grow old and die? Why do our own cells sometimes become cancers that grow wildly until they kill us and themselves? Why are plant poisons designed to kill insects--such as caffeine, nicotine, and chocolate--some of our favorite substances to consume? Why are new and deadly diseases appearing in our hospitals? Questions like these have long puzzled medical science. Exciting new approach to these "why" questions involves application of evolutionary principles. Disease, illness, and human behavior are not seen as constant phenomena, but as having evolved and continuing to evolve through Natural Selection. Evolution is a fundamental concept that unifies all of modern biology and, perhaps very soon, modern medicine as well.

Peter Nonacs is an Associate Professor in the Department of Ecology and Evolutionary Biology. His interests are in behavioral ecology and the evolution of social behavior. Although most of his research is on insects, he is interested in general questions about evolution and the ecological interactions between organisms.

Electrical Engineering 19, Seminar 1

Neuroengineering: Technology that Could Enable "The Matrix"

Jack Judy

Brain-computer interfaces portrayed in "The Matrix" movies make use of neuroengineering technologies, many of which already exist. Implantable devices that interface directly with human senses, such as allowing the deaf to hear, are a commercial reality. Research efforts are now underway that will enable the blind to see and the paralyzed to move. Direct brain-computer interfaces are a future goal. Topics of this seminar include past, present, and future neuroengineering technologies and devices and their possible social implications.

Jack Judy is an Associate Professor in the Electrical Engineering Department. He is also the Director of the UCLA NeuroEngineering Program, an NSF-funded training program in the Biomedical Engineering and Neuroscience Programs. His interests include a variety of neuroengineering research projects: electrode arrays

for retinal prosthetics, wireless neural transceivers, microprobes for Parkinson's disease research, and MEMS-enabled hydrocephalus shunts, as well as neural control systems for spinal cord injury, ocular motility, and deep brain stimulation.

Honors Collegium 19, Seminar 4

The Rise and Fall of a Blockbuster Drug

Mike Gresser

The focus of this seminar will be on therapeutic drugs, not recreational drugs. Pharmaceutical and biotechnology companies constantly strive to create better therapeutic agents intended to improve the lives of patients and generate profits for themselves. It is very challenging to make a drug which has a sufficiently favorable benefit to risk ratio in order to justify making it available to patients. Companies that make such drugs have to promote them vigorously to ensure that they will be prescribed and purchased, while making clear the risks associated with using the drug. We will discuss the roles and responsibilities of companies which create and market drugs, the regulatory agencies which decide whether to approve them, the physicians who decide whether to prescribe them, and the patients who decide whether to take them. At each level, decisions concerning risk and benefits should be made. Various drugs will be discussed, with an emphasis on the cyclooxygenase-2 inhibitor Vioxx.

After earning a Ph.D. in Biochemistry at Brandeis University and doing postdoctoral training at UCLA, Mike Gresser worked as a researcher and teacher at Simon Fraser University, and then as a researcher in the pharmaceutical industry at Merck Frosst Canada where he was Executive Director of Biochemistry and Molecular Biology. Later, he worked at Amgen, Inc. where he was Vice President of Research. Currently, he is a visiting scholar at UCLA and works as a consultant to the pharmaceutical and biotechnology industries with Clarity Therapeutics Consulting.

Human Genetics 19, Seminar 1

Genetic Counseling: Making Genetics Real

Christina Palmer and Michelle Fox

This seminar focuses on the fascinating field of Genetic counseling. Genetic counseling combines psychology and science to explain the role of genetic information in the lives of individuals and society. By 'making genetics

real,' genetic counselors help individuals to understand genetic information and to make decisions about its use through genetic testing for conditions such as cancer, Alzheimer's disease, and cystic fibrosis. Through the exploration of case histories in each of the areas of genetic counseling specialization, we will discuss the ethical dilemmas facing individuals in approaching their genetic future.

