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# W.U. RECORD



*Peter H. Zimmerman*  
Miguel Dajdaj, a business graduate student who is fluent in French, leads a French drill class using the "Dartmouth" method. Since the new technique as implemented at WU, enrollment in French has increased 86 per cent.

## Ici on Parle Francais—WU Adopts Revolutionary Language Method

Time magazine called it "dynamiting language." WU faculty and student practitioners agree that it does, indeed, have explosive force. It is the "Intensive Languages Instruction Model," college catalogue talk for a method of teaching foreign languages which is daring, dramatic, and, yes, even drastic.

First introduced at WU in fall, 1977 to students of elementary French, this radical approach to language study was developed by Dartmouth Professor John Rassias in the mid-sixties. Rassias is to the teaching of languages what Tom Paine was to the American colonists—a revolutionary with an innate ability to spark enthusiasm and fire fervor.

Combining what one observer has called "total immersion" techniques used in language schools such as Berlitz with solid structural underpinnings, Rassias has perfected a method which is fast becoming as famous and effective in the groves of academia as Lee Strasberg's in the theatre.

The orthodox may quarrel with his ebullient, uninhibited classroom style, but they can't negate his success. From 1972-73 to 1975-76, enrollment in French at Dartmouth increased from 275 to 435, while elsewhere fewer and fewer students elected to "parler francais." Professor Richard L. Admussen, now chairman of the Department of Romance Languages at WU, is one of the many who trekked to Hanover, N.H., to find out why.

Most of them, including Admussen, went there as skeptics and came away converts to the new system. "It was like visiting the Messiah," he recalls. "By the time I arrived at Dartmouth in the spring of '77, more students on that campus were studying French than English."

Discarding what one knowledgeable observer has characterized as "the reverential classroom syndrome," the Dartmouth gadfly substituted informality and imagination in a tightly controlled situation for more traditional classroom tech-

(continued on page 2)

## Trustees Comment On Divestiture, Proxy Voting

The Washington University Board of Trustees met Fri., Dec. 8, and issued the following statement on the subject of divestiture and proxy voting:

*We have received multiple communications from various parts of the University community. We sympathize with those who are deeply concerned with the racial injustices so evident in South Africa.*

*By way of background it should be noted that the Board of Washington University is called a board of trustees. We are given, for the duration of our tenure, responsibility by the larger society for preserving, protecting and enhancing Washington University as an institution of higher learning. Not only the present but the future welfare of the University is the concern of the trustees. We recognize that other concerns may be more global and seem more pressing, but we have moral and legal responsibilities that are particularly ours. They must be discharged to the best of our ability. We do not use resources given for one purpose for other purposes, no matter how worthy. We do not use funds given for education to feed the hungry, to further world peace or for a multitude of other noble causes. Parenthetically, we feel that the preservation and enhancement of Washington University with its excellent faculty and able student body will in the long run contribute more to human welfare than we could do if we were to spend all of the resources of Washington University in more direct public*

*service or for specific political or social goals.*

*We also have taken account of the unanimously approved admonition by the Faculty Senate Council and the full Senate that the Chairman of the Senate Council requested be brought to our attention:*

*The Senate urges the Board of Trustees to reject any proposals for policy formulations that would threaten the academic freedom on this campus which the Board has respected and helped to protect for so many years.*

*Therefore, the trustees will not divest securities of corporations just because they are doing business in South Africa or buy or sell securities to further other political or social purposes.*

### Proxy Voting:

*The Board considers that the voting of proxies falls within its responsibilities for management of the University assets. In exercising its responsibilities, the Board requires its Investments Committee, which reports to the full Board, to review the voting of proxies by the investment advisors. Views of faculty and students, either of individuals or of groups, will*

(continued on page 3)



Final exams begin December 15, end the 21st.



## Varsity Sports Finish Fall Season Winning or Even

After a 1-0 win at the end of October over MacMurray College, which pushed the WU soccer Bears' won-lost record to 11 and 3, the number of fans at the soccer games began to grow.

The Bears next had an impressive 3-1 win over the University of Missouri at St. Louis, a Division II team, lost 2-3 to Columbia College and, in overtime, beat Denison University, 2 to 1. Their next foe was Ohio Wesleyan University and with that victory came the Midwest-Far West NCAA Division III Regional Soccer Championship.

Before 1200 screaming WU fans, the Bears pocketed the regional prize 1-0 and went on to the national play-offs at Babson College in Massachusetts, where they won the second-place title in Division III NCAA soccer play.

