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Spitznagel wins prestigious mathematics award

By TONY FITZPATRICK

Edward L. Spitznagel Jr., Ph.D., professor of mathematics in Arts & Sciences, has been named recipient of the Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics.

The award is given by the Mathematical Association of America (MAA) and is considered to be one of the organization’s most prestigious awards.

Spitznagel will attend a special prize session Jan. 7 in San Diego, where he will be honored by MAA and give a short talk on teaching.

“This award of the MAA is perhaps the most prestigious math teaching award in the country,” said Spitznagel. “It is remarkable that Ed richly deserves it,” said Steve Krantz, Ph.D., professor and chair of mathematics. “We all extend our hearty congratulations to Ed Spitznagel for bringing this honor both on himself and on our department. The fact that Frank Haimo taught in our department for many years and that Debbie Haimo taught at the University of Missouri-St. Louis makes the recognition that much more special.”

In 1991, the MAA instituted awards for distinguished college or university teaching of mathematics in order to honor teachers who have been widely recognized as extraordinarily successful and whose teaching effectiveness has been shown to have had influence beyond their own institutions. In 1995, the MAA Board of Governors renamed the award to honor Deborah and Franklin Tepper Haimo; Deborah Tepper Haimo taught in the department and whose family successfully establish the award to honor1.

Spitznagel: Haimo award winner

Spitznagel, who earned a bachelor of science degree from Xavier University and his master of science and doctorate in mathematics degrees from the University of Chicago, is in his third year with Washington University’s Department of Mathematics, having joined the faculty in 1969 as associate professor.

From his first year, Spitznagel has changed and improved most of the courses he has taught, resulting in tremendous increases in enrollment. His transformation of the elementary statistics course, for example, increased enrollment from about 15 students his first year to nearly 300 and led to the development of five new, more advanced statistics courses.

In addition to his teaching, Spitznagel has also contributed to the quality of education in the University at large. Since the early 1970s, he has worked with admissions directors on analyzing student applicant data in an effort to maintain the high-quality student body, and in the mid-1970s he helped to resurrect and restructure the course-evaluation system. Also, he proposed a project that led to automatic student access to the University’s computer mainframes.

Spitznagel consults nationwide on educational, statistical and social issues and incorporates his broad knowledge base into his teaching.

The MAA award citation in part reads: “Ed Spitznagel packs his lively lectures with real-world applications; students regularly overshoot

933 arrives at Hilltop Campus

New telephone number for Faculty has been added to the University telephone system. In addition to the 935 prefix numbers used around the Hilltop Campus, there are now 933 prefix telephone numbers. The 933 numbers, currently used in the Charles F. Knight Executive Education Center and Small Group Housing, were created because there are no remaining large blocks of 935 numbers.

“With all of the new housing, areas and facilities on campus, we did not have the capacity necessary with the 935 telephone numbers,” said F. William Ocola, director of communications for telephone services.

Members of the University community on the Hilltop Campus will still be able to make phone calls using five digits, either 5-XXXX or 3-XXXX depending on the prefix.

— Jessica N. Roberts

Award. Page 6

Former FBI, CIA director Webster first of 11 lectures on fall schedule

Former FBI and CIA director — and University alumnus and emeritus trustee — William H. Webster will deliver the first of 11 fall 2001 Assembly Series lectures.

Webster will speak Wednesday. Unless otherwise indicated, all Assembly Series events take place at 11 a.m. on Wednesdays in Graham Chapel and are free and open to the public.

After serving as a deck gunner in the Navy during World War II, Webster joined a St. Louis law firm. He left private practice in 1959 to become U.S. attorney for the Eastern District of Missouri. He serves now as a member of the Missouri Board of Law Examiners.

In 1970, Webster was appointed a judge of the U.S. District Court for the Eastern District of Missouri, and in 1973 he was elevated to the U.S. Court of Appeals for the Eighth Circuit.

Five years later, Webster rejoined the judiciary to head the FBI. In 1987 he was sworn in as director of central intelligence, heading the CIA until his retirement from public office in 1991.

Since then, Webster has practiced law at the Washington, D.C., firm of Milbank, Tweed, Hadley & McCloy, where he specializes in arbitration, mediation and internal investigations.

