

Department of Science and Mathematics

Louisburg College

501 N. Main Street

Louisburg, North Carolina 27549



Sci-Tech Saturday—

Future Frontiers is

**supported in part by a grant
from the Franklin County
United Way.**

No, Mr. CELL, I EXPECT YOU TO DIE!

Mike Fisher, UNC-CH School of Medicine research scientist, studies how to keep cancer cells from resisting chemotherapy. His treatment causes tumor cells to “die better” in the presence of chemotherapy drugs. See how human cancer cells get what they have coming to them!

How Do You SUDOKU?

Learn the math behind the popular mathless number puzzle that is sweeping the world. Similar to a game played by 18th century Swiss mathematicians, sudoku originated in Japan and has now caught on everywhere. Louisburg College Mathematics Professor Jeff Olbrys will guide your exploration of strategies that could make you a sudoku champ and demonstrate how these strategies can be applied to a number of challenges.

THE REAL CSI

Learn about some of the different types of evidence the North Carolina State Bureau of Investigation receives in the laboratory. Forensic biologist Jennifer Leyn will demonstrate how the SBI tests for blood. Participants will dust for fingerprints, compare shoe prints and tire tracks, make physical matches, and compare DNA profiles.

SAY CHEESE!

How do you like your pizza? Did you say with double CHEESE? Senior scientist Isaac Ashie, of Novozymes, Inc., in Franklinton, will slice through the science of cheese-making, from the cow to the finished product.

Lunch Program: PHARMACY AND BEYOND

Eric Seidel, PharmD, of Walgreens, Inc., discusses technological advances in the pharmaceutical industry, and how you can be a part of it. He also gives away cool prizes!

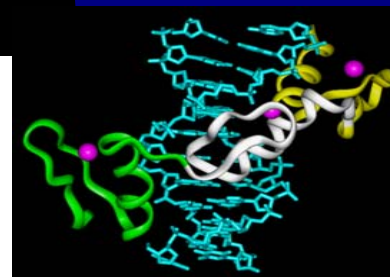


Sci-Tech

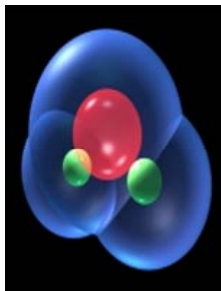
Saturday

Future

Frontiers



April 22, 2006



*Interested in
pharmaceuticals,
forensic science,
or biochemistry?
Do you enjoy
puzzles and
stretching your
imagination?*

We invite you to be a part of
Sci-Tech Saturday
Future Frontiers
at Louisburg College

This year's educational and fun sessions include:

- ◆ Experiencing hands-on science
- ◆ Solving math puzzles
- ◆ Learning about new trends in pharmacy and science careers in the Triangle Area

When: Saturday, April 22, 2006
8:30 a.m. — 1:30 p.m.

Where: Louisburg College

Who: Eighth grade science students and instructors with a keen interest in science and math and where that might lead . . .

Cost: \$25 per student; every five students must be accompanied by an adult (free of charge). Cost includes all sessions, lunch, t-shirt, and MORE!

**Questions? Call David Minard—
919-497-3282**

Sci-Tech Saturday

Future Frontiers 2006

Schedule of Events

8:30 — 9:00 am	Registration
9:00 — 9:35	Session 1
9:40 — 10:15	Session 2
10:15 — 10:45	Break
10:45 — 11:20	Session 3
11:25 — 12:00	Session 4
12:00 noon	Lunch
	Keynote Speaker Prizes!!

DRAGON CURVES

Dragons do exist! Use your problem-solving and cooperative learning skills to create a dragon curve. Be as creative as your imagination will allow. Then, you and your group will devise a way to calculate its length and area. Join Sue Bridgeman, Louisburg College Instructor of Mathematics, for this fun exercise.

GOT DNA?

DNA is packed tightly into tiny condensed structures in the nucleus of our cells. DNA nanoparticles are an exciting, new tool which can be used in gene therapy, DNA vaccines, genomics, high-throughput screening assays, etc. Prepare DNA nanoparticles with peptides and analyze them in the laboratory with Dr. Rob DeLong.

CONTINUED ON BACK

Registration Form

Student Name: _____

Address: _____

School: _____

School Phone Number: _____

Chaperone Name: _____

Chaperone Address: _____

Phone Number: _____

PAYMENT INFORMATION

◇ My \$25 registration fee is enclosed.

◇ Check

◇ Mastercard/Visa

Cardholder Name: _____

Card Number/Expiration Date: _____

EMERGENCY CONTACT INFORMATION

Name: _____

Phone Number: _____

T-SHIRTS

T-Shirt Size: Adult S M L XL
Circle One

Detach this registration form and return with payment to:

Science Department
Louisburg College
501 North Main Street
Louisburg, North Carolina 27549

