Bradley keynote speaker for Founders Day

University employees, friends and alumni will gather Oct. 27 to commemorate the 148th anniversary of its founding. This year’s Founders Day will follow with the provost’s introduction of a guest speaker as well as the presentation of awards for distinguished faculty and alumni. In addition, the Board of Trustees will bestow the Robert S. Brookings Awards. At press time, the event was sold out.

The annual event is sponsored by the Alumni Board of Governors and commemorates the University’s founding in 1853. Bill Bradley will be the keynote speaker for the event, to be held this year at the Rite-Carlin in Clayton. Bradley also will participate in a special Founders Day event — exclusively for students — earlier in the day.

Bradley has achieved prominence in a basketball career, senator, writer, teacher and presidential hopeful. He was born in Crystal City, Mo., and first received national attention when he won the gold medal in basketball during the 1964 Olympics. The three-time All-American basketball player from Princeton University graduated in 1963 with a degree in American history. He earned a graduate degree from Oxford University, where he studied as a Rhodes Scholar.

During his tenure with the New York Knicks, Bradley helped lead the team to two National Basketball Association championships. During his nearly 20 years of representing New Jersey in the Senate, Bradley tackled many large-scale reforms and was instrumental in the formation of the Tax Reform Act of 1986. He was a major influence among his colleagues in the Senate and widely respected for his intelligence and insight. Bradley currently serves as managing director of Allen & Company Inc. and as chair of the Board of Trustees of the University.

Green thumbs make a difference

Ades Doyle, a senior in biomedical engineering, and Henry Asher, a member of U. City in Bloom, take part in a community garden beautification project at the southeast corner of Clemens and Westgate avenues in the Parkview Gardens Neighborhood Oct. 14. The project, developed by Earl Talley, coordinator of off-campus living, was a collaborative effort between University students residing off campus in the Parkview Gardens neighborhood north of Delmar Loop in University City and U. City in Bloom and was registered as a state and national “Make a Difference Day” volunteer activity.

Heart’s shape impacted by biomechanical forces

The poet in us might see the heart as “a lonely hunter”; the adolescent as a toy that’s easily broken. But the biomedical engineer sees the heart as a pump, plain and simple, a machine shaped by genetics and complex biomechanical forces.

Larry A. Taber, Ph.D., professor of biomedical engineering, has been probing the forces, stresses and deformations of the heart since the mid-1980s. A major focus of his work is to show that biomechanical forces may be as important as genetics in shaping the heart.

Recently, Taber has developed a theory on tissue growth and morphogenesis — shape change — and applied it to understanding a chicken embryo’s developing heart, which is remarkably similar to its counterpart in humans. Taber is studying a phenomenon known as looping, one of the most critical stages of embryo heart development, where the heart at just 5 days of age in chickens (3 weeks in humans) begins outward and rotates to the right. This is an almost ballet-like move that must happen perfectly at the right. This is an almost ballet-like move that must happen perfectly at the right. This is an almost ballet-like move that must happen perfectly at the right. This is an almost ballet-like move that must happen perfectly at the right.

Taber’s theory factors cellular contraction into looping, and he has found that the split-second looping process of bending and rotation is actually driven by at least two different mechanical forces. His research could help scientists better understand the roles physics and mechanics play in the developing heart and in heart defects.

Because geneticists currently do most of the research in this field, Taber and other biomedical engineers studying heart development provide clues into the cause and effect of the gene’s master plan, as well as a different perspective.

“We can knock out a gene and see the effect,” Taber says.

Larry A. Taber, Ph.D., professor of biomedical engineering, studies forces, stresses and deformations of the heart.

Sesquicentennial Commission formed

Early 150 residents of nearby neighborhoods, faculty, administration and staff members gathered in Steinberg Hall Auditorium Oct. 6 for a “Report to Washington University Neighbors” co-hosted by Chancellor Mark S. Wrighton and the WU Neighbors’ Council. Guest for the event was the Parkview resident and Neighbors’ Council member, opened the program by welcoming attendees, introducing special guests and reporting on the work of the council.

Wrighton spoke about current activities on campus, including events in response to the Sept. 11 tragedies. Wrighton also discussed the University’s success in recruitment and its plans to keep the student body at its current size; the newly expanded Employer Assistance Housing Program; and campus events available to neighbors such as the Assembly Series, Edison Theatre performances and University athletic events.

