



The Record

The University of Tennessee Health Science Center

January 15, 2004

UTHSC Doctors Testing Blood Substitute

Three UTHSC physicians, Drs. Timothy C. Fabian, Martin A. Croce and Tiffany K. Bee, are conducting a clinical trial study to evaluate the effectiveness and safety of a blood substitute in trauma patients. Part of a national clinical trial with nineteen other trauma center sites, the doctors will use PolyHeme®, an oxygen-carrying blood substitute, in treating severely injured and bleeding patients. In this controlled study, patients meeting the eligibility criteria will be randomly assigned to receive infusions of either PolyHeme® or the current standard treatment, a saline solution. Treatment will begin before arrival at the hospital, either at the scene of the injury or in the helicopter, and continue during a 12-hour post injury period in the hospital.

Under the direction of the Institutional Review Board (IRB), the Elvis Presley Trauma Center at The Med, recently completed the mandatory process of community notification and consultation in connection with the study. As a result, the IRB has officially approved the Trauma Center as a study site, and hospital staff members have completed the necessary training.

“We are pleased that patient enrollment in this pre-hospital trial with a blood substitute may now begin,” said study investigators, Drs. Fabian, Croce, and Bee. “This is a very important study, and it could potentially lead to a change in the initial treatment of critically injured and bleeding patients that might ultimately result in improved survival.”

According to the investigators, PolyHeme® is expected to be the ideal resuscitative fluid to use because it: supports life without donated blood, is immediately available, universally compatible, has a decreased risk of disease transmission, allows rapid and massive infusion, and has a shelf life of more than one year.

Because patients eligible for the study will not be able to provide consent due to the nature of their injuries, the study is being conducted under a federal regulation that provides an exception from informed consent requirements. Individuals wishing to decline participating in the study for religious or other reasons should contact study coordinator, Stephanie Panzer, RN at 448-5714 to obtain a wristband expressing this choice.

Sen. Bryson Visits UTHSC



State Senator Jim Bryson (third from left) recently toured the UTHSC campus to discuss the Centers of Excellence, building needs and general maintenance concerns. Here, he inspects a lab with Dick Gourley, PharmD, dean of the College of Pharmacy, Glenn Hawkins of The Hawkins Group, and Bill Rice, JD, interim chancellor.

BLOOD DRIVES

TUESDAY, JAN. 20

9 A.M. - 4:30 P.M.

OUTSIDE GEB

**SPONSORED BY THE MED.
STUDENT EXECUTIVE COUNCIL
AND LIFEBLOOD**

THURSDAY, JAN. 22

FRIDAY, JAN. 23

8 A.M. - 3 P.M.

FORREST PARK

**SPONSORED BY THE SGA EXEC.
COUNCIL AND THE RED CROSS**

Financial Consultant on Campus

Setting up a long-term financial plan can be a complicated task. Meeting with a TIAA-CREF Individual Consultant can help you sort things out and make informed decisions.

A consultant will be on campus to conduct free individual counseling sessions on February 3-6 from 8:30 a.m. to 5 p.m. in the personnel services conference room.

To sign up for a session, visit <http://www.tiaa-cref.org/moc> or call Michael Odom at (800) 842-2003.

The Record

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Mission Statement

The mission of The University of Tennessee Health Science Center is to improve human health through education, research and public service, with an emphasis on improving the health of Tennesseans.

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UTHSC Announces Second Annual Rice Intercollegiate Bowl

The University of Tennessee Health Science Center (UTHSC) announces the second annual Rice Intercollegiate Bowl to be held from 4 to 6 p.m. on Tuesday, January 27 in room 102 of the Humphreys General Education Building on campus.

Three interdisciplinary teams of students from the Colleges of Allied Health, Dentistry, Graduate Health Sciences, Health Science Engineering, Medicine, Nursing and Pharmacy will compete as they attempt to solve a complex healthcare case. The case is based on a report identifying significant health problems in a fictitious Shelby County neighborhood.

Prior to the competition, teams will be given information and questions about the case in an orientation meeting. They will then present their analyses to a panel of judges, who will provide them with additional information about the case and any questions they may have. Teams will be judged

based on their use of interdisciplinary approaches to solving the case, as well as the completeness and clarity of their responses.