For his distinguished service, Webster has received numerous honors and awards. In 1972, the University granted him the Alumni Citation for contributions to the field of law, and in 1981 he received the William Greenleaf Eliot Award. The School of Law has honored him with the Distinguished Alumnus Award and with the establishment of the Webster Society, an outstanding scholars program.

In 1988, the St. Louis Globe-Democrat named "Man of the Year." In 1991, Webster has received numerous awards for public service and law enforcement and holds honorary degrees from several colleges and universities. In 1991, he was presented with the Distinguished Intelligence Medal, the Presidential Medal of Freedom, and the National Security Medal.

The native St. Louisan received his early education in Webster Groves; he earned a bachelor’s degree from Amherst College in Massachusetts in 1947 and a law degree from Washington University in 1949. He is a member of the Soror Series. Page 6


See Award. Page 6
Technologists discuss software trends, research model

By Tony Fitzpatrick

In the middle of the balloon race at the University, the campus had visitors from the inventors of the source code. No, they weren't from Al Gore's office, rather from the Massachusetts engineering research and consulting firm of BBN (the does not make this Newman). BBN is credited with coining the term ARPANET, which eventually grew into the Internet, for the Department of Defense Agency, AFAPL, which provides DARPA (Defense Advanced Research Projects Agency). They weren't here to take any credit or settle that old argument. Instead, they joined about 90 other engineers, computer scientists, businesspeople and students from around the world who met for two days to share knowledge about one of the most dynamic and instrumental type of middleware software package called TAO (pronounced "dow").

The workshop was called "The First Workshop on the ACC ORB (TAO)." TAO was invented here by University of California, Irvine (UCI), and is currently serving as an official with DARPA. TAO is maintained and extended by a research consortium consisting of the Laboratory for Distributed Object Computing, headed by Schmidt at UCI, and the Washington University computer science department's Center for Distributed Object Computing, headed by Ron Cytron, Ph.D., associate professor of computer science.

TAO is freely available to engineers worldwide in a research arrangement called "open source." Open-source has no license fees and allows users to freely copy TAO from the center's Web site onto all their systems. It also shares information about its design and implementation, conventional commercial software typically does not. There is also a community of users designed and implemented. Conventional commercial software usually does not provide information about its design, which provides information about its design and implementation. Conventional commercial software typically does not.

According to workshop coordinator Chris Gill, assistant professor of computer science, "meeting in St. Louis is becoming a trend in the department."

"We had a summit on distributed systems middleware in May and then this one in August," Gill said. "It's a great workshop to touch base with the use of our software and for us to learn what the users are doing. We find our way our reputation grows and people know what a resource we are. Being in the middle of the country is an advantage — it cuts our attendance in half for the overall."

While it would seem that the University of California at Los Angeles science department stand to gain from the open-source software that has greatly enhanced the membership's productivity worldwide. The University has a local partner, Object Computing Inc. (OCI) that, through innovation, marketing, training and consulting, has helped make the TAO software more adaptable and available worldwide.

"Open-source has brought University of Washington research into many different applications," Gill said. "Open-source attracts the kinds of users that actually have great tools. In the software, it shows the массовьне down the road. People work because they are competing with very small companies that are operating with huge machines.

Gill said that while TAO has grown substantially since its initial implementation in the late 80s, a new goal is to push TAO and other middleware into very small devices that come under a new DARPA research program known as networked embedded sensor technology (NEST).

"We have to see how much we can strip away from TAO and still have the essential features of TAO that allow researchers to do the communications that they want," Gill said. "One of the functions of the workshops this year is to get a handle on the precise things people are trying to do, and that will guide our research and push TAO forward as we can.

Gill said that TAO is a language, NEST, other new directions for the center, such as real-time performance, fault recovery and systems over optical fibers. "The combination of these three things is exactly what "Middleware provides a software framework called the ADAPTIVE Computing Environment (ACE) that shields TAO and the application developer from operating system differences so that applications can be written on any kind of operating system. TAO supports and is built out of operation, a software framework that comprise multiple cohesive functions and data.

TAO harnesses objects that allow application developers to re-use or re-use common software components to develop distributed applications. TAO has made its biggest impact by releasing open-source applications such as lighter aircraft, air traffic control, process control systems, medical imaging acquisition, and multimedia such as telecommunications.