The United States’ current economic woes that has affected the University, Wrighton reported, as the University’s investments declined for the first time in at least six years. Some construction projects may be deferred as a result of the economic downturn.

“We’re not immune to the decline in the economy,” Wrighton said. “It tempts our enthusiasm for the rate of development of new projects.”

Wrighton also touched on Metrolink expansion in his opening remarks, stating that Metrolink is a “very important project for our community, and we desire it to be safe, efficient, convenient and attractive.”

Current Bi-State Development Agency plans for the extension — running from the Forest Park station to University City, Clayton, Richmond Heights, Brentwood and south to Maplewood and Shrewsbury — include above-ground trains running adjacent to the north side of the Hilltop Campus. Construction is scheduled to begin in 2002.

Numerous neighbors attending the meeting were there to express concerns about the current Bi-State plans. Earlier plans for the Metrolink expansion included trains running beneath land that would be donated to Bi-State by the University. Bi-State later decided to expand the project for our community, and we desire it to be safe, efficient, convenient and attractive.”

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Commission
— from Page 1

students, representatives as well as alumni, parents, trustees and others.

“We like to get an early start, and if we plan accordingly, we can make some great strides. Washington University’s 150th anniversary celebration will be a wonderful chance to reflect on and celebrate our past and present achievements and look toward the University’s future.”

The commission aims to involve the entire University community in the sesquicentennial events, which will be planned to:

• assist in accelerating the acceleration of the premier universities in the world;
• enhance the impact of the University on the world;
• recognize present and future intellectual challenges, and to engage the people of the University in meeting them;
• enhance the strong interdisciplinary teaching, research and service that are the distinctive qualities of a University;
• take advantage of recurring events and programs, such as Founders Day and the Sesquicentennial commemorations, Thurnthanie Carnival, the Alumni Association and student government
established charters;
• draw the University community closer together around common objectives;
• come to the people of the University and tell their stories; and
• to involve University students, faculty and staff;
• to honor and involve alumni, parents, trustees and others of the University;
• to identify new aspirations and forms of cooperation with the University and with other institutions.

With that in mind, the following major festivities at the opening — Founders Day and the Sesquicentennial Commission — of the sesquicentennial year, the commission is planning events and programs for each school to celebrate its past, present and future in a way that might address some of the issues that build on the interdisciplinary quality of the University.

International criminal court to be addressed in law debate

By Ann Nicholson

The School of Law’s Institute for the Study of International Law and Politics will present a debate on “Should the United States Ratify the International Criminal Court?” from noon-1:30 p.m. Oct. 22. The event, the inaugural debate in the law school’s International Debate Series, will be held in the Busch Hall Room 401 and is free and open to the public.

Chairman and Chief Executive Officer of the International Criminal Tribunal for the Former Yugoslavia — could be used to prosecute Osama bin Laden and other terrorists allegedly involved in the Sept. 11 terrorist attacks on the World Trade Center and Pentagon.

Efforts are now under way to form a permanent international tribunal to try suspected war criminals and other atrocities and to mediate disputes. However, the U.S. government, among those opposing current provisions in the president’s International Criminal Court Treaty, which must be ratified by the Senate.

Suggestions sought

In order to receive involvement from the entire University community, the Sesquicentennial Commission seeks assistance from faculty, staff and students regarding commissioned events for 2003-04. If you have any ideas (or better yet, a program) for the celebration of the 150th anniversary University, e-mail Robert Virgil at bvirgil@wustl.edu or Steve Grein at sgrein@wustl.edu.

He has written dozens of articles and books on the areas of international criminal law and international law courses. Scharf previously served at the University of Pennsylvania School of Law, where he is a member of the law school, he is a member of the William & Mary Law School. He is a member of the William & Mary Law School. He is a member of the William & Mary Law School.

Campus Watch

plaque on the southwest wall of Anheuser-Busch Hall Room 300. Total loss is valued at $300.

Additionally, University Police are searching for two reports of vandalism.

The following students were reported to University Police: Derick J. Charles, 18, student with a background in business and communications, who was reported to police as a possible sexual predator and is available on the University Police website.

The theft occurred sometime between 1-4 a.m. Oct. 14. Total loss is valued at $120.

Additionally, University Police are searching for two reports of vandalism.

