
People and things

Chris Llewellyn-Smith, recipient of this year's Maxwell Prize from the UK Institute of Physics.



On people

Following the resignation of Harold Agnew as Director of Los Alamos Scientific Laboratory, Robert N. Thorn, Associate Director for weapons at the Laboratory, has been named Acting Director. Dr. Thorn, at Los Alamos since 1953, received the E.O. Lawrence Memorial Award in 1967 for his work in nuclear physics.

Some changes in the UK Science Research Council: As from 1 September Godfrey Stafford will become Director General of the combined Rutherford and Appleton Laboratories. Geoff Manning will take over as Director of the Rutherford Laboratory. In the SRC Central Office Tony Eggington is now Director responsible for the Science and Engineering Divisions, Harry Atkinson has been appointed Director for the Astrono-

my, Space and Radio and Nuclear Physics Divisions and Jack Beattie has been appointed Head of the Science Division.

Among the recipients of this year's awards by the UK Institute of Physics are T.G. Pickavance, formerly director of the Rutherford Laboratory, who gets the Glazebrook Prize for his contributions to the construction and utilization of large particle accelerators in the UK and the rest of Europe; Don Perkins of Oxford who receives the Guthrie Prize for his work in cosmic ray and elementary particle physics; Chris Llewellyn-Smith, who is awarded the Maxwell Prize for his contributions to high energy theory, and C. Cohen-Tannoudji of the Collège de France, Paris, who receives the Thomas Young Prize for his work on the interactions of photons with atoms.

Radiation Course

A third course is being organized from 16-26 September at Erice, Sicily, under the auspices of the International School of Radiation Damage and Protection, devoted to 'Advances in Radiation Protection and Dosimetry and Medicine'. It will be of interest to those involved in the use of ionizing radiation for the diagnosis or treatment of disease.

The advances of the past decade in radiological physics and health physics aspects of radiotherapy will be described. Advances in diagnostic techniques (CT scanners) and treatment planning using conventional radiation (photons) will be discussed and the application of new radiation (neutrons, protons, pions, heavy ions) described. Special emphasis will be placed on dosimetry and the protection of patients and staff.

Further information is available from Victor Perez-Mendez or Ralph Thomas, Lawrence Berkeley Labora-

tory, University of California Berkeley, CA 94720. For registration, contact A. Rindi, Fisica Sanitaria, Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Frascati, Casella Postale 13, 00044 Frascati, Italy.

Users Annual Meeting

The Fermilab Users Organization will hold its Annual Meeting at Fermilab on 28 April 1979, following the international symposium in honour of Robert Wilson. The agenda and other information regarding the meeting will be sent to all members after the March meeting of the Users Executive Committee.

Kaon Factory Workshop

A two day 'Kaon Factory Workshop' will be held in Vancouver, 13-14 August 1979, in conjunction with the 8th International Conference on High Energy Physics and Nuclear Structure. The Workshop will cover both the practical design of machines to produce intense beams of kaons and other hadrons, and their physics potential. Further information can be obtained from M. K. Craddock, 8-ICOHEPANS Secretariat, TRIUMF, The University of British Columbia, Vancouver, B.C., Canada V6T1W5.

Cadmium monitors

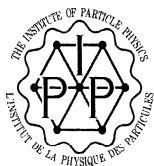
In the November 1978 issue, page 402, we reported on the mobile unit of the Medical Department at Brookhaven which uses a neutron irradiator and gamma detectors to monitor cadmium concentrations in the body. Professor J. Dutton of the University College of Swansea has called our attention to two similar machines developed and used in Europe. One is operated by the group of Professor Fremlin at Birmingham

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The INSTITUTE OF PARTICLE PHYSICS OF CANADA invites applications for Research Associate positions. Openings exist in the Canadian experimental particle physics groups located at Carleton, McGill, Ottawa, Toronto and York Universities. These groups are collaborating in experiments at Fermilab and SLAC.

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University. It has a plutonium/béryllium neutron source and has been used in cadmium surveys of liver and kidney in industrially exposed workers. The other, operated by a joint Hospital-University Group at Swansea, is known as NAOME. It has a californium neutron source and is used particularly at present in studying the suspected link between cadmium levels in the kidney and hypertension and investigating whether these are related to dietary and smoking habits.

Be va lac tuning up by computer

The heavy ion accelerator, Be va lac, at Berkeley aims progressively to increase the proportion of time it can give to physics and bio medicine as the use of computer control and database techniques in tuning up the accelerator is being extended throughout the year. This is a much more demanding process with heavy ion machines, such as the filac-Bevatron combination or the Darmstadt linac, than with proton synchrotrons, which deal with a single type of particle and which

can usually stay with a particular cycle for an extended period of time. The research programmes at heavy ion accelerators require regular changes of ion species and energies involving complete retuning. Performance of the Beva/ac during the last fiscal year exceeded the general goal of 85% machine availability, reaching an average for the year of 87%, with a peak in the final run of over 90%. The time devoted to biomedical studies has increased so that they now receive an hour for every two hours going to nuclear science. Patient treatments for cancer and diagnostic radiography with heavy ion beams now benefit from improved equipment in the Treatment Room.

In Fermilab's tradition of interest in the environment, three rare barn owls have been released at the site. Barn owls have almost disappeared from the upper midwest and naturalists hope to use the Fermilab trio to explore the reasons why they have left. Telemetry was attached to the birds and they have been spotted on the site throughout the winter. It is estimated that the owls have eaten approximately two thousand mice since they were released!

(Photo Fermilab)



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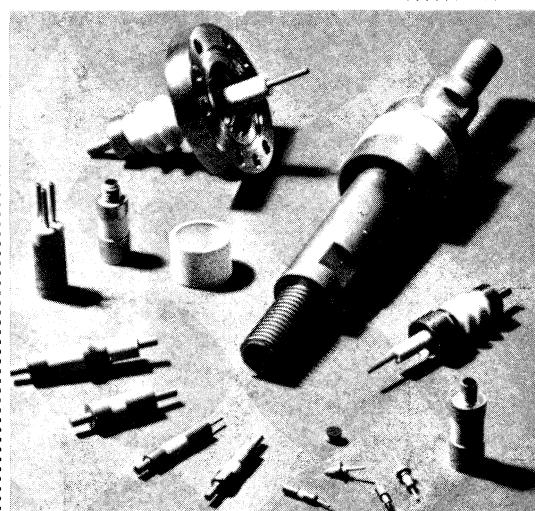
A challenging opportunity is available for an electronics designer to work in the High Energy Physics Laboratory at Harvard University. Primary responsibility will be circuit design for detector readout and data acquisition systems used in frontier experiments in elementary particle physics.

