Chris Byrnes appointed to Skinner professorship

By Tony Fitzpatrick

Christopher J. Byrnes, Ph.D., dean of the School of Engineering and Applied Science, was installed as the first Edward H. and Florence G. Skinner Professor in Systems Science and Mathematics Sept. 20 in a Lopata Hall Gallery ceremony.

Byrnes' field is systems science and control. Among his research interests are feedback design in automatic control, nonlinear dynamics and control, and estimation and filtering. He has applied his research over two decades in aerospace, electrical power systems, signal processing and speech synthesis, among other areas.

"It is fitting that Dean Byrnes receive this distinction in light of his dedication to his field and the school and University he represents," said Chancellor Mark S. Wrighton. "He is known far and wide for his research, teaching and leadership skills and the commitment and enthusiasm he brings to each. I am especially impressed that the senior faculty of the Department of Systems Science and Mathematics recommended Dean Byrnes to me as the most deserving recipient of this new professorship in their department," Chris Byrnes will honor the Farrow family as the Skinner Professor.

The professorship was established by Florence Skinner Farrow in honor of her parents. Farrow's mother, Florence Garrett Schade Skinner, graduated from Washington University in 1902 with a degree in civil engineering. She was said to be the only woman civil engineer in St. Louis. She married Edward Skinner, whom she had met at the University, later the same year. Florence Skinner died in 1906 at the age of 24, following an illness after the birth of her daughter.

Farrow's father attended the University and received a medical degree.

SBC gift $2 million aids Knight Center at Olin School

By Barbara Rea

The John M. Olin School of Business has received a $2 million grant from SBC Foundation, according to Chancellor Mark S. Wrighton. The gift, to be distributed over 10 years, will support the construction of the Charles F. Knight Executive Education Center. Completion of the five-story building is expected in early 2001 at an estimated cost of $50 million.

"Washington University would not enjoy its present stature without the kind of partnerships we have formed with companies such as SBC, said Mark S. Wrighton, R Vishwanath. "We are grateful for the wonderful support from SBC Foundation, which will enhance our ability to provide high-quality education for executives in this region."

Executive education programs continue to grow at major business schools as an increasing number of mid- and upper-level managers embrace lifelong learning and return to the classroom.

"This gift will assist in the creation of a much-needed facility to expand Olin's executive education programs," said Stuart I. Greenbaum, Ph.D., dean of the business school. "The building will enable us to fulfill our commitment to career-long learning, and, through the executives we educate, we can contribute to the vitality of the entire business community."

The school intends to extend the Sexton Research Fund, named for Professor Emeritus Owen J. Sexton, Ph.D., Losos' immediate predecessor as Tyson director. Grants from the Sexton Fund will support undergraduate research projects at Tyson on the natural history of vertebrates, Sexton's research specialty.

"We are seeing more commitment from the University regarding Tyson," Losos said. "We'd like to see more from students and faculty. Our attitude is that we will do everything possible to facilitate the use of Tyson for both research and teaching."

The Tyson Research Center Galen nursery ceremony. See Tyson, page 6
Famed scholar Huston Smith to speak

H uston Smith, widely regarded as one of the most eminent authorities on the history of religions, kicks off a series of three lectures sponsored by the University's McDonnell Center for Science, Education and Religion, which will be held across campus.

Smith, who is best known for his book "The World's Religions," will speak on "Spirituality in the New Millennium" at 11 a.m. in Graham Chapel. The lecture is free and open to the public. Smith will follow with a student lecture-titled "Huston Smith's Spiritual Journey," at 2:20 p.m. in the Women's Building Lounge.

"The World's Religions" was originally published in 1958 as "The Religions of Man," and remains a leading and widely used college textbook on religion. It is available in 18 languages, selling over 2 million copies.

