NEWS IN BRIEF-----

also happen to be the two that were announced before their directors were appointed. With such a weak start, it is not surprising that management at the two centres has been troubled ever since. When the Cambridge centre finally found a director — Peter Duncan, who came from the UK technology company Tube Investments Ltd — he soon turned out to be unsuitable, not because he was not an experienced manager, but because he had little background in superconductivity.

Although he was replaced in 1989 by Cambridge superconductivity researcher Yao Liang, morale at the centre remains low. The SERC review was triggered when Peter Edwards, one of four deputy directors (three too many, say some centre researchers) decided to leave for the University of Birmingham earlier this year.

■ Be more centralized. The four disciplines (chemistry, physics, material sciences and earth sciences) from which the 50-person Cambridge centre gets its researchers are located in four different parts of the university campus.

That means "a lot of pedalling" for the bicycling few who have the endurance and enthusiasm to collaborate outside of their own discipline, according to one scientist.

Next month, much of the centre will be moved into a new $\pounds 1.5$ million building, but many individual researchers will remain in their far-flung departments, making their way to the central laboratory as best they can.

SERC will decide what to do with the Cambridge and Glasgow centres in the autumn, after its funding council examines the reports from the review groups. Several of the other centres are also in line for review.

Like many other large science efforts, the IRC programme is controversial and has drawn the wrath of researchers who claim that the IRCs take money away from individual investigators. SERC, however, maintains that this is not the case, and while SERC insists that it found the money elsewhere. In a time of tight UK research funding, there are many who would like to see it cut to release funds for new grants. The Cambridge centre, for example, consumes one-third of the entire UK superconductivity budget.

Sir Mark Richmond, the chairman of SERC, is known to be less enthusiastic about the programme than was his predecessor, Sir William Mitchell, who started it. And industrial participation, at a programme-wide average of about 30 per cent, has not been up to expectation, in part due to the UK recession. Short of an economic turnaround at SERC, the current IRCs may be the last.

Christopher Anderson

Ozone hits new low

STRATOSPHERIC ozone over Europe has decreased by 8 per cent in the past decade, a decline that goes well beyond predictions, according to a new UK Department of the Environment study. The new figures - based on satellite measurements - show that the rate of depletion has doubled since 1980, compared to the previous decade. John Pike, head of the UK Stratospheric Ozone Group, which published the report, suggested that ozone levels could drop by 15 per cent of 1980 figures by 2000 in the latitudes between Spain and London. In April, a US study found ozone over the United States was also disappearing faster than expected, although the decline - 5 per cent since 1978 - was measured in winter and cannot be directly compared with the UK figures, taken in spring. C.A.

ERS-1 off at last

FLYING without insurance and with only a 4-minute launch window, Europe's first Earth Remote Sensing (ERS) satellite beat the odds last week with a nearly flawless launch following a 2-month delay. Systems testing and instrument calibration should occupy it for most of the week, but ERS-1 will then begin to receive data from its principal instrument, a microwave device that can operate as a synthetic aperture radar. Other on-board instruments will conduct environmental surveys using radar altimetry and devices to measure sea level and temperature, wind speed and direction. The scientific priority for the satellite is understanding the physical processes underlying climate change. Four microsats' that were also aboard the Ariane-4 rocket will provide communication links and study bird migrations. C.A.

Waves rediscovered

NEARLY three decades of UK government programmes aimed at harnessing ocean waves to create electric power have finally produced their first working installation — a small concrete bunker in which incoming breakers push trapped air past a turbine to send some 75 kW of electricity into the local power grid.

Located on the remote Scottish island of Islay, the station is the third fully operational wave-energy power plant in the world, joining one in Norway and another in Japan. Between 1974 and 1983, the UK Department of Energy spent more than £15 million researching several wave power designs that were eventually discarded after a heavily criticized review found them uneconomic. Funding for wave power then fell by about a factor of 10. Now the department is redoing that study, taking into consideration future restrictions on greenhouse gases, realistic fuel costs, and new technology. C.A.

In-depth probe

SEEKING to end the 'stigma' of research on Scotland's Loch Ness, UK biologists last week announced a new project to explore the lake, which, as well as being the legendary home of 'Nessie', the Loch Ness monster, is the UK's largest body of fresh water. The only previous study of the lake's topology was done in the early years of the century and even its depth is known only to be 'at least' 750 feet.

"It is time that Loch Ness was fully explored, not by publicity seekers but by scientists," said Nicholas Witchell, who co-founded Project Urguhart, the £2 million, 3-4-year effort, which is sponsored in part by the Natural History Museum. This is not to say that the scientists would ignore Nessie should it turn up. "There are several interesting observations that have yet to be explained," Witchell said. In fact, said Colin Curds, a museum zoologist, "it is highly likely that species new to science will be discovered during our studies." He has diatoms and worms in mind, but who knows? C.A.

Limits to Endurance

BRITAIN'S oldest Antarctic support ship, HMS Endurance, is rotting and rusty and may be condemned after a dry-dock inspection is completed, and battle lines are already forming over a replacement. Should Endurance be decommissioned, the British Antarctic Survey wants a replacement — preferably something similar to the Polar Circle, a ship built by a Norwegian company several years ago for US consideration. The US National Science Foundation leased a US-built boat instead, and the Polar Circle could be obtained and converted for UK research purposes for about £23 million. Military officials, however, want to apply Endurance's operating costs to offset budget cuts, and use military guard ships already assigned to the Falkland Islands for Antarctic duty. The military position is improved by the fact that a new airstrip on the Antarctic Peninsula could soon take over the simple transportation duties of Endurance. C.A.

Parallel boost

UK computer research received a boost this month when two government funding agencies announced the creation of new parallel computing centre at four universities, part of a £34-million, four-year programme that takes advantage of industrial interest - and willingness to invest - in the growing field of multipleprocessor machines. Joint government and industry funding (with about £21 million from industry) will increase staff and buy computer hardware for centres at Oxford University, the University of Edinburgh, and consortia in London and Southampton. C.A.