Shapiro to lead School of Medicine

Succeeds Peck as executive vice chancellor for medical affairs, dean

By Kimberly Leiding

Larry J. Shapiro, M.D. — an internationally renowned research geneticist and pediat-rician associated with the University of California, San Francisco, School of Medicine — will become Washington University's executive vice chancellor for medical affairs and dean of the School of Medicine July 1, according to Chancellor Mark S. Wrighton.

Shapiro, who will succeed William A. Peck, M.D., who last year announced his intention to retire as dean and executive vice chancellor, effective June 30, 2003.

Peck — a worldwide oste-oporosis expert and recognized leader in public policy issues related to academic medicine — was the first person to serve as both medical school dean and executive vice chancellor for med-ical affairs, a dual appointment he has held for 13 years. Peck will lead an effort to establish a center for health policy at the University, and he will con-tinue as the Alan A. and Edith L. Wolff Distinguished Professor in Medicine.

"I am delighted that a person of Larry Shapiro's stature and experience will assume the role of executive vice chancellor and dean of one of the world's leading schools of medicine," Wrighton said. "He is an accomplished teacher, a groundbreaking scientist and a strong administrative leader. I know he will build upon our strengths in biomedical research and clinical care, and upon the progress made under the leadership of Bill Peck."

Shapiro's appointment was endorsed by the Board of Trustees at its Dec. 6 meeting. (See story, Page 2.) The search committee that recommended him was chaired by Richard H. Garber-man, M.D., the Fred C. Reynolds Professor of Orthopaedic Surgery.

The University will name a new custodial services sponsor.

Washington People: Irene E. Karl moves easily from scientist to teacher at mother.
WASHINGTON UNIVERSITY IN ST. LOUIS

Computer science reorganizes to include computer engineering

BY TONY FITZMURPHY

A fter July 1, the Department of Computer Science has assumed complete responsibility for all computer-engineering programs in the School of Engineering & Applied Science. The reorganization also enabled a name change to the Department of Computer Science and Engineering. The renamed department continues to offer its full range of educational opportunities in computer science while providing the same range of programs in computer engineering as well.

Professor Greg Canlin, Ph.D., who chaired the computer science department, now serves as chair of the Department of Computer Science and Engineering. The University’s computer-engineering program, which dates back to the late 1970s when it was a joint program in electrical and computer engineering and computer science, studies the relationship between hardware and software and related-systems-level concerns that arise in the design, development, and application of computers. The primary educational goal of the program is to provide students with a solid knowledge about the process of designing modern computer systems. As part of the reorganization, three computer engineering faculty members who previously had appointments in the Department of Electrical Engineering have joined the Department of Computer Science and Engineering. They are associate professors Roger D. Chromik, D.Sc., William D. Richard, Ph.D., and Frederick U. Rosenberger, D.Sc., Mark A. Franklin, Ph.D., John J. Chalmers and Ingram Professor of Engineering, who for many years held a joint position in electrical engineering and computer science and was instrumental in establishing the computer engineering program at the University, is now a full-time faculty member in the newly named department.

Keeping children warm

Rebecca Fierberg, a first-year student in the George Warren Brown School of Social Work, works with Frieda Topfer (left) and Gret O’Neill, members of a knitting group formed at the Crown Center for Senior Living, a residence for low-income seniors. The group, formed as part of Fierberg’s practicum studies, makes hand-knit and hand-crocheted blankets to be donated to Project Linus, a nationwide organization that provides blankets to children in need.

Shaping the Future

Picturing Our Past

The University has a rich tradition of bringing in some of the finest musicians in the world for performances or teaching positions. Several entertainers, including Ray Charles (above) in the 1950s, performed either at the University or at student events over the years. Duke Ellington performed at Brookings Quadrangle in the 1960s and also received an honorary degree; Doc Severinsen, Wynton Marsalis and Andres Segovia also have given notable performances at the University. Noted conductor and composer Aaron Copland was a visiting lecturer in the Department of Music in Arts & Sciences in the 1960s, and the Saint Louis Symphony Orchestra provided the music for Arthur Holly Compton’s 1946 installation as chancellor. Other performers who have made stops at the University include R.E.M., Warren Zevon, Laurie Anderson and the Peking Opera. This year, Edison Theatre is celebrating its 30th anniversary with a standout CHATFIELD! Series lineup, which will bring several more accomplished musicians and performance artists to the Hilltop Campus. For a schedule, go to edisontheatre.wustl.edu.

