

People and things

On people

Awarded the degree of Doctor of Science *honoris causa* by the Technion-Israel Institute of Technology, Haifa, is Arno Penzias, currently Vice-President of Research at AT and T Bell Laboratories and who shared with Robert Wilson, also of Bell, a 1978 Nobel Physics Prize for their discovery of the 2.7 K cosmic background radiation which underlines a Big Bang theory of the Universe.

Arno Penzias



The Fiuggi Foundation Prize 'Una vita per la Scienza, la Fisica' for 1986 has been attributed to Kai Siegbahn for his discovery of the ESCA method of chemical analysis. To Robert Hofstadter the Fiuggi Foundation has attributed the 'Special Prize for Technology' for his invention of the sodium iodide gamma spectrometer.

The meeting of the Committee chaired by the Italian Foreign Minister Giulio Andreotti took place at CERN on 13 May.

New ECFA Chairman

At its Plenary Meeting on 20 June the European Committee for Future Accelerators elected Italo Mannelli to succeed Jean Sacton as ECFA Chairman as from the beginning of next year.

Jean Sacton has done much during his term of office to maintain the important role of ECFA as a forum and a voice for all components of the European particle physics community and to ensure the European voice was heard on the world stage.

This was reflected at the recent plenary meeting of ECFA where among other items on a packed agenda Carlo Rubbia made an impassioned presentation of the interim findings of CERN's Long Range Planning Committee (see page 17).

Tom Ypsilantis receives the degree of doctor *honoris causa* of the University of Uppsala, Sweden, from Ake Sundborg, Promotor of the Faculty of Science.

Friends and colleagues of Boris L. Ioffe gathered recently at Moscow's Institute of Theoretical and Experimental Physics to celebrate the 60th birthday of this distinguished Soviet theoretician and spare time mountaineer (seen here on a glacier in the Pamir mountains).



On 30 May Tom Ypsilantis received the degree of doctor *honoris causa* at the University of Uppsala, Sweden, for his contributions to the experiment at Berkeley in the 1950s that led to the discovery of the antiproton and for his pioneering work in the development of new detection techniques.





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THEORY GROUP LEADER

Located in Newport News, Virginia, the CONTINUOUS ELECTRON BEAM ACCELERATOR FACILITY (CEBAF) is building a 4 GeV high-intensity, continuous wave electron accelerator utilizing superconducting RF technology. Its scientific goal is to study the structure and behavior of the nuclear many-body system, its quark substructure, and the strong and electroweak interactions governing the properties of this fundamental form of matter.

We are presently searching for a Group Leader to develop an active research program in theoretical physics. Reporting to the Scientific Director on technical issues, the candidate will direct a theoretical physics effort in close collaboration with the experimental program at CEBAF. Further, the Group Leader will initiate a supportive liaison with CEBAF's user community as well as foster the development of young physicists through university programs, colloquia, symposia and meetings.

To qualify, applicants must have at least 15 years of progressively responsible experience in theoretical nuclear physics, and notable research accomplishments leading to an international reputation. Programmatic activities require a high degree of understanding regarding current theories of the strong and electroweak interactions based on $SU(3)_C \otimes SU(2)_W \otimes U(1)_Y$.

To apply, submit a curriculum vitae, bibliography, and three professional references to:

**Personnel Director
CEBAF
12070 Jefferson Avenue
Newport News, VA 23606**

Qualified candidates will be referred to the Search Committee, chaired by Joe Redish (Maryland) and including Sid Drell (SLAC), Jim Friar (Los Alamos), Ernie Moniz (M.I.T.), and Bill Turchinets (M.I.T.).

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UNIVERSITY OF LIVERPOOL Chair of Experimental Physics

Applications are invited for the Chair of Experimental Physics which has become vacant on the retirement of Professor L. L. Green.

The Department of Physics has an established reputation in the fields of Nuclear Structure Physics, High Energy and Solid State Physics. Applications are invited from suitable candidates with particular interests in the field of Nuclear Physics.

The salary will be within the range approved for non-clinical professorial salaries, currently not less than £ 19,918 per annum (under review).

