RAL

DESIGN & DISCOVERY

Open Days July 1990

RUTHERFORD APPLETON LABORATORY

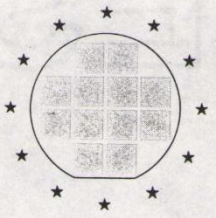
SCIENCE AND ENGINEERING RESEARCH COUNCIL

ELECTRONICS DIVISION - INTERNATIONAL ACTIVITIES

The Electronics Division encompasses a wide range of activities in support of scientific and engineering research. The breadth of activity makes RAL unique in being able to bring together many different techniques to solve particular problems in instrumentation, control and measurement. Thus the micoelectronic and electronic systems capabilities are in great demand in the international arena. As well as being fully involved in collaborative projects in the context of CERN, ESA and ILL alongside other Divisions of RAL, the Division has its own direct links with these and other organisations.

BRITE EURAM

As an extension of its primary role of supporting UK academic research activities, the Division has secured a leading role in the CEC VLSI Design Action, a project aimed at increasing the number of trained electronic design engineers by 3000 per year by 1992. As a member of the five-partner EUROCHIP Consortium, RAL is responsible for providing a pan-European Service in microelectronics CAD and brokerage(access to processing and test facilities) to enable the training to take place in a practical environment.

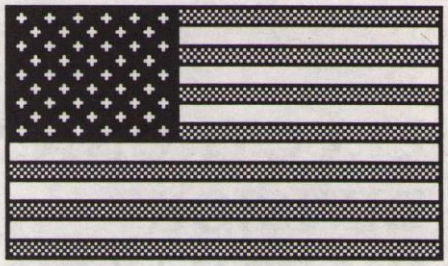


EUROCHIP

Service Organisation
CMP, DTH, GMD, IMEC, RAL

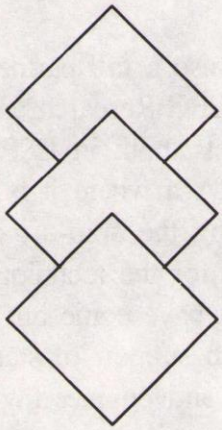
The Division is also a full partner in a number of CEC Research and Development projects, both in ESPRIT and BRITE/EURAM where it is particularly exploiting the spin-off possibilities that exist for the techniques and products that have come out of its advanced work in support of state-of-the-art scientific and engineering discovery.

Another area where the Division is playing a direct part is in the SSC(Superconducting SuperCollider) - the largest and most powerful particle accelerator to be built in the United States. The Division is involved in the early design activities in respect of the instrumentation and readout electronics for the project - it is expected that there will be many millions of chips required, of the type that the Division has already supplied to CERN and other leading HEP centres.



JESSI

A further development of the Division's work is the JESSI(Joint European Submicron Silicon Initiative) SMI(Small and Medium-sized Industries) Support project. The Division, under EUREKA-style funding, is to stimulate the use of modern microelectronics in small companies, particularly in the more traditional sectors and to increase the involvement of UK SMIs in the main JESSI research programme which is aimed to provide the microelectronic facilities that Europe needs for the 1990s and beyond. It will also be responsible for transferring JESSI results into use by SMIs at the earliest possible opportunity.



For further information on the Division's activities please contact either Peter Sharp (T 0235 446242) or Andrew Kurzfeld (T0235 445286) who will be pleased to help you.

TWENTY FIFTH ANNIVERSARY SERC 1965-1990