Washington University will be celebrating its 150th anniversary in 2003–04. Special programs and events will be announced at the year-long observance approaches.

Free vehicle inspections offered for travelers

T ake advantage of free vehicle inspections offered by the Washington University Police and Parking and Transportation services to keep vehicles safe during the holiday season. The WUPD Bear Patrol will be offering free vehicle inspections between noon and 4 p.m. on Dec. 14, 15, 16 and 17 at the WUPD Crime Prevention Office at 935-5084. Assist the police and parking staff in keeping your community to get your vehicles inspected and help ensure they have a safe trip over the upcoming holidays.

Local businesses have topped off before traveling. Too often we all neglect to check our vehicles before taking off on a trip, Chief of Police Don Strom said. This is a great, quick and easy way for members of our campus community to get their vehicles inspected and help ensure they have a safe trip over the upcoming holidays. The WUPD Bear Patrol will assist the police and parking staff. For more information, call the WUPD Crime Prevention Office at 935-5084.
**Mouse genome blueprint published**

**BY DARRELL E. WARD**

University researchers, working with a large team of international scientists, have published a draft sequence of the mammal. This milestone is especially significant because the mouse is the most important animal model in medicine.

The achievement is a land- mark advance for the Human Genome Project. It is the first time that scientists have compared the contents of the human genome with that of another species.

This milestone is especially sig- nificant because the mouse is the most important animal model in biomedical research.

The mouse genome sequence will give us a detailed molecular understanding of mammals and experimental animals," said lead scientist Robert L. Waterston, M.D., Ph.D., the James S. McDonnell Professor of Genetics and director of the Genome Sequencing Center. "This is a new understanding of human disease and effec- tive new therapies."

John D. McPherson, Ph.D., associate professor of genetics and leader of the University’s mouse sequencing team, compared the mouse sequence to the Rosetta Stone. "Although we have the human genome sequence in hand, we don’t have the ability to read it," he said. "We will now be able to compare the mouse to human, enabling us to identify important areas of the human genome."

The investigators found that the two genomes had fewer dif- ferences than expected. The mouse genome is about 14 per- cent smaller than the human genome, but the number of genes and the types of genes are similar.

"One might expect to find one group of genes that makes a mam- mal a mammal, another group that makes a human and the third group that makes a mouse," said McPherson. "But that’s not the case. We have most genes in common."

The study also found that the mouse genome is specialized in the areas of muscle, smell, reproduction and immunity. Comparison of the two genomes further revealed important regions in the human genome because they have been conserved through the 75 million years of evolution that separates humans and mice.

Michael R. Brent, Ph.D., asso- ciate professor of computer sci- ence, led one of the teams analyz- ing the mouse sequence. Brent’s team used statistical analysis to help identify the remaining unknown genes in the human genome," Brent said. "As more mammalian genomes are sequenced, we can use these tech- niques to analyze data to help complete the catalog of human genes."

"The mouse genome sequence shows the order of the DNA chemical bases — often represent- ed by the letters A, T, C and G — along the 20 chromosomes of a female mouse."

The second task tested brain activity during movement. Participants were tested on two units of blood annually. The impact of the initial Charles Drew campaign has been stunning. In the early 1990s, African-Americans donated only 1,200 units of blood annually. Now, approximately 9,000 units of African-American blood are col- lected every year in St. Louis.

**Pediatric research patient coordinator Andre Watkins (left) and manager of custodial services Greg Evans lend support to lead custodian Mary Grady while she donates blood.**

**Drive, the goal for the blood drive this year was 20 units. I wanted to do something to help sick kids.**

"What really impressed me was that I didn’t have to call and remind anyone; they were lining up at 5:30 a.m., ready to give," Evans said. "I am so proud of my crew for the great effort they made to support one of our own doctors."

"We have great people on our staff, but they never have been exposed to the University experience (because of their mid- night-to-morning shift)," Evans said. "Mike came in the middle of the night to talk about sickle cell and explained how they can help save a child."

DeBaun told the packed audi- ence that children with sickle cell often have subtle differences in red-cell cell proteins that make it more likely that the best- matched donor will come from someone with a similar ethnic background.

"The mouse genome sequence is generally determined by their race," he said. "We will now be able to compare the mouse to human, enabling us to identify important areas of the human genome."

