

About

Grab a cup of coffee and a bagel and join us for **Saturday Morning Science** — a series of one-hour science talks.

These are not typical science lectures. Expect to be entertained, to see demonstrations, to learn a lot, and—best of all—to want to come back for more.

Saturday Morning Science is free and open to the public. No science background is required. All ages are welcome.

Breakfast refreshments are served before the talks, so come early. Talks start at 10:30 a.m. Doors open and refreshments are available a half-hour beforehand. Seating is limited to 250 occupants.

Support

Saturday Morning Science is largely a volunteer effort. Our sponsors provide funding for refreshments, advertising and occasional external speakers. If you would like to make a tax-deductible contribution to Saturday Morning Science, please contact Patrick Smith, Senior Manager - Business Administration: 573-884-1788 or smithpatric@missouri.edu.

Organizers

D Cornelison, David Nolin, Mary Shenk

With help from
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SMS on iTunes U

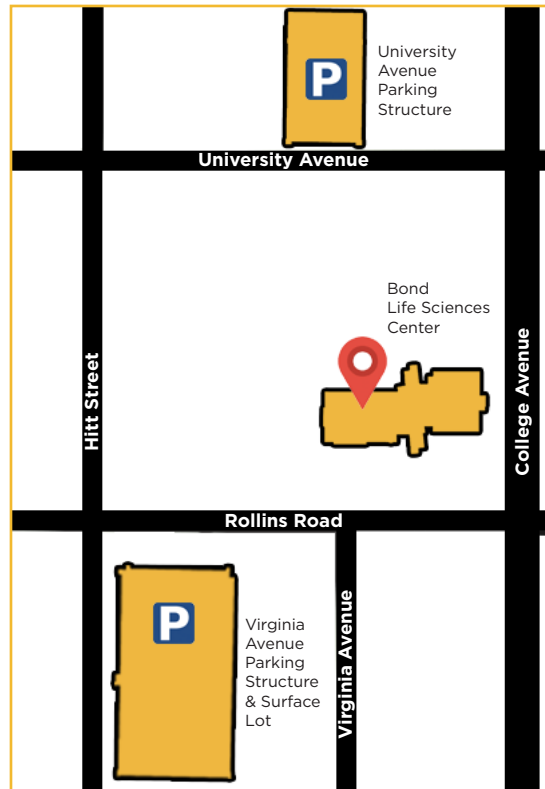
We are pleased to offer a collection of audio and video content from past Saturday Morning Science talks on the iTunes platform.

bit.ly/SaturdayMorningScience

Directions

Free weekend parking is available in University Avenue Parking Structure, Virginia Avenue Parking Structure and the Virginia Avenue Garage Surface Lot.

For directions to the Bond Life Sciences Center, visit: bit.ly/LSCParking



Follow us on Facebook and Twitter to stay up-to-date with the Life Sciences and Society Program

bondlsc.missouri.edu/events

Schedule

September 10

Tissue Engineering with Multi-Drug Resistant Bacteria in the Way

September 17

Historical Epidemics, Novel Techniques: Using Historical and Ethnographic Materials to Build Computer Simulation Models

September 24

Documenting Linguistic Diversity: A View from the East African Great Lakes

October 1

The 20 Greatest Hits in Science...in an Hour

October 8

Are Lizards Smarter Than Those of Us Who Study Them?

October 15

What Do We Look For When We Diagnose Autism?

October 29

Fitness for the Ages: How to Lift Like a Neanderthal

November 5

Living in a Viscous World: A Volcanologist's Perspective

November 12

Networks in Biology and Beyond

December 3

What's the Best Way to Divide Up the Pie: The Price of a Long Life

For ADA accommodations, contact Mary Shenk, Director, Life Sciences and Society Program: 573-882-0562 or shenkm@missouri.edu.

 **Bond Life Sciences Center**
University of Missouri



Saturday Morning



Presented by the Life Sciences and Society Program

FALL 2016 SCHEDULE

SATURDAYS AT 10:30 A.M.

MONSANTO AUDITORIUM,
MU BOND LIFE SCIENCES CENTER



Presented by the Life Sciences and Society Program



September 10
ELIZABETH LOBOA
Dean, College of Engineering
Professor, Bio-engineering

*Tissue Engineering with
Multi-Drug Resistant Bacteria
in the Way*

Dean Loba will discuss approaches in her lab to elucidate and optimize biomimetic materials for wound healing, tissue engineering, and regenerative medicine applications. Focus will be placed on regeneration of skin and musculoskeletal tissues and approaches to wound care and tissue regeneration while combating multi-drug resistant bacteria.