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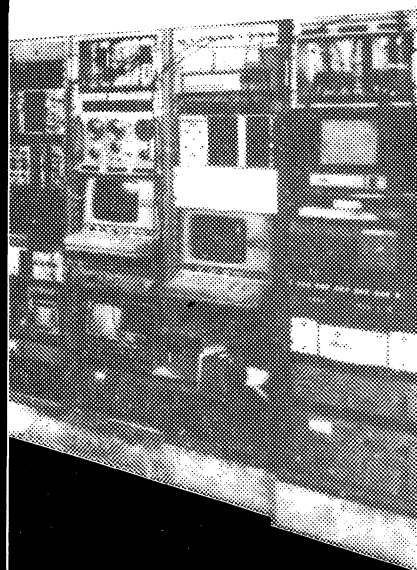
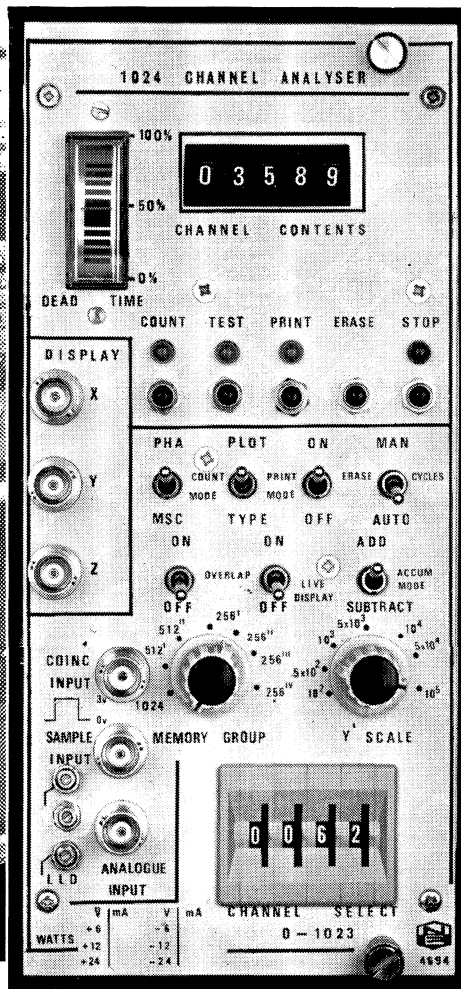
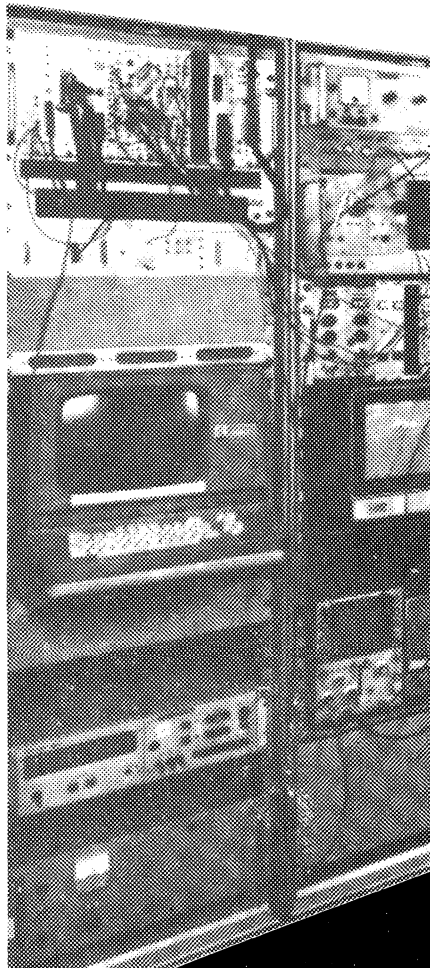
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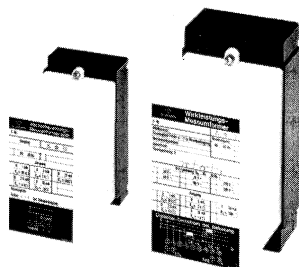
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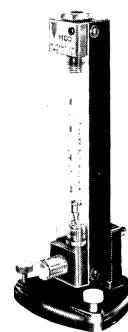
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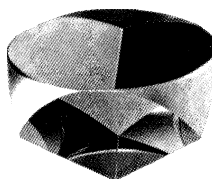