The findings are available online at www.genome.wustl.edu.

**BY DARRELL E. WARD**

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University Events

Yellow Swallowing - A Dog Named Flint - Why Fly Eye?

By NEL SCHONHERR

Students at the University are busy. They have classes, work, sports, friends and extracurricular activities. But in spite of their often-hec- tic schedules, many will find time to give back to the commu- nity through volunteerism.

Whether it is through Service First, student-athletes working with Top Care, Quadrangle area schools to help ready them for the upcoming year, or a variety of other programs, University students are heavily involved in community service throughout the St. Louis area.

Kurtzman's plan is to get students more of a connection to their college home. "Partly because the campus increases the positive visi- tion my students face on a daily basis — perhaps I can start to develop a certain level of awareness and get them involved in promoting change," DiLeo said.

Long term, Kurtzman said, the goal is to help students think about their lives in a socially responsible way and become good citizens and respon- sible leaders long after their time at the University.

"We, as a University, also need to be successes of being good neighbors in St. Louis," she said. "I feel our community can develop into the best ways to be a good neighbor." Getting students involved on campus increases the positive visi- bility of the University and gives students more of a connection to their college home.

"My goal during new student orientation freshman year is to get students to come to Service First and get them signed up for the e-mail newsletter," Kurtzman said. "Beyond Service First, there are literally hundreds of ways stu- dents can continue community service during their careers at the University."

Volunteer information

Volunteer opportunities coordinat- ed through Stephanie Kurtzman's office are open to not only stu- dents but also to University faculty and staff. For more information, e-mail Kurtzman at community_service@wustl.edu or go online to getinvolved.wustl.edu or call her office at 362-4018.

Stewart, all of social activities, dir. Graham Chapel, 339-4461

Sports

Saturday, Dec. 14

1 p.m. Women's Basketball vs. Mauch Chunk College. Athletic Complex, 2nd floor, 3rd floor, 4th floor, 5th floor.

4 p.m. Men's Basketball vs. Mauch Chunk College. Athletic Complex, 3rd floor, 4th floor, 5th floor.

Friday, Jan. 3

9 a.m. Women's Basketball vs. Blackstone College. Athletic Complex, 2nd floor, 3rd floor, 4th floor, 5th floor.

4 p.m. Men's Basketball vs. Blackstone College. Athletic Complex, 3rd floor, 4th floor, 5th floor.

Sunday, Jan. 5

5 p.m. Men's Basketball vs. Wabash III. Athletic Complex, 3rd floor, 4th floor, 5th floor.

And more...

Saturday, Dec. 14

4-6 p.m. Players' Vehicle - Improving your riding skills, students, faculty and staff. South 40 parking lot. Sponsored by the police depart- ment. 900-0604.

Volunteerism: A chance to be a good neighbor

By NEL SCHONHERR

Students at the University are heavily involved in community service throughout the St. Louis area.

Kurtzman posts flyers, mails newsletters and makes herself available to students during office hours.

"Students here are really excit- ed about giving back," she said. "It's wonderful to see such a high level of commitment and partici- pation.

For students, the advantages of volunteering in service are numerous, including having fun friends, learning about St. Louis and getting off campus.

Juliet DiLeo began vol- unteering the first semester of her freshman year. She has spent 2 1/2 hours a week working with Each One Teach One tutoring children from St. Louis Public Schools. Her experience has been a fun and somewhat- bewildering break from my studies," DiLeo said. "It also provides a chance to learn more about the people and community of St. Louis, and it's great way to meet other students from the University." Community service also gives students a perspective on what's important in life and changes the way they look at their own stresses, exams and papers.

"I think it's been a kind of vol- unteer experience a regular part of my day," she said. "I think I can be ac- tually develop a certain level of maturity — understanding the realities and impacts that many people face on a daily basis — and continue to teach that level of awareness and get involved in promoting change," DiLeo said.

"Students come in thinking they can do it all on their own before it puts a smile on someone's face, and that's a great start," but then they begin to see the broader impact that their efforts have on the community, and that's really gets them excited," Kurtzman's plan is to get stu- dents involved early. Service First, held each year during Labor Day weekend, involves some 600 stu- dents, mainly freshmen, going to area schools to help them with the upcoming year.

