Joseph J.H. Ackerman (left), Ph.D., professor and chair of chemistry, and Ken Tasaki, Ph.D., computational chemist, examine the changing form of a DNA molecule. At the Center for Supercomputing in Chemistry in 429 McMillen Hall, researchers are able to create movies of high-tech dimensions.

State-of-the-art
Supercomputing center solves research problems, assists teaching

W
ashington University inaugurated a new section of the electronic information superhighway when the Center for Supercomputing in Chemistry at Washington University officially opened in a ceremony Feb. 4 at 429 McMillen Hall.

The center, the only one of its kind in Missouri, is funded by the National Science Foundation and the Whitaker Foundation. While the center is housed in the Department of Chemistry, it is available to all University faculty, some of its students, and anyone in the world with Internet access.

Other Washington University programs that impact the superinformation highway include: the Department of Computer Science's "wuarchive," the most popular archive on the 15-million-user Internet, and the systems for Supercomputing in Chemistry in 429 McMillen Hall.

Researchers are able to create movies of high-tech dimensions.

Continued on page 6

National Cancer Institute official joins faculty

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aniel C. Idaho, M.D., deputy director of the National Cancer Institute (NCI), joined the School of Medicine faculty on Feb. 15 as professor of medicine and director of the Barnard Cancer Center.

He has taught at NCI for 20 years, as assistant professor of medicine at Georgetown University from 1978 to 1983. Shimada also was co-chair of the NCI's Cancer Therapy Research Group. His research in cancer chemotherapy, molecular biology, and protein chemistry led to the clinical use of many new drugs.

His research focuses on developing new therapies for cancer and other diseases.

He became a senior investigator at the National Institutes of Health in 1980 and the National Cancer Institute in 1983.

His work has been recognized with many awards, including the National Cancer Institute's Outstanding Investigator Award in 1983. He also has been elected to the National Academy of Sciences and the American Academy of Arts and Sciences.

Daniel C. Idaho
Center. He has served as deputy director of NCI since 1991 and has been an editor-in-chief of the Journal of the National Cancer Institute since 1988.

He became a senior investigator at the NCI's National Institute of Diabetes and Digestive and Kidney Diseases in 1978, and was a member of its faculty from 1978 to 1983. He also was co-chair of the NCI's Cancer Therapy Research Group. His research in cancer chemotherapy, molecular biology, and protein chemistry led to the clinical use of many new drugs.

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Vol. 18 No. 20    Feb. 17, 1994

WASHINGTON
UNIVERSITY
IN ST. LOUIS

Student recruitment given campus-wide help through cluster

As part of a series on the University Management Team, the following articles focus on the efforts of the Admission-Financial Aid Cluster. Earlier articles have outlined the work of the management team and the Student Experience Cluster. A future issue will detail the efforts of the Student Experience Cluster.

While undergraduate admission and financial aid have a long tradition of close working ties at Washington University, only recently have these areas joined forces in a new, more formal, more comprehensive effort. A new approach to recruitment, one that involves the entire campus, is under way.

The Admission-Financial Aid Cluster is the group charged to facilitate the process of matching prospective students and their families with Washington University. This was the first of three formal clusters created about a year ago by the University Management Team, a group of 75 administrators from the University's central administration. The cluster includes the first and Federal Fiscal Unit (CFU) and the schools. The University Management Team organized the three clusters to help participants better understand the teaching and research mission of the University and, in the process, to find better ways of serving Washington University's students, faculty and staff at a lower cost. The other two clusters are the Administrative Services Cluster and the Student Experience Cluster.

"In the past, the need for this cluster has always existed," said Dennis Martin, assistant provost and director of financial aid and co-chair of the Admission-Financial Aid Cluster. "The interaction of admission and financial aid is something that has been important for the University since the 1980s. The need for financial aid and admission to work hand-in-hand is more pressing than ever before."

"We knew from the beginning that it felt right that we were going to continue," said Harold Wingood, dean of undergraduate admission and Financial Aid Cluster Co-Chair. "Once started, we wondered how we ever did without it. We feel that by forming this cluster we are going on in recruitment, which was inefficient. Working together we can do a better job."