Soccer Coach Joe Carenza, whose father initiated varsity soccer at WU some 20 years ago, called the team's success particularly impressive, considering that just a few years ago, it was a "one-shirt club," lacking long and short sleeved shirts and home and away uniforms.

"Two things that characterized this year's team," said Carenza, "are the time and effort invested by everyone despite a rough practice schedule, and the fine leadership of the three co-captains, Phil Adelman, Tom Bluth and Matt Johnson. Bluth and Adelman have been on the team for four years and helped build its reputation," he added.

Because the team will lose only three graduating seniors next year, Carenza expects another good season in 1979.

As successful as the soccer team was, it was only one of several varsity teams which finished with winning or even records.

The football Bears finished 5 and 4 this fall, their second consecutive winning season despite vigorous competition and many injuries. According to Coach Chris Gianoulakis,



Only a few years ago, the WU soccer team was a "one-shirt club," says Coach Joe Carenza.

two highlights of the season were victories against the University of Rochester (11-10) and Northeastern Illinois University (38-9), a Division II team. Senior Bill Rankin, a wide-receiver, set a new team record with 47 receptions in a season.

Looking forward to a roster of 13 seniors, 12 juniors and 20 sophomores, Gianoulakis is optimistic about the team's success next year.

In cross-country this year, more team members ran faster than ever before, said Coach Charles Gatti. Five students broke the 26-minute barrier for the 5-mile run and one of them, Keith Gatti, established a new school time of 25 minutes and 1 second for that distance.

The team consistently placed well in invitational play: second at Greenville and at the St. Louis College Athletic Association Meet, third at Westminster, and fourth at DePauw. The WU team placed 8th out of 19 at the Missouri State Intercollegiate Invitational and 17th in the NCAA Regional Championship.

The women's volleyball team, coached by Cindy Rech, finished 7-7 in match play. A record of 4 wins and 2 losses against district opponents

(continued at bottom of next column)

## Francais

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niques. "Never mind, at first, accent, vocabulary or minor mistakes in grammar," he cautioned. The objective is for students to begin communicating rapidly with each other in what is for all of them, of course, an alien tongue.

To pilgrims such as Admussen, Rassias said bluntly, "I ban from the classroom any teacher who is not 'alive.' A teacher of language should be in total command of the language, but he should also be a firebrand and an actor." Saturation is another Rassias credo. His students are required to take two hours of class a day plus four hours a week of traditional lab work.

Admussen came away imbued with Russian spirit and purpose, and lost no time tailoring the Dartmouth model to WU specifications. The pattern here is four drill periods and four master classes per week, coupled with one hour of language lab. The drill classes, kept deliberately small (10 students on the average), are taught by savvy graduate and undergraduate students fluent in French. During the drills there is rapid-fire exchange between the driller and the drillees (each student averages about 140 responses a session).

Miguel Dajdaj, a Lebanese graduate business student who speaks French as if it were his native tongue, is one of seven who leads French drill classes. During each such period, he darts around with something of the frenzy of a whirling dervish, snapping his fingers to prod action while goading and coaxing students to respond.

It's quite a performance—which is what Rassias, and, in turn, the French faculty here demand. "If you want to teach, you have to be willing to walk out of class exhausted," Rassias said. In the masterclasses, taught by the faculty themselves, the elementary students are introduced to new grammar, and, they also learn to read and write French competently.

The results are impressive. WU enrollment in elementary French classes, which numbered 67 in fall, 1977, now totals 122—an astonishing 86 per cent increase. Meanwhile, nationally, French enrollment declined about three per cent. This fall faculty teaching Spanish here also opted to introduce the system.

Meanwhile, a covey of students learning rudimentary French at WU by this method were canvassed recently. Michael Riordan characterized his progress as "phenomenal. It's amazing," he said, "how fast I have been able to pick up conversational French and grammar." Jean Swanson, a biology student, is so enthusiastic that she considered switching to French as her major. "I love it," she exclaimed.

Swanson, as well as many other students, emphasized that there is a welcome spin-off from the new system. It can best be characterized as an *esprit de corps* which students, their drillers and the full-time faculty all seem to share. It is this camaraderie which spurred one group of students to write and perform a play in French, while others have formed a small choir.

Summing it up, Professor James F. Jones, Jr., director of French undergraduate studies, said: "It is mind-boggling to watch the progress of these students. This novel way of teaching foreign languages has instilled a new sense of purpose and accomplishment into a national situation which can only be described as beleaguered. Rassias has given structure to a common-sense approach."

