

that males should be totally protected, but a catch of 831 females could be permitted. But the analysis also indicated that even with a zero catch the stocks would continue to decline for several years. The biological reason for this is that sperm whales are polygynous so that the past removal of breeding males, favoured by the whalers because of their large size, has resulted in a decline in the pregnancy rate of the stock.

Therefore, the Japanese argue that their current quota of 890 would make little difference to the sperm whale population, particularly since the number of exploitable whales was estimated by the IIED team to be around 200,000. But conservationist countries are keen to see a zero quota, pointing to the predicted decline in population with no fishing at all.

The inability of the special meeting to come up with catch limits was not so much the result of scientific equivocation as a political move to produce a compromise. The conservationist countries feared that had they enforced a quota unacceptable to the whaling nations, Japan would have exercised its right to object and both the procedure for cooperation and the whole credibility of IWC would have been seriously damaged.

The annual meeting of IWC in July may be faced with pressure for a ban from the conservationist countries, which will be in the majority. If Japan refuses to compromise and registers an objection, the conservationists would then have to try to apply the ultimate sanction — a US ban on Japanese fishing in its waters.

Jane Wynn

## Environmental law

# Count the risks

Washington

A subcommittee of the House of Representatives has taken a first step towards building scientific risk analysis into the federal government's regulations on environmental and safety hazards. A bill passed by a subcommittee of the Science and Technology Committee would establish a new programme under the White House's Office of Science and Technology Policy (OSTP) "to improve and facilitate" the use of risk analysis in regulatory decisions. The bill will now go to the full committee, whose chairman, Mr Don Fuqua of Florida, supports it.

The Reagan Administration is less welcoming, feeling that the goals of the proposed law could more simply be attained by rationalizing new and existing regulations. But according to OSTP, the Administration will probably find the bill "acceptable" as long as certain amendments are made.

Various members of the Administration argued in their testimony to the subcommittee that they have already taken steps to introduce a more "rational" approach to regulation. Last February, for example, President Reagan put out an executive order requiring all proposed new regulations to be accompanied by a cost-benefit analysis demonstrating that they represented the most cost-effective way of reaching their declared goals. The White House has also announced that the Inter-

agency Regulatory Liaison Group, established under President Carter to coordinate actions by different agencies, would be reconstituted as a new committee under the chairmanship of the President's Science Advisor, Dr Jay Keyworth, with the task of improving the scientific basis of regulatory decision-making.

Such changes have not satisfied the members of the House committee. Thus the new bill would assign to OSTP the specific role of establishing a mechanism for coordinating the risk analysis programmes among the participating federal agencies, primarily the Consumer Product Safety Commission, the Food and Drug Administration, the Environmental Protection Agency and the Department of Labor's Occupational Safety and Health Administration. And the National Science Foundation would be required to draw up a programme of research to make the use of risk analysis more effective. In addition, the various federal agencies would each be required to undertake a "prototypical risk analysis study".

Various powerful lobby groups, representing for example the agricultural or the nuclear power industry, have long been pushing for revisions to regulatory decision-making along these lines. The bill is therefore unlikely to lack supporters if it is sent by the full committee to the floor of the House of Representatives. But it is also likely to generate substantial opposition. Many Democrats, particularly those with close links with the labour unions, see attempts to "rationalize" regulation as a smokescreen to legitimize less stringent health and safety controls.

The Administration is likely to stand aside from any such debates. Although it claims to have made significant progress behind the scenes in eliminating unnecessary or redundant regulations, it is becoming wary of taking highly-publicized actions that might be interpreted as "anti-regulatory" given the apparent continued public support for strict environmental and health and safety controls — and the importance of the congressional elections later this year.

In a related effort to reduce the impact of federal regulations, the US Senate last week approved a proposed new bill which would give Congress the power to overturn regulations being proposed by any federal agency. The bill is being resisted by the Reagan Administration, which sees it as an attempt by Congress to place limits on the flexibility of the executive branch. It has also received strong opposition from environmental and labour groups, who argue that it would provide vast scope for individual companies and industries to lobby Congress to prevent certain regulations from coming into effect. Supporters of the new ruling, however, argue that regulatory agencies frequently exceed their congressional mandates, and that checks are now needed to limit their autonomy.

David Dickson

## Join the queue for monoclonals

St Louis

The Monsanto Corporation of St Louis, Missouri, has made a multi-million dollar agreement with nearby Washington University to produce monoclonal antibodies, the second such agreement the university has made with the chemical industry in the past six months.

Monsanto says it has agreed to put \$1.8 million into research projects at the university during the next three years. No contract has so far been signed between the university and Monsanto but the deal is expected to be similar to that made with Mallinckrodt Inc., also of St Louis. Last September, Mallinckrodt committed \$3.9 million to monoclonal antibody research at Washington University, the largest industry agreement ever made with an American university for this type of research.

Mallinckrodt's three-year commitment is a major one for the company, which is economizing in other areas. But despite uncertainties about patents, monoclonal antibodies hold out enormous commercial promise. Dr Thomas O. Oesterling, Mallinckrodt's

vice-president for research and development, says his company's primary interest is in *in vitro* diagnosis, where monoclonal antibodies allow much improved standardization in diagnostic kits, but it is looking at other uses. "A monoclonal antibody could carry an isotope for imaging to a target cell for *in vivo* diagnosis", and from there it is "a logical extension to therapy".

The contract between Mallinckrodt and Washington University provides for the university to hold the patents for useful products of the joint venture, but for Mallinckrodt to have the right to license them. The university's share of royalties is dependent on the success of the product on the market.

One aspect that is covered by the arrangement with Mallinckrodt is the right of publication. Individual investigators do not profit personally from an invention, although some of the royalties will be ploughed back into research in the individual's laboratory, but the individual does retain the right to publication, with the proviso that the company can screen for patentable material.

Karen Freeman