The key, Wingood and Martin said, was expanding their group to include administrators from almost every area of the University. In addition to admission and financial aid, the cluster includes representatives from the deans' offices of each undergraduate school, Student Affairs, Facilities Planning and Management, the Office of Public Affairs, the Department of Athletics, the Office of Student Life, Advancement and Development, and others.

"This activity brings people from all parts of the University together to reach agreement on the process," said Martin.

Continued on page 5

In this issue

Solving the mystery ...........2

Researchers pin down one of the ways tricky tuberculosis organisms thrive in humans

Aristotle to zoology ............3

Neurologist Rudolph E. Deuss, M.D., combines philosophy and science in her teaching and research

Speaking 'Gibberish' .........5

Immigrants adjust to a new life and language in "New Kid" production

Continued on page 5
Tricky tuberculosis organism tackled by scientists

Russell has shown that Mycobacterium tuberculosis can control one of its vacuoles by excluding the enzyme responsible for the acidification process. Preventing the vacuole from acidifying blocks the activity of digestive enzymes, which normally would kill and degrade the bacteria. The mechanism responsible for the bacterium's ability to exclude the acidifying enzyme from its vacuole is not fully understood and is being studied.

Given the rapid resurgence of tuberculosis (TB) cases in the United States, understanding the basic cellular biology of TB infection has a new sense of urgency. Though this work is not likely to lead to a new drug or to improve treatment of patients with tuberculosis, Russell said it may contribute to understanding how this dangerous bacterium continues to thrive within humans.
Link between brain, behavior invigorates Deuel

"Many of my friends' dads thought a woman going to medical school was an unnatural thing."
**Films**

**Thursday, Feb. 17**

**Friday, Feb. 18**
12:10 p.m. Pediatric Grand Rounds. "From Styrchispruse to Stynepruse: Understanding Epsi- lepsy Through 'Reverse Genomics,'" Stephen K. Ryan, ass'd prof., pediatrics and neuro- and structural biology and chief, Division of Pediatrics at the University of Texas Health Science Center, San Antonio. Clepton Aud. 4909 CHM 8:30 a.m.; 454-2713.

**Saturday, Feb. 19**
11 a.m.-12:30 p.m. University College Seminar — Early Events in Neuronal Development. "Candidate Genes and Candidate Experimental Approaches in the Analysis of CNS Development," David J. Gottlieb, prof., Dept. of Anatomy and Neurobiology, Room 928 McDonnell Medical Sciences Bldg. 362-7043.

**Monday, Feb. 21**
12:30 p.m. School of Medicine public screening. "Lives in the Balance," a 15-minute video addressing the value of animal research, followed by a Q&A. Remarks by Theodore J. Custer, ass't, vice chancellor and dean, for animal affairs. Wallenberg Hall.

**Tuesday, Feb. 22**

**Wednesday, Feb. 23**
7 and 9 p.m. Filmboard BAFF. "Black Girl" (1965, B&W). In French with English subtitles. (Also Feb. 24, same times.) Room 100 Brown Hall. Cost: $3.

**Thursday, Feb. 23**
7 and 9:30 p.m. Filmboard Feature Series. "You Only Live Twice" (1967, B&W) in French with English subtitles. (Also Feb. 24, same times.) Room 100 Brown Hall. Cost: $3.

**Friday, Feb. 24**
7:30 p.m. Filmboard Foreign Series. "Jailhouse Rock" (1957, B&W). (Also Feb. 27 and Feb. 20 at 7 p.m.) Room 100 Brown Hall. Cost: $3.

**Saturday, Feb. 25**

**Monday, Feb. 28**
12:30 p.m. School of Medicine public screening. "Lives in the Balance," a 15-minute video addressing the value of animal research, followed by a Q&A. Remarks by Theodore J. Custer, ass't, vice chancellor and dean, for animal affairs. Wallenberg Hall.

**Music**

**Saturday, Feb. 19**
8 p.m. Vocal jazz concert. "Larry Loves George!" — A tribute to the musical genius of George and His Genovis. Performance features Lauren Wilcox, staff member and jazz vocalist, and special guest Jeanie Fink, associate professor of music, jazz vocalist. Graham Chapel. 935-5581.