Accordingly, variable industry giants such as Boeing, Siemens Medical Instruments, Lockheed Martin, Bell Laboratories and Lucent are TAO users who had representatives at the workshop.

"We had a summit on an incredibly fast speed, and they rely on TAO for real-time behavior," Gill said. "If they miss a packet or the software is slow they machine down and they failed that because they are competing with very small companies that operate with huge machines.

"Five students devoted three things is exactly what Spark is info central employees. They spent the weekend exploring the great city of St. Louis activities. Trying to find a place to eat, check out a concert or explore the great city of St. Louis should not be such a challenge. So that, the University has introduced a new Web site, "Spark" (www.spark.wustl.edu), officially unveiled Aug. 24. The site covers events and activities available to University students on and off campus.

"I think this Web site is going to be a valuable resource to the campus community," said James E. McLeod, vice chancellor for student affairs and dean of the College of Arts & Sciences. "We want students to be aware of, and to take advantage of, all the opportunities on and off campus. I hope they will make use of it."

Through its "Extension Cord" link, the site is a central location for events and activities available to students on campus and in the St. Louis area, including concerts, the arts, restaurants, transportation, theaters, festivals and student services. Students groups are encouraged to advertise their events on Spark.

"A link is provided to the Office of Student Activities calendar, which is indexed and searchable and printable by seat. A link to the University's main calendar is included. There is also a list of frequently asked questions where visitors can learn more about Spark or post information on the site, along with additional information about Spark.

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Volunteers needed for prostate cancer prevention study

Researchers in the Division of Urology are recruiting men participating in the largest ever prostate cancer prevention study. The study will evaluate whether the dietary supplements selenium and vitamin E prevent prostate cancer, the second most common cancer in men.

The University is one of 400 sites in the United States, Canada, South America, Central America, the Caribbean, Central Europe, South Africa, and Australia. There are currently 12,000 men participating in the study, which will take up to 12 years to complete. The study, funded by the National Cancer Institute, will include 32,400 men.

Researchers at the University of Pittsburgh School of Medicine, led by David H. Perlmutter, M.D., Ph.D., the study’s principal investigator, and a team of investigators at the University’s School of Medicine, will lead the study until 2002. The study will be continued by Urologic Cancer Prevention Trial (SELECT), which will take up to 20 years
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Lazar launches fall reading series

Lazar authors novel "The Noisy Neighbors," which is a humorous and insightful look at life in New York City. The novel is a New York Times bestseller and has been optioned for a major motion picture. Lazar is known for his ability to balance humor and serious themes in his work, and his previous novels have been praised for their unique perspectives on modern life.

Exhibitions

"Al Parker: Innovator in American Illustration" showcases the work of Al Parker, a highly influential illustrator known for his creative and innovative approach to illustration. The exhibition features more than 150 works, including original paintings, prints, and drawings, that highlight Parker's contributions to the field of American illustration. The exhibition runs from September 1 to October 31 at the Olin Library, Hilltop Campus. For more information, visit the Olin Library website.

Lectures

Friday, Aug. 31

Roan. Art lecture: "Frida Kahlo: Arranging the Archive: A Cultural History of the Artist's Life" with productivity expert Sarah Calhoun. The lecture will take place in Steinberg Auditorium, and is free and open to the public.

Saturday, Sept. 2

3 p.m. Black History Month lecture: "From Slavery to Freedom: The Struggle for Civil Rights" by Dr. John Lewis. The lecture will be held in Steinberg Auditorium, and is free and open to the public.

Wednesday, Sept. 6

6 p.m. Interdisciplinary lecture: "What Can the Humanities Teach Us About Medicine?" with Dr. Susan E. Hackett. The lecture will be held in Steinberg Auditorium, and is free and open to the public.

Thursday, Sept. 7

6 p.m. Physiotherapy lecture: "The Role of Physiotherapy in the Management of Chronic Pain" by Dr. Jane Smith. The lecture will be held in Steinberg Auditorium, and is free and open to the public.

Tuesday, Sept. 12

6 p.m. Philosophy lecture: "Ethics in End-of-Life Care" by Dr. John Doe. The lecture will be held in Steinberg Auditorium, and is free and open to the public.

And more...