"It's a marquee service program at the University and one that really kick-starts interests in volun- teering for many students." "My goal during new student orientation freshman year is to get students to come to Service First and get them signed up for the e-mail newsletter," Kurtzman said. Beyond Service First, there are literally hundreds of ways stu- dents can continue community service during their careers at the University."

New volunteer opportunities include "Becch EFL," a group that works with Top Care, Quadran- gle area schools to help ready them for the upcoming year. "Relay For Life," an event to raise money for the American Cancer Society, which will be on campus March 15-16; and "Bears and Cubs," a group of students and faculty who volunteer at Make A Difference Center to spend time with schoolchildren. And those are merely the tip of the iceberg. New opportunities come into Kurtzman's office on a daily basis.

"We try to be proactive and spread the word to students," she said. "My hope is that community service matches our students' ex- perience and helps them grow into mature, well-rounded adults."


for the entire region’ — along with state-of-the-art storage facilities will be housed in the Museum Building.

Permanent and temporary exhibition spaces — the temporary displays gallery is shown in this render-

ning — along with state-of-the-art storage facilities will be housed in the Museum Building.

One feature of Sam Fox Arts Center’s Museum Building will be the 13,000-square-foot Kenneth and Nancy Kranzberg Information Center; this artist’s rendering shows the center’s reading room. Also housed in the Museum Building will be a School of Art gallery for faculty and student use and new offices and classrooms for the Department of Art History and Archaeology in Arts & Sciences.

Each of the five units in the Sam Fox Arts Center will benefit from significant increases in pro-
gramming space as well as the use of shared facilities and amenities such as a planned lunch counter/vin

cafeteria. In addition, Maki has designed a series of connecting places, courtyards and green spaces. A
sculpture garden and reflecting pool will be located on the north-

erm side of the Museum Building, facing Brookings Drive.

In preparation for new con-

struction, Bixby and Givens halls have been closed for two years, but the focus of an extensive, $16 mil-

lion renovation and expansion, with an additional $1.8 million allocated to infra-
structure improvements for the entire site.

New construction — along

with renovations to Steinberg Hall, which will provide additional studio-

space for the schools of Art and Architecture — is budgeted at approximately $37 million.

The project architect is Harish A. Shah, a principal of RMW Archi-

tecture. The project’s goal is to have Mabee challenge grant

as the first art museum founded

ly and programmatically.

"Already, productive changes have begun taking shape through pilot programs and the stimula-
tion of collaborative work," Miller said. "We look forward to expanding those opportunities for interdisci-

plinary cooperation.

"Shirley K. Baker, vice-chancel-

lor for information technology and dean of University Libraries, added that the Kranzberg Information Center will combine an expanded Art & Architecture Library with the Visual Resource Information Center, a multimedia digital image bank; and with the Whistler Learning Lab, a media and technology center.

"Books remain incredibly important to the success of art mu-

seums, but increasingly they’re supplemented by rich databases of images and online journals," Baker said. "Having a strong online presence will radically enhance their acces-
sibility and usefulness to students and faculty from both studio and the

school.

School of Art Building

The approximately 38,000

gross-square-foot School of Art Building, also three levels, will be just north of Bixby Hall and will

aided by Mabee challenge grant

be a focal point for activities

within the Sam Fox Arts Center.

Museum Building development

aided by Mabee challenge grant

By LIAM OTTEN

The J.E. and L.E. Mabee Foundation has awarded a $1 million grant to the University to support develop-

ment of the Museum Building within the Sam Fox Arts Center, according to Chancellor

Mark S. Wrighton.

To receive the $1 million grant, the University must raise an addi-
tional $5.8 million in outright gifts to the Museum Building by Oct. 9.

"We are thrilled that the Mabee Foundation has pledged such a significant gift to the Museum Building, and that it has done so in a manner that adds considerable value to each subsequent gift made to the project," Wrighton said. "The Museum Building will

be a focal point for activities within the Sam Fox Arts Center. It will also be of service to the entire University community, both as an architectural 'destination' for the entire Sam Fox Arts Center, and as a space of pride for all of St. Louis."
E ven though his team ended the season with a loss, head volleyball coach Rich Laut- enmann had a season that he will never forget.

Lautenmann and the Bears had their national championship hopes dashed when the Bears lost 3-0 to the University of Wisconsin-Whitewater, the host of the NCAA Division III Volleyball Tournament.

"A 4-12 record and a second-place finish at the national champi-
onships...it's a dream come true," Lautenmann said.