**Sunday, Feb. 20**
2 p.m. The Meditation Group. Session 1. Program is directed by Dan Prusnugr, instrumental music coordinator, and in- cludes sessions to help participants "tune in" to "Hebdies," Peter Schuko'sky's "Sym- phonic Meditation Level 1" and "Symphonic Meditation Level 2." The Makings. 454-5513.

**Tuesday, Feb. 22**
7 and 9 p.m. Filmboard Foreign Series. "Roman Scandals" (1933, B&W). Room 100 Brown Hall. Cost: $3.

**Friday, Feb. 25**
8 p.m. Graduate recital. Performance features soprano Kristyane Cheetham, graduate student, singing selections with Wolfgang Mozart and Richard Strauss. She will be accompanied by graduate student Paul Bertagnolli on the clarinet and vocal coach Andreas Pfeiffer on the piano. Graham Chapel. 935-5581.
A 90-minute-one-act version of Shakespeare's "The Tempest," which the Seattle Times described as "incredible, elegant, guerrilla, goofy, in-your-face theatre," will be performed at 8 p.m. March 5 and 7 in the Drama Studio, Room 208 McCollum Center.

The plot, the yearning for home, the themes of language and understanding...the play is performed by the Green Thumb Theatre for Young People.

One of the largest obstacles for Nick and his mother is language. In the play, the frustration and pain of being an immigrant is heightened by a culture so different from their own. Their communication is difficult because of language barriers. Nick and his mother speak English, and their neighbors speak Spanish. This is the group's first visit to the United States, except for a trip to Disney World the family took last summer.

The play, the yearning for home, the themes of language and understanding...the play is performed by the Green Thumb Theatre for Young People.

The following is a synopsis of the play's main themes:

"The Craft of Stuff As Dreams Are Made On," is the title of the play. The play, part of the " ovations! for theatre," will be performed at 8 p.m. March 5 and 7 in the Drama Studio, Room 208 McCollum Center.


The play is "The Tempest." The setting is an imaginary land of "Hollandia," and their struggles to adjust to life in a new country.

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The play, the yearning for home, the themes of language and understanding...the play is performed by the Green Thumb Theatre for Young People.
Cluster develops innovative ways to attract prospective students — from page 1

Supercomputing excites faculty, students — from page 1

Biology professors named AAAS fellows

Sandra M. Moore elected to Board

Moseley-Braun keynotes scholarship dinner
Flawed Superfund regulations damage economy, environment

Melinda Warren, assistant director of the Center for the Study of American Business, has conducted extensive research into the Superfund program and its effects on the American economy and environment.

Superfund regulations have not only damaged the economy, but they have also affected the sale of land that has never been home to any type of industry. Warren said that the Superfund program is responsible for the, "...slowly turning the Superfund sites into, "--...

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Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding applications for all positions may be obtained in the Office of Human Resources; Room 126 North Brookings Hall, or by contacting the University. All positions require three letters of recommendation.

Curator

940113. Gallery of Art. Requirements: Master's degree in art history or master's of fine arts emphasis in 19th- and 20th-century European and American art; museum or college experience in public speaking and writing skills. Resume required.

Administrator, Center for Mental Health Services Research

940136. George Warren Brown School of Social Work. Requirements: Master's of social work or equivalent; at least five years of social work experience; knowledge of mental health services; excellent written and verbal communication skills; administrative experience; experience in grant writing and knowledge of the research process; two years professional experience, preferably in a management capacity in mental health. Resume required.

Counselor

940142. Student Educational Services. Requirements: Bachelor's degree or equivalent; at least two years of college counseling experience in secondary, post-secondary or higher education preferred; knowledge of physiological testing; familiarity with the problems of academically high-risk and disadvantaged students; familiarity with the problems of disabled students. Resume required.

Secretary/Receptionist, Part-time

940157. Computer and Communication Research Center. Requirements: Bachelor's degree or equivalent; some college; typing 50 wpm with accuracy. Duties: handle calendars, schedules and files; make travel arrangements; type routine correspondence, classwork; assist in annual report preparation; assist in coordination of research progress reviews; coordinate center technology; computer systems; personnel processing and over-all computer skills; familiarity with Macintosh, Word and Excel preferred; good command of English language; ability to deal with multiple assignments and organize work. Hours: part-time, 20 hours per week, varies, 2:30-12:30 Monday-Friday; may be eight or 12 hours from 7:30 a.m. Saturdays to 7:30 a.m. Sundays.

