



T. EISNER

DO IT YOURSELF

Ecologist Thomas Eisner is a photographer as well as a researcher. But the effects of Parkinson's disease have led him to explore a new way to capture images, using a colour photocopier. Eisner lays objects such as flowers and shells (as shown here) on the photocopier stage, covered with a black cloth — ideal for anyone with limited mobility, he suggests.

ON THE RECORD

“Science should claw back its nineteenth-century glamour.”

Columnist Simon Jenkins argues on *The Guardian's* Comment is Free website that specialist science education is not for the masses.

“How depressing to see ignorance championed in this way.”

Response to Jenkins's article from an anonymous poster.

SCORECARD

Mushrooms
After spinach and then lettuce were withdrawn in the United States owing to fear of bacterial contamination, one online betting site has made mushrooms the favourite to be the next foodstuff to be recalled, at 6/1.

Cloned cats
Genetic Savings & Clone, a biotechnology company that sold cloned pets, is to close due to lack of demand. Since the company opened in 2000 it has created five cloned cats but sold just two.

NUMBER CRUNCH

2-3 hurricanes were estimated to make landfall in the United States this hurricane season.

0 hurricanes have made landfall so far.

\$6.5 billion has been lost by hedge fund Amaranth, which had bet on hurricanes hitting US oil depots and forcing up fuel prices.

Sources: New York Times, NOAA

Japan's new premier chases innovation

TOKYO

In a departure from tradition, Japan's new prime minister, Shinzo Abe, has appointed a vocal supporter of science, Kiyoshi Kurokawa, as his special adviser. The two men promise to reform dramatically Japan's rigid structures of scientific education, funding and decision-making, in order to boost technology and innovation in the country. But with hard details lacking, some observers are left wondering how much will really change.

Abe took over the premier job from Junichiro Koizumi in late September. He is expected to continue Koizumi's reforms of science policy, including making universities more competitive and increasing career opportunities for young researchers and women.

But in a surprise move, on 3 October Abe appointed Kurokawa, former president of the Science Council of Japan, as the cabinet's special adviser. Kurokawa is the first such adviser with a science background — his four predecessors were economic or legal experts. The motive seems to be a desire to boost the economy without falling back on tax cuts, which are unpopular in Japan. “I think the prime minister is aware that he needs a scientific adviser,” says

Kurokawa. “To keep growing, we need innovation in science and technology that can totally change society, like the Industrial Revolution and the Internet.”

Hiroyuki Abe, a member of the Japan Council for Science and Technology Policy and former president of Tohoku University, agrees, adding: “Kurokawa is the best choice because he's been calling for innovation and reforms at the top of academia.”

Among other things, Kurokawa will help to create Innovation 25, a plan to forecast what society's needs will be in 2025, and suggest what research should be done in medicine, information technology and the environment to meet those needs. The push

gives greater impetus to the direction Koizumi wanted to move in while he was in office. A team led by Kurokawa is expected to complete the plan by around June next year. It won't include any detailed policy recommendations, but could pave the way for increasing funding and overhauling the grant system, while reforming education and research systems to make them more flexible.

Ikuo Kabashima, professor of political science at the University of Tokyo, says that

“To keep growing we need innovation that can totally change society, like the Industrial Revolution and the Internet.”

K. SASAHARA/AP

SHINZO ABE, 52, PRIME MINISTER

A prince in the political world. His father was foreign minister, and his grandfather was Prime Minister Shinsuke Kishi. The first prime minister born after the Second World War, Abe held key positions in Koizumi's administration. But he is more hawkish than his predecessor, and aims to change, or at least reinterpret, Japan's pacifist constitution to give the self-defence forces a more assertive role. He also promises to improve political relations with China and South Korea. Keen to revive the public education system, his catchphrases are “rechallenge” (giving people second chances to win good jobs) and, of course, “innovation”.



KIYOSHI KUROKAWA, 70, SPECIAL ADVISER

A physician specializing in kidney medicine. Trained in the United States, he practised and taught there for 15 years before serving as a professor at both the University of Tokyo and Tokai University. Until September he held the position of president of the Science Council of Japan, where he reformed its structure partly by increasing the number of female members and by changing the way members are selected. Kurokawa has been outspoken in criticizing Japan's universities and researchers for boxing themselves into narrow research fields, and not considering international collaborations or how their research could be of wider use.





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Currency of science: technology innovation is seen as central to Japan's economic growth.

changes could start coming into effect once Shinzo Abe has ensured the stability of his administration after an upper-house election scheduled for the summer next year. "Calling for innovation as a drive for economic growth sounds better to the public than tax cuts," he says. But he warns that conservative ministries and universities are likely to put up quite a fight rather than lose their current powers.

Researchers will also take some convincing about the reforms. Fujio Masuoka, a professor at Tohoku University and the inventor of flash memory, is sceptical about the likelihood of reform. He has experienced rejections from various ministries over the past few years, when applying for funding to create a three-dimensional semiconductor chip. He gave up three years ago and started working with a company in Dubai instead, which invested ¥10 billion (US\$84 million) in his project. "Whenever we want to try new things, we hit a wall because a consensus of several reviewers is needed and that system makes it hard to evaluate unique research properly," says Masuoka. "I don't expect anything to change in Japan." ■

Ichiko Fuyuno

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