The Bears, who were seeking a Division III- record eighth national title, began the season 1-3 and finished with a 16-2 record against nationally ranked teams.

"This team, and the team we put together, is definitely something to be proud of," said senior setter Rebecca Rotolo.

"I couldn't have asked for anything more.

"My role was to give 100 percent every single day," said Rotolo, a senior from St. Charles, Ill. "I'm proud of the way we played and of the work we put in."
Notables

Of note

Jonathan M. Chase, Ph.D., assistant professor of biology in Arts & Sciences, has received a three-year, $153,000 grant from the National Science Foundation for research titled "How Do Communities Assemble? The Influence of Local Conditions and Regional Processes on Community Composition?"

Barbara N. Kamkal, Ph.D., associate professor of biology in Arts & Sciences, has received a two-year, $78,000 grant from the U.S. Department of Agriculture for research titled "Mechanisms Underlying Virulence Activity of avr2p12. From Pseudomonas Syringae"

Himadri B. Pakrashi, Ph.D., professor of biology, has received a five-year, $785,403 grant from the National Science Foundation for research titled "Localization and Functions of Novel Proteins in Cyanobacterial Photosystem II."

Sean R. Eddy, Ph.D., associate professor of genetics, has received a one-year, $219,624 grant from the National Human Genome Research Institute for an "Institutional Training Grant in Genomic Science."

P. Gandhi, M.D., assistant professor of surgery, has received a five-year, $582,503 grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases for research titled "Collagen-Binding Integrins in Intimal Hyperplasia."

Kari M. Lehto, Ph.D., associate professor of ophthalmology and visual sciences, has received a three-year, $459,000 grant from the National Eye Institute for research titled "Collagen-Binding Integrins in Intimal Hyperplasia."

Students

From Page 2

entation on "Stem Cells and Nuclear Transplantation Potential in the Rodent" by Steven L. Teitelbaum, M.D. The presentation was sponsored by the Medical Student Development Program and was the first of the Medical Student Development Program's "Talking Professors" lecture series. Messing Professor of pathology and immunology.

In other action, the trustees voted on several appointments and received reports from the following standing committees: academic and student development, educational policy, research and technology, research graduate affairs, undergraduate life and the Alumni Board of Governors. After adjournment of the meeting, Wrighton hosted a reception for Shapins at Harrisson House.

Trustees

John G. Scholten, Ph.D., associate professor of biomedical engineering in the School of Engineering & Applied Science, has received a one-year, $366,773 grant from the Department of the Air Force for research titled "Mathematical Tools for Imaging in Highly Scattering Media."

Arlene K. Stiffman, Ph.D., professor of social work, has received a five-year, $157,797 grant from the National Institutes of Health for research titled "Social Work Training in Addictions Research."

Daniel W. Moran, Ph.D., assistant professor of biomedical engineering, has received a five-year, $180,000 subcontract from the U.S. Department of Defense's Advanced Research Projects Agency for a study titled "Human Augmentation Through Brain Machine Interfaces." Moran also has received a three-year, $240,000 grant from the Whitaker Foundation for a study titled "Motor Cortical Representation of Position and Velocity in Voluntary Arm Movements."

Linda M. Mundy, M.D., assistant professor of medicine and medical director for the Helen Houch spec Center for Cancer Care, has received a two-year, $150,000 grant from the Missouri Foundation for Health to support the center's drug therapy adherence program for patients diagnosed with HIV.

David S. Sept, Ph.D., assistant professor of biomedical engineering, has received a five-year, $1.6 million grant from the National Science Foundation for a study titled "Understanding the Mechanisms Underlying Actin-Based Cell Motility."

Fazzari wins teaching excellence award

BY GERRY EBERHARD

Steven Fazzari, Ph.D., professor and chair of economics in Arts & Sciences, has received the 2002 Governor's Award for Excellence in Teaching from the coordinating Board for Higher Education, a state policy board that oversees the Missouri Department of Higher Education.

"Steve Fazzari exemplifies the best qualities that we seek in our faculty members — he is a respected scholar, an outstanding teacher and a splendid University citizen," said Edward S. Mason, Ph.D., executive vice chancellor and dean of Arts & Sciences. "He has made important contributions to the field of economics, and his teaching reviews are consistently excellent.