Teams will be asked questions about their analyses by the judges, as well as by a panel of community leaders including: Nancy Lawhead, Special Assistant to the Mayor of Shelby County; Yvonne Madlock, Director of the Memphis/Shelby County Health Department; and Ernestine Carpenter, former principal of Weaver High School. Moderator will be Maria Black, health reporter for Fox-13 News.

Goals of the Bowl are to demonstrate the importance of interdisciplinary thinking among health professionals. The competition is named in honor of Bill Rice, UTHSC Interim Chancellor, and is based on a similar program at the University of Texas – Houston.

For additional information, contact David M. Mirvis, MD, director, The Center for Health Services Research at centerhs@utmem.edu or (901) 448-5826.

Inexpensive Birth Control Available from UHS

University Health Services recently purchased the state discounted supply of birth control pills from the UTMG university pharmacy when it closed. UHS is now able to dispense the birth control pills at the same rate of the university pharmacy for \$10 per pill pack for Triphasil, Ortho Novum 777, Ortho tri-cyclen, Ortho cyclen, Nordette 28, Lo-Ovral, Desogen and Alesse. Ortho Novum 1/35 is also available at the cost of \$15 per pack.

This service is available to all UTHSC students and employees, and we suggest you do the following to take advantage of this benefit.

1. Come to UHS, located on the second floor of Randolph Hall, on Tuesdays or Thursdays between the hours of 11 a.m. and 1 p.m.

2. Bring your standing prescription with you or bring your pill pack with the prescribing information on it so we can refill your prescription. We need to know how many refills you have left.

3. If you want to be changed to one of these above products, please call for an appointment with a provider. Also bring in your standing prescription or your existing pill pack.

4. It would be helpful for you to bring in information on your last pap smear at your appointment time.

SUPPLIES ARE LIMITED AT THESE PRICES!

Contact Peggy Ingram Veaser, APRN, BC, director of University Health Services at www.utmem.edu/univheal/ or 448-5630 with questions.

People

Martin E. Donaldson, DDS, MS, associate professor in the College of Dentistry, recently achieved diplomate status in the American Board of Oral and Maxillofacial Pathology, after having successfully completed the certification exam.

He is also a fellow of the American Academy of Oral and Maxillofacial Pathology.

Frank Williams, MEd, coordinator in the department of family medicine, was recently elected to the Rural Health Association of Tennessee's Board of Directors.

Williams served on the Rural Health Association of Tennessee's founding board in 1994 and held the position of Treasurer.

The Rural Health Association of Tennessee is a non-profit association with a mission to improve the health of rural Tennesseans by providing leadership on rural issues through advocacy, communication, education, and legislation.

In Memoriam

The UTHSC community extends condolences to:

Sue Beasley, accounting assistant in the business and finance office, on the loss of her father, Frank Hall. Mr. Hall was also the grandfather of **Sharon Richardson**, executive assistant in the office of the chancellor.

Barbara Edman, senior administrative services assistant in the department of medicine, on the loss of her father-in-law, Robert Edman.

UTHSC Prof., Students Publish in *Nature*

Tina Izard, adjunct professor in the department of molecular sciences, along with UTHSC graduate students Robert Borgon and Christina Rush, published a study on Vinculin in the Jan. 8 edition of the journal *Nature*.

Vinculin is an essential regulator of both cell-cell and cell-matrix interactions. *Vinculin* also plays a critical role in cancer, where it functions as a tumour sup-



From left to right, Rush, Izard and Borgon

pressor that inhibits cell invasion and metastasis, and in other pathophysiological scenarios, which include wound healing and programmed cell death (apoptosis). The identification of this protein gymnastic mechanism, dubbed "helical bundle conversion," is a crucial step in the understanding of the complexity of the cytoskeleton. Indeed, this molecular hand allows *Vinculin* to expand its repertoire of structures, substrates and functions. The Izard team has now unveiled a new level of regulation that originates from dynamic changes in the structures of proteins, allowing them to expand their biological functions.

Malak Kotb Honored by UTHSC, National Organizations

Malak Kotb, PhD, has been named the A.C. Mullins Professor of Translational Research. She also serves as the director of biodefense research and of translational research. Dr. Kotb earned her doctorate degree in biochemistry and immunology from UT and joined the faculty in 1987 as an assistant professor in the division of infectious diseases. In 1990, she joined the department of surgery to direct the transplant immunology and immunogenetics program. Currently, she is the chair of the NIH's immunological sciences SEG study section, and was asked to chair the newly established host defense and biodefense study section for the National Institute for Allergy and Infectious Diseases. In 2000 Dr. Kotb was asked to serve on a seven-member ad-

visory panel for the Centers for Disease Control Prevention anthrax vaccine assessment and has since been heavily involved in biodefense research at the national level.