Applications, together with the names of three referees should be received by

**The Registrar
The University
P.O. Box 147
Liverpool L69 3BX,**

from whom further particulars may be obtained.

Quote Ref. RV/763

Institut de Physique Nucléaire Louvain-la-Neuve Belgique

Poste vacant en physique expérimentale nucléaire et/ou des particules élémentaires

L'Institut de Physique Nucléaire (IPN) désire engager un jeune physicien expérimentateur en physique nucléaire et/ou des particules élémentaires, pour un poste à statut définitif, dans le personnel scientifique permanent de l'Université Catholique de Louvain. Il est prévu que ce poste sera ouvert en septembre 1987.

L'IPN est un institut de recherche en physique expérimentale nucléaire et des particules élémentaires, financé conjointement par l'Université Catholique de Louvain (UCL) et l'Institut Interuniversitaire des Sciences Nucléaires (IISN) qui est l'organisme belge de financement des recherches nucléaires fondamentales dans les Universités.

L'outil principal de l'IPN est un cyclotron isochrone K = 120 MeV, pour l'accélération d'ions légers et lourds. Il est pourvu d'une source d'ions lourds à Résonance Cyclotron des Electrons (ECR) de hautes performances, et il accélère une large gamme de faisceaux de haute intensité, actuellement jusqu'au Xénon. Les équipements disponibles pour la recherche autour du cyclotron comportent divers systèmes de détection et de spectroscopie pour des neutrons, des ions légers et lourds, des électrons (avec polarimétrie des positrons) et des rayons γ (avec suppression Compton), un séparateur d'isotopes en ligne (LISOL) pourvu d'un dispositif d'orientation nucléaire à basse température (KOOL). Est également disponible un accélérateur de Van de Graaff de 4 MV, surtout utilisé pour des études d'implantation avec noyaux polarisés. L'Institut participe également à plusieurs expériences auprès de grands accélérateurs en dehors de la Belgique, en physique des ions lourds (GANIL, Caen, et SARA, Grenoble) et en physique des particules élémentaires (CERN, Genève, et SIN, Villigen).

Les candidats doivent être intéressés par les recherches menées par l'Institut, en particulier en physique des ions lourds et/ou en physique des particules élémentaires; une expérience de plusieurs années de recherches post-doctorales est indispensable. Une connaissance élémentaire du français est souhaitable; les candidats devront s'engager à l'apprendre jusqu'au niveau requis pour des tâches d'enseignement.

Les candidats pour le poste décrit ci-dessus sont priés d'envoyer leur « curriculum vitae », la liste de leurs publications, des indications sur leur expérience pédagogique, et les noms et adresses de trois personnes pouvant donner des références à leur sujet, dès que possible et au plus tard le 15 décembre 1986 à l'adresse suivante:

**Professeur Jean Vervier
Université Catholique de Louvain
Institut de Physique Nucléaire
Chemin du Cyclotron 2
B-1348 Louvain-la-Neuve, Belgique**

The meeting planned for Erice, Sicily, this summer in honour of Viktor Weisskopf was postponed as the great man had to go into hospital for an operation. CERN seemed especially empty this summer without him, and we wish him a full and speedy recovery.

Marc de Hemptinne (1902-1986)

Marc de Hemptinne, Emeritus Professor at the Catholic University of Louvain (Louvain-la-Neuve) and one of the most influential figures in post-war nuclear physics in Belgium, died on 1 April.

His personal contributions to physics were in molecular spectroscopy, but as Director of Louvain's Institute of Physics he contributed greatly to the birth of nuclear and elementary particle physics in Belgium. After contacts with Lawrence, he went ahead with the construction of Belgium's first cyclotron and built up around it a team which was to seed Belgian elementary particle physics.

He witnessed the movement to found CERN and was a member of the Organization's first council from 1954-57.

His students and colleagues will remember him as influence which helped them to mature.

Kjell Johnsen retires

One of the dominant figures of the CERN accelerator physics community retired at the end of June. Kjell Johnsen, from the days of the construction of the Proton Synchrotron to the recent creation of the flourishing CERN Accelerator School, has made major contributions to the work of the Laboratory. His broad knowledge of the field and his careful analytic mind have made him a valuable member of any team, most recently in his continuing chairmanship of the electron-positron collider subpanel of the CERN Long Range Planning Committee (see page 17).