Thursday, Sept. 6

6 p.m. Writing Program Reading Series. "The Art of Writing" by Dr. Jane Smith. The event will be held in Steinberg Auditorium, and is free and open to the public.

Thursday, Sept. 13

6 p.m. Institute for Molecular Biology and Microbiology Peacocking Seminar Series. "The Role of Bacterial Flagella in Pathogenesis" by Dr. Jane Smith. The seminar will be held in Steinberg Auditorium, and is free and open to the public.

Music

Thursday, Sept. 6

8 p.m. "The Pearl" at the Armory. Music for the World. The event will be held at the Armory, and is free and open to the public.

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5 p.m. Women's soccer vs. Princeton. The event will be held at the Armory, and is free and open to the public.

September 1, 2007

Lazar: "The Noisy Neighbors" launch reading series

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By Jessica N. Roberts

The Legal Education and Research Institute (LLI) of University College in Arts & Sciences will host its first Fall Address and Open House from 1 to 4 p.m. Sept. 7.

The free event will feature a lecture titled "The Economics of Ineligible With Age" by John C. Morris, M.D., the Harvey A. and Dorris Mae Harker Friedman Professor of Neurology in the School of Medicine. The address will be held in Room A/B in the lower level of the West Court Conference Center; reservations are required.

Morris, who is also the co-director of the Alzheimer's Disease Research Center and the director of the Center for Aging, the Memory Diagnostic Center and the Memory and Aging Project, researches the various avenues to detect and improve treatments of Alzheimer's disease.

"The economic costs of dementia are quite significant," Morris said. "We estimate that in my lifetime, I'll be spending $6 million to $7 million to care for my parents. I also have a daughter who has a similar predicament in caring for her elderly parents."

As for the national picture, LLI's newest program, "Finding Your Way to the Best University: A College Search Program," will be held Sept. 7 at 5 p.m. at the Missouri Historical Society. The program is open to all who are considering college and will be conducted by LLI associate director Mark Diemer. For more information or to make reservations for the address, call Diemer at 935-4237.

Law school applications leap 32 percent

By Ann Nicholson

The 225 first-year law students who began classes last week were gleaned from a record 1,850 applications. The school's 2,440 applications for fall enrollment were up about 32 percent from last year's 1,850 applications.

"Our success and growth in offering first-year students such a broad array of courses has been phenomenal," said Richard Diemer, director of LLI. "We have nothing but thanks for the University for being so supportive. They've provided a wonderful full-time faculty for this program." He added that the law school's reputation is consistent with the school's "student-centered" philosophy.

"The Evolution of Missouri: From Colonial and Territorial to Statehood" and "Writing for Your Children's Children." For more information about the event or the institute, or to make reservations for the address, call Diemer at 935-4237.

For more sports information, go to beauposts.wustl.edu.
Have a seat—RE-POSE, by Linda Horsey, is in the southwest corner of Brookings Quadrangle. The University sponsored the piece, which is part of "The People Project," an initiative that features figures fashioned by local artists from site-size bendable mannequins and "adopted" by sponsors. The People Project was produced by the St. Louis Regional Arts Commission and FOCUS St. Louis to promote and support the arts in the St. Louis area. The "People Projects" are on display through September throughout the St. Louis region.

**Series**

**Full schedule starts Wednesday with Webster—** read on Page 1.

American Bar Association, the Council of the American Law Institute, Order of the Coif, the Missouri Bar and the Metropolitan St. Louis Bar Association.

Additionally, he served as chairman of the Corporation, Banking and Business Law Section of the American Bar Association. He is a fellow of the American Bar Foundation and an honorary fellow of the American College of Trial Lawyers.

**Winter and art critic Dave Hickey will give a talk for the Assembly Series Sept. 12. An important essayist and novelist in the art world, Hickey is the author of two books of critical essays, "The Invisible Dragon: Foucault Essays on Beauty" and "Air Guitar: Essays on Art and Economics," and numerous articles that have appeared in many American publications such as Rolling Stone, Harper's and Vanity Fair. Hickey is the former executive editor of Art in America and currently he teaches art criticism at the University of California in Berkeley. "Miami Vice" star Don Johnson has written a foreword to Hickey's latest book, "Writing and Rewriting the Holocaust." In 1994, he chaired the Young investigators study at the University of Minnesota and also teaches English at the University of Massachusetts Amherst.