Dr. Kotb's paper, "An Immunogenetic and Molecular Basis for Differences in Outcomes of Invasive Group A Streptococcal Infections," was selected among the top 15

publications for 2002/2003 by the Interscience Conference on Antimicrobial Agents and Chemotherapy at their September meeting in Chicago. The paper was also chosen as one of six finalists for the Molecule of the Year award from the International Society of Molecular and Cell Biology Protocols and Researches, Inc. It was first printed in the December 2002 issue of *Nature Medicine*.



Malak Kotb, PhD, speaks at a news conference on UTHSC's plans for a biodefense lab.

News Bites

Stericycle has been awarded the contract for Infectious Waste Removal. The contact person at Stericycle is Brenda Roy at 948-1131. Questions concerning pick ups or changes in pick ups can be directed to Mary Ann Roberts, Radiation Safety, at 8-6114. Questions about the contract can be directed to Vic Crutchfield, Purchasing Services, at 8-7271.

UTHSC has partnered with the O.C. Tanner Recognition Company to offer more options for **Service Recognition Award winners** to order their awards in 2004. Employees with an active e-mail account will receive a reminder to order their award with the subject "University of TN Recognition Award" or "University of TN Recognition Award Reminder." Employees who do not have an active e-mail account will receive an award packet in the mail.

Awards can also be ordered online at <http://www.eawardcenter.com/rb/0000125940/11/> or over the phone at (800) 708-7080.

Employees celebrating years of service in five-year increments (e.g. 5, 10, 15, etc. total years) are eligible for the awards.

WORKSHOP

"Human Subject Protections Programs: The Who, the Why and the How"

Friday, Feb. 6
Coleman South Auditorium
8 a.m. - 12:30 p.m.

Business and Finance News Procurement Card Policy

The procurement card program is a very valuable tool for the University, which saves thousands of dollars and enables departments to easily purchase small-dollar items. Recent audits, however, continue to identify split transactions, missing receipts, and other issues of non-compliance with the program's policies. The department of business and finance has worked with human resources to develop a plan to enforce the rules associated with the program.

First, personal use of a procurement card constitutes theft. In these situations, the user's procurement card will be suspended, the matter will be referred to human resources for immediate action, and these matters will also be referred to the district attorney's office for prosecution in accordance with state law. Second, major violations such as splitting transactions, which is

an intentional violation of purchasing policies and state statutes, or failing to keep receipts will result in a letter to the cardholder's and/or other responsible individuals personnel file(s) noting a failure to exercise their fiduciary responsibilities. A follow-up audit will be conducted within the year, and any additional major violations will result in suspension of the card and a referral to Human Resources for additional disciplinary action.

A Web site devoted solely to procurement card program information can be accessed from the Treasurer's Office site at <http://admin.tennessee.edu/uwa/to/>. Also, fiscal policy on procurement cards is located at <http://admin.tennessee.edu/acs/505a.htm>.

Contact Marion Cox at 448-8469 or Caroline Pacer 448-1435 in the business and finance office, with questions.

Vendor Policy

Individuals within the university are not authorized to establish accounts with university vendors for the purchase of personal items.

"The Internet has made this practice easier to accomplish, and the vendors believe they are doing business with the university instead of an individual," said Mark Paganelli, executive director of audit and consulting services for UT.

These purchases are prohibited by the fiscal policy because sales tax is not

being charged, and the vendors have agreed not to offer wholesale prices to university employees.

"Therefore, we ask that personal purchases not be made with university vendors," said Paganelli.

When an employee is authorized to an account with commercial industry on behalf of a unit or department, university letterhead and departmental supervisor approval are required.

Contact Mark Paganelli or Brian Browning with questions at (865) 974-8611.



Congratulations to CPS/CAP Recipients

UTHSC Training and Development is proud to announce the administrative professionals who passed the November 2003 Certified Professional Secretary Examination and the Certified Administrative Professional Examination.