It is however as leader of that remarkable team that built the CERN Intersecting Storage Rings that Kjell Johnsen is best known. When construction began, the feasibility of physics from hadron colliders was still in doubt. The machine was so superbly built that it

Kjell Johnsen — valuable member of any team



swept all before it — exceeding design parameters by far, contributing greatly to knowledge of accelerator physics and technology, paving the way for the hadron colliders of today and of the future. Kjell Johnsen can take much of the credit for this achievement.

On 11 June, Federal German President Richard von Weizsäcker visited CERN. He is seen here (left) studying the visitors' book with Director General Herwig Schopper.

(Photo CERN 296.6.86)

UNIVERSITY OF OXFORD
Department of Nuclear Physics

Applications are invited for a

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in Physics**

The successful candidate will be expected to carry out experimental research in the Department of Nuclear Physics.

The research programme includes experiments at the Nuclear Structure Facility, Daresbury, non-accelerator experiments on neutrino mass and proton decay, preparation for experiments at LEP (CERN) and HERA (DESY), and the development of cryogenic detectors.

Preference will be given to candidates interested in initiating a new programme of experimental research in the field of relativistic heavy ion collisions.

The successful candidate will take part in university (graduate and undergraduate) physics teaching and will be considered for a tutorial fellowship at Trinity College.

Further particulars of the lectureship and of the college fellowship may be obtained from

**Professor D. H. Perkins,
FRS,
Nuclear Physics Laboratory,
Keble Road,
Oxford, OX1 3RH,**

to whom a curriculum vitae, statement of research interests, and the names and addresses of three referees should be submitted by 15 November 1986.

PHYSICIST

The Research Division at FERMILAB is seeking physicists for the fixed target program. The Laboratory is interested in candidates with at least three years of post-doctoral experience, who can contribute to the execution of experiments and the development and presentation of physics results.

Physicists in the Research Division are expected to participate in the research program as members of experimental groups, to construct experimental facilities, and to develop hardware and software techniques for experiments. The current research program encompasses quark production, dynamics and spectroscopy, and electro-weak interactions and utilizes a broad spectrum of facilities.

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**Prof. Peter McIntyre,
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me. I know that my courses will be different, starting tomorrow morning. The details unknown, the general outlines are in place.'

These words reflected the feelings of 135 high school and college teachers who recently came to Fermilab for the second conference in a series on the teaching of modern physics, sponsored by the International Commission on Physics Education. The first was held at CERN in 1984. Topic lectures were given by leading physicists and participants were grouped into working groups, each with a Fermilab physicist.



Reorganization at Fermilab

Roger Dixon, formerly Deputy Head of Fermilab's Research Division, has been named Head of Program Planning at the Laboratory. Ken Stanfield, the Head of the Research Division, appointed Peter Garbincius as the new Deputy Head and Ray Stefanski the Associate Head of the Division. Stefanski was also named Head of the new Research Facilities Department, with Stephen Pordes as Deputy Head. The new department contains almost all of the Research Division's physicists who work on fixed targets and is responsible for coordinating the installation, execution, and removal of experiments and beams in the fixed target experimental areas. During the next fixed target run, 16 beamlines will feed 16 different experiments simultaneously.

As part of the reorganization, Jeff Spalding was appointed Head of the Site Operations Department, with Greg Bock as Deputy Head. This department is responsible for overall site support and operation of the fixed target experimental areas at Fermilab. During the next fixed target running period, the Operations Group of the Site Operations Department will operate all 16 external proton beamlines and provide operations support for the forthcoming Collider run.

Roger Dixon (top) is the new Head of Program Planning at Fermilab. Jeff Spalding (centre), becomes Head of Site Operations Department, while Ray Stefanski (below) is Associate Head of Fermilab's Research Division and Head of the Laboratory's new Research Facilities Department.