Smith also has authored six other books on psychology, religion and philosophy — most recently one called "Beyond the Post-modern Mind." He has taught at Washington University, the Massachusetts Institute of Technology, Syracuse University and the University of California, Berkeley. He has produced award-winning documentary films on Hinduism, Sufism and Tibetan Buddhism. In 1996 he was featured on Bill Moyers' "In the Public Interest." He is now conducting a book project on the role of the temple in the public's life.

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Smith's lecture series will include "A Portrait of Heaven," exploring the form and meaning of the great temples of India built between the 6th and 10th centuries in India. The temple is the palace of the divinity, inhabited by a heavenly retinue. The sculptures that cover the temple, inside and out, work together with the building to compose a complex whole. Mason will reunite visually the beautiful figures seen in museums with the fascination of the structural marvels which we have seen as integral parts.

The series will conclude, Nov. 16 when J. Patrice Burns presents the Edward G. Weland Lecture on "Early Christianity. Burrs, who taught at the Universities from 1996 to 1999 as the Thomas and Alberta White Professor of Christian Thought and professor of classics in Arts & Sciences, also chaired the University's Religious Studies Program from 1971 to 1993. Burns currently teaches at Vanderbilt University. He also has taught at Loyola University Chicago and the University of Florida.

The conference focuses on Christianity in Roman Africa. Burns serves as co-editor of the Journal of Early Christian Studies. For more information on the Mason and Burns lectures, call 933-5566.

Looking ahead

GWB celebrates past by moving into future

By Anne Nicholas

"Framing Social Work Agenda for the Future" is the theme of this year's annual conference Oct. 6-7 to mark the George Warren Brown School of Social Work's 75th anniversary. The conference, "Social Work's 75th: Confident in the Future," will take place in conjunction with the school's alumni banquet and other events commemorating the long battle for social justice. The George Warren Brown School has earned the right to celebrate with pride the accomplishments of its faculty, students, alumni and friends.

In its distinguished history, the school has contributed an extraordinary body of work to social work research, education and community service.

Dedicated to preparing outstanding practitioners, researchers and scholars, the school consistently places in the top universities on work school rankings. It is neither a matter of pride nor dwelling on the past, it is a matter of looking forward.

It is important to realize that our world is changing at an amazing pace," Khunduka observed. "If we wish to continue its leadership role, we then must first get to our goal. We must look ahead and begin to think about the future." The school was one of the first to develop a cash for work program. It has been a leader in integrating social science into work practice.

Social work practice will need to be informed by research, he said. Social work practice is linked to specific positive outcomes in the lives of individuals, communities and groups. Rather than simply alleviating short-term suffering, we must focus our efforts on building sustainable social change.

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Valve replacement benefits elderly

By Gila Reckers

Surgical replacement of the aortic valve is a relatively common procedure for younger patients. Physicians hesitate to recommend it for patients over 80, however. According to Thairal M. Sundt, III, M.D., many cardiologists fear that elderly individuals either will not survive surgery or that the trauma of surgery will degrade the patient's quality of life. Sundt is first author of the Circulation paper and associate professor of medicine at the University of Colorado School of Medicine. His concern is valid, he said, because surgery is more risky for older patients. "My study suggests that the benefits might outweigh the risks," he said.

He and his colleagues examined data from all 133 patients age 80 and older who had their aortic valves replaced at the medical school between July 1, 1993, and April 31, 1998. The oldest patient was 91. The researchers contacted most of these patients between July 1, 1998, and Nov. 1, 1999, for quality-of-life and recovery data. The participation of the patients had died within 30 days of the operation, 80 percent had survived for six months, and 55 percent had survived for at least five years. Quality-of-life scores were roughly the same as those estimated for the general population age 75 and older. Patients who previously had suffered strokes and patients with chronic obstructive pulmonary disease fared less well than the others. "Functional outcome after aortic valve replacement in patients more than 80 years old is excellent, the operative risk is close to zero and the late survival rate is good," the authors concluded.

