

# The Link...

...YOU ... faculty ... students ... cancer research ... K-STATE



Johnson Center for  
**Basic Cancer Research**  
KANSAS STATE UNIVERSITY

JUNE 2010

## BASCOM LECTURE

**TUES., SEPT. 28, 2010**  
**7:30PM**  
**K-State Union**  
**Forum Hall**

**BARBARA F. ATKINSON, MD**

Executive Vice Chancellor of  
the KU Medical Center and  
Executive Dean of the KU  
School of Medicine

*"The Future of Cancer  
Research and Treatment  
in Kansas"*

## VERY EARLY REMINDER PLAN AHEAD

**OCTOBER 1, 2010**  
is the deadline for  
fall award applications.

- Cancer Research Awards
- Innovative Research
- Equipment
- Faculty Travel Fellowships
- Travel Fellowships for Graduate Students & Post-Doctoral Fellows

The Mission of the Johnson Cancer Center at K-State is to further the understanding of cancers by funding basic cancer **RESEARCH**, and supporting higher **EDUCATION**, training and public **OUTREACH**.

## 30<sup>TH</sup> ANNIVERSARY REFLECTIONS

Since 1980, thanks to the unceasing and generous support of thousands of individuals and organizations, the cancer center has been helping K-State researchers tackle cancer. In 1986, Dr. George Bascom, chair of the center's advisory council said, "Cancer is a professional challenge to the energy and ingenuity of both clinician and basic scientist, but when it strikes one of us or one of our family, it becomes a part of our life experience in a way that is different from the abstract or intellectual." This is as true today as it was then. However, today we can absolutely say that, thanks to the basic scientist and the clinician, many people survive and even avoid cancer and are testaments to ever-improving medical treatments and hope for the future.

Dr. Rob Denell, center director and cancer survivor, says that we are in the most exciting time for cancer research. The future is bright and K-State is making great strides toward achieving our vision to **conquer cancer in our time**. The multidisciplinary efforts of 70 K-State cancer researchers in five colleges — Agriculture, Arts & Sciences, Human Ecology, Engineering and Veterinary Medicine — is paying off. They are doing cutting edge research to improve prevention, detection, diagnosis, treatment and survival of cancer. With your help, they will continue to unravel the complexities of cancer.

## OUR ALLIES FIGHTING CANCER

Our affiliated scientists and students are grateful to those who support their efforts. The center is indebted to everyone who makes a contribution — large or small. Together, individual donors and those who organize events like these work toward our common goal.

### 4<sup>TH</sup> KAW VALLEY RODEO *TOUGH ENOUGH TO WEAR PINK*

Many events in Manhattan support this campaign. Funds raised come to the center:

- July 11: Spaghetti Buffet  
11:30AM-1:30PM 
- July 18: Annual Steak Fry at RC McGraws  
5PM Social Hr/Silent Auc., 6PM Dinner, 7PM Auction  
(Pink section of the auction is for the center)
- July 23: "Pink" night at the rodeo in Wells Arena, CiCo Park, during Riley County Fair  
(A portion of the ticket price is for the center.)

Please contact the center for more information and to buy tickets for the Spaghetti Buffet or Steak Fry.

### 13<sup>TH</sup> ROB REGIER MEMORIAL GOLF TOURNAMENT

**September 3, 2010**  
at Colbert Hills in Manhattan

PREMIER  
SPONSOR  
for the 6th year



### DIAMOND SPONSORS

**Johnson Cancer Center Advisory Council**

Donna & Jack Vanier

BANQUET  
SPONSOR



For information about playing or sponsoring, go to: [www.cancer.k-state.edu/news-events/97/upcoming-events](http://www.cancer.k-state.edu/news-events/97/upcoming-events)

### MASON'S WISH

Amazing new cancer center advocate, 12 year-old Mason Wolfe, who has raised over \$15,000 for the fund she established in honor of her father's fight against cancer, was recently recognized as an *Everyday Hero* by Denver Channel 7 News. She has also launched a new Web site for her charity Mason's Wish, [www.masonswish.com](http://www.masonswish.com).



### Also in 2010...

**INDEPENDENCE H.S. & FREDONIA H.S.** girls basketball teams each raised \$500 at their cancer awareness nights.



**SUNNY 102.5FM & COACH SNYDER** have been partners since 1995! They've raised over \$21,000 so far this year, and continue to promote the center in every way they can.

