Dr Atkinson said, however, that joint projects would be given more active encouragement than in the past, including a major publicity campaign aimed at both industry and universities. Industry was less willing than in the past to risk money on basic research and long-term goals, and was increasingly focusing on product improvement. "Given these trends, the nation is becoming more dependent than ever on universities and colleges to provide the basic research for new technologies and products," he said.

Last week's move follows past criticism from Congress that industry has not been able to compete for research funds on the same basis as university research scientists, a point heavily stressed, for example, by Senator Edward Kennedy during last year's authorisation hearings.

One outcome has been a recent decision by the National Science Board to amend its language covering applications from industry for such grants. Previously it had stated that these would only be considered under certain circumstances, namely if the research was of national importance, or if industry was able to provide unusual expertise or instrumental capability. The new wording is more positive, indicating merely the type of applications that will not—rather than will—be considered.

A particular point stressed by NSF officials is that the delay before pay-off from basic research is a deterrent to industry investing in this area, and that NSF funding might help redress the situation, for example, allowing those scientists who have joined industry because of a lack of jobs in more academic settings to carry out basic science projects.

This argument is not likely to carry much weight with industry, which has recently been telling the government that basic research is a federal responsibility, while development activities should be left to the private sector (a message reflected in the proposed shape of R & D funding within the President's 1979 budget request to Congress).

The sector which is likely to respond much more to the NSF's rallying cry are the small, knowledge-intensive, high-technology firms—such as those distributed around Boston's famous Route 128—many of whom have been experiencing financial difficulties in recent years.

Such firms, however, are rarely interested in basic research as such, even in the long-term. Their main concern—for which there is at present a lack of money—is finding ways of turning a good idea into a marketable product. And this is where, in practice, NSF support will be in greatest demand.

David Dickson

Argentina: US National Academy of Sciences to send delegation

THE Human Rights Committee of the US National Academy of Sciences is to send a small delegation to Argentina next month to investigate charges of repression against scientists.

The delegation, which will also visit Uruguay, will consist of Dr Christian Anfinsen of the National Institution of Arthritis, Metabolic and Digestive Diseases, Nobel Prize Winner in 1972 for work on the structure of proteins, Dr Robert Perry, of the Institute of Cancer Research in Philadelphia, and a member of the NAS staff.

During a ten-day visit to Buenos Aires and Montevideo, the delegation will talk with both scientists and government officials about scientific co-operation with the US, and about the situation of scientists in the two South American countries.

The NAS delegation's visit follows a recent trip to Argentina by Mr Emilio Daddario, president of the American Association for the Advancement of Science, and until recently director of the Office of Technology Assessment.

Mr Daddario said in Washington last week that the actions of the security forces in Argentina had, with a few exceptions, "made a shambles" of scientific freedom, and that reports reaching the West of repression against individual scientists were not exaggerated.

Referring to moves by western scientists to boycott the International Union Against Cancer congress, due to take place in Buenos Aires in October, Mr Daddario said that many of the scientists he had spoken to in Argentina felt it important to maintain contact with their colleagues in other countries, particularly since many of them lacked funds to travel to conferences and meetings abroad.

However he also said that government officials had asked him about the attitude of foreign scientists to the cancer congress, and that he had the impression that they were concerned to appear to maintain normal international relations with the scientific community.

Meanwhile moves are gaining momentum in the US to boycott the congress in protest at the treatment of scientists in Argentina since the army came to power in March 1976. Since that date, many scientists have been reported to have been arrested or abducted without formal charges.

Last month at a meeting of American Cancer Society Research professors in Phoenix, Arizona, all 39 present found that they were unanimous in their individual decisions not to attend the congress if it is held in Argentina as planned.

David Dickson

France falls out with Pakistan over reprocessing

PAKISTAN'S reaction to the latest move of the French government to modify the accord of 1976 on building a nuclear reprocessing plant, has been quite firm and unequivocal. In view of strong public statements there appears little chance that the Pakistani government will succumb to any retraction from the agreement, or soft-peddalling. A Foreign Office spokesman in Islamabad said that the government would not accept any change or modification in the agreement already reached.

The French want to substitute a co-processing plant for the planned plutonium reprocessing plant to guard against separation of plutonium that could be used in explosive devices. A co-processing plant can only reprocess the spent fuel once or twice for use in reactors and it does not produce plutonium. Pakistan's nuclear think-tank, however, has plans for using plutonium, particularly when it develops its fast breeder programme.

Mr Munir Ahmad Khan, the Chairman of PAEC (the Pakistan Atomic

Energy Commission), when asked for the rationale behind the timing of the setting up of the reprocessing plant, explained that PAEC wanted to synchronise the installation of the reprocessing plant with the commissioning of a few more reactors, but that for various reasons the reactor programme is running behind schedule. Mr Munir Ahmad explained, however, that the reprocessing technology is highly sophisticated and takes longer to set up than a reactor.

His team would like enough time to acquire the necessary experience in reprocessing technology for its optimum use. Hence, the hurry for the reprocessing plant.

At Chashma, the site of the proposed plant (plus a 600 MW reactor), the foundation concreting is in progress in anticipation of things ultimately working out as planned.

In his recent address to the Institute of International Affairs in Karachi, Mr Munir Ahmad explained the technical and economic reasons for building a