Quality of life is key for this elderly population, Sundt said. "They don't expect to recover. But they don't want to be short of breath while doing daily tasks or working in the garden," he said. He believes this study provides evidence that aortic valve replacement can significantly improve the lives of these elderly people. "Although the risks and costs are higher, these people do benefit," he said. Costs are higher because very elderly people often spend longer in the hospital than younger patients undergoing aortic valve replacement. The researchers now are collecting quality-of-life information from elderly patients both before and after surgery.

Sundt also is involved in developing a new Aortic Center at the medical school. The center will focus on thoracic diseases and will serve as a resource for patients in the Midwest to help ensure adequate medical attention and follow-up. "In the past, elderly people often went untreated in the waiting rooms if we could take their blood pressure," explained Cindy Camillo at Alco-80, an ongoing study of Aortic Valve Replacement in Elderly Patients. "By following up with these patients, we can make informed decisions," said Camillo.

"I would like to see all 80-year-olds offered this surgery as a possibility. Then they can make informed decisions." - THOMAS M. SUNDT

Paying tribute

Service honors Memory and Aging volunteers

By Gila Reckers

On Sunday, Sept. 17, the Memory and Aging Project held a memorial service to honor those who donated their brains for autopsy and other

participants in the project. Faculty, students, patients and family members joined at the Salem's in-lab United Methodist Church for an emotional tribute to deceased loved ones and the research they helped advance. Alzheimer's disease affects an estimated 4 million people in the United States, with roughly 300,000 diagnosed cases in the St. Louis area. There is no known cure for this disease, and post-mortem examination is the only way to diagnose patients with 10 percent certainty. Founded in 1979, the St. Louis Memory and Aging Project is now part of the Alzheimer's Disease Research Center (ADRC)."The center conducts long-term research on all forms of dementia, including Alzheimer's disease, and follows both patients and healthy volunteers until death. Many arrange to donate their brains to the center for autopsy. According to John C. Morris, M.D., the importance of this memorial service is crucial. "We would like to underscore our appreciation of this gift and acknowledge the immense value of the gift of the brain for research study," said Morris, the Harvey A. and Dorisache Hackett Friedman Professor of Neurology and co-director of the ADRC. "These gifts are motivated because they want to help others," said David G. McKeel, M.D., associate professor of pathology. "In this day and age, that sort of spirit is truly special. The very minimal thing we can do is say "thanks."
Exhibitions


Film

Monday, Sept. 25
6:30 p.m. Chinese Film Series. "The Scandalized Lady." Room 219 Ridgely Hall. 935-6276.

Tuesday, Sept. 26
6 p.m. New Eastern Film Series. "You at Sweetwater." Room 219 Ridgely Hall. 935-6276.

Wednesday, Sept. 27
7 p.m. Eleanor Antin Film Series. "The Lost Night of Roundup." And Friday, Sept. 29, 7 p.m. Eleanor Antin Film Series. "The Elephants," in nail polish. Or the Thursday, afternoon screening at the "Near Eastern Film Series." Room 241 Compton Hall. 935-5285.

Tuesday, Oct. 3

Wednesday, Oct. 4
7 p.m. Earl Ander Film Series. "Meet Lousiana." Gallery of Art. 935-4950.

Lectures

Friday, Sept. 22

1-800-828-1894.

Monday, Oct. 5
5 p.m. Molecular genetics seminar. "Chromatin and Cell Cycle Control in the Fission Yeast." Gerald Piatigorsky, associate professor of genetics, School of Medicine. Room 219, 4444 Forest Park Blvd. 286-1400.


Tuesday, Oct. 6
Noon. Molecular Microbiology and Molecular Pathogenesis Seminar Series. "Microbial Pathogenesis Seminar Series."D. Robert Bowers, professor of microbiology and immunology, chairman of the Department of Microbiology and Immunology, School of Medicine. Room 322, 4444 Forest Park Blvd. 286-1400.


