



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 your 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.

Bagels, donuts, coffee, and juice are served before the talks, so come early. Talks start at 10:30. Doors open and refreshments are available about a half-hour beforehand. Seating is limited to 250.

Questions, Comments, Suggestions

satscience@missouri.edu

<http://satscience.missouri.edu>

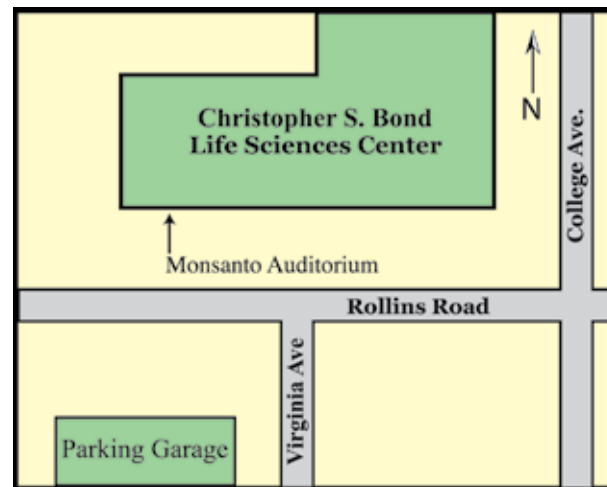
Organizers

Bruce McClure
Wouter Montfrooij
Marc Johnson

Saturdays
10:30 a.m. – 11:30 a.m.
Monsanto Auditorium
Corner of Rollins Rd. & College Ave.

For directions, visit:
<http://map.missouri.edu>

Free visitor parking is allowed in the Virginia Avenue Parking Garage (Levels 1, 2, and 3) on the weekends. Entrance to the parking garage is off Virginia Avenue, south of the Bond Life Sciences Center.



SMS 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 us at satscience@missouri.edu.

Thanks to Our Sponsors!



MU OFFICE OF RESEARCH



Schedule At-A-Glance

- 30 Jan. Life in the Treetops: Forest Canopy Research & Outreach
- 6 Feb. How Game Theory Explains Stupid Behavior
- 13 Feb. A Brief History of Energy
- 20 Feb. Help! Where Am I?
- 27 Feb. Do We Really Need To Sleep?
- 6 Mar. CO₂ Capture & Global Warming
- 13 Mar. No Saturday Morning Science
- 20 Mar. Forests & Greenhouse Gases: A Science Primer
- 27 Mar. No Saturday Morning Science
- 3 Apr. No Saturday Morning Science
- 10 Apr. Hidden Worlds: How Microscopy Shows Us How Cells Work
- 17 Apr. Deep-Sea Hydrothermal Vents: New Technologies, New Discoveries
- 24 Apr. How Many Things Can You Keep In Mind?
- 1 May How To Power A Dust Mite



WINTER 2010 SCHEDULE

Saturdays
10:30 a.m. – 11:30 a.m.

Monsanto Auditorium
Bond Life Sciences Center
Corner of Rollins Rd. & College Ave.



Saturdays 10:30–11:30 a.m.
Monsanto Auditorium
Corner of Rollins & College



13 February
**A Brief History
of Energy**

Carlos Wexler

What is energy? Where does it come from? How does society use energy, and what are the consequences? Wexler will describe how energy and society co-evolved, and how new energy sources solved old problems but created new ones.



6 March
**CO₂ Capture &
Global Warming**

Rainer Glaser

This talk will describe atmospheric CO₂ levels and ways that are being discussed to stem the increase. Plants have been grabbing CO₂ from the air for millennia. Can we borrow their approach to bring down atmospheric CO₂ levels?



17 April
**Deep-Sea Hydrothermal
Vents: New Technologies,
New Discoveries**

William Seyfried Jr.
University of Minnesota

New technologies in submersible science have greatly enhanced our understanding of the origin and evolution of deep-sea hydrothermal vents. Seyfried will share some new developments and applications in this challenging area of ocean science research.



30 January
**Life in the Treetops:
Forest Canopy
Research & Outreach**

Nalini Nadkarni
The Evergreen State College

Working directly in the forest canopy has taught us much about its rich biodiversity and unique ecological roles. Nadkarni communicates these lessons to scientists and public audiences such as faith-based communities, artists, and prisoners.



20 February
Help! Where Am I?

Jim Keller

People are really good at giving and interpreting sometimes vague and incomplete descriptions of spatial and temporal events. Can robots/computers join in that type of conversation? Fuzzy logic and image processing can get us talking.



20 March
**Forests & Greenhouse
Gases: A Science
Primer**

Stephen Pallardy

How do earth's forests both add to and remove greenhouse gases like CO₂ from the atmosphere? How do scientists measure CO₂ flux of an entire forest? Can forests play a role in ameliorating greenhouse gas emissions?



24 April
**How Many Things
Can You Keep
In Mind?**

Nelson Cowan

You need to keep in mind multiple things at once to solve problems, or to plan your day's activities. Cowan will describe what psychological experiments and brain research tell us about humans' ability to keep things in mind.



6 February
**How Game Theory
Explains Stupid
Behavior**

Zac Ernst

When markets collapse and people who should cooperate turn on each other instead, rational people are acting stupidly. This talk will explain how game theorists study some of our most irrational and stupid behavior.



27 February
**Do We Really Need
To Sleep?**

Mahesh Thakkar

Do we really need to spend a third of our time sleeping? Why do we dream? These and many other questions about sleep can keep you awake. So let us get together to talk about sleep.



10 April
**Hidden Worlds: How
Microscopy Shows Us
How Cells Work**

Tom Phillips

Come see how technological advances in microscopy have revolutionized our ability to capture amazingly beautiful images that provide insight into how both individual cells and groups of different types of cells carry out their functions.



1 May
**How To Power
A Dust Mite**

David Robertson

MU scientists are creating the world's smallest battery using radioactive decay.