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Acute sinusitis is an infection and inflammation of the paranasal sinuses — those above, below and on either side of the nose — of four weeks’ duration or less. An estimated 35 million people in the United States are affected by sinusitis each year, generating almost 3.5 million doctor’s office visits. In this study, researchers examined data from 28,162 adults who received initial treatment for acute uncomplicated sinusitis between July 1, 1997, and June 30, 1997. The team found that 17 different antibiotics had been prescribed to sinusitis patients. These antibiotics were categorized as first-line or second-line. First-line antibiotics, such as amoxicillin, co-trimoxazole and erythromycin, generally are given as first-line treatment of an infection.

Second-line antibiotics, such as clarithromycin and amoxicillin-clavulanate, are intended for patients who are not helped by or cannot tolerate first-line drugs. Second-line drugs also target a wider range of bacteria than first-line drugs. The study revealed that 60 percent of all patients in the database had received first-line antibiotics, while 40 percent had received second-line therapy. Primary-care physicians prescribed first-line antibiotics 69 percent of the time, while specialists prescribed second-line antibiotics 63 percent of the time.

The researchers deemed treatment to be successful if the patient did not require additional antibiotics for 28 days following initial treatment. Those patients who received first-line antibiotics had a 90.1 percent success rate, while those who received second-line drugs had a 90.8 percent success rate. “A 0.7 percent difference between the two groups is too small to be clinically significant,” said Piccirillo, who is also director of the Clinical Outcomes Research Office in the Department of Otolaryngology. “Essentially, the two types of antibiotics were equally effective.”

But while the effectiveness of the two groups of drugs was nearly identical, their cost was strikingly different. Charges for patients who received first-line antibiotics were, on average, $80.98, while charges for those prescribed second-line antibiotics were $135.17, a difference of $66.19. “By showing that cost is the only difference between first- and second-line antibiotics in the treatment of acute uncomplicated sinusitis, this study validates nationally accepted practice guidelines recommending initial use of first-line second-line antibiotics,” said Mark Friske, M.D., chief medical officer of Express Scripts and a co-author of the study.

Initial treatment of the disorder is further complicated by the fact that sinusitis usually begins as a viral infection. Antibiotics should be used to treat the bacterial component of the infection. “The correct rate of use of antibiotics has contributed to the emergence and spread of antibiotic-resistant bacteria,” Piccirillo said. “Because of this problem,” Piccirillo said, “patients with signs and symptoms of acute uncomplicated sinusitis should be treated only with a decongestant for the first three to five days.”

Most viral infections run their course to recovery in 4 to 5 days. “After about five days, a person with a viral infection should begin feeling better,” Piccirillo said. “If, on the other hand, their nasal discharge becomes more colored — yellow or green — and they are in more pain, then a course of antibiotics is appropriate.”

Funding for the study, along with pharmacy and medical claims data, was provided by Express Scripts. Piccirillo served as a paid consultant for Express Scripts.


cell sorter facility to open at Siteman Cancer Center

By Barba Rodriguez

The newest core facility of the Alvin J. Siteman Cancer Center of Washington University and Barnes-Jewish Hospital will open this fall in Room 120 of the Biotechnology Center. The facility will house a high-speed cell sorter.

The MoFlo high-speed cell sorter Core houses the Modular Flow Cytometer, or MoFlo, from Cytomation Inc. The instrument allows researchers to quickly analyze and separate millions of cancer cells, other cells or particles of varying shapes. Samples can be stained with phycophyctin, bacillus or other cellular elements, with the aid of one of the scheduled times at the Core, which can be sorted based on size and surface components.

Researchers also are able to distinguish between differences in cells’ symptomatic components or DNA. Sample processing often can be completed in an hour.

“The MoFlo will analyze as many as 100,000 events per second, and we can sort cells at a speed of 80,000 events per second at an exceptionally high purity,” said William C. Eades, professor and chairman of medicine for the High-Speed Cell Sorter Core. Eades is also associate professor of medicine, directs the core facility.

Researchers can attach 10 or more different antibodies to distinct surface components on sample particles. A small stream of liquid containing the particles then is directed to flow through the beam of the machine’s lasers, two of which are adjustable to move in different wavelengths. These antibodies, or excite, fluorescent molecules attached to the surface, allow researchers to detect the presence of specific antibodies in the sample.

Flu shots offered to School of Medicine employees, students

Influenza vaccines will be available free to all School of Medicine employees and students while supplies last.