6 p.m. Wednesday seminars. "Cellular Interactive Proteins and the Cerebral Development of the Neonate." Philip R. Dodge Lecture. "Scrambling, Doubling and Disabling the Human X-Chromosome." William R. O'Dell, Gussert/William and Roswell Messing Professor of Pediatrics, Wilf Lifshitz Professor of Pediatrics and Neuroscience, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston. Room 111, Bissell Hall. 935-5156.


Friday, Sept. 29
9:15 a.m. Pedestrian Grand Rounds. Annual Philip P. Dwyer Lecture, "Dramatically Deepening the Human Brain: Genes That Regulate the Development of the Central Nervous System." Christopher A. Walsh, professor of neurology and co-director of the Center for Human Genome Research at Children's Hospital, Boston. 935-5156.


3:30 p.m. Pedestrian Grand Rounds. Annual Philip P. Dwyer Lecture, "Dramatically Deepening the Human Brain: Genes That Regulate the Development of the Central Nervous System." Christopher A. Walsh, professor of neurology and co-director of the Center for Human Genome Research at Children's Hospital, Boston. 935-5156.


Author Ruthellen Josselson Keynoting Olin Conference

Ruthellen Josselson, author and psychologist, will deliver the keynote address for the University’s annual Olin Conference, titled “Women’s Intimate Relationships as Friends and at Work.” The keynote address, part of the Assembly Series, will take place at 11 a.m. on Oct. 4 in Graham Chapel. The address is free and open to the public.

Josselson is the author of “Revising Herself: The Story of Women’s Identity From College to Midlife,” a longitudinal study of women’s growth based on intimate interviews, and “The Space Between Us: Exploring the Dimensions of Human Relationships,” a phenomenological study of humans with one another over a lifetime.


Josselson earned a doctoral degree in clinical psychology from the University of Michigan in 1966 and has taught psychology at The Hebrew University of Jerusalem, Harvard University and Towson State University in Maryland. Josselson is currently a member of the faculty of The Fielding Institute, Santa Barbara, Calif. She is the recipient of the Henry A. Murray Award from the American Psychological Association and a Fulbright Fellowship. For more information, visit http://olin.wustl.edu/assembly or call 935-7258.

Sports Section

Football team wins 100th for Kickoff

Head coach Larry Kindbom picked up career Win No. 100 on Sept. 22 as the Bears posted their second home shutout of the season with a 37-0 whitewash of the Spartans Saturday, Sept. 16, at Francis Field. The victory raised the Bears’ record to 2-1 and gave head coach Larry Kindbom his 100th collegiate win. Kindbom is 72-41 since coming to Washington University from Kenyon College in Ohio.

Offense explodes for men’s team

The Bears played their usual stellar defense, limiting Wisconsin-Platteville to just three shots and one goal Friday, Sept. 15, but this match featured the explosive offensive they had been lacking in the first four contests of the season as the Bears won, 7-1. Tied 1-1 at 10:08, before scoring six goals in the second half. Freshman Steve Bujasko scored off a pass from senior captain Jason Klaas to break the tie. Bujasko’s goal opened the floodgates for the Bears, as the team took off from there, adding five more goals to bury the visiting Pioneers.

“2-2 in volleyball

The Bears were impressive in the first match each of the WU National Tournament on Sept. 16. Unfortunately, followed-up matches resulted in a 2-2 record and .115 as a team. The Bears hit just .115 as a team.

Pothom Gunn giving reading, colloquium

Tom Gunn, author of more than 30 volumes of poetry and essays, will be in residence for three weeks in October as the Visiting Hunter Professor in the Department of English and American Studies. During his stay, Gunn will conduct two events for the Creative Writing Program Reading Series — a reading Oct. 5 and a colloquium on the craft of poetry Oct. 12.

Both events are free and open to the public. The reading will take place at 8 p.m. in Hutn Lounge, Room 201 Tucker Hall.