(Dorothy Brockhoff)

placed the team second in the Missouri southeast district, qualifying the team to compete in the Missouri Association for Intercollegiate Athletics for Women (MAIAW) Small College State Volleyball Tournament. The team failed to place in that tourna-

ment.

Seventeen women came out for tennis this fall, making it one of the largest teams in recent years. The team finished the season 7 and 7. Lynn Imergoot coordinator of women's sports, coached that team.

(Charlotte Boman)



## WU Alumnus Receives Nobel Prize

For the second time in 10 years, a WU School of Medicine alumnus has received the Nobel Prize in Medicine. Dr. Daniel Nathans, who received the MD degree magna cum laude in 1954, has won the 1978 Nobel Prize in Medicine or Physiology.

Nathans is professor and head of the Department of Microbiology at Johns Hopkins University School of Medicine, Baltimore. He shared the award with Hamilton Smith, also of Johns Hopkins, and Dr. Werner Arber, from Basel University, Switzerland.

Nathans and his colleagues were cited for their "discovery of restriction enzymes and their application to the problems of molecular genetics." These genetic discoveries will help in the prevention and treatment of cancer and the diagnosis of birth defects. They may also play a role in the process of test tube fertilization.

Dr. Earl Sutherland, who received his MD at WU in 1942, won the Nobel Prize in Medicine or Physiology for his discoveries concerning the mechanisms of hormone actions.

## Computer Programming Team Places First in Competition

A team of WU students has placed first in competition with 21 teams in the Fifth North Central Regional Computer Programming Contest held recently at Grinnell College in Iowa.

The winning team members are seniors David Doty, physics major from Orono, Maine; Steven Karasek, computer science major from Omaha, Nebr.; David Camp, computer science major from Pine Lawn, Mo., and sophomore Nathan Schroeder, mathematics major from Clayton, Mo.

David G. Weible, supervisor of Academic User Services at WU, coached the team.

The WU team was the only competitor to solve correctly all four of the complex computer problems presented within the five-hour time limit. Grinnell College was the only other team to solve three problems. The competition consisted of teams from Iowa, Minnesota, Missouri, Nebraska, North Dakota, South Dakota and Wisconsin.

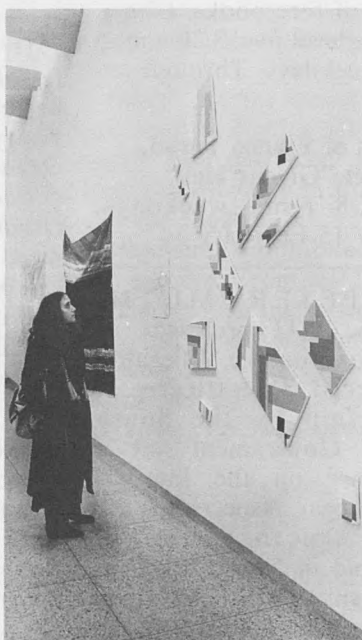
WU's team will compete in the national finals to be held in Dayton, Ohio, on February 21. The team trophy was presented to the WU Chapter of the Association of Computing Machinery at its December 1st meeting.

## Trustees

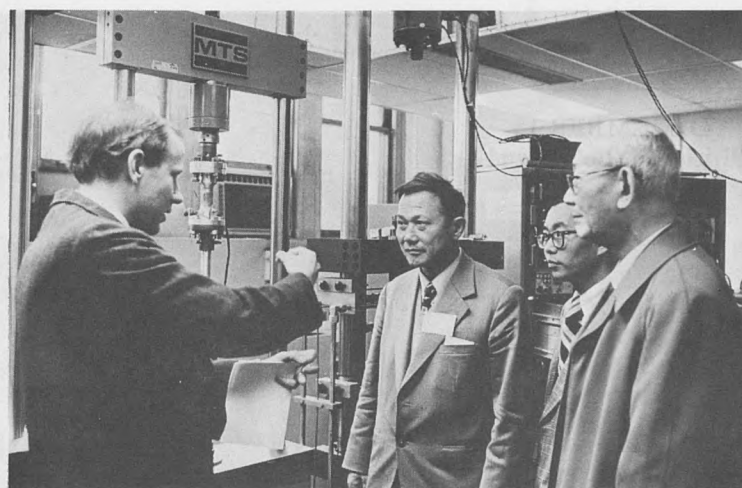
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be made available both to the investment advisors and to the Investments Committee as it reviews the activities of the investment advisors. The Board believes that this arrangement is superior to that used currently. Subsequent communications from the Faculty Senate and any recommendations forthcoming will, of course, be considered with great care.