Anyone who wishes to receive a flu shot must present valid medical school identification and go to one of the four flu-shot locations wearing short sleeves or revealing clothing. No appointments are necessary.

As of 2 p.m. Monday, McDonnell Pediatric Research Building lobby

McDonnell Pediatric Research Building lobby

Nov. 13, 1-3 p.m. Seashell Lobby of the McDonnell Medical Sciences Building

Nov. 20, 1-3 p.m. Forrest Park Ave. lobby

 Anyone who wants to receive the flu shot can go to the University Hospital at Siteman Cancer Center free of charge. The hospital’s flu shot will be available free to anyone with valid MU identification, employees and students.

Transplanted lungs have blood vessels and airways that are connected to the rest of the body during transplantation surgery, but the nerves cannot be connected and usually do not re-grow on their own. By studying mice with transplanted airways Pérez Fontán and his colleagues will provide insight into how the lungs adapt to the absence of these nerves, on the function of airways and vessels and airways that are connected to the rest of the body.

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Complex Bodies • West Nile Virus • Hedgehog Signaling

By Liam Otten

The Department of Music of St. Louis University in St. Louis will present a recital by Austrian music student Anton in his recital titled "The Austrian School of St. Louis." The program includes "Pieces for Musical Clays" by Franz Joseph Haydn; "Sonnata for Flute and Piano," Mend Movements by Cesar Bassir; "Introduction, Theme, and Variations on a Tune: Trockne Blumen" from Die Schone Medizin," by Franz Schubert; "Psalmodia Pastoralis Honsingos, op. 26" by Albert Franz Doppler; and several works from Gute von Zerlitt's Pictures From the Field, including "Nachtigall Charming," "Vagabond Child".

Renowned flutist Anton to present recital of Austrian music

By Liam Otten

In 1994, she won first prize at the Concours Musical International de France for flute in Paris (1994) and in 1996 was the BBC Radio 2 Young Musician of the Year Competition. In 1999, she gave a live recital on radio station WQED in Chicago, sponsored by the Dame Myra Hess Music Center in St. Louis. In 1999, she will perform a recital at the American Musicological Society National Meeting in Atlanta.

Film

Monday, Oct. 22
8 p.m. Chinese Film Series. "Symposia," Room 218 Ridgley Hall. 935-9174.

Saturday, Oct. 20
8 p.m. Near Eastern Film Series. "Lust," Room 170. 935-9174.

Monday, Oct. 21
8 p.m. Japanese Film Series. "Ghost of Tsukiyama," Room 219 Ridgley Hall. 935-9174.

Lectures

Friday, Oct. 19

Tuesday, Oct. 25
10 a.m. Science Saturday Lecture Series. "The Big Bang, the Cosmic-acid, and the British Isles." Olin Library (reception 8 p.m.) and Room 401 Crow Hall. 935-9174.

Exhibitions

"Religious Perspectives: A Retrospective of the Nurses of the Salvation Army," jewelry design and funding from 1925-2001 at the University Museum.

Wednesday, Oct. 24

On Stage

Friday, Oct. 26

Saturday, Oct. 27

Wednesday, Oct. 31

Sports

Friday, Oct. 20
4 p.m. Volleyball vs. College of Mt, Crestview Hills, Ky. WU Midwest Invitational. Field House. 935-5220.

Saturday, Oct. 20
1:30 p.m. Football vs. Wesleyan U. Francis Field. 935-5220.

Sunday, Oct. 21
2:30 p.m. Men's Basketball vs. College of Mt, Crestview Hills, Ky. WU Midwest Invitational. Field House. 935-5220.

On Campus

Friday, Oct. 26
4 p.m. Anesthesiology research seminar. "Calcium Receptor." Xiaoming Xia, assoc. prof, of anesthesiology dept. Room 5550 Clinical Sciences Bldg. 362-7316.

Washington University in St. Louis
Hamburg memorial service Nov. 5

By TONY FETTENICK

A memorial service will be held for famed biologist Viktor Hamburg, Ph.D., from 10:30 a.m. to noon in Graham Chapel. A reception will follow in the chancellor's building, Formal Lounge.

Hamburg, the Edward Mallinckrodt Distinguished Professor Emeritus in Arts & Humanities Biological Sciences, taught Tuesday, June 11, 2001, in St. Louis after a short illness. He was 100, just 36 weeks shy of 101.