Christina Palmer, Ph.D., is an Associate Professor in the Department of Psychiatry & Biobehavioral Sciences and Human Genetics. She is a trained genetic counselor and provides genetic counseling for neuropsychiatric conditions at UCLA. She conducts research in psychiatric genetics and the genetics of hearing loss.

Michelle Fox, M.S., is an Adjunct Assistant Professor in the Department of Pediatrics in the David Geffen School of Medicine at UCLA. She is a trained genetic counselor and coordinates the Pediatrics/Adult Genetics Clinic at UCLA and coordinates the Predictive Huntington Disease Program.

Human Genetics 19. Seminar 2

Genetic Enhancement and the Quest for Perfection

Chiara Sabatti

Thanks to recent progress in biotechnology, a number of science fiction scenarios are becoming closer to reality. Along these lines, in 2008, the UCLA Center for Society and Genetics will devote its annual public symposium to *Babies by Design: Defining Humans?* (Sunday, January 27, 2008, open to the public). This Fiat Lux seminar will be devoted to an informed discussion of the same topics. We will review the possibilities presently offered by reproductive technology. We will learn about current knowledge of gene function, reading classical and contemporary works of literature that have to do with human attempts to increase their control on their progeny and their future. We will approach a philosophical text related to the definition of human being in the context of genetic technology. Also, we will examine what one psychologist says about the effects of parental pressure to "be perfect" on modern day teenagers.

Chiara Sabatti is an Associate Professor in the departments of Human Genetics and Statistics. She has a master in Statistics and Economics and a Ph.D. in Statistics from Stanford University. After obtaining her doctoral degree, she has been working on the analysis of

genetics data, developing mathematical models and computational tools.

Molecular, Cell, and Developmental Biology 19, Seminar 1

The Joy of Biology

John Merriam

"The sheer intellectual joy of finding out how life works is really cool. This is the greatest intellectual revolution and it is happening right now" (Susan Lindquist, interviewed in the New York Times, 4/24/07). The revolution comes from technology which makes direct experiments possible, but also brings controversies and concerns. The intellectual joy is available to everyone who wants to find out what's going on or keep up life-long learning: The New York Times Science section is a premier way to get in the habit of reading science developments particularly, but not limited to, life and medical sciences. Once per week, we will review the science section and discuss articles of interest and identify topics for further exploration on the internet.

John Merriam is a Professor in the Department of Molecular, Cell and Developmental Biology at UCLA. His main teaching interest is in the area of human genetics and introductory genetics. His research uses *Drosophila* as a model organism to determine the function of specific genes.

Neurobiology 19, Seminar 1

Links between the Nervous and Immune Systems

Edwin L. Cooper

This seminar explores the links between the nervous and immune systems, presenting information pertaining to various animal models, and with an emphasis on humans. The implications of these systemic links are related to the problems of aggression, stress, and perhaps chronic diseases.

Edwin Cooper received his Ph.D. in Biology from Brown University in 1963 and was a postdoctoral fellow at the UCLA School of Medicine in Infectious Diseases. He has lectured extensively in Latin America, Europe, Asia, and the Middle East, and held visiting research appointments in immunology departments, receiving many prestigious awards.

Nursing 19, Seminar 1

*Brain Drain - Why You Are Losing Your Mind
(and What to Do About It)*

Mary Woo

Brain damage occurs daily in almost all of us, from such sources as our diet, stress, sleep disturbances, and oxygen levels. Accumulation of this injury can result in serious disability, including dementia. We will discuss examples of how such factors as diet (gluten), stress, physical inactivity, sleep disturbances, and oxygen (too much and too little) damage brain cells. We also will present activities and interventions which can ameliorate or prevent brain cell damage from these factors.

Mary Woo's background is in cardiovascular critical care nursing, which led to her interest in sudden death and heart failure. Her current research is in the examination of brain-heart interactions, using brain magnetic resonance imaging, overnight polysomnography (sleep studies), and measures of cognition and depression.

Pediatrics 19, Seminar 1

Babies by Design: Redefining Humans?