Born in Britain in 1929 and raised and educated in London, Gunn served two years in the British Army and received a degree in English from the University of Cambridge. His first volume of poetry, "The Bitter Years," was published in 1954.

"That same year marked the turning point of my life — for it was then that I crossed the ocean to California," Gunn recalled. "I came a graduate student at Stanford and immediately began teaching at the University of California at Berkeley, from which I retired in 1999. I have lived in San Francisco ever since. It is thus for good reason that I call myself an Anglo-American poet.""According to poet Carl Phillips, director of the Creative Writing Program and associate professor of English, "Tom Gunn’s work fuses elegy and epigram, confession and social commentary, elegy and epigram, and dropped to the defending national champions, 3-0 (9-5, 15-9, 15-2, 15-2). In the third match of the weekend, the Bears ran over No. 15 Ohio Northern University, winning an amazing 318 as a team, led by freshman Amy Brand's .803 hitting percentage with 25 kills. The Bears finished out the weekend on a team note, dropping a four-game match versus University of Wisconsin-River Falls. The Bears, who dropped their first game but put it together in the second to hit .684, hit just .158 in the next three matches. Gunn’s works will be available at the University Bookstore (Continues Oct. 9, 16 and 23.) Cost: $5. Admissions Department, 286-1900."

Putting the pressure on

Heads turned to open the public

BY LIAM OTTEN

Washington University in St. Louis

Sept. 22, 2000
degree from Saint Louis University in 1964. He became a prominent physician in the Kansas City area. He was a founder of the Kansas City Southwest Social Circle in 1923 and was a leader in several national radiological associations. He died in 1953.

Farrow was born in St. Louis and received a scholarship to the University. She earned a bachelor’s in English with honors in 1926; followed by a master’s in English a year later.

Farrow has been a generous benefactor of the arts and higher education, including Washington University in the Engineering School. Many students attend the University on Florence Skinner Farrow endowed scholarships, and, in addition to the Skinner University in systems science and mathematics, there are also a Joseph H. and Florence Farrow professorship in biomedical engineering.

In 1997, Farrow received the Dem’s Medal, her outstanding support and lasting impact on the school. Farrow died Feb. 15, 1999, at the age of 91.

Byrnes was appointed dean of the engineering school July 1, 1991, and oversees 1,100 undergraduate students, 750 graduate students and a faculty of 85. He joined the faculty as professor of systems and control chair of the Department of Systems Science and Mathematics in 1989.

Byrnes is a native of New York City. He received a bachelor’s degree in mathematics from Manhattan College in 1971, and master’s and doctoral degrees, also in mathematics, from the University of Massachusetts in 1973 and 1975, respectively. He began his academic career as an instructor of mathematics at the University of Utah in 1975. He joined the Harvard University faculty in 1978 as an assistant professor with a joint appointment in the Department of Mathematics and the Division of Applied Science. He was promoted in 1983 to associate professor on the Gordon McKay Endowment in the Division of Applied Science.

He has also taught at Arizona State University and has held visiting appointments at institutions in Europe, Japan, and the former Soviet Union, as well as in the United States.

A recipient of many honors, Byrnes was appointed honorary director of technology by Sweden’s Royal Institute of Technology in 1998.

Byrnes is the chairman of the board of the Byrnes Endowment in the Division of Applied Science.

Catherine Morris Byrnes, have served on the board of directors of Sweden’s Royal Institute of Technology dating back to the 1980s.

Byrnes was appointed honorary director of technology by Sweden’s Royal Institute of Technology in 1998. Byrnes has served on many boards of directors for various corporations and is a member of the Board of the Center for Emerging Technologies in St. Louis.

Byrnes and his wife, Catherine Morris Byrnes, have three children, Kathleen, Alison and Christopher Jr.

