international news

At the opening last week of the annual conference of the International Atomic Energy Agency in Vienna, the Director General, Mr Sigvard Eklund, expressed confidence in the continuing expansion of nuclear power technology. He suggested that nuclear energy based on fission provided the only immediately available alternative to fossil fuels in spite of recent optimism about the potential of alternative energy sources.

Addressing the delegates of 107 member nations of the IAEA Mr Eklund said that as alternative resources from solar, geothermal and wind power, and from nuclear fusion would not become readily available for some time and that even then those sources would provide less power than current estimates suggested.

Mr Eklund was, however, optimistic that largely under the guidance of the IAEA the problems associated with the use of fission reactors could be overcome. These included three main issues which have recently formed the focus of public debate, namely, the safety and reliability of the reactors, the disposal of radioactive waste, and the need to ensure that the spread of nuclear technology does not lead to a proliferation of nuclear arms development among the non-nuclear powers.

Dealing with the first of these points Mr Eklund said that the IAEA is engaged on a programme to formulate a comprehensive system of international

IAEA head puts faith in nuclear power

by Allan Piper

safety codes and guidelines for nuclear power plants. The agency believes, he said, that the "teething troubles" undergone by the larger reactors have now been eliminated, and that it is no longer fair to regard nuclear power stations as unreliable.

Many of the problems associated with the satisfactory management of waste products remain to be resolved, however. In particular, the IAEA is establishing a standing advisory group to examine the feasibility of burying waste in geologically stable terrain. Referring to that concept Mr Eklund drew attention to the point raised during an earlier agency conference that plutonium formed in the Oklo Formation about 1,700 million years ago decayed quite harmlessly without escaping into the environment.

On the question of preventing an escalation of nuclear weapons proliferation as more countries obtain the materials for developing nuclear power plant Mr Eklund stressed the need for the adoption of internationally acceptable IAEA safeguards. He expressed disappointment that though the Non-Proliferation Treaty Conference held in Geneva in May expressed strong support for safeguards controlled by IAEA their recommendations had not been considerably more decisive.

Calling upon the present nuclear powers as the major exporters of nuclear materials and technology, Mr Eklund urged them to take the lead by supplying nuclear resources only to those nations prepared to place their "entire nuclear activity" under international safeguards.

He stressed that commercial and political interests should not prevail over that objective, adding that further progress towards a comprehensive ban on nuclear tests by the nuclear powers themselves would assist by setting an example to the developing countries. He also proposed that the explosion of nuclear devices necessary to the development of nuclear technology be placed under international control.

Though Mr Eklund's speech reflects a confidence in the future of nuclear fission as a major source of energy he indicated that IAEA are not discounting altogether other possible sources. The agency, together with the World Health Organisation, is, he said, cooperating with the International Institute of Applied Systems Analysis on a programme to evaluate the viability of every available option.

M. d'ORNANO, the French Minister for places special emphasis on efforts to precise: whereas electricity production General of the Centre to examine the future direction of products would be 96 Mtpe instead of hydrogen and other energy sources. government energy policy, and includes 178 Mtpe. The report stresses that representatives from a very wide specreport is not always in agreement with 37 Mtpe. decisions reached by the government.

In its plans for 1985, the commission mission regarding electricity are very aspects of government policy.

Industry, has presented the conclusions reduce energy consumption. By com- would, at the present rate, have of the consultative commission on parison with 1973 forecasts, the total approximately doubled by 1985, the energy, chaired by M. B. Gregory, the consumption hoped for would be commission underlines the dangers of a CNRS 240 Mtpe (millions of tons petroleum policy exclusively favouring electricity; Scientific equivalent) instead of 285 Mtpe, and it urges that major research and Research). This commission was set up the amount derived from petroleum development efforts be made on solar,

The most striking point of the report "this is compatible with an annual is without doubt the split which has trum of interests—specialists, energy growth rate of 5.5% only at the price appeared within the commission over users, and "social partners"-so that of a policy involving strict restraint, the nuclear programme. Some of its all shades of opinion can be expressed. but it is well worth the effort to members advocate, for safety reasons, Three criteria were drawn up to help attempt to reach this goal". The the construction of nuclear power stathe working of the commission—low feasibility of the 5.5% rate as the basis tions of lower output than that financial cost, political independence, of a working hypothesis has, in any proposed by the government, the and ecological and social aspects, but case, been thrown into doubt by some balance of the energy being provided the commission "regretted that it could members of the commission. Coal con- by traditional power stations even if not report within this framework any sumption (30 Mtpe) would continue to this seems less favourably economical. coherence in the proposed courses of decline progressively, while gas con- M. d'Ornano has perhaps shown excesaction". In fact, the commission's sumption would rapidly increase to sive optimism in making the report of the Gregory commission public, for it The recommendations of the com- seems to call into question many