Hamburg was considered a giant in neuroembryology, embryology and the study of programmed cell death. He has often been referred to as "the father of neuroembryology."

Hamburg joined the University faculty in 1955 as assistant professor of zoology. Within six years, he had worked his way up to full professor and department chair. He continued to serve as chair until 1966 and was appointed the Edward Mallinckrodt Distinguished Professor Emeritus in Biological Sciences in 1968. He assumed emeritus status in 1969 but maintained an active, well-funded research program until he was well into his 80s.

Hamburg received many honors and accolades in his research career, including the National Medal of Science, the Horace Mann Silver Medal, the Harriman Award, the Gerhard Prize and, most recently, the lifetime Achievement Award from the Society for Developmental Biology. He was a member of the National Academy of Sciences, the American Philosophical Society, the American Society for Experimental Biology and the Biology Departmental Developmental Biology.

In October 2000, the biology department honored Hamburg with a centennial symposium. Researchers nationwide gathered to celebrate the man his students call "the father of neuroembryology."

For more information on the memorial service, contact Dr. Edward Garant, Ph.D., professor of biology in Arts & Sciences, at 935-6804, or Dr. Richard Kirk, Ph.D., professor of biology, at 935-6812.

Sunday, Oct. 21

Newman Lady donation of $500

Parents' weekend, Catholic Student Center: 6355 Forsyth Blvd. 935-9191.

And more...

Friday, Oct. 19

7 p.m. American Printing History Assoc. in the Library of Congress, 10 First St., SE, Washington, D.C. "Golden Scribbler and America." A celebration of the book, the printer and the living historian and author. (Conference cost is $75 per person, pre-registration is required.)

Saturday, Oct. 27

7-10 p.m. Continuing Medical Education symposium, "Psychiatric update Care and Treatment of the Dementias." Cost, $90. To register, call 362-2418.
Sciences Writer positions may be available in the Hilltop Institute - Jadavpur University, or all three. In addition to his best-selling memoir, "The Upstairs Past," published in 1996, Bradley has written or co-written a number of books on subjects ranging from business to the arts. He is the senior vice president and chairman of the Advertising and Marketing Group.

Robert J. Messey
Robert Messey’s business leadership and philanthropy have significantly impacted the city of St. Louis. He is the senior vice president and chairman of the Advertising and Marketing Group. Messey began his career at Ernst & Young and stayed there for 10 years. He then served as president of Marriott’s Service Corporation. Messey was named vice president of financial services and was later named senior vice president and executive officer. He returned to his alma mater, where he headed the Sprint PSC account and the award-winning -- and now famous -- "California" commercial. "California" features Dr. Paul K. White, who worked on the project with the Center for Biotechnology and Public Affairs.

Santanu Das
Santanu Das is president, chief executive officer and chairman of TransWorld Data Processing company he founded in 1988. TransWorld designs, manufactures and markets high-speed VLSI (microchip) solutions for advanced telecommunications and telecommunications engineering. He is a professor at Washington University. Das contributes in many ways towards the development of the University of Washington. Das is a member of the board of the National Academy of Engineering and a member of the New York Road Band. Last year, Das received the Alumni Achievement Award from the Engineering and Applied Science in 2000, he received the Engineer of the Year Award and Family Dining Professors in Electrical Engineering.

His philanthropy extends far beyond the academic, with strong supporters of educational opportunities, he supports scholarships in India and the United States, as well as an orphanage career in development system, both in India and the United States.

John M. Eisenberg
John Eisenberg is a physician, researcher, administrator and educator whose expertise has contributed significantly to the advancement of medical care and public policy. Since joining the Highway Research Board of the National Research Council in 1966, John Eisenberg has been a vocal advocate for public policy and safety in the area of telecommunications.

In addition to his public policy work, Eisenberg has served as president of the University of Washington Medical Center, director of the National Academy of Sciences, director of the National Academy of Medicine, and president of the American Medical Association.

He is well-known for his work in the area of telecommunications, and has written or co-authored a number of books on the subject. Eisenberg is also a member of the National Academy of Sciences.

Dexter M. Fedor
In 1989, Dexter Fedor joined the new Disney corporate family as president of Disneyland in Florida, a position he held until 1996. He has since served in a number of executive positions, including President and Chief Executive Officer, Walt Disney World Resort, and President and Chief Executive Officer, ABC Television Network.