There are literally hundreds of species of flora and fauna in the Tyson domain. Scores of bird species maintain traveling songbirds, stop by during the spring and fall on their migratory treks. Foxes, coyotes, deer, turtles, lizards, snakes, skinks, news and frogs abound. Species range from 12 kinds of salamanders, 15 frogs and toads, 10 turtles, eight lizards, four skinks, two vipers and 17 snakes, Prairie plants, such as wildflowers and tall grasses, thrive in the grassy areas.

Sexton called Tyson “an opportunity knocking,” and Loos hopes to make the knock even louder.

Campus Watch

The following students were reported to University Police Sept. 13–19. Reports with existing case number will take place at the University Police Station. Remaining cases may be available on the University Police Web site at www.wustl.edu/police.

### Sept. 14

9:54 a.m. — A staff member reported the theft of a computer monitor from Campus Post II. The loss is set at $500.

### Sept. 15

8:07 a.m. — Two students were arrested for the possession of marijuana.

### Sept. 17

12:23 p.m. — A student was verbally harassed and then struck in the face as he walked through the Firestone Commons area. He declined medical treatment.

University Police also responded to six additional reports of theft, five additional reports of damage and three reports of vandalism, two reports of attempted theft, and one report of each of malicious mischief, property, auto accident, public indecency and verbal threat.
**McCartney named associate vice chancellor for research administration**

D
dmit a. McCartney has been named associate vice chancellor for research administration. When she assumes the newly created position on July 1, McCartney will be responsible for the financial administration and research activities related to sponsored research at both the Medical and HillTOP campuses.

The position was created in response to rapid changes in research during the last several years. More discovery grants were made, more patents granted and more funds are available from more sources.

In fiscal year 1999, researchers at Washington University in St. Louis received 1,651 grants totaling an estimated $354 million. By comparison, in fiscal year 1998, researchers received $334.2 million. Increasing emphasis on interdisciplinary approaches has opened a wealth of opportunities to the university. At the same time, regulation agencies are monitoring research institutions more strictly.

These activities have challenged the existing administrative support system. McCartney will work with her staff to identify the research Support Services Assessment Project (RSSAP) that enhances research administration responsiveness to postdoctoral fellows, for example, as well as to other campus units.

In her former position as assistant vice chancellor for research administration at the University of California, Irvine, she gained a reputation for working with research administrators from other campuses and ensuring compliance.

Before coming to the medical school, McCartney was administrative director of Camino Medical Research and a doctoral candidate in Comparative Literature and Modern Languages from the University of St. Andrews in Scotland. She holds a bachelor's degree in English from the University of California, Berkeley, and a master's degree in English Literature from the University of Leeds in England.

McCartney was administrative director of the Department of Biologic Research at the University of Washington and a member of the faculty of the University of Washington School of Medicine.

She is also the author of a recent monograph, "The CIAM Discourse on Urbanism, 1928-1960" (MIT Press, 2000). In her book, McCartney examines the CIAM Discourse on Urbanism and its impact on modernist architecture. The CIAM Discourse on Urbanism is a set of international congresses organized by CIAM, the Congrès Internationaux d'Architecture Moderne, and its associated Special Interest Groups. McCartney's book provides a critical analysis of the CIAM Discourse on Urbanism, highlighting its influence on modernist architecture and its relationship to other architectural movements of the time.

McCartney's work on the CIAM Discourse on Urbanism has been recognized with several awards, including the National Association of Architecture Professors' Outstanding Scholarship Award and the AIA/SAAR Foundation Award for Research in Architecture. She has also served as a consultant to the United Nations Educational, Scientific, and Cultural Organization (UNESCO) and has contributed to various publications on modernist architecture.

McCartney's research interests include the history of modernism, the CIAM Discourse on Urbanism, and the relationship between architecture and urban planning. She has published extensively on these topics and has given lectures and presentations at numerous conferences and seminars around the world. Her contributions to the field of modernist architecture have been recognized with several awards and honors, including the AIA/SAAR Foundation Award for Research in Architecture.