RESEARCH SCIENTISTS EXPERIMENTAL HIGH ENERGY PHYSICS

Supercomputer Computations Research Institute Florida State University

The Supercomputer Computations Research Institute of the Florida State University is seeking qualified candidates for 2 full time permanent research positions in experimental high energy physics. Preference will be given to scientists with strong software orientation willing to investigate the use of vector computers in the analysis of high energy physics data. Hardware experience is desired. Successful candidates will be involved in the ALEPH (LEP) or D0 (Fermilab) collider experiments. Applicants should submit a curriculum vitae, list of publications and arrange for three letters of recommendation to be sent to

Dr. Joseph Lannutti
Director
Supercomputer Computations
Research Institute
Florida State University
Tallahassee, Florida 32306-4052
U.S.A.

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SOUTHEASTERN UNIVERSITIES RESEARCH ASSOCIATION

PRESIDENT

SURA invites nominations and applications for the position of President of the Association. The President is the chief executive officer and reports directly to the Board of Trustees.

SURA is a consortium of 35 universities in the southeast and is dedicated to planning and managing research facilities which are not appropriate for a single university. At present, SURA is involved in two major enterprises, CEBAF, the Continuous Electron Beam Accelerator Facility in Newport News, Virginia and SURANet, an NSF supported computer network for southeastern universities.

The duties of the President include general oversight of the activities of CEBAF and SURANet, negotiation with federal agencies for funding and execution of contracts. At present, about 80 % of the President's time is spent in support of CEBAF. The President also represents the interests of SURA to the several constituencies in Washington and elsewhere. The President is expected to provide leadership in discussions of new projects which might be appropriate for SURA sponsorship.

The offices of SURA are in Washington, D.C. The desired starting date is January 1, 1987 or as soon thereafter as possible. Salary is negotiable.

The President of SURA should:

1. Be a scientist or engineer with a distinguished record of accomplishments.
2. Have significant experience in the management of major scientific research projects in universities or national laboratories.
3. Have extensive experience in dealing with funding agencies and the federal scientific advisory machinery.
4. Have a demonstrated record of experience with and understanding of American universities.

Applications will be received until a suitable candidate is identified. Please send nominations or applications with a complete CV, a statement of interest, and the names and addresses of three references to:

Dr. George W. Wheeler, Chairman of the Board
Office of the Provost
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DPF 87

The next regular meeting of the Division of Particles and Fields of the American Physical Society will take place from 14-17 January 1987 in Salt Lake City, Utah, hosted by the Department of Physics of the University of Utah. This divisional meeting has recently assumed an international character and has grown considerably in popularity. The three and a half days of sessions will include invited plenary talks and parallel sessions for invited and contributed papers. It is traditional at these meetings to accommodate as many as possible of the contributed papers. Since the Salt Lake meeting comes close on the heels of the July Berkeley high energy physics conference, it will be possible to give the most rapidly developing fields of research greater emphasis. Thus, although all areas of current research of interest to members of the Division will be represented, more emphasis will probably be given, among other topics, to theoretical developments in and observations relevant to superunification theory, weak mixing and CP violation, and plans for the Superconducting Supercollider. The deadline for abstracts of contributed papers is November 17.

Those interested should watch for future announcements and a registration form in the Bulletin of the American Physical Society or contact the DPF Conference Secretary, 201 J. C. Fletcher Building,

The 'human computer' Wim Klein was brutally murdered at his home in Amsterdam on 1 August. Klein worked at CERN from 1958 to 1968, but frequently returned to amaze his audiences with demonstrations of his incredible numerical ability.

(Photo CERN)



New regulations have made personalized car licence plates very popular in the US state of Illinois. This example recently appeared on the car of Fermilab Director Leon Lederman.