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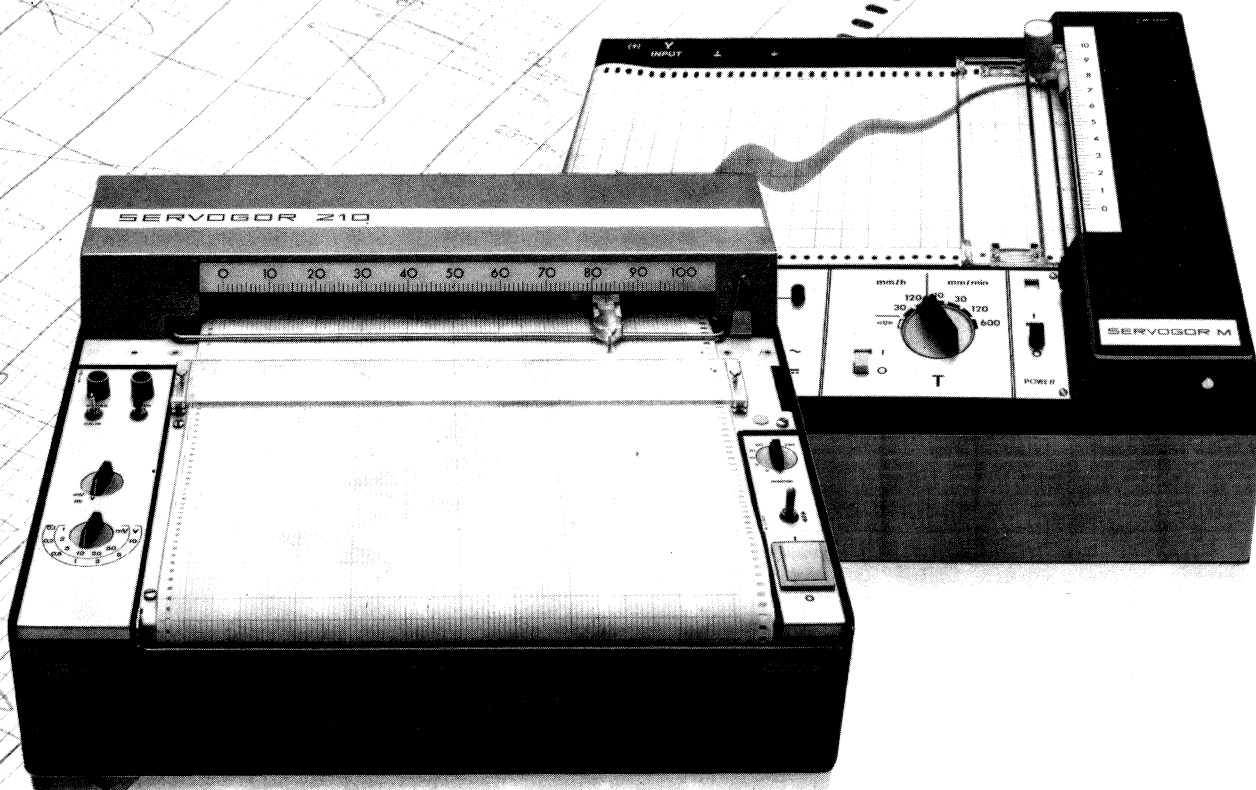


