a 0.8-giga electron volt synchrotron that has been mothballed in Berlin. Last month in Cairo, Jordan promised to fund a building for the accelerator and its upgraded beamlines at a site at Al-Balqa' Applied University outside Amman. At the same time, German research officials said they would ship BESSY shortly after groundbreaking this summer. "When this was announced, the whole atmosphere became positive, since SESAME members now think that the project will fly," notes Herwig Schopper, former CERN director-general and head of SESAME's interim governing council.

Schopper says five more countries have expressed interest in the project, making the total 16 and leaving Saudi Arabia and Syria as the only major nations in the region that have not yet joined. The members will help pay for the estimated \$8 million in upgrades needed. Construction on the new building, to cost \$11 million, is expected to begin this fall and be completed by the end of 2002.

The council also approved plans for a biomedical institute alongside SESAME. The new entity, to be called the Middle East Biological Sciences Institute for Research, will make use of the synchrotron's beamlines. "We hope it will foster regional cooperation in the life sciences," says Said Assaf, directorgeneral of the Arafat National Scientific Center for Applied Research in Ramallah and the Palestinian Authority's representative to SESAME. "Science, like medicine, is for all who could utilize it best—and appreciate it." Work on the new institute will wait until after completion of SESAME.

-ROBERT KOENIG

JAPAN

Reforms Could Threaten Facility Spending Hike

TOKYO—The Ministry of Education, Science, Technology, Sports, and Culture last week promised to spend \$13 billion over the next 5 years to renovate and expand cramped and outdated research facilities in Japan's universities. Now, the country's researchers and educators are waiting to see whether the promise survives the expected election this week of Junichiro Koizumi as prime minister and the resulting government reshuffle.

A recent ministry survey found that about one-fourth of the total floor space at national universities was more than 25 years old, meaning not only that the buildings are aging but also that they probably don't meet current standards for resisting earthquakes. Universities have also not expanded their research facilities in step with increased funding for research and additional numbers of postdocs and technicians. "The condition of facilities is really choking [research activities]," says Reiko Kuroda, a professor of chemistry at the University of Tokyo and a member of the Council for Science and Technology Policy, the country's highest policy advisory body. The council has made improving research facilities one of its priorities in a new 5-year spending plan.

The new infrastructure money is seen as a sign of the government's intent to follow the council's overall plan, which calls for spending \$195 billion on research-related projects. The problem was supposed to have been addressed under the previous 5-year plan. But a lack of coordination between the Education Ministry and the Ministry of Construction, which builds and remodels public buildings, held down spending to \$8 billion, far below the target. The council was given increased authority to carry out the program as part of a government restructuring earlier this year. "To facilitate this rebuilding, we will be trying to coordinate [efforts] among the different ministries," says Hiroshi Tamada, deputy director of policy planning for the council. The chief beneficiaries are expected to be graduate school classrooms and labs, designated centers of excellence, and biomedical facilities.

Although Japan prides itself on its ability to carry out such long-range plans, the fate of the initiative is uncertain. Koizumi, a selfproclaimed reformer within the ruling Liberal Democrat Party best known for advocating the privatization of the country's huge postal savings system, has pledged to examine public works spending, which has been used repeatedly over the last decade to stimulate a stagnant economy.

Shinichi Yamamoto, director of the University of Tsukuba's Research Center for University Studies, says he believes there will be



Structural changes? Junichiro Koizumi has pledged to take a close look at all government

strong support for continuing the recent boost in science funding. "And I think there is widespread understanding that we cannot perform research just with money; we need infrastructure, too," he says. Still, he and others realize that it may be a while before they find out if the new government agrees.

-DENNIS NORMILE

TASTE RESEARCH

New Gene May Be Key to Sweet Tooth

Can't resist sweets? Sensory scientists have discovered a gene that may be responsible for your sweet tooth. Variations in the gene seem to explain why some mice prefer sweet flavors more than others do, and the same may be true for humans as well.

Researchers have known for many years that taste cells on the tongue recognize five distinct tastes-sweet, sour, bitter, salty, and umami (or monosodium glutamate). For sweet, bitter, and umami tastes, this is done with the aid of cell surface proteins called receptors that bind to a particular taste chemical and then send a message to the brain. (Sour and salty directly change the ion flux of taste cells.) Last year, scientists found genes for receptors that recognize bitter and umami tastes. But the sweet receptor has remained elusive, leaving a major gap in our understanding of how humans recognize the spectrum of subtle flavors in the gustatory universe.

Now, four research groups have isolated a gene that may code for the sweet receptor. The work is published in the May issue of Nature Neuroscience by Robert Margolskee and co-workers at Mount Sinai School of Medicine in New York City; in the May issue of Nature Genetics by Linda Buck's group at Harvard Medical School in Boston; and in the May Journal of Neurochemistry by a team led by Susan Sullivan of the National Institute on Deafness and Other Communication Disorders. A fourth group led by Gary Beauchamp at the Monell Chemical Senses Center in Philadelphia announced its results on 27 April in Sarasota, Florida, at the annual meeting of the Association for Chemoreception Sciences.

Taste physiologist Sue Kinnamon of Colorado State University in Boulder says that the discovery of the gene "is very exciting. It allows you to really start asking what is the whole pathway that mediates this response." Understanding that pathway could, among other things, help the food industry develop better artificial sweeteners and help 3 basic researchers identify potential links between taste and dietary health.

The search for the various taste receptors has been hampered by the fact that taste cells are sparsely distributed on the tongue and are