He is a graduate of the University of California, Berkeley, and has served on the boards of a number of organizations, including the American Heart Association and the American Cancer Society.

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I. Introduction and statement of policy

Washington University is committed to fostering an environment of positive learning and working environments for its students, faculty and staff and to not tolerating sexual harassment.

Sexual harassment is an attack on the dignity of individuals and the integrity of the University as an institution of learning. Academic freedom can exist only when every person is free to pursue ideas in a non-hostile, non-retaliatory atmosphere of mutual respect. Sexual harassment also involves breaches of the personal integrity of individuals and the community's educational experience and well-being of all of its members.

Sexual harassment is a form of discrimination that violates University policy and state and federal law.

This policy applies to all members of the Washington University community, including students, faculty, staff, visitors, and volunteers.

Washington University's Policy on Sexual Harassment

The following guidelines and procedures have been established to address sexual harassment.

II. What is sexual harassment?

For the purposes of this statement, Washington University has adopted the Equal Employment Opportunity Commission's definitions of sexual harassment as used in the academic community.

Sexual harassment is defined as any unwanted action that creates an intimidating, hostile or otherwise unwelcome sexual or physical conduct of a sexual nature, whether committed on or off campus.

III. Examples of conduct which may constitute sexual harassment

Examples of conduct which may constitute sexual harassment include but are not limited to:

• oral or written reprimand, placed in the personnel file
• restrictions on academic or professional opportunity
• requests for private meetings outside of class or business hours
• veiled suggestions of sexual activities
• inappropriate whistling or staring
• use of inappropriate body images to advertise events
•3rd party, designed to permit the parties to reach a mutually agreeable resolution of a dispute. If a person complaining of sexual harassment seeks mediation, the procedure outlined in this section shall be used.

The Sexual Harassment Response Coordinator and the Business or administrative officer or administrator-deciding officer will give all parties involved the opportunity to contact their clergy or counseling services on campus, to determine whether counseling and/or an alcohol abuse program are appropriate.

Obligations of vigilance and reporting

Whether or not you choose to file a complaint, the University will respond to and deal with all complaints and to seek assistance from the University. In addition, any University employees who become aware of instances of sexual harassment are encouraged to contact the Coordinator for assistance in investigating or otherwise responding to any situation involving alleged sexual harassment.

VII. Possible sanctions

Possible sanctions for a person found guilty of behavior in violation of this policy may include but are not limited to the following:

• oral or written reprimand, placed in the personnel file
• restrictions on academic or professional opportunity
• requests for private meetings outside of class or business hours
• veiled suggestions of sexual activities
• inappropriate whistling or staring
• use of inappropriate body images to advertise events
•3rd party, designed to permit the parties to reach a mutually agreeable resolution of a dispute. If a person complaining of sexual harassment seeks mediation, the procedure outlined in this section shall be used.

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Nurturing new connections

Min Zhuo, Ph.D., brings his knack for bridging gaps to his studies of chronic pain

By Jim Duphin

Min Zhuo, Ph.D.

Born: Xiapu, Fujian, People's Republic of China

Education: University of Science and Technology, Anhui, China B.S. in physiology and biophysics, 1985; Shanghai Institute of Physiology, Shanghai, China M.S. in physiology, 1987; University of Iowa, Iowa City, Ph.D., in pharmacology, 1992.

University positions: Associate professor of anesthesiology, and anatomy and neurobiology, and chief of basic research for Washington University Pain Center. Zhuo studied biology at the Shanghai University of Science and Technology of China, a leading university in China, then earned a master's degree at the Shanghai Institute of Physiology, studying with Dr. Chang Chen-Tu, whose work is in molecular biology and neurobiology and of the chief of basic research for the Washington University Pain Center.

Min Zhuo, Ph.D. (left), and Feng Wei, research associate in anesthesiology, discuss experiments on brain slices from genetically altered mice. Zhuo is an associate professor of anesthesiology, of anatomy and neurobiology and of psychiatry and the chief of basic research for the Washington University Pain Center.

When I first met Min, I realized that he had ideas and insights that could radically change the way in which we treat pain. Since coming to Washington University, he has developed many of these ideas, identifying new potential targets for analgesic drugs and establishing himself as one of the world leaders in pain research.

A painting that Zhuo created in 1992. Along the right side is the title phrase, "When the Water Gets Warm in the Springtime, the Ducks Are the First To Know."