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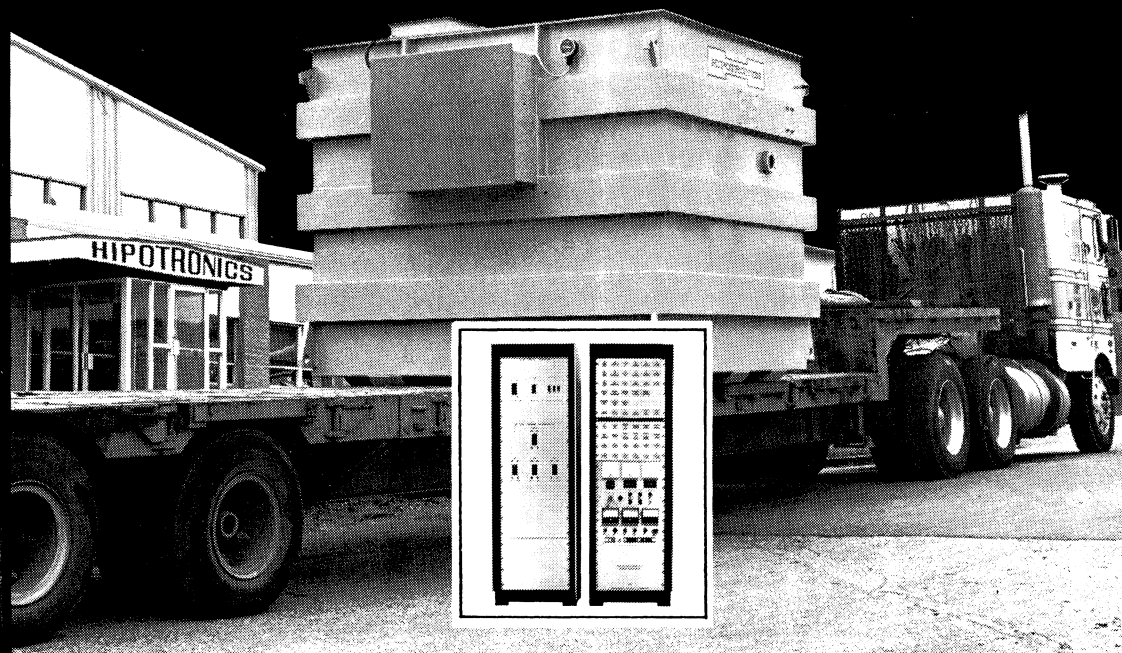
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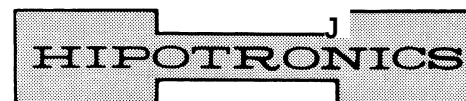
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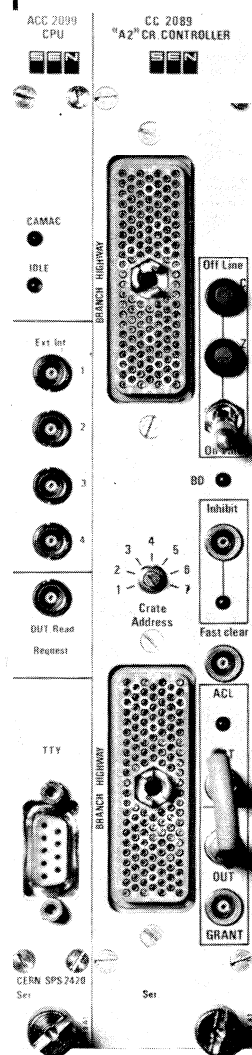
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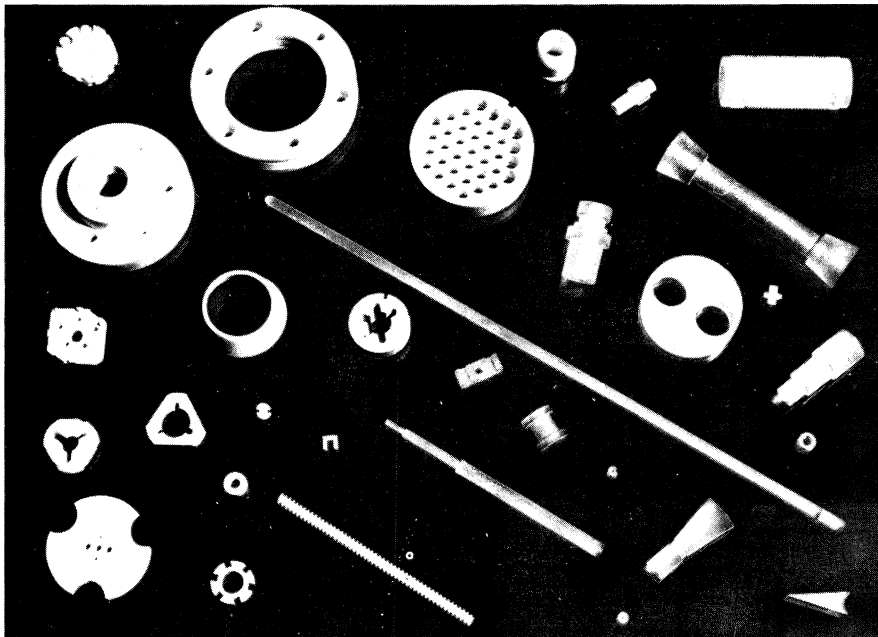
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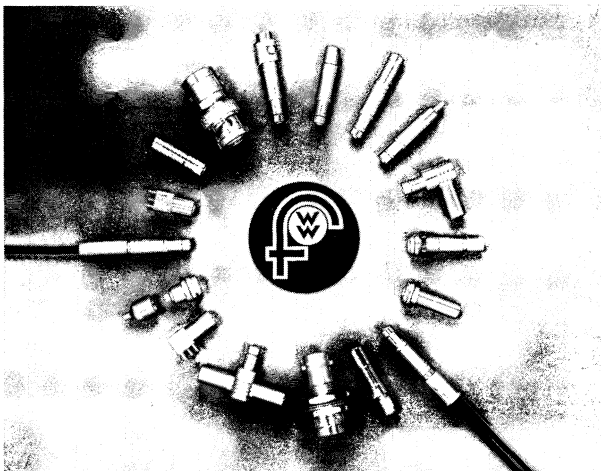
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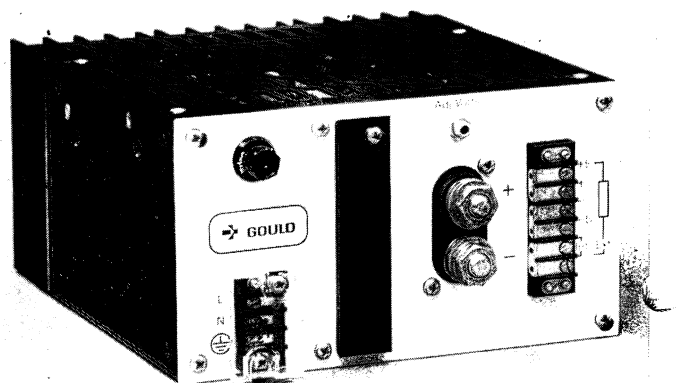
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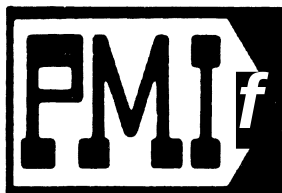
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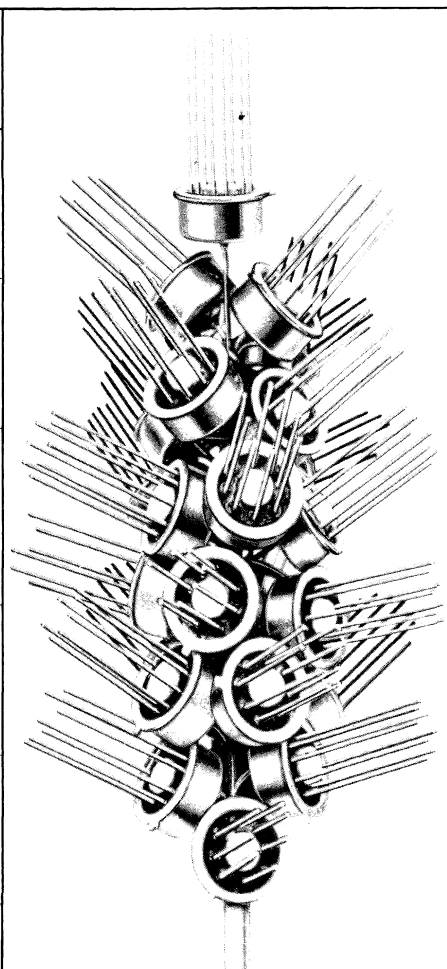
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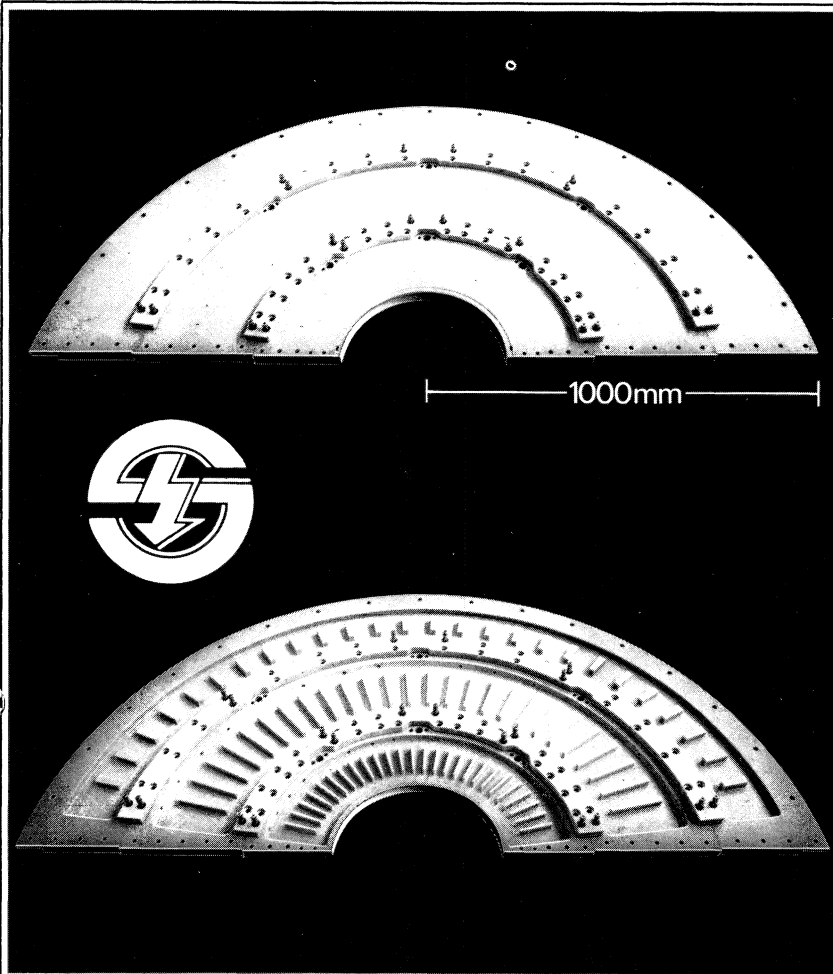
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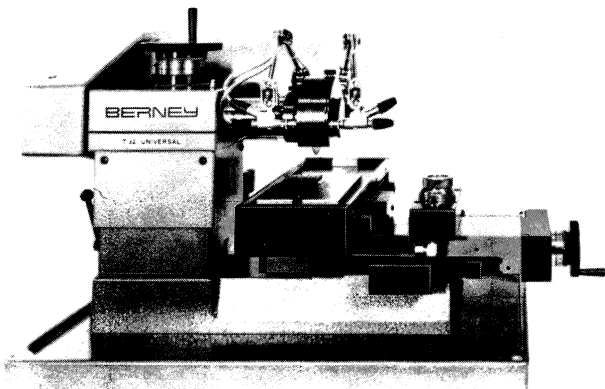
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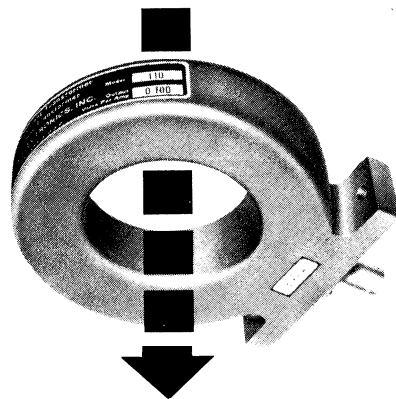
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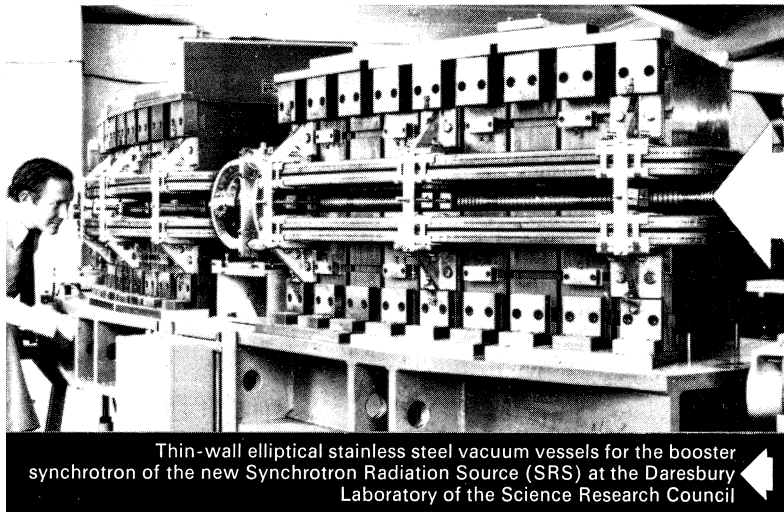