For more information, call 955-2527 or visit the Assembly Series Web page at wupa.wustl.edu/assembly.

**Employment**

Use the Word Web site to obtain current job descriptions. Go to https://word.wustl.edu (Hilltop) or http://career.wustl.edu/ (Medicine) for additional job opportunities.

**Hilltop Campus**

Information regarding Hilltop Campus job openings is available in the Office of Human Resources, Box 1172, 1 Brookings Drive, St. Louis, MO 63130, phone 368-8766, fax 368-8769. In addition, Hilltop positions may be obtained in the Office of Alumni & Development, 1 Brookings Drive, St. Louis, MO 63110, or online at http://www.wustl.edu/assembly.

"... our whole department knows that Ed richly deserves it."

**Spitznagel award winner of prestigious MAA award — Page 1**

scribes his courses. He applies statistics to research in many fields and uses his expertise in developing new teaching materials. He makes innovative use of the computer in his classroom.

With remarkable energy, Spitznagel collaborates with investigators in such diverse fields as medicine, pharmacology, marketing, engineering and psychology. His breadth of scholarship and his feeling for the practical finds immediate application in his teaching. In fact, he combines his research and teaching seamlessly. In Spitznagel's own words, "Because what I publish addresses problems in the world, there is no problem bringing it to the classroom."

"Here is one example of his approach. When the department decided to create a calculus pre-test for poor students, Spitznagel devised a course based on research in pharmacokinetics that introduces students to both statistical and calculus techniques in medicine. It has been received enthusiastically both by students and their pre-advisers." Spitznagel has been the recipient of student recognition on several occasions. His work also received the Council of Students in Arts & Sciences teaching award three times, in 1979, 1987 and 1993, as well as having received the 1960 Hesketh Prize.

In 1989, he received a faculty achievement award from Burlington Northern Foundation for outstanding teaching and contributions to undergraduate education. In 2000, Spitznagel received the MAA-Missouri Award for Distinguished Teaching.
Notables

Introducing new faculty members

The following are among the new faculty members on the Hilltop Campus. Qualities will be introduced periodically in this space.

Raymond T. Sparrowe, Ph.D., is professor of organizational behavior in the Cox School of Business. He comes from Cleveland State University, where he was assistant professor of management and labor relations. Sparrowe's research interests are social networks and the performance of individuals and groups, the effects of social systems on exchange on employee empowerment, and empowerment and management in the hospitality industry. Sparrowe earned a bachelor's degree in psychology in 1971 from the University of California, Santa Barbara, a master of business administration degree in 1989 from the University of Oklahoma and a doctorate in organizational behavior in 1991 from the University of Illinois at Chicago.

Tat Y. Chan, Ph.D., assistant professor of marketing in the Cox School of Business, comes from Yale University, where he taught in the department of economics. Among his research interests are international organization, applied economics, applied microeconomics and marketing in the soft drink industry. Chan re-earned bachelor's (1992) and master's (1994) degrees in economics from the University of Hong Kong, and a master of arts degree (1998), a master's degree in philosophy (1999) and a doctorate (2001) from Yale.

Alexander David, Ph.D., assistant professor of management in the Olso School of Business Administration, comes from the Federal Reserve Board in Washington, D.C., where he served as a research analyst since 1995. David's research interests include long-term bond prices, business-cycle risk, stock market returns, organized labor, inflation and earnings. He earned a bachelor's degree in economics with honors in 1988 from St. Stephen's College of the University of Delhi, India; a master's degree in economics in 1989 from the University of North Carolina at Greensboro; and a doctoral degree in economics in 1994 from the University of California at Los Angeles.

Angela K. Davis, Ph.D., assistant professor of accounting in the Olso School of Business, comes from the University of Washington, Seattle. She teaches financial accounting, managerial accounting and financial statement analysis. Davis' research interests include the impact of accounting information on capital formation and the role of accrual accounting disclosures on capital markets. Her research interests also include the role of accrual accounting disclosures in the accounting choices and evaluation of performance and financial statements forecasts and recommendations. Davis earned a bachelor's degree in science in business in 1987 from the University of Idaho and a doctorate in accounting in 2001 from the University of Washington's business school.

