These fears are backed up by a survey of misconduct rates among 3,000 researchers funded by the US National Institutes of Health. Published earlier this year, it found that a third of respondents had engaged in one of ten types of misconduct in the past three years (see Nature 435, 718-719; 2005, and B. C. Martinson et al. Nature 435, 737–738; 2005). Further analysis of the survey data, to be published next March in the Journal of Empirical Research on Human Research Ethics, shows that misconduct rates were highest among researchers who felt that they had been unfairly treated by other governing bodies in science, such as funding review panels. A similar relationship is likely to exist between misconduct and the perception of unfair treatment by IRBs, says Brian Martinson of the HealthPartners Research Foundation in Minneapolis, Minnesota, lead author on the two studies.

Keith-Spiegel has also studied the issue by asking scientists' opinions on fictional situations in which an IRB refused researchers permission for a study. In cases where the IRB responded in a curt manner, rather than explaining its decision, subjects empathized with the rejected researcher and assigned a less significant punishment if that researcher went ahead and ran the study anyway. The results are still being analysed, but Keith-Spiegel says they seem to suggest that researchers are more open to committing misconduct if they feel wronged by an IRB.

Keith-Spiegel and Martinson say that their findings can be explained by organizational justice theory, a well-established method for studying workplace relationships. Studies in work environments other than science have shown that employees are more likely to commit misconduct if they feel their managers are not giving them due reward or are treating them unfairly. In a paper due to appear in next month's *Ethics and Behavior*, Keith-Spiegel argues that the same relationship can exist between IRBs and scientists.

Ethics committee chairs who spoke to Nature say they try to avoid such problems by maintaining a good relationship with scientists. "I've certainly heard of problems," says Leigh Firn, chairman of an IRB at the Massachusetts Institute of Technology. "But we don't see ourselves as the ethics police. Unless it is something of substance we won't request changes." Brian Shine, a consultant at Oxford Radcliffe Hospitals Trust, UK, and chairman of a local ethics committee, adds that he invites researchers to meetings to discuss potential problems and always writes to them afterwards to clarify the discussion.

Jim Giles

Boeing strike leaves satellites stranded on launch pad

A machinists' strike is hitting some US space projects hard. It has already delayed the launch of three atmospheric satellites and it could derail a major Pluto mission if it is left unresolved.

About 1,500 Boeing machinists and engineers walked off the job at facilities across the United States on 2 November, after talks between the union and the company on health care broke down. The machinists are responsible for the assembly and launch preparation of the company's Delta rockets, commonly used in scientific missions for NASA.

The strike stopped the countdown of the National Oceanic and Atmospheric Administration's hurricane-tracking satellite GOES-N, scheduled to launch on 5 November, leaving it stranded atop its Delta IV rocket in Cape Canaveral, Florida. Boeing officials are now assessing whether it will be possible to restart the countdown using non-union employees, says Robert Villanueva, a spokesman for the company.

And delayed indefinitely are NASA's CloudSat and CALIPSO satellites, which will study the global distribution of aerosols (see Nature 437, 468–469; 2005). They were set to launch on a single Delta II rocket in November, but those plans are now on hold. David Winker, principal investigator for CALIPSO, says that the delay is especially worrying because the satellites are meant to take part in international projects in which many teams collect climate data at the same time. "These things are going to go ahead whether we launch or not," he says. "It's close to being critical."

If the strike becomes protracted, it may even affect a mission to Pluto. New Horizons would be the first spacecraft to visit the Solar System's most distant planet, and the final stage of the vehicle is propelled by a Boeing engine. If the mission misses its month-long launch window early next year, its next chance will not be until February 2007. But Villanueva says it should be possible to complete the necessary work using replacement technicians and inspectors.

He adds that there is no schedule for resolving the strike: "Basically both sides are sitting back and leaving lines of communication open."