The **WU Record** is published weekly during the academic year by the Information Office. Editor, Janet Kelley; calendar editor, Charlotte Boman. Address communications to Box 1142.



The Faculty Art Show continues at Steinberg through January 7. Above is a work by Professor Lucian Krukowski.



John L. Kardos, WU professor of chemical engineering (left) and Tzyh-jong Tarn, WU professor of systems science and mathematics (second from right), discuss the Materials Research Laboratory with two members of the Chinese delegation which recently visited WU. They are Tieh-yun Chen, professor of naval architecture (second from left), and C. King, professor of mechanics (right), both of Chiao-t'ung University in Shanghai.

## Chinese Delegation Tours Campus

A twelve-member delegation from Chiao-t'ung University, also known as the University of Communications, in Shanghai, People's Republic of China, recently toured the WU campus. The delegation spent some 40 days touring various colleges and universities in the United States.

The delegation was looking for "facilities in the United States which could accommodate advanced students and which would be suitable for an inter-university agreement," according to Professor Stanley Spector, director of International Studies at WU.

Most of their day at WU was spent touring the facilities of the School of Engineering on the main campus and the Biomedical Computer Laboratory at the Medical Center.

Chancellor William H.

Danforth presided over a luncheon held in honor of the delegation's visit. At the luncheon, Chancellor Danforth presented a steel engraved plaque depicting WU's Brookings Hall to Shu-chu Teng, head of the visiting delegation. Danforth received, on behalf of WU, a painting by the famous Chinese artist, Chi-Pai-shih.

The visitors from Chiao-t'ung University also visited the Stix International House where they inspected the liaison operations and various facilities used for the reception of foreign personnel.

While here, the delegation from Chiao-t'ung University and WU officials agreed to explore developing a "sister-university" relationship. The Chinese delegation will send a written proposal on establishing this relationship when they return to Shanghai.

THE CHRISTMAS SEASON is the time to remember those many people in the St. Louis area who rely throughout the year on aid from the United Way. WU, in its campus fund drive for the United Way, has not yet made its goal of \$77,663. At this time, only \$61,758 has been pledged. If you have not yet made a contribution or a pledge, please do so by the first week of January, if possible. The box is 1060.

**HAPPY HOLIDAYS!** The WU Record takes a vacation after this issue and will resume publication January 18.

FRED J. ROSENBAUM, WU professor of electrical engineering, has been elected to Commission A (Electromagnetic Metrology) of the International Union of Radio Science (URSI) by the U.S. National Committee. URSI promotes the scientific study of radio communications, organizes radio research internationally and coordinates international agreements upon common methods of measurement.



## Calendar

### December 15-January 18

**FRIDAY, DECEMBER 15**  
**10 a.m. Division of Biology and Biomedical Sciences**  
**Molecular Biology Symposium**, "Enzyme and Protein Function through Evolution." Speakers will include Dr. Michael Rossmann, Purdue U., Dr. Allan Wilson, U. of Calif., Berkeley (11 a.m.) and Dr. Richard Dickerson, Calif. Inst. of Tech. (1:30 p.m.). A discussion will be held at 2:30 p.m. Erlanger Auditorium, 4750 McKinley.

**MONDAY, DECEMBER 18**  
**4 p.m. Department of Chemistry Seminar**, "Beta-Lactamase Inactivation and Inhibition via Acyl Enzyme Intermediates," Jed Fischer, prof. of chemistry, Harvard U. 311 McMillen Lab.

**5:30 p.m. WU Society of Professors Emeriti First Anniversary Banquet**. Whittemore House.

**TUESDAY, JANUARY 16**  
**8 p.m. Department of Electrical Engineering Lecture**, "Radome Antenna and RF Circuitry Antenna," Gus Lindauer, staff engineer, Emerson Electric Co. 100 Cupples II. Cosponsored by the St. Louis IEEE Joint Chapter on Microwave Theory and Techniques/Electron Devices/Antennas and Propagation.

**THURSDAY, JANUARY 18**  
**11 a.m. Department of Civil Engineering Seminar**, "Some Structural Topics Related to the Trans-Mediterranean Pipeline," Guilio Maier, prof. of engineering, Instituto Di Scienza E, Tecnica Delle Costruzioni, Italy. 101 Cupples II.