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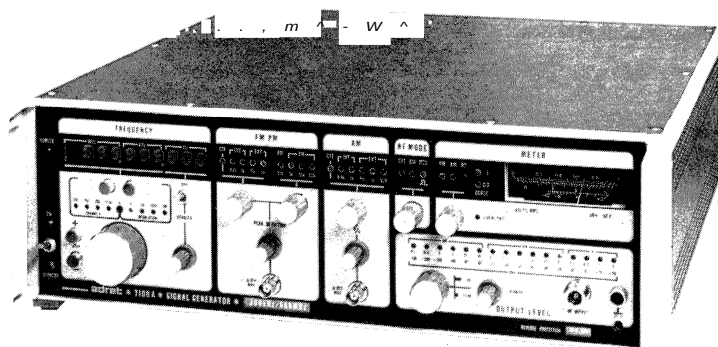
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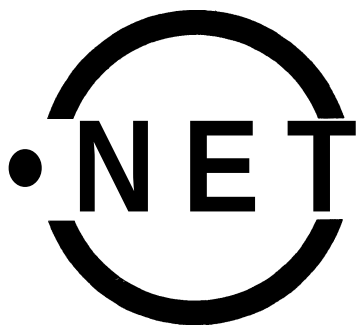
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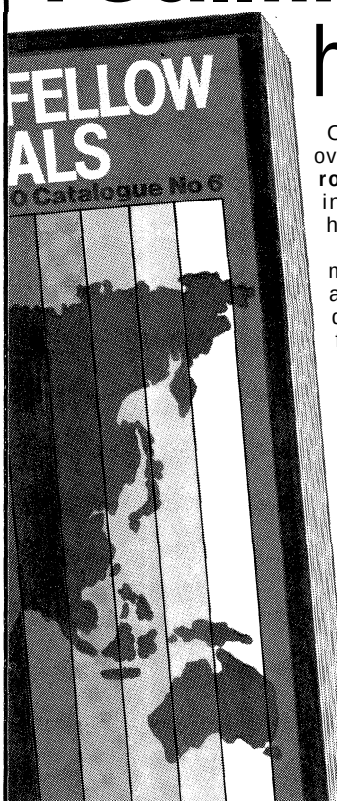
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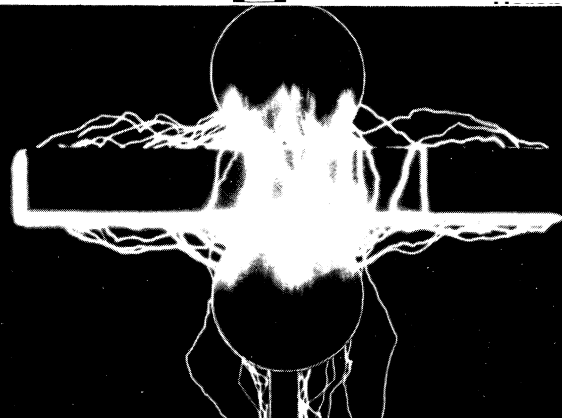
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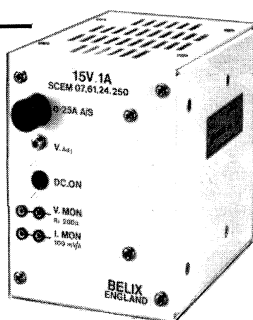
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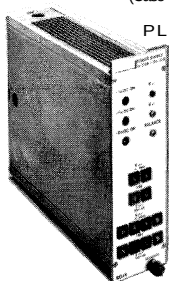
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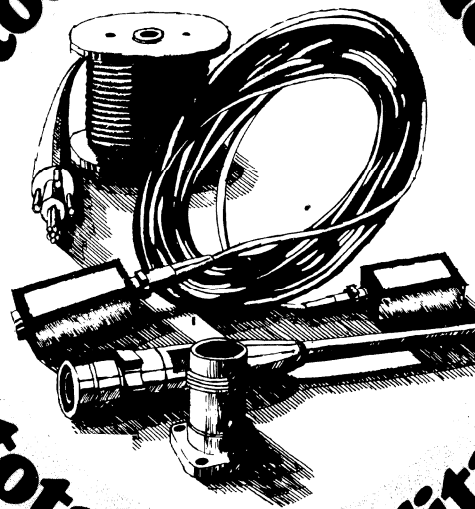
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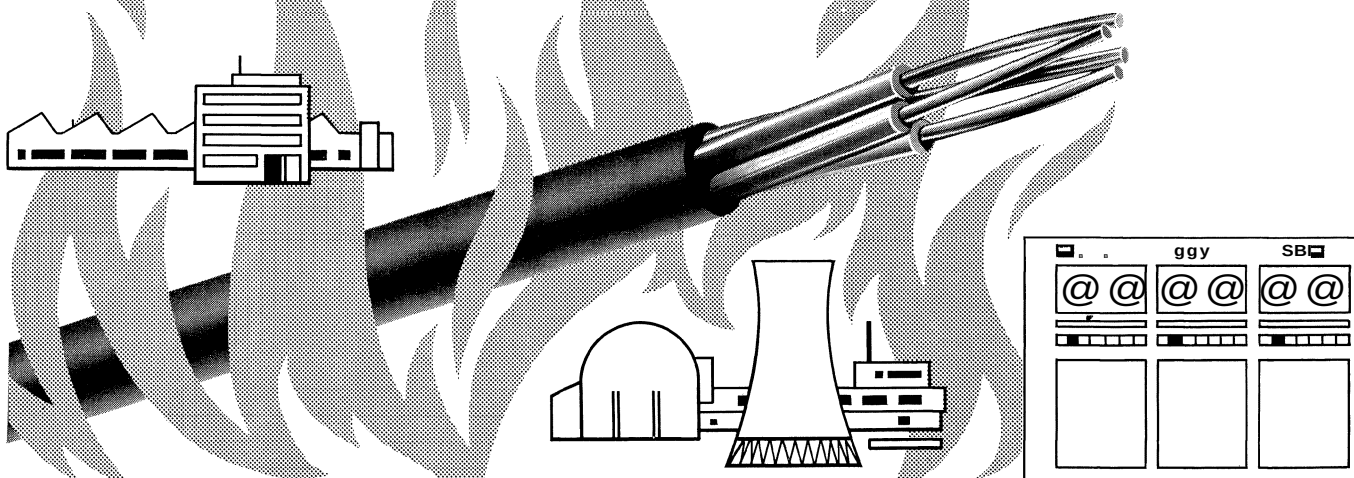
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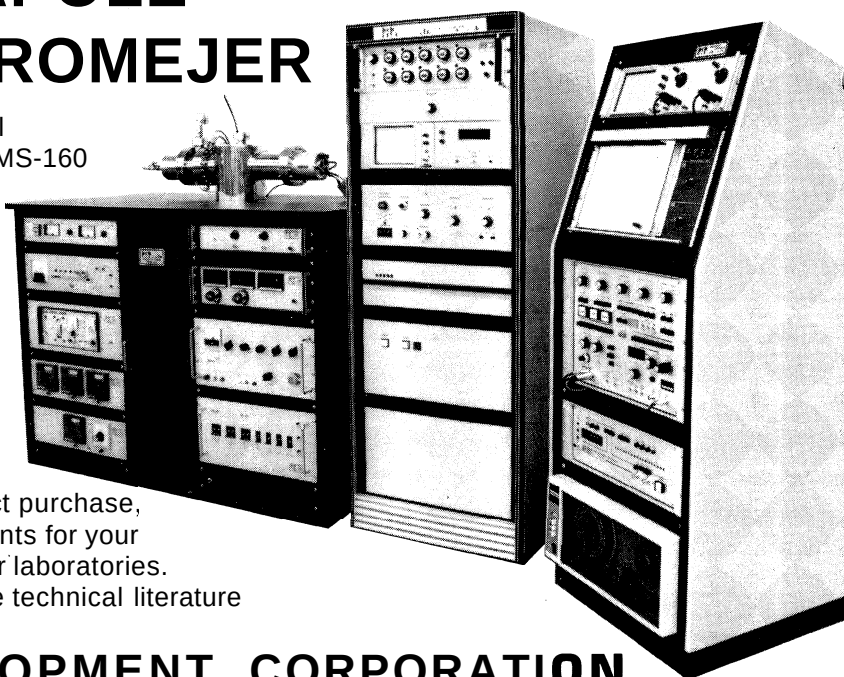
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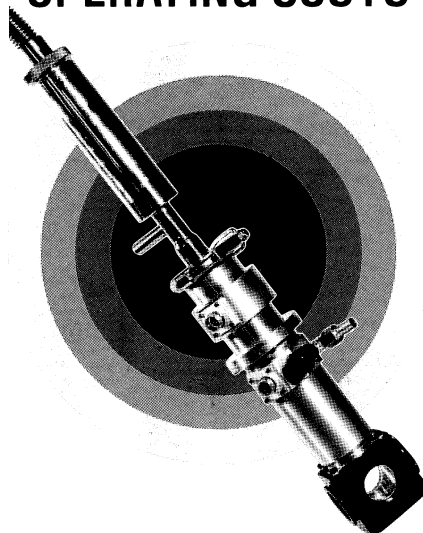
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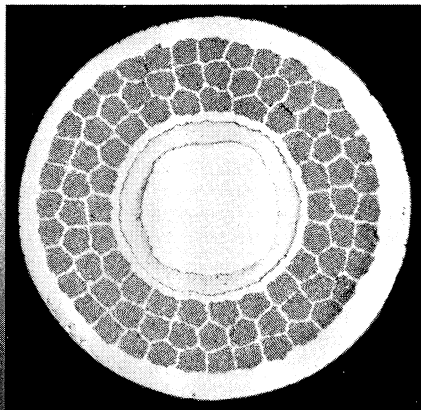