Speaking of


Pratim Biswas, Ph.D., the Stifel and Quintone Jens Professor of Environmental Engineering, gave the plenary talk at the International Nanoparticle Symposium held in July in Kyoto. The title of the talk was "Nanostuctured Titaemia Powders and Fibre Development Challenges." Biswas also organized a National Science Foundation workshop on nanoparticles, also in July in Kyoto. In addition, he has received a $60,000 Environmental Protection Agency contract for his study, "Flame Synthesis of Nanosructured Titanium Dioxide Films and Construction of an Effective Light Distribution Reactor.""
Jahnige gets a hazy view of the steam vents in Hawaii's Volcano National Park.

tet 15, Katherine Jahnige was in Mexico on a trip with her Girls Scouts, and she learned a lesson she's never forgotten.

One morning, she and the other girls woke for breakfast to find an entirely different seating arrangement. A few girls at a table labeled "First World," which held cereal, juice and rolls — "the entire American breakfast," but no more. Jahnige was seated at the large, "Third World" group. These girls sat on mats on the floor, and the food was given a handful of rice from a pot.

"That was all the food we got until lunch," Jahnige said, "and we left to deal with it." What struck her was how the "First World" girls seemed self-centered, "and even their abundance," but it didn't occur to them to share with the rest of us.

"That trip to Mexico and that event in particular, sensi-
tified me as to how wealthy we are and how much economic inequality there is in the world." Travel, mixing with other cultures, enlighten for the poor.

and a drive to help the disadvan-
taged are recurring themes throughout her life. "I was a child of Katherine Jahnige, M.D., commu-
nity outreach coordinator for the Alvin J. Siteman Cancer Center of Washington University in St. Louis. A master's degree in public health.

Jahnige, a specialist in obstet-
rician and gynecologist, is working to increase the diversity of people participating in programs and offered by the Siteman Cancer Center. She works particularly closely with the African-American community to build ties, establish trust and improve understanding.

Her role is a mix of interactions with groups and individuals at the University and in the St. Louis community. She directs the Witness Program, a faith-based program for women with breast cancer that is sponsored jointly by the cancer center and Barnes-Jewish Hospital.

She also helps uninsured women with breast and cervical cancer work with those communities to explore cultural perceptions of risk, genetic difference and genetic testing.

"Katherine is doing a magnifi-
cent job," said Timothy J. Eberlein, M.D., director of Siteman Cancer Center and the Spencer T. and Ann W. Olitski Distinguished Professor at the medical school.

"She has built critical relationship-
s with many diverse groups in our community so that the Siteman Cancer Center is truly a resource for the entire community. In addition, she is studying why some populations of patients do not participate in screening and other programs so that we can reach those communities more effectively."

T IMOTHY J. EBERLEIN

Katherine Jahnige, M.D., increases the diversity of people participating in the Siteman Cancer Center's services and programs.

By D ARRELL E. WARDO

Katherine Jahnige, M.D. (right), talks with fourth-year resident Barbara Buttin, M.D., about preoperative management for a patient with severe anemia.

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Jahnige is particularly proud of the Breast Health Seminary in New York City, where she earned a master's degree in biblical studies. She focused on reading portions of the Bible in Hebrew and Greek. The experience demonstrated, as she once told her mentor, "how one chooses a word influences the nuances of a message, especially when that message is being conveyed from one culture to another.

Jahnige then entered Harvard Medical School. At the end of her fourth year of medical school, she decided to stay on for a master's in public health. She returned from a volunteer project in Mississippis and joined the Breakfast Club — both of East St. Louis.

"I meet amazing people who told me how much this is helping them, and how remote possibilities. Everyone in a while a person goes through something like this surgery might have a complication..." Jahnige is particularly proud of a day planner she and health-activist friends have designed to provide health and screening information to African-American women in East St. Louis. "We worked hard to frame health messages in a way that was inviting, informative and encouraging," she said.

Artwork for the book was provided by the Jack J. Blacker Trust, and Kenne Boys and Girls Club, and inspirational writing came from the Eugene B. Redmond Writers Club — both of East St. Louis. Jahnige finds her work "extremely rewarding.

"I've met amazing people who have been through real-life struggles and have come out of them with a profound wisdom," she said. "Many of those cancer survivors have become important role models for me. They've shown me what really matters in life."