## Films

**FRIDAY, DECEMBER 15**  
**7 and 9:30 p.m. WU Filmboard Series**, "A Clockwork Orange." Brown Hall Theatre. Admission \$1.50. (Also Sat., Dec. 16, same times, Brown.)

**12 midnight. WU Filmboard Series**, "If." Brown Hall



Leslie Geraci and Charles Shaw-Robinson will play the star-crossed lovers in Shakespeare's *Romeo and Juliet*, the first of three performances by The Acting Company, Jan. 18-20, in Edison Theatre. See *Performing Arts* below for details.

Theatre. Admission \$1. (Also Sat., Dec. 16, midnight, Brown.)

## Performing Arts

**THURSDAY, JANUARY 18**  
**8 p.m. Edison Theatre Drama Series**, *Romeo and Juliet*, by William Shakespeare, performed by The Acting Company. Edison Theatre. Admission \$4.80; \$3.75 for WU faculty and staff and area students; \$2 for WU students. Tickets available at Edison Theatre Box Office. (The Acting Company will also present *Broadway*, by George Abbott and Philip Dunning, at 8 p.m., Fri., Jan. 19, and *Antigone*, by Anouilh, at 8 p.m., Sat., Jan. 20, in Edison. Subscription tickets for all three plays are \$11.25.)

## Music

**FRIDAY, DECEMBER 15**  
**8 p.m. Department of Music Graduate Piano Recital**, with John Haddow, soloist. Graham Chapel.

## Exhibitions

**"Washington University Faculty Art Show,"** featuring works in all media. WU Gallery of Art, Steinberg Hall. 9 a.m.-5 p.m., Mon.-Fri.; 1-5 p.m., Sat., Sun. Through Jan. 7.

**"Lev Tolstoi"** (Leo Tolstoy), an exhibit of books by and

about the Russian author, philosopher and educator, displayed to commemorate the 150th anniversary of his birth. Included in the exhibit are a 90-volume Russian edition of Tolstoi's collected works, and many separate volumes of his novels, essays and stories and monographs by literary critics, writers and scholars on Tolstoi's contribution to literature. All volumes are from the Olin Library collection. Olin Library, level three. 8 a.m.-12 midnight, daily. Through Dec. 18.

**"Sixteen Years of Collection Building: 1962-1978,"** an exhibit of rare books. Olin Library, level five. 8:30 a.m.-5 p.m., weekdays. Through Dec.

**"Works of Franco Turini, Architect."** Givens Hall. 8 a.m.-8 p.m., weekdays. January 15-February 5.

A. PETER MUTH-ARIKA, WU professor of law, spoke on the "Illegality of Forced Divestiture of Citizenship by the South African Government" at a conference on the International Legal Aspects of the South African System of Apartheid in New York City on November 10. The conference was organized by the Lawyers' Committee for Civil Rights Under Law and the Association of the Bar of the City of New York.

## Announcements

THE MISSOURI CONCERT BALLET will present a full-length performance of Serge Prokofiev's "Cinderella" on Fri., Jan. 26, at 8:15 p.m. and Sun., Jan. 28, at 2 p.m. at Kiel Opera House. The production is underwritten by Chromalloy American Corporation, and all proceeds will go directly to the Chromalloy American Kidney Center at the WU Medical Center. Tickets are now on sale at the Kiel Opera House and at all Sears stores.

**HEATING LEVELS** in some WU buildings will be reduced over the Christmas and New Year's weekends. Reduced temperatures for non-laboratory buildings will be in effect Dec. 22-25 and Dec. 30-Jan. 1. The heat in buildings with special needs for controlled environments will not be affected. These buildings are Louderman, McMillen Lab, Radiochemistry, Bryan, Urbauer, Compton, Rebstock, Monsanto, Busch Lab, Life Sciences, Eads and Steinberg. Individuals who are planning to work in buildings in which the heat is to be reduced may make special arrangements by calling Lawrence O'Neill, administrator of physical facilities, or William Peglar, engineer, at Ext. 5550.

DAVID GUTSCHE, professor of chemistry at WU, has been appointed to the Advisory Board of the *Journal of Organic Chemistry* for the period 1979-83. The *Journal of Organic Chemistry* is recognized as the leading American periodical devoted to general organic chemistry.

THE ENGINEERING PLACEMENT OFFICE, formerly in Bryan 201, has moved to temporary facilities in a recently completed structure located just west of the Radiochemistry Laboratory on the Millbrook side of campus. The new building will provide temporary facilities for recruitment interviews as well as placement records and personnel.