Administrative Secretary

940162. Medical Alumni and Development. Requirements: Three or more years office experience; some college, bachelor's degree preferred; typing 50 wpm with accuracy; word processing skills; data processing and over-all computer skills; familiarity with Macintosh, Word and Excel preferred; good command of English language; ability to deal with multiple assignments and organize work. Hours: full-time, 40 hours per week, requires some travel; must be able to work at special events; ability to work well with colleagues in promoting a team environment; strong attention to detail. Clerical tests required.

Administrative Assistant

940163. Undergraduate Admission. Requirements: High school graduate, some college preferred; specialized secretarial or equivalent experience; typing 50 wpm with accuracy; excellent telephone presence; general office skills; at least five years office experience, university experience preferred; Macintosh experience preferred. Excellent telephone presence to ability to deal with heavy and chaotic work periods (OCR, PCl), excellent attendance record, flexibility, initiative and sense of humor essential. Clerical tests required.

Administrative Secretary

940164. Tyson Research Center. Requirements: Bachelor's degree preferred; typing 40 wpm with accuracy; excellent telephone presence; ability to deal with situations requiring gracious reception to all guests, co-workers, faculty, students, visitors, etc.; general office skills; ability to tolerate director's somewhat headstrong and chaotic personality. Schedules: 20-hour weeks, Monday-Friday 8-4:30, Monday-Friday 8-5; 12-hour weekend shifts, Monday-Sunday. Resume required.

Computer System Manager/Programmer

940166. Psychology. Requirements: Bachelor's degree; good language and communication skills; VMS system management experience; VMS system programming skills in ADA and FORTRAN; I-BIM compatible personal computer programming skills in C and C++. Resume required.

Programmer/Analyst II

940168. Computer and Communications. Requirements: Associate's degree, bachelor's degree preferred; knowledge and experience in software development; excellent organizational and communication skills. Resume required.

Admission Officer/Coordinator of Multicultural Studies

940169. Undergraduate Admission. Requirements: Bachelor's degree, graduate work preferred, commitment to the goals of a private, competitive university that is dedicated to the advancement of research activity to the challenges associated with building a diverse community of undergraduate and graduate students; a history of hard and a willingness to devote long hours to key administrative tasks; a commitment to diversity; a sense of humor; ability to balance a number of complex activities and set priorities; must be highly organized. Resume required.

PC Support Technician

940170. School of Law. Requirements: Associate's degree, extensive experience with IBM mainframe products; background in communicating with users; an understanding of the differences in UNIX and MS-DOS operating systems; experience with a variety of PC-based software, specifically Wordperfect, Windows, spreadsheets, scanning (OCR) and database; a strong DOS background; ability to work in a very fast-paced environment of interrupted and to do so without prompting; ability to work independently for long periods of time; excellent oral and written communication skills; excellent verbal communication skills. Resume required.

Cashier

940172. Accounting Services. Requirements: High school graduate; one year cashiering or comparable cash handling experience; ability to organize and account for a heavy, steady volume of checks and cash with a high degree of accuracy; demonstrated customer-service skills, including the ability to be courteous under all circumstances; capable of learning two complex computer systems; flexibility to work additional hours as required; flexibility to work non-traditional weekday or campus location. Clerical tests required.

Admission Market Analyst

940174. Undergraduate Admission. Requirements: Bachelor's degree; thorough knowledge of the principles of data base management and data manipulation; knowledge of mainframe and microcomputer systems and peripherals. The market analyst will provide technical support in the development of market strategies to recruit and enroll undergraduate students. This position reports to the dean of Undergraduate Admission and will work closely with key administrators and faculty members. Resume required.

Administrative Assistant

940175. George Warren Brown School of Social Work. Requirements: Some college, typing 45 wpm with accuracy; personal computer proficiency, including word processing and spreadsheets; understanding of funding guidelines that apply to the preparation of reports to coordinate, write and proofread; above average knowledge of English grammar and spell- ing: self-starting, coordination work. Clerical tests required.