In addition to her academic work, McCartney has been active in professional organizations, including the American Institute of Architects and the Society of Architectural Historians. She is a member of the editorial board of several architectural journals and has served on the editorial boards of the journals *Journal of Architectural Education* and *Journal of the Society for Architectural Historians*.

McCartney's research on the CIAM Discourse on Urbanism has been widely recognized and has contributed to a deeper understanding of the relationship between architecture and urban planning. Her work has been instrumental in highlighting the importance of interdisciplinary research in the field of architecture and has helped to advance the study of modernist architecture.
Math professor is study in topology

Transferred, yet still the same, Ronald Freiwald, Ph.D., is pillar of department

BY TONY FITZPATRICK

It remains much the same stalwart scholar and teacher that he was in 1970 freshly arrived from the University of Rochester, where he studied in topology. In his three decades at Washington University, Freiwald has been transformed many times — and no doubt constantly pulled in at least two directions.

Freiwald has been a researcher and an educator, from the mathematics department in Arts & Sciences who teaches some of the most challenging and innovative courses offered to undergraduates. He's been actively advising mathematics students and developing the department's curriculum. Three times he's been awarded the Arts & Sciences Faculty Teaching Award from the Council of Students of Arts & Sciences, and in 1997 Missouri Gov. Mel Carnahan presented him with the Governor's Award for Excellence in Teaching. In 1992, he received a Distinguished Faculty Award from the University's Alumni Board of Governors at Founder's Day ceremonies.

Administrator as well

While maintaining this active profile, Freiwald has served with popular teacher to successful administrator for five years, 1985-1990, when he ran the Arts & Sciences Summer School program. In 1989, he added a further role — acting dean of Undergraduate Education — to his administrative duties for a year. He has been University coordinator in mathematics from 1973 to 1990.

"Summer School" was a fun job because it was like running a mini-university on a tight budget, he said. For five years, I knew someone in almost every academic department, I felt I had a much stronger integration into the university, and certainly a much stronger network of people. For 10 years, I was drawn on them for many different things.

"And from the beginning," he added, "I learned that I like running things where I can get my hands dirty."

Today, Freiwald’s hands are still unsmudged, if you will, plunged into much of the topoi of the mathematics department. He currently serves as chair of the department’s undergraduate committee, which plans and implements the entire undergraduate mathematics program. He also serves on a number of boards and committees and is a staunch advocate for keeping mathematics a core subject beyond high school. He explained, in a recent interview, how young and/or not-so-young assistants’ assignments and student advising. For instance, Freiwald has put a lot of time into making the department’s undergraduate program more informative and user-friendly. He thinks it is one of the factors contributing to the rising number of mathematics majors at the University over the past few years, now numbering about 100.

"We have more declared mathematics majors than we’ve had in the last 10 years that I can think of, and that’s gratifying to all of us in the department," Freiwald said in his Cupples I office, surrounded by an array of framed line images ranging from house cats to lions.

Shortly after his stint as Summer School director, Freiwald made another key contribution to his University — and department — when he designed "Calculus II With Computation," which, in the fall of 1992, became the first calculus course binshlled with a computer laboratory.

"The course has become very popular and fills up every fall," Freiwald said, "I really enjoy teaching it because students who take it get the subject matter and are motivated by it."

Freiwald has taught calculus nearly every year in recent years and Topology 417-418 roughly every other year. He describes the latter as a "gateway" course for serious mathematics students.

"It’s a basic tool for all sorts of advanced mathematics, and it draws us into undergraduate majors, as well as occasional students from other departments," he said.

Thirty years of mathematics education provides Freiwald with a keen perspective on students and their integration into the university with virtually every teaching force in shaping their undergraduate education, said Edward S. Macias, Ph.D., chair of the Mathematics, Statistics and Computer Science faculty.