There were over 40 UT administrative professionals who sat for this three-part exam. Passing all parts of the exam is a major accomplishment since it is given in a 6½-hour format on a Saturday. So join us in congratulating **Pamela Beckley**, administrative services assistant in the Boling Center; **Charlett Golden**, sr. administrative services assistant in the College of Medicine and the Center of Excellence in Vascular Biology; **Michelle Lester**, administrative services assistant in physiology and biophysics; and **Peggy Tate**, administrative services assistant in the College of Medicine, for completing the requirements for the Certified Professional Secretary (CPS) designation.

Carol Lord, Principal Secretary at Family Practice – St. Francis, a current

CPS holder, took the fourth part of the IAAP sponsored examination that now qualifies her as a Certified Administrative Professional (CAP).

There were several participants who passed one or two parts of the exam who also deserve congratulations: **Sherri Jackson**, accounting assistant in physiology and biophysics; **Bessie Hopkins**, sr. budget assistant in facilities administration; **Regina Johnson**, administrative services assistant in human resources; and **Jackie Fountain**, publications specialist in pharmacology.

The Certified Professional Secretary Exam is the top credential for administrative professionals, and The University of Tennessee System recognizes receipt of the certification with a nine percent pay increase to employees in the job areas that qualify.

The next review course for the November 2004 exam will begin in March. Please view the following web link for more details <http://www.utmem.edu/oed/cps.html>.

UTNAA Accepting Award Nominations

Nominations are now being accepted for the 2004 University of Tennessee National Alumni Association Public Service Award. The award recognizes a full-time faculty or professional-exempt staff member who has made significant contributions to the university's public service role.

Submission Deadline January 30, 2004

Nominations should be made to:
UT office of alumni affairs,
520 Hyman or
bmcadams@utmem.edu

For more information contact:
Barbara McAdams
448-5516

Deans and chancellors are not eligible.

Campus Police Emphasize & Improve Safety

The Health Science Center's Campus Police Department is always working to prevent crime and has done a number of things to help toward this goal.

Following are just a few measures undertaken by the department to help keep our campus safe:

- New fencing has been installed on some of the open lots, which restricts traffic.
- Patrol officers have been given fixed posts on or near student lots to provide a presence when students are walking to and from classes.
- New lighting was installed on the flat lots.

- New high intensity lighting has been installed in the Randolph and Pauline parking garages.
- The south gate of the Pauline garage was closed to deter unauthorized access.
- Areas overgrown with foliage are regularly cleared to ensure maximum visibility to the proper authorities.
- Visitor parking is clearly defined and is in unobstructed sight of the Campus Police Office.

Escort Service:

- The department offers an on-campus escort service from sundown to sun-up; just call 448-4444.

Security Systems:

- The installation of alarms, intercoms and card readers is an ongoing process. The number of entrances available in research buildings has been limited, and some are now controlled by electronic entry.
- The campus is equipped with emergency call boxes provided on parking lots and garages. They are also located in and throughout Forrest Park.

Remember, the department is staffed to provide responses to routine and emergency situations, 24 hours a day.

Lab Core Services Available

The Animal Resource Core (ARC), part of the Rheumatic Diseases Research Core Center (RDRCC) funded by the NIH, is a university-wide scientific core located in the UTHSC research area of the VA Hospital. While the focus of this core is to promote research in the rheumatic diseases and especially autoimmune arthritis, a variety of services are available for a nominal fee ranging from flow cytometry to mouse breeding. Basic services performed include:

- **Supply specialized strains of mice for research**

We maintain several specialized strains of mice that can be purchased for your research including T cell transgenic mice, interferon g deficient mice (knockout), HLA-DR transgenic mice, and GFP transgenic mice.

- **Breeding of specialized strains of mice**

We will help you design and manage breeding schemes, including backcrosses and intercrosses, and screen offspring by PCR or immunofluorescence for any transgene or knockout strain required for your research. In addition, we are in the process of setting up molecular genetic screens that will greatly accelerate the backcross process.

- **Arthritis Studies (immunization and scoring)**

We will perform or help you perform experiments using the collagen in-

duced arthritis model. This model is very useful for studies of autoimmunity, inflammatory mediators, and tissue remodeling.

- **Immunofluorescence/Flow cytometry**

We will perform or help you perform multi-color immunofluorescent staining of cells and flow cytometric analyses. Two flow cytometers are available, a FacSort (3 color) and a FacsCalibur (4 color) for your use.

- **Monoclonal antibody purification**

We will propagate and purify monoclonal antibodies.