Edward and Linda McCabe

Preimplantation genetic diagnosis involves removal of one cell from an embryo at eight-cell stage. This cell is studied to determine presence or absence of mutation associated with disease. Selection of embryos without predisposition for disease for implantation is considered to be a benefit to the future child. Some would use this technology to select embryos with a particular characteristic such as gender that may not appear to be beneficial to the future child. Others may select a quality that benefits an existing child such as HLA compatibility to improve likelihood of success when using cord blood from future child to treat the existing child. Some may select embryos that have a mutation associated with a disorder. This seminar is a consideration of all these possibilities and their implications for humanity.

Edward R.B. McCabe, M.D., Ph.D. is a Professor and Mattel Executive Endowed Chair of Pediatrics at UCLA.

Linda L. McCabe, Ph.D. is Associate Adjunct Professor of Human Genetics.

Pediatrics 19, Seminar 2

*Being a Doctor to Children with Heart Problems:
Diagnoses, Treatment, and Physiology*

Daniel Levi

An introduction to the world of pediatric cardiology, this seminar will include the nature of children's heart problems, the technology used to diagnose and treat disease, and what children go through in the process. It will provide a first-hand look at the technology and procedures in echocardiography and catheterization labs, also introducing the profession of pediatric cardiology and the process of medical education through medical school, residency, and fellowship.

Dr Levi is a Pediatric Cardiologist at the Mattel Children's Hospital at UCLA. The majority of his time is spent in the hospital caring for children with congenital heart disease. Within pediatric cardiology, Dr Levi has focused on using catheters rather than surgery to correct heart problems in children. In collaboration with the UCLA Department of Material and Aerospace Engineering, he is developing a novel thin-film nitinol heart valve for non-surgical, percutaneous insertion in children. He completed a Pediatrics residency at UCSF and a Pediatric Cardiology Fellowship at UCLA.

Physiological Science 19, Seminar 1

On Human Nature: Evolution of the Human Animal

Alan Grinnell

Humans are peculiar animals, with special anatomical, physiological, behavioral, and cultural adaptations. This seminar considers the evolution of humans from just another large mammal (the third chimpanzee) to its unique status in the animal kingdom. A discussion of evolutionary forces that led to the "great leap forward" to modern man, evolutionary explanations for some of the bizarre physical and behavioral characteristics we have, including sexual behavior, prolonged care of infants, menopause, and prolonged lifespan, and the degree to which we share with animals traits considered uniquely human-language, art, agriculture, addiction, and warfare. We will also discuss why civilizations developed at different rates on different continents. These discussions will be held in the context of reading the seminal book by one of most profound thinkers in field of human behavior and evolution, Jared Diamond's *The Third Chimpanzee*.

Dr. Alan Grinnell, Professor of Physiology and Physiological Science, is a neurobiologist with an interest in the neurobiological bases of behavior and the mechanisms of evolution.

Psychiatry and Biobehavioral Sciences 19, Seminar 1

Dinner with Doctor X

Richard De La Garza, II

This seminar consists of bi-weekly dinners with doctors to be named. The doctors are UCLA faculty members whose research focuses in drug abuse (nicotine, alcohol, cocaine, methamphetamine, ecstasy, opioids, and marijuana) or neuropsychiatric disorders (ADHD, depression, autism, schizophrenia, eating disorders, body dysmorphic disorder, etc). Informal gatherings in which participants get a meal first and all go to Hedrick special dining lounge and eat together as a group. Midway through dinner, the instructor will briefly introduce the individual and will open the floor for questions on the topic of the day. No PowerPoint slides, no lecture, no formal outline of material to be covered-it is simply an open-ended conversation with the goal of providing young people an opportunity to learn from someone who is an expert in his/her medical field.

Richard De La Garza, II received his Ph.D. in Neuroscience at the University of Texas Medical Branch in 1996. He is an Associate Professor in Residence in the UCLA Department of Psychiatry and Biobehavioral Sciences and completed his postdoctoral fellowships at Harvard Medical School (1996-1999) and Yale University School of Medicine (1999-2000), all prior to accepting a faculty position at the Albert Einstein College of Medicine (2000-2004).