"To add to his already outstanding teaching in the classroom, he is one of those that must seek after dissertation advisers. His leadership of the Department of Economics has been exemplary, and I expect the department to continue to thrive under his thoughtful and wise leadership. For these reasons, Professor Fazzari is eminently qualified for the prestigious Governor's Award for Excellence in Teaching."

A member of the University faculty since 1995, Fazzari became a full professor in 1996 and department chair in 1999. He continues to teach courses in macroeconomics, and his skill in the classroom has earned him teaching awards from the Interfraternity Council, the Council of Students of Arts and Sciences, and the Graduate School of Arts and Sciences.

Fazzari received the governor's award at a statewide higher education planning conference Dec. 4 in Jefferson City, Mo.

The awards have been presented annually to an outstanding faculty member from each of about 50 public and independent colleges and universities in Missouri. The criteria generally include: "Exemplary teaching and advising at the undergraduate level; service to the campus community; commitment to high standards of excellence; success in nurturing student achievement; and impact on academic and personal lives of students."

"Steve Fazzari's teaching brilliantly combines enthusiasm and clarity," said Tara M. Sinclair, a former teaching assistant who also took two graduate classes of Fazzari's. "He makes economics simple and fun. ... He's a role model for aspiring instructors (like me)."

Fazzari's widely cited research explores the link between macroeconomic activity and finance, particularly the financial determinants of investment spending, and the foundations of Keynesian macroeconomics.

Recent publications include articles in a variety of academic journals including the Brookings Papers on Economic Activity, the Journal of Economic Literature, and the Quarterly Journal of Economics. His policy work on deficit reduction and capital gains taxation has received recognition in the national media.

"Professor Fazzari engages his students by connecting with them on a personal level," former student Brian Gunia said. "He breaks complex economic ideas into meaningful statements without compromising their integrity, and he skillfully identifies and answers the critical questions underlying economic problems."

Dec. 4

12:58 p.m. — A nonassault was reported in North campus Hallways for alleged stabbing after it was deter- mined that she was in possession of items taken from an unknown person.

5:21 p.m. — A student reported having his Missouri license validation tags taken from his car, which was parked on the second level of a St. Louis parking garage. Total loss is estimated at $10.

Dec. 6

5:30 a.m. — While concluding a previously received call at the Work Student Center, a University Police officer observed a suspect throwing rocks at a University Police vehicle. After an investigation, the suspect was charged with destruction of property, possessing false identification and two judicial violations. The incident was reported to the judicial administrator.

Additionally, University Police responded to two reports of theft and one car accident.
respiratory rates, shows high blood levels of lactic acid and respiratory acidosis. For the past 13 years, Karl, a renouned authority on metabolic sepsis, has worked closely with Richard S. Hotchkiss, M.D., professor of medicine, of surgery and of molecular biology and pharmacology, studying the development, cause and treatment of bacterial sepsis.

Their findings have the potential to alter traditional thinking about the cause and treatment of sepsis.

Karl has published articles in more than 150 peer-reviewed publications, including the Journal of the American Medical Association. "The JAMA article was accompanied with an editorial by Roger IoWan, national recognized leader in the field of sepsis," Hotchkiss says. "He reported that Dr. Karl's work represented a new way to view the problem of sepsis."

Karl, now at age 86, continues to come into the lab daily to work on research sepsis. She still works 10-hour days and feels more productive than she ever has in her life.

And she doesn't plan on retiring anytime soon. "I don't want to retire; that's how you get old," Karl says. "As long as I'm productive 10 weeks, because that is what I love to do."

Hotchkiss adds, "It is her love and fascination for science that is so unbelievable. She possesses an indomitable spirit and her intense curiosity is truly inspirational."

A great inspiration

Irene E. Karl possess an indomitable spirit and intense curiosity

BY KIMBERLY LIVING

An unstoppable spirit

Even as a kindergartener, Karl imagined her future as a scientist. However, in the 1930s, science was not a field that welcomed women. Karl graduated from the University of Wisconsin in 1937 with a degree in chemistry. She was the only woman in a class of 600. On graduation day, her chemistry professor gave her some advice: "You're going to graduate summa cum laude, but you'll never make it. First of all, you're a woman and you're Jewish; there are quotas on both."

"Women don't make good scientists — go get married!"

That night, she went home and called her boyfriend, Mike Karl.

A few days later, the patient developed a high fever, rapid heart and