THE next move has now been made in sive precautions, such as no smoking, comes into play when Pyke throws the the discussions on the desirability and eating or drinking in the laboratory, bricks in one direction and rolls off in safety of certain types of experiment wearing gowns and gloves which are another. The BA Secretary, who always aimed at producing microorganisms removed before leaving and the steril- makes entertaining radio or television. containing new combinations of genetic isation before disposal of all contamin- says the demo fits neatly his function as material. According to the Working ated material, should suffice in most an explainer of scientific thought to a Party set up last August by the cases. More sophisticated procedures mass audience. So it's an important roll. Advisory Board for the Research Coun- are available for dealing with material • The recent death in a London cils under the chairmanship of Lord such as tumour viruses where the risks hospital of a patient suspected to be Ashby, the potential hazards inherent are potentially greater. There are also suffering from the virus disease Lassa in many of the new techniques for ingenious ways in which bacteria can fever highlights the growing problem manipulating the genetic make-up of be to some extent "disarmed" by muta- of importing exotic and often danbacteria can be sufficiently minimised to allow the work to continue.

The problem was brought to the attention of the public by a group of American scientists who had pioneered these techniques. A committee of the National Academy of Science under the chairmanship of Professor Paul Berg proposed a moratorium on several lines of research: the construction of new plasmids containing combinations of virulence or drug resistance genes not found naturally, and the transfer of such plasmids into organisms in which they do not already occur naturally; and the linkage of DNA from tumour viruses to plasmids or other viral DNA. Much of the danger from these experiments stems from the fact that the bacterium most commonly used as host is the common gut bacterium Escherichia coli, which might be the means of disseminating the new genetic combinations amongst humans with unpredicable results.

Conventionally trained microbiologists and bacteriologists have often regarded with some horror the cavalier way in which molecular biologists and biochemists have tended to treat the tions which do not allow them to grow organisms with which they work, and at above a certain temperature or withcan perhaps be forgiven for regarding out some rare growth factor. the current concern over bacteriological hazards with some sense of déjà vu. epidemiological monitoring of all those the oldest established biomedical lab-Their answer to the problems posed by working with the new techniques, oratories in Britain, the laboratories of possible novel organisms is that with special precautions to be taken when the Lister Institute of Preventive Mediproper precautions these bacteria can dealing with large-scale experiments cine in Chelsea Bridge Road, London. be contained in the same way that dan- and investigation into systems which gerous pathogens have been successfully contained in the past.

While recognising that the cases are plasmid combination. not exactly parallel, the Working Party in its report comes down firmly in basis for discussion at the conference sufficient new funds to prevent the favour of the view that proper precau- called by Professor Berg and scheduled laboratories from closing in 1975. tions can indeed reduce the risks from to be held next month. experiments in genetic manipulation to • The daring young man on the flying over the past few years and the research an acceptable level. They recommend machine is Dr Magnus Pyke, Secretary effort had already been reduced to a that all those working with the new of the British Association for the level which the Governing Body techniques should be trained in dealing Advancement of Science, currently to regarded as tolerable only in the very with pathogenic bacteria and should be seen on British television, advertis- short term. The laboratories in Chelsea have access to expert advice on the pre- ing the appearance of a new partwork Bridge Road were opened in 1898 and cautions necessary in any given case. about science. Actually his machine have been in continuous use for the 77 All laboratories contemplating such amounts to nothing more than a pair years of their existence. Over the years work should be properly equipped and of roller skates and a handful of bricks, the institute has made important very hazardous experiments should so nobody seriously expects Pyke to fly. contributions to the understanding of only be carried out in special labora- The aim is simply to demonstrate the infectious diseases and parasitology, as tories.

## **Round Britain**



Other recommendations include the might prove less hazardous than the prices would be needed to keep the

principle which causes a jet to move- well as of basic chemistry and bio-Certain simple and relatively inexpen- equal and opposite reaction stuff which chemistry.

gerous diseases into Britain.

Ever since its discovery in Nigeria in 1969, Lassa fever has been viewed with trepidation by health workers. The four epidemics which have occurred in West Africa since 1969 have all been marked by a high death rate among hospitalised cases and by a high risk of infection by close contact, which puts nurses, doctors and relatives caring for the patients at great risk from virusladen blood, urine and other body secretions.

There have been several cases of Lassa fever imported into Britain, the most recent being earlier this month. when a doctor returning from Kano in Nigeria, died of Lassa fever in the London Hospital for Tropical Diseases two days after his arrival in the UK. As with many tropical diseases, the main problem is a correct diagnosis, especially in Britain. Lassa fever in particular starts with a slowly mounting fever followed by headache, backache and nausea, and unless the doctor is aware that the patient has recently arrived from West Africa, where the disease is endemic, it is almost impossible to diagnose.

• GALLOPING inflation coupled with the slump in capital values of investments has finally forced the closure of one of

An extra £300,000 a year at current commonly used E. coli-drug resistant laboratories in business. But at the end of last year, it was announced that The report should provide a timely it had been impossible to secure

Warning notes have been sounded