- **Conjugation of fluorescent molecules to monoclonal antibodies**

Conjugation of monoclonal antibodies with a variety of fluorochromes is available as a service.

- **Multiplexed protein analysis with Bio-Plex/Luminex instrument**

This instrument allows you to quantify as many as 100 proteins in a single 100 µl sample. Kits are available from a number of vendors for measuring Th1/Th2 cytokines, inflammatory mediators, chemokines, and several other classes of proteins using a variety of sample sources.

We will perform these assays for you or assist you in doing it yourself.

For more information about these services call Laura or Nora at 523-8990 ext. 7628 or e-mail us at lmccormick@utmem.edu.

Save \$ Hire Students

Every department is looking for ways to better spend their resources and get the most from what is available. A great way to save money and develop the UTHSC community is to hire work study students instead of regular part-time, temporary help. Departments which currently hire students or other part-time employees can reduce this expense up to 75 percent. Federal Work Study compensates 75 percent of student earnings, while the department is responsible for the other 25 percent. To qualify, employment candidates must be UT students enrolled at least part-time and who demonstrate financial need, as determined by the financial aid office. Currently, there are several hundred students who are eligible, but less than 100 students actually earning work study dollars. Departments interested in creating a Work Study position should contact Sean P. McGivney, director of financial aid, at 448-5568 or smcgivney@utmem.edu.

UTHSC COLLEGE OF NURSING PRESENTS

Lecturer Martha Hill, PhD, RN, FAAN

“Unequal Treatment: Confronting Racial and Ethnic Disparities in Health Care”

Thursday, Jan. 29 from 10 - 11:30 a.m.

Coleman Building South Auditorium

For more information contact Missy Robinson at 901-448-6407



Get Fit in '04

Have you committed to living a healthier lifestyle in the new year but can't bring yourself to get back on another stairmaster?

You're in luck!
Campus recreation offers classes in pilates, rock climbing, kayaking, salsa and ballroom dancing, yoga and many more options.

Contact Regina Sims at 448-5069 for more information.

Minutes/Policies

The University of Tennessee Health Science Center

Faculty Senate Roundup

Approval of Minutes: A motion was made and seconded to approve the Nov. 11, 2003 minutes without revisions or corrections. These minutes will be forwarded to *The Record* and the Faculty Senate web master for publication.

Announcements: In the absence of Senator George Cook, President Mansbach made the announcement that the Faculty Research Committee would meet on December 18, 2003.

Committee Reports:

Budget and Benefits:
None.

Computing and Telecommunications: Chairman Russell gave the following report:

On Tuesday December 2 there was a joint meeting of the Faculty Senate Executive Committee and Committee Chairs, as well as the Chancellor's Administrative Council. This meeting focused on the security of our campus computing systems. Outside consultants from Pomeroy Computing presented their findings from their tests of our computing systems. To be secure, our computing systems need additional investments of hardware, software, and personnel. Although this initiative will have financial implications, those present at this meeting agreed that there needed to be attention to computing systems security.

The position for a campus CIO has been approved, however, the position has not been posted and there is no active recruitment for any individual to fill that position. It is unclear what the timeline is for filling this vital campus position.

Intellectual Property Sub-Committee: Senator Nollan stated that basically the IP committee's work was completed this summer when the Board of Trustees approved the revised Intellectual Property policy.

He is working with various people including the Educational Policy Committee to develop a web page for the IP Resources.

Library Advisory Committee Liaison: Senator Nollan reported that the library now has a subscription for Bio-Med Central. In addition to online articles that will be available, anyone from our faculty that would like to submit a paper for publication to one of Biomed Central's peer reviewed journals, will have the \$500.00 fee waived. He also reported that the library now offers 1300 e-journal titles, of which more than 800 have been added in the last two (2) months.

Educational Policy: Senator Suttle gave the following report: Upon the charge of the Senate, the Educational Policy Committee has formed a task force, chaired by Richard Faris, to further look into the criteria for granting Honorary Degrees. We should have a report to the full Senate by February or March 2004.

Senator Suttle said he thought everyone had received an e-mail from Peg Hartig concerning Interdisciplinary Activities. We are trying to get an idea of the Interdisciplinary Activities that are planned or already in place on campus. We want to focus on things that are the most productive. If you know of anyone that knows of any Interdisciplinary activity that is ongoing, please contact Peg.