September 17
CAROLYN ORBANN
Assistant Teaching Professor,
Department of Health Sciences

*Historical Epidemics, Novel
Techniques: Using Historical
and Ethnographic Materials
to Build Computer Simulation
Models*

Computer simulation models are powerful tools for understanding complex systems used in many academic disciplines. This talk explores the development of models for examining historical epidemics in anthropological populations. Relying on underutilized data sources, like archival materials, archaeological records, diaries, paintings, and photographs, these models are culturally and historically situated and contribute to our understanding of disease in human history.



September 24
MICHAEL MARLO
Associate Professor, English

*Documenting Linguistic
Diversity: A View from the East
African Great Lakes*

More than half of the world's languages are projected to go extinct this century, representing a major loss for both science and humanity. In this presentation, we will look at an MU-based project to document the linguistic diversity and history of a group of languages spoken near Lake Victoria in western Kenya and eastern Uganda.



October 1
STEVE KELLER
Associate Professor, Chemistry

*The 20 Greatest Hits in
Science...in an Hour*

This talk will be a 60-minute (non-musical) journey through the biggest ideas in science. Delving (briefly) into topics from biology, chemistry, physics, astronomy, and geology, we will also explore ways in which many of these concepts are intertwined. It is the interconnectedness that lies at the heart of the beauty and utility of science in today's world.



October 8
MANUEL LEAL
Associate Professor, Biological
Sciences

*Are Lizards Smarter Than
Those of Us Who Study Them?*

Studies of the cognitive abilities of vertebrates have mostly focused on mammals and birds, due to the historical view that organisms more distantly related to humans have more "primitive" brains. I will present the results of a series of experiments on cognition in lizards which challenge the traditional view and discuss the pitfalls of excluding reptiles when discussing the evolution of cognitive abilities.



October 15
STEVE KANNE
Executive Director & Associate
Professor, Thompson Center for
Autism & Neurodevelopmental
Disorders

*What Do We Look For When
We Diagnose Autism?*

More and more people are being diagnosed with autism. Many people have questions about how we diagnose autism, what we look for, and what procedures we use. I will discuss the common tests that we use, and how these tests allow us to observe the signs and symptoms of autism so that we can make an accurate diagnosis.



October 29
LIBBY COWGILL
Assistant Professor,
Anthropology

*Fitness for the Ages: How to
Lift Like a Neanderthal*

What can the skeletal anatomy of an extinct hominin teach us about modern human fitness? Dr. Cowgill discusses the comparative biomechanics of weightlifting and its implications for modern human health, fitness, and longevity, concluding with a live demonstration!



November 5
ARIANNA SOLDATI
Ph.D. Candidate, Department of
Geological Sciences

*Living in a Viscous World: A
Volcanologist's Perspective*

Emptying a ketchup bottle, braking your car, and sampling a lava flow: it has all got to do with viscosity. We'll explore how this curious material property affects our everyday life, and why volcanologists care about it.



November 12
FRANK SCHMIDT
Professor, Biochemistry

&



GAVIN CONANT
Associate Professor,
Bioinformatics, Department of
Animal Sciences

Networks in Biology and Beyond

Bill Gates walks into a room and suddenly everyone is a billionaire. When he leaves, everyone is worth as much as before. Wealth is a long-tail phenomenon: most people have relatively little and a very few have a lot. Interestingly, the web, biology, and the origin of life all show similar behavior, deriving from the nature of connections. We'll illustrate the phenomenon with ordinary examples, and show how the same principles operate in wide areas of science.



December 3
ELIZABETH KING
Assistant Professor, Division of
Biological Sciences

*What's the Best Way to Divide
Up the Pie: The Price of a Long
Life*

Greenland sharks recently claimed the title of the oldest vertebrate at 400 years old, while the turquoise killifish lives only a few months. Why do different species vary so widely in traits tied to their survival and reproduction? This seminar will explore this question and discuss how human evolutionary history might help explain both aging and obesity.



To learn more about the Life Sciences and Society Program or its outreach programs, visit lssp.missouri.edu.