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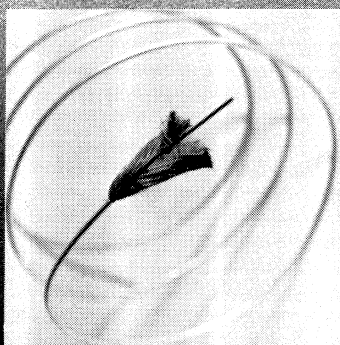
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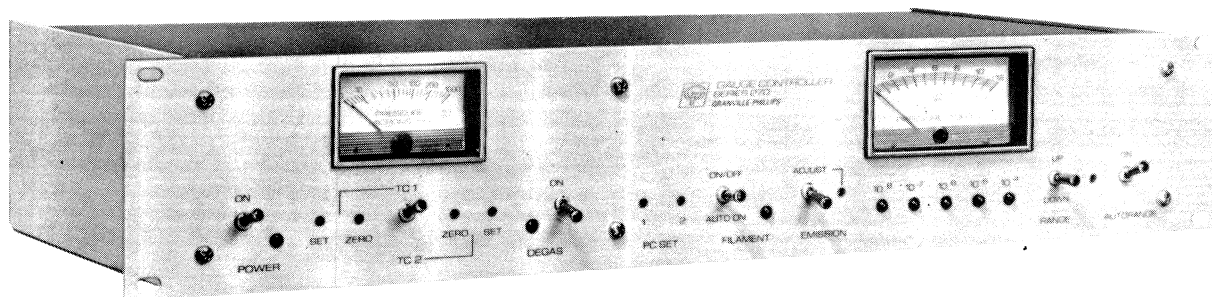
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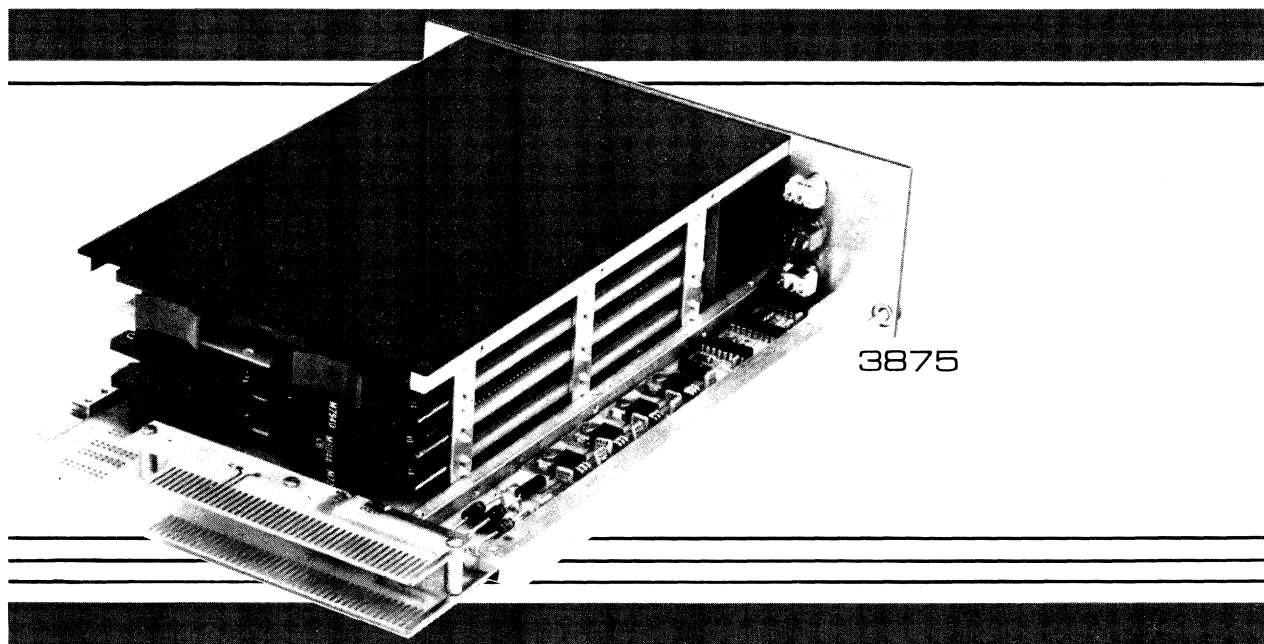