Nancy Hardt is working on the Chancellor Hour, which will probably take place in August/September 2004 on Thursdays, noon to 2 p.m.

Faculty Affairs: Senator Bhattacharya stated that the Faculty Affairs Committee met with Dr. Palazzolo at the meeting held on December 4, 2003. Dr. Palazzolo gave the committee an outline of the Sabbatical Policy, and asked them to review and discuss it. Dr. Palazzolo also asked the committee to submit to him their input on additions, deletions, etc., to see if the policy can be revised.

Dr. Palazzolo would be happy to come and talk to the full Senate concerning the sabbatical policy and base salaries.

Faculty Communications: Senator Nutting gave the following report and presentation: Our committee met with Vice Chancellor Odell Horton concerning existing policy on legislative and government contracts. Vice Chancellor Horton understood what the problems were and urged us to get proposals to him for review. After reviewing and determining what was appropriate, he would push the revised policy through the proper channels to have them made into policy. He requested we get the proposals to him within a week or two so, should revisions need to be made, they could be in place by the next legislative session, which will be in January.

Senator Nutting gave a brief presentation on the suggested changes, which have been given to Vice Chancellor Horton.

Senator Nutting asked that anyone who wished to read a copy of specific changes recommended to the UT administration notify him via e-mail.

Faculty Research: None

Legislature Resource Group:
None



Campus Calendar

JANUARY 15 - FEBRUARY 15 2004

January

- 22&** SGA Exec. Council & Red Cross Blood Drive
23 8 a.m. - 3 p.m.
Forrest Park
- 23** “Molecular Pathogenesis of Pneumococcal Disease”
Dr. Elaine I. Tuomanen
3:30 p.m., U of M Engineering Admin. Bldg. Auditorium
- 24** HCOP Saturday Science Academy
8:45 a.m., GEB
- 26** “Molecular Genetic Dissection of the Eukaryotic mRNA Gene Transcription Machinery”
Dr. Tony Weil
4 p.m., Link Auditorium
- 27** “Empathy: Handling Fussing and Fits”
LaWanda Allen
Memphis Main Library, 3030 Poplar Ave.
Meeting Room C
- 2nd Annual Rice Intercollegiate Bowl
4 p.m., GEB, Room A102
- “Stemming Vision Loss with Stem Cells”
Dr. Martin Friedlander
Noon, Link Auditorium
- 29** “Unequal Treatment: Confronting Racial and Ethnic Disparities in Health Care”
Dr. Martha Hill
10 a.m., Coleman South Auditorium
- 30** “Constrained Imaging: From Fourier Series to Basis Pursuit”
Dr. Zhi-Pei Liang
3:30 p.m., U of M Engineering Admin. Bldg. Auditorium

UTNAA Award Nomination Deadline

February

- 3** “Inhibitory Local Circuits in the Olfactory Bulb”
Dr. Ben W. Strowbridge
Noon, Link Auditorium
- 4** “Update on the Spondyloarthropathies”
Dr. Clement J. Michet Jr.
8 a.m., Coleman North Auditorium
- 5** Pre-Hospital Response to Radiation Emergencies
Wm. Mark Hart
11:30 a.m., GEB, Room A304
- 6** “Mechanisms by which Perfusion Therapy Prior to Defibrillation Increases Cardiac Arrest Survival Rate”
Nicolle Kramer
“Drug Efflux Transporters in Systemic and CNS Disposition of Topotecan”
Mark Leggas
3:30 p.m., U of M Engineering Admin. Bldg. Auditorium
- “Human Subject Protections Programs: The Who, the Why and the How”
8 a.m., Coleman South Auditorium
- 9** “Regulation of Transcription in the Nucleolus”
Dr. Lucio Comai
4 p.m., Link Auditorium
- 10** “An Enigma Cloaked in a Mystery Surrounded by a Conundrum”
Dr. Mark S. LeDoux
Noon, Link Auditorium
- 11** Preventive Medicine Seminar Title TBA
John E. Midtling
10 a.m., Doctor’s Office Building, Room 400
- “Celiac Disease: A New Look at an Old Disease”
Dr. Joseph A. Murray
8 a.m., Coleman North Auditorium
- 13** “Bioprosthetic Heart Valve Design and Anticalcification Treatments OR Spinal Allograft Safety”
Dr. Jeffrey Gross
3:30 p.m., U of M Engineering Admin. Bldg. Auditorium