**PHI BETA PSI** Sorority's 2010 State Project raised \$625 for cancer research at K-State.



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[www.cancer.k-state.edu](http://www.cancer.k-state.edu)

## The Link...



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### In this issue

- 30th Anniversary Reflections
- Allies Fighting Cancer
- Bascom Lecture in Sept.
- An Inspiring Student
- Exciting Research Prospects
- Polyester Party in Oct.

## Purple & Pink Polyester Party

a fundraiser hosted  
by Dave Lewis

Friday Evening  
October 8, 2010

An evening of dancing,  
food & fun, dressed in  
your favorite mode of  
the 60s, 70s and 80s!

Houston Street Ballroom  
Manhattan, Kansas

Emcee & Host Dave Lewis  
invites you to enjoy this fun  
event to support the Johnson  
Cancer Center.

As a member of the center's  
Advisory Council and in  
memory of his late wife,  
Elena, he hopes you will join  
him in this effort to help  
**conquer cancer in our time.**

**More details to come!**

**Would you like to be a sponsor  
or help? Contact Dave:  
davelewis@live.com**

### CENTER STAFF

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University Distinguished  
Professor, Director

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## AN INSPIRING CANCER RESEARCH AWARDEE

Andrew Satterlee visited the center on a mission! After being treated for a brain tumor, this junior (now senior) wanted to apply his training in chemical and biological engineering to cancer research. He had a great research idea, but needed money.

Our director Dr. Rob Denell informed him about the undergraduate Cancer Research Award program.

Andrew was very excited and approached his faculty mentor, Dr. John Schlup, about affiliating with the center, so that he and his two research partners (and roommates), undergrads in mechanical and nuclear engineering, could apply for research funds from the center.

*"The Cancer Research Awards are the only reason we have any money at all to do this project," Andrew said. "We were able to go from a 'what if' scenario of just writing a research paper to actually*

*"As someone who is going to become a professional in the medical research field, I think it helps you find purpose for what you're doing when you've experienced the disease that you're fighting to destroy," Andrew said.*



*being able to get in a lab and find tangible results, thanks to the Johnson Center and its generosity and commitment to K-State students."*

The group's project focuses on boron-neutron capture therapy. When a cancer patient receives radiation, neutrons or other particles are shot through a beam, hit cells, destroying the weak cancer cells. The problem is that healthy cells

become damaged in the process; the use of boron could decrease this risk.

*"But nobody has figured out how to get enough boron to those tumor cells to be effective," Andrew said.* His group is finding a way to attach boron to a stem cell or defensive cell that would carry it to the tumor.

Andrew plans to graduate in spring 2011 and wants to attend graduate school in biomedical engineering. In the future, he sees himself doing cancer research at a medical

research firm, as well as motivational speaking to tell people about his personal battle with cancer. He did a great job speaking at the council meeting last fall and the awards banquet this spring.

Includes excerpts from a story by  
K-State Media Relations, May 14, 2010

## EXCITING PROSPECTS FOR CANCER DETECTION AND TREATMENT

A multidisciplinary collaboration here at K-State is showing enormous potential.

Nanotechnology is experiencing promising research gains and increased interest by National Cancer Institute. Using this technology, small constructs or machines can be developed that will be guided to tumors, allowing for imaging, delivery



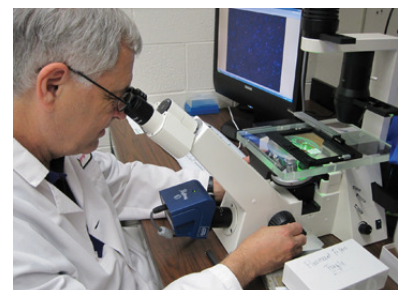
Drs. Bossmann and Chikan working with hyperthermia active nanoparticles.

of drugs and metabolic monitoring.

K-State has a strong nano-technology program and a number of faculty members are applying nano-technology to cancer related research.

One successful collaboration involves multiple departments of both the College of Arts & Sciences and of Veterinary Medicine. Stefan Bossmann, chemistry, leads a group that's working with a group led by Deryl Troyer, anatomy & physiology, to use nano-technology with stem cells.

The stem cells show the ability to home to tumors, and it has been proven in early research



Dr. Troyer working with stem cells.

that without even carrying a cancer drug, they have the ability to reduce the size of tumors.

By using nanotechnology, the stem cells can direct nano-constructs to the tumors where they can then take images of the tumor, treat the tumor and monitor the effect of chemotherapy and other kinds of treatment.

... keeping you informed.