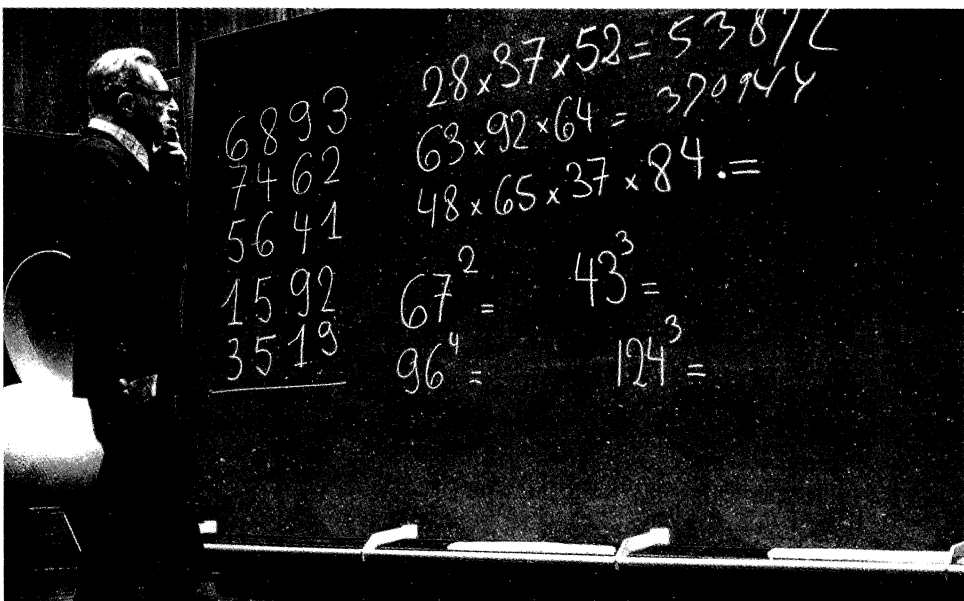
Department of Physics, University of Utah, Salt Lake City, UT 84112, USA.

Meetings

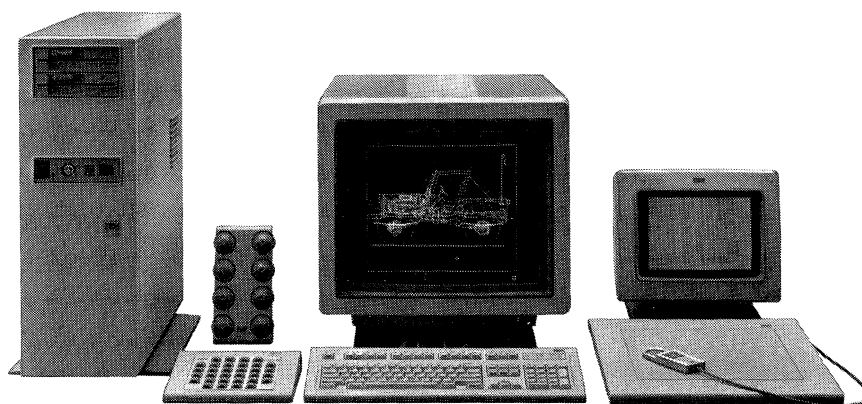
A meeting on Computing in High Energy Physics will be held from 2-6 February 1987 at Asilomar State Beach, Monterey, California, arranged by the Stanford Linear Accelerator Center (SLAC) and the Santa Cruz Institute for Particle

Physics. Attendance is open but onsite accommodation is limited to 200. In addition to invited talks, a limited number of contributed papers will be presented. Registration deadline for onsite accommodation is 1 November.

Further information from G. Hamel, Santa Cruz Institute for Particle Physics, University of California, Santa Cruz, CA 95064, USA. Electronic address, ASIOMAR AT SLACVM.