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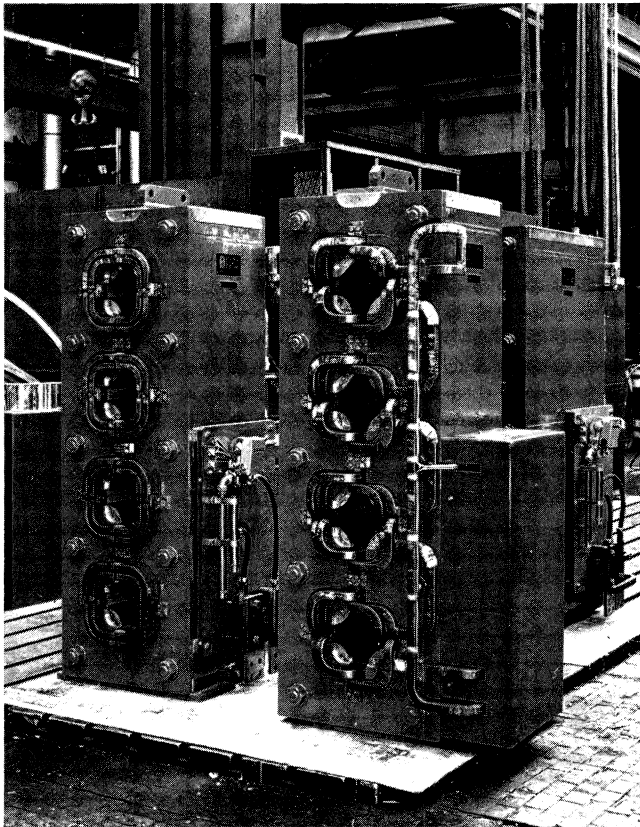
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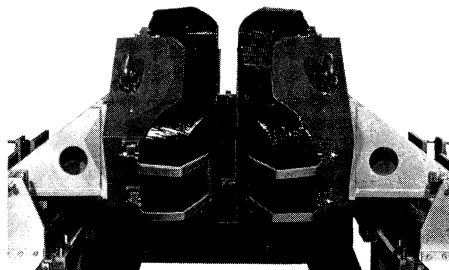
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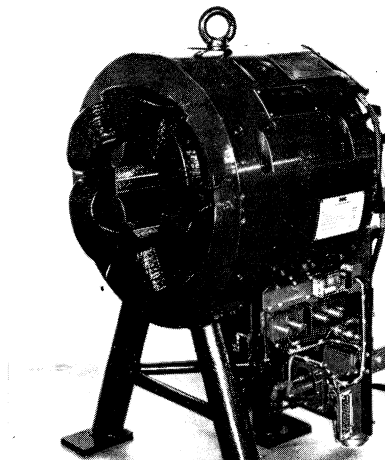