Psychology 19, Seminar 1

Human Aggression: Issues, Causes, Myths, and Management

Seymour Feshbach

The role of evolutionary and other biological factors, and of social and cultural influences will be considered in this seminar. Specific attention will be given to similarities and contrasts with animal aggression, to gender differences, to mass media influences, to personality factors associated with militant national policies, and approaches to the reduction of aggression.

Seymour Feshbach's principal area of research interest has been the study of aggressive behavior. He has been President of the International Society for Research on Aggression and President of the Society for the Psychological Study of Social Issues. He has written theoretical papers on the functions of different forms of aggression and has carried out empirical research on television influences on aggression, the relation between sexual arousal and aggression, play aggression, and the role of individual aggression versus nationalism in attitudes towards war. With Professor Norma Feshbach he has implemented and evaluated empathy-fostering programs in schools that are intended to reduce aggression and social prejudice.

Psychology 19, Seminar 2

Speaking, Listening, and Connecting: How Humans Interact

Thomas Bradbury

As social beings, humans spend a great deal of time in conversation with others: friends, roommates, parents, children, strangers, doctors, intimate partners, and therapists. What happens in these conversations? What are the psychological tasks that social interaction demands of us? What are the verbal and nonverbal cues that people pick up on (and fail to pick up on) in their social interactions? Why is it that we really 'hit it off' in some conversations, but fail to do so in others? What has to happen in a conversation between strangers so that it evolves to a deeper level of connection? How do people communicate respect, support, love, and forgiveness? By viewing and analyzing a variety of examples of social interaction, students will develop a deeper appreciation for these questions and for the complex role of social interaction in their daily lives.

A UCLA professor since 1990, Thomas Bradbury was trained as a clinical psychologist and now conducts research on how intimate relationships form, develop, and change. He relies heavily on observational methods to study the longitudinal course of relationships and family functioning. Dr. Bradbury is the author of a forthcoming textbook, *Intimate Relationships*, and he is the recipient of the Distinguished Teaching Award from the UCLA Department of Psychology. In 1998, Bradbury was awarded the Early Career Award for Distinguished Contributions to Psychology by the American Psychological Association.

Psychology 19, Seminar 3

The Psychobiology of Stress Resilience

Thomas Minor

Feeling stressed, fatigued, a bit anxious? Not sleeping well? Suffering from a decreased libido? Have your eating habits changed-eating too much (“hyperphagia”) or too little (“anorexia”)? These are all symptoms of psychological stress and are common in college students during midterms and finals, and in the face of other challenges. Long-term effects of stress, particularly chronic stress, can be physically damaging. Recent research, however, suggests that you can use life’s small stresses to increase your stress resilience, or the ability to resist and recover from stress. This seminar will address brain, endocrine, and autonomic nervous system mediators of stress resilience and recovery, as well as how rest, exercise, and psychological attitude influence hardiness and feelings of well-being.

Thomas Minor is a Professor of Psychology and Neuroscience. He is a leading researcher on brain and endocrine mechanisms of psychological trauma, stress resilience, and stress recovery. Dr. Minor also works with the Army and Department of Homeland Security to develop training programs that increase stress resilience in first-responders, EOC, and military personnel.

Psychology 19, Seminar 4

Tool Use and Causal Cognition in Animals

Aaron Blaisdell

There has been a plethora of observations of animals using tools in the wild, from Chimpanzees to New Caledonian crows, to leaf-cutter ants. We will review the evidence for tool use in animals both in the wild and in laboratory settings. A primary focus of our exploration will be to investigate the evidence for the cognitive processes that support tool use in animals. In particular, we will evaluate the evidence for the role of causal reasoning processes in tool-use behavior. These investigations can reveal what it means to be a causal agent in the physical world and the role of causal cognition in human society.

Aaron Blaisdell is an Assistant Professor in Psychology in Learning and Behavior at UCLA. His primary research interests are Associative Learning Processes and Causal, Spatial, and Temporal cognition in animals.