Secretary

940176. University College. Requirements: Some college, associate's degree preferred; typing 50 wpm with accuracy; ability to handle multiple tasks and establish priorities under pressure; ability to meet in a pleasant and professional manner; stamina; must be able to make deliveries of correspondence and packages across campus. Clerical tests required.

Technical Sales Specialist

940177. Campus Store. Requirements: Some college, preferred; knowledge of personal computers and popular software; experience using a variety of microcomputer software, such as spreadsheets and graphics; ability to lift and carry boxes and materials and to physically able to lift and carry boxes and materials and to physically assist in the preparation of mailings of networking and communications for many faculty and staff members. Resume required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Executive officers who receive inquiries should submit a transfer request should contact the Human Resources Department of the medical school at 362-9490 to request an application. External candidates may call 362-7749 for information regarding application procedures or may submit a resume to the Human Resources Department of the medical school at 4400 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not consider candidates from outside the area of St. Louis area: excellent verbal communication skills. Resume required.

Cashier

940173-B. Radiology. Schedule: Part-time, 20 hours per week; flexible, Mondays through Thursdays. Requirements: High school graduate or equivalent; knowledge of medical terminology preferred; ability to perform accurate, precise work; ability to work well with others.

Secretary

94043-R. Medical Informatics. Schedule: Part-time, 20 hours per week. Requirements: High school graduate or equivalent; some advanced secretarial training preferred; secretarial experience; typing 50 wpm with accuracy; ability to use word processing equipment.

Secretary

94045-R. Radiology. Requirements: High school graduate or equivalent; two years related experience in medical terminology; excellent spelling and grammar skills; familiarity with dictation; typing 50 wpm.

Medical Research Technician

94046-R. Pediatrics. Requirements: Bachelor's degree, one year experience in a lab setting; ability to prepare buffers for electrophoresis; experience with molecular biologic techniques, such as blotting and hybridization preferred.

Secretary

94051-R. Psychology. Requirements: High school graduate or equivalent; three to five years related experience, including grant writing; excellent oral and written communication skills; typing 60 wpm.

Medical Secretary

940531-R. Psychiatry. Schedule: Part-time, 25 hours per week, days and hours flexible depending on work load. Requirements: High school graduate or equivalent; experience in medical setting and familiarity with grant applications and manuscript typing preferred; typing 65 wpm.

Insurance, Billing and/or Collection

940542. Health Research. Requirements: Bachelor's degree with experience in performing independent studies in molecular biology; knowledge of scientific theory; independent initiative and judgment.

Statistical Data Analyst

940583. Psychology. Requirements: Master's degree in math, computer science, data analysis, statistics; two to five years related experience; knowledge of SAS, SPSS, Splus, LISTS, D.O.S. and UNIX; ability to use PC graphics packages for production of presentation-quality graphics and familiarity with large data management packages.

Medical Research Technician

940581-R. Pathology. Requirements: Bachelor's degree with background in cell and molecular biology and/or biochemistry; one to two years lab experience; ability to work independently; must have current supervisor; tissue culture, protein purification, DNA and RNA analyses knowledge.

Medical Research Technician

940583-R. Psychiatry. Requirements: Bachelor's degree with knowledge of all theoretical aspects of molecular biology; intermediate level in computer skills with PCR and DNA sequencing (automated DNA sequence or manual gel) preferred.

Medical Research Technician

940586-R. Cell Biology. Schedule: Full-time with occasional evenings and weekends. Requirements: Bachelor's degree in biology, chemistry or related field; one to two years experience in a lab setting; knowledge of molecular biology; knowledge of techniques in working with DNA.

Employee retirement options to be discussed

A ll Washington University employees are invited to attend a March 4 presentation on retirement options. John H. Higgins, chairman and executive director of TIAA-CREF, will discuss "Investment Options for Faculty and Staff" at 4 p.m. on March 4 in Simon Hall's May Audtorium. The Office of Human Resources is coordinating the session with the Committee on Faculty and Staff Benefits. A ndreas Biggs, a former member of the University, is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the University, is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice chancellor and is now a member of the Committee on Faculty and Staff Benefits. A ndreas Biggs, who was formerly a Washington University vice -