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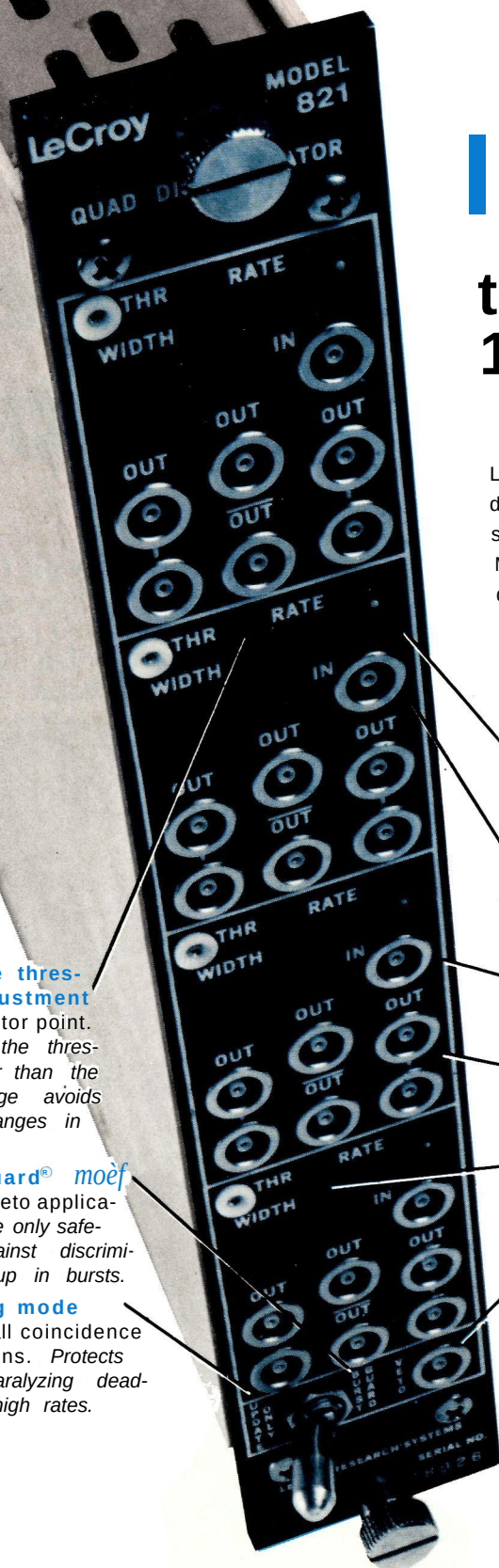
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Each channel individually trimmed to eliminate multiple-pulsing.

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August 5, 1978

EIMAC 8973 tetrodes helped bring fusion power a step closer at Princeton.

Project PLT—a significant achievement

On August 5, 1978 scientists at Princeton University Plasma Physics Laboratory succeeded in heating a form of hydrogen to more than 60 million degrees Celsius and produced the highest temperature ever achieved in a TOKAMAK device—four times the temperature of the interior of the sun, thus bringing fusion power a step closer for mankind.

EIMAC tetrodes for switching and regulating.

Four EIMAC super-power 8973 (X-2170) tetrodes were used to control and protect the four sensitive neutral beam sources in this scientific achievement. The next experiment in this series (PDX) will also utilize EIMAC 8973 tetrodes to control the neutral beam sources. The EIMAC 8973 is also being used at Oak Ridge National Laboratory, another

major research facility involved in the Department of Energy's program to develop practical fusion power. The 8973 is a regular production tube designed for high power switching and control by EIMAC division of Varian.

For information

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