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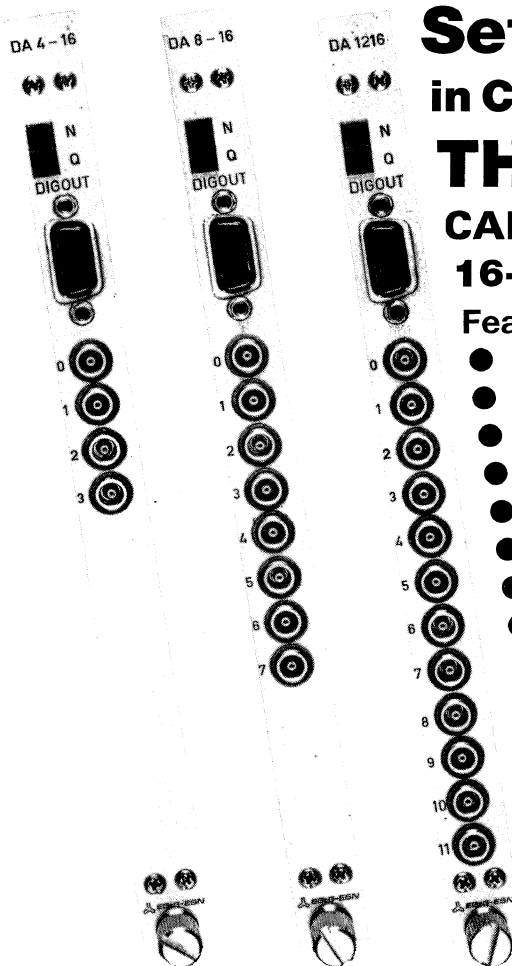
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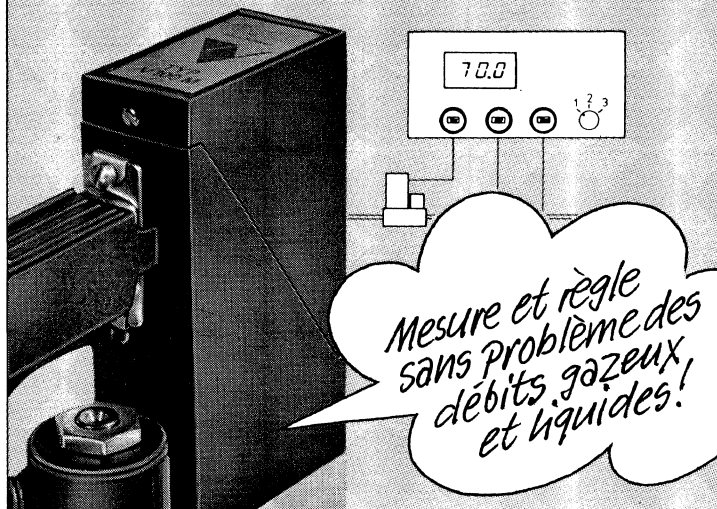
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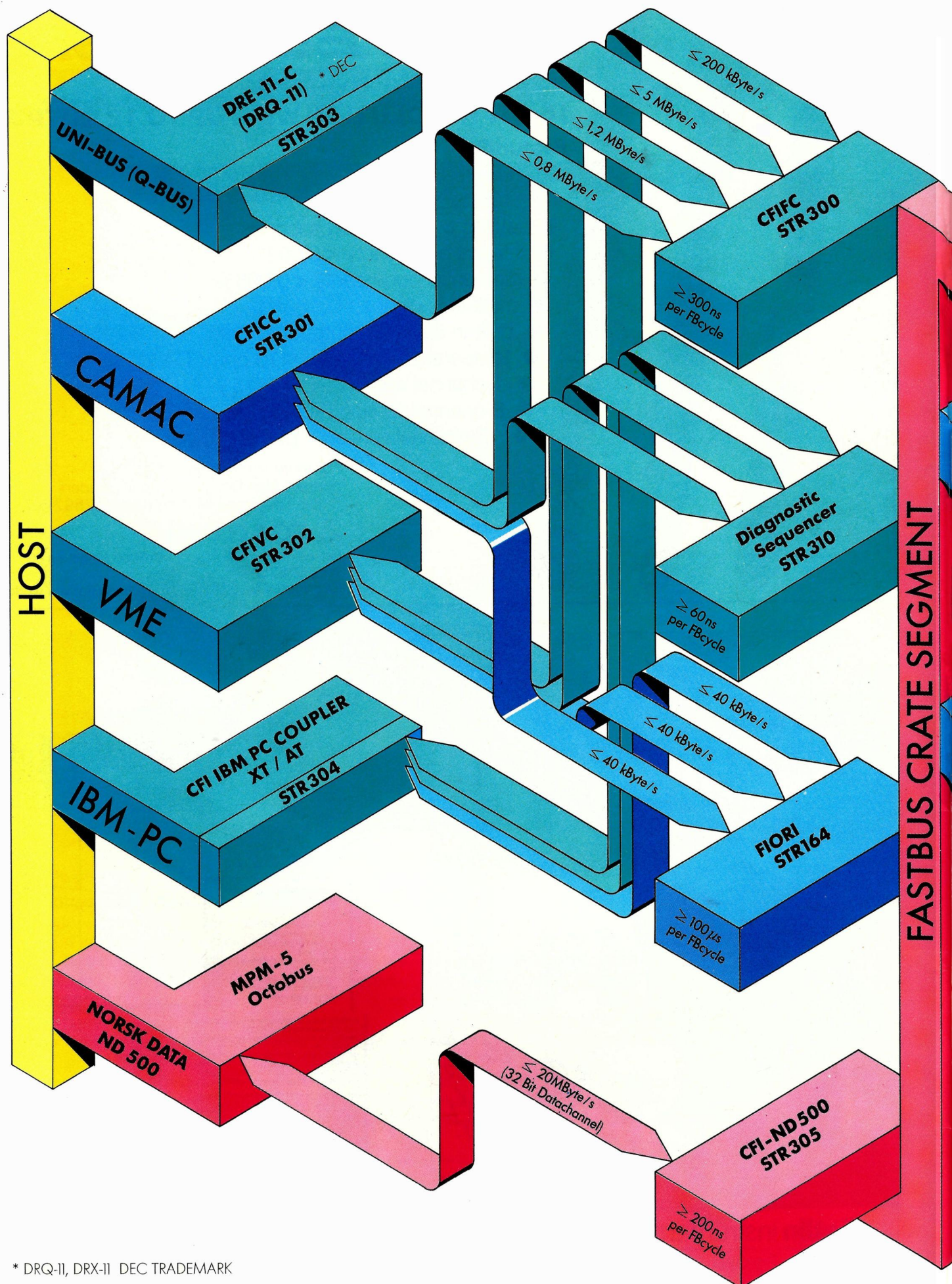
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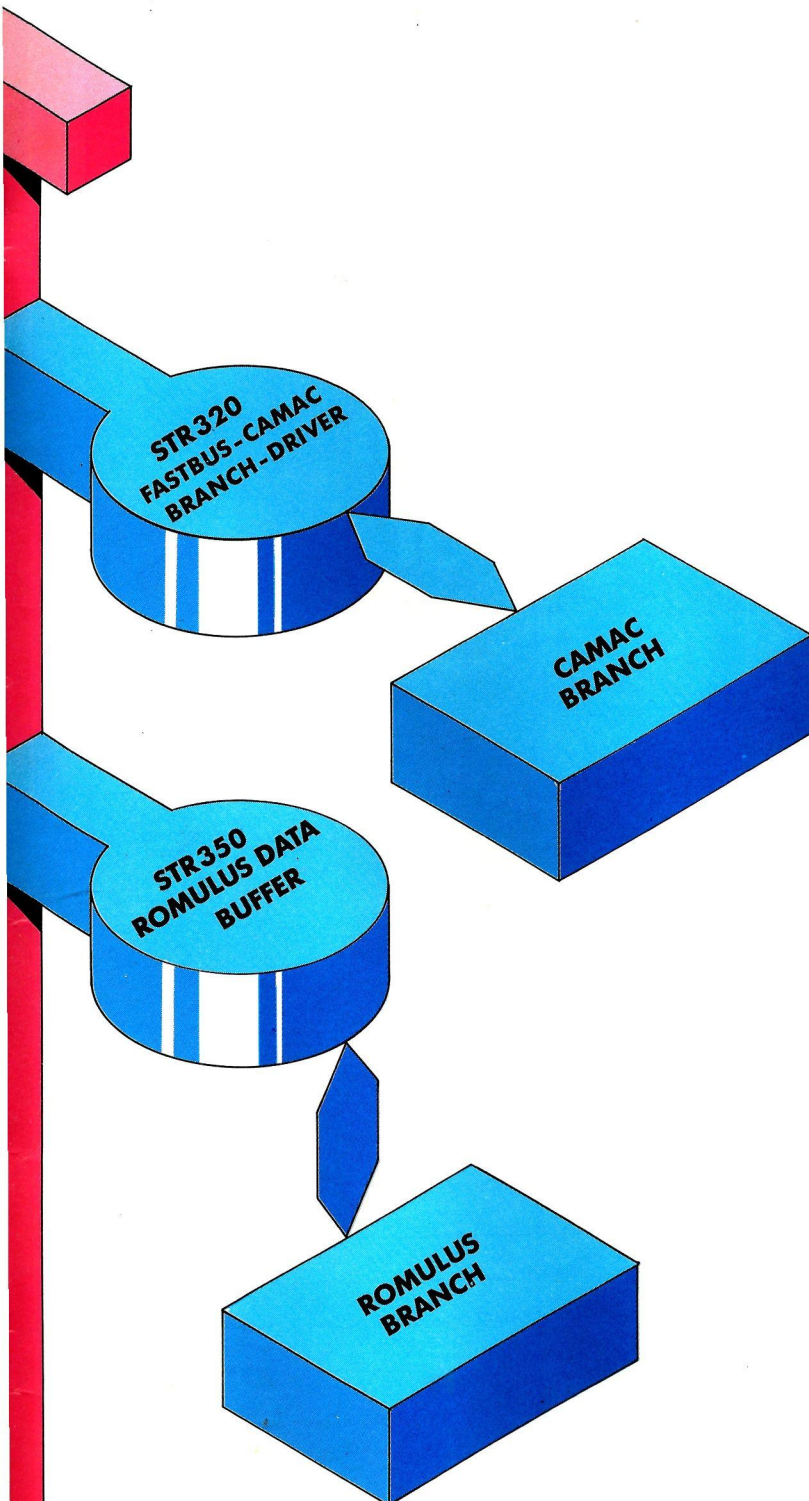


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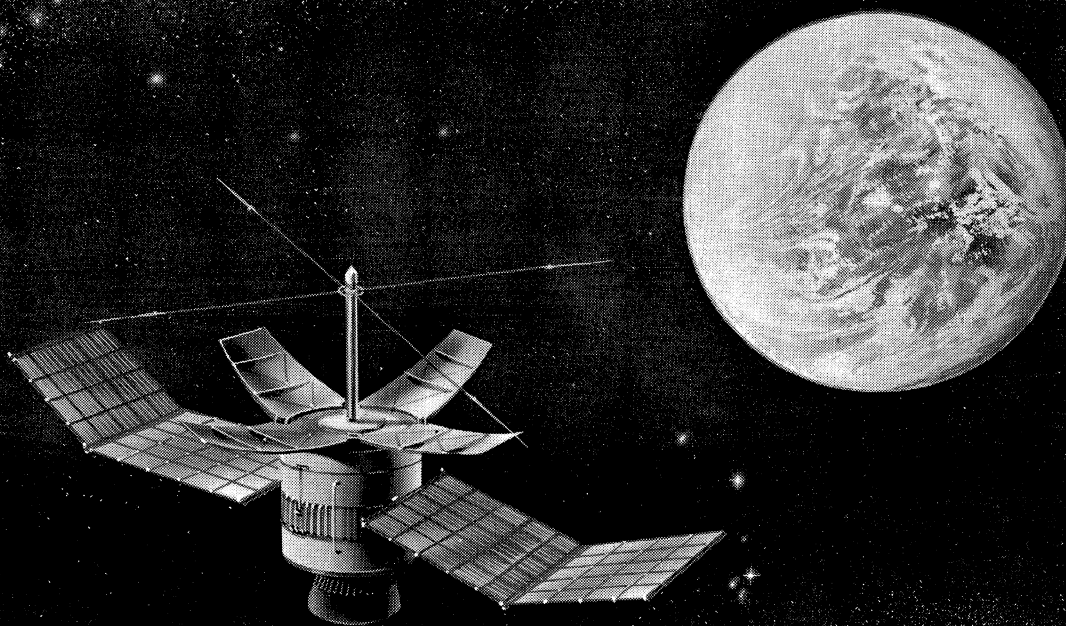
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