



Intern-Mentor BBQ
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Now Showing
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KAT's Meooow
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Summer

Office of Undergraduate Research at Mizzou

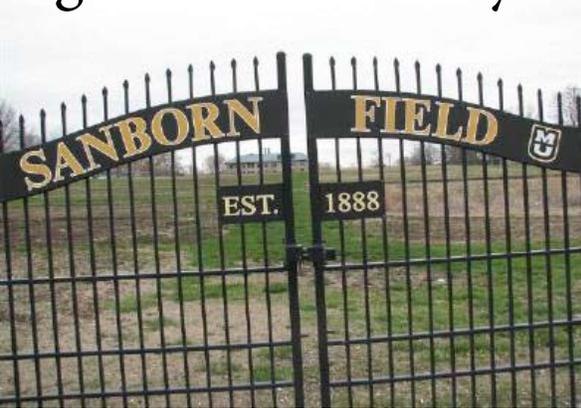
2009

Newsletter

Issue No: 3

June 18th, 2009

Sanborn Field: A capsule of scientific agricultural history in central Missouri



Sanborn Field, initially named the Rotation Field, was initiated in late 1888 by Dean J. W. Sanborn to demonstrate the value of crop rotations and manure in grain crop production. There are a total of 38 plots of the original field remaining that produce (or have produced) wheat, corn, clover, timothy, soybeans, sorghum, fescue, orchardgrass, and alfalfa.

The field, located just east of the Bond Life Sciences Center, has undergone several changes since 1888, but the purposes remain the same. These include: document soil changes, crop response, and nutrient balance under selected crop sequences; to measure soil changes and crop performance in plots; to demonstrate results of interactions that occur through differential management of the soil-plant-environment continuum; and to serve as an on-campus laboratory for teaching and to provide living examples to students.

The field is currently managed by Dr. Randy Miles (Soil, Environmental,

and Atmospheric Sciences) and the Agricultural Experiment Station. From the many years of crop research on this field, several conclusions have been reached: crops in rotations give better yields and higher net returns than those grown continuously, short rotations give larger economic returns than long rotations, and higher bushel weights are found in rotated crops. Sustainable agriculture depends upon maintaining the productivity of soil. Soil productivity is affected by many factors, including the selection of cropping programs. A variety of crops (i.e. rotation) enhances productivity through the unique effects of each crop.

It is unlikely that Dean Sanborn expected the field to continue operating for more than 100 years. However, the field has remained in spite of numerous changes in treatments, rotations, support, and administration.

Despite the changes since 1888, there is a thread of sustainable production through the history of Sanborn Field.

Adapted from aes.missouri.edu and *Sanborn Field: A capsule of scientific agricultural history in Central Missouri* (1993).

ABOUT THE NEWSLETTER

The University of Missouri Undergraduate Research Newsletter is produced by the Office of Undergraduate Research and contains information of interest for summer undergraduate research interns and their mentors. The Undergraduate Research Newsletter will be mailed out every Thursday. Items and announcements for each issue are due on Tuesday mornings to Maggie Berglund at mumberglund@gmail.com.

HAPPENINGS THIS WEEK

Monday, June 22rd

No events

Tuesday, June 23th

Evening Seminar
Dr. Fred Bomsaal
Plastics-based endocrine disrupters and your health
6-7 pm, Monsanto Aud

Wednesday, June 24th

Monsanto Aud.
21 Movie Night, Monsanto Aud 6 pm

Thursday, June 25th

Evening Seminar
Dr. Joel Maruniak
Scientific Ethics
6-7 pm, Monsanto Aud

Friday, June 26th

PGI Discussion 12 -1 pm Rm. 102

So you're smart...but are you Missouri smart?

Anheuser-Busch is the largest beer producing plant in the nation, but what Belgian company bought it last year?
Last Week's Answer: Rome

NOW SHOWING

"21"

**6 pm Monsanto Auditorium
wed. June 24th**



Charles Franklin Kettering (1876-1958) U. S. engineer and inventor says...

Every honest researcher I know admits he's just a professional amateur. He's doing whatever he's doing for the first time. That makes him an amateur. He has sense enough to know that he's going to have a lot of trouble, so that makes him a professional.

Did you know...

For \$2 you can visit the Mizzou Rec Center. The facilities include three pools, an elevated indoor track, a spa, weight rooms, cardio machines, classes and more!!!!



WWW.PHDCOMICS.COM

Intern-Mentor BBQ



WHO DO I CONTACT?

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KAT'S MEOOOW...



808-B East Broadway, Columbia, MO 65201
(573) 777-8269
Hours are 12pm-12am
Open every DAY!

Started by 3 MU undergraduates, Hot Box is the only place in Columbia (and maybe the state) where you can create your own cookies and have them delivered to your doorstep in the middle of the night. You can choose the type of dough (plain, chocolate, peanut butter, or oatmeal) and add over 20 mix-ins, and have the cookies delivered to your door or eat them there!

Let's Talk UMEB

Vermeer understood the value of using pictures to express himself.

Weekly Quick Tip: **Effective Poster Presentations** *Carefully select images and graphics*

Select images and graphics that are closely tied to your major points. There should be a clear reason for each image, and each image should be tied to the text. Avoid cluttering the poster with too many images-if the connection between an image and one of your main points is not immediately clear, don't include it just for the sake of visual appeal. At the same time, be sure that your poster is not

too text-heavy and, thus, unappealing or overwhelming. Aim for balance between text and graphics.



Source: www.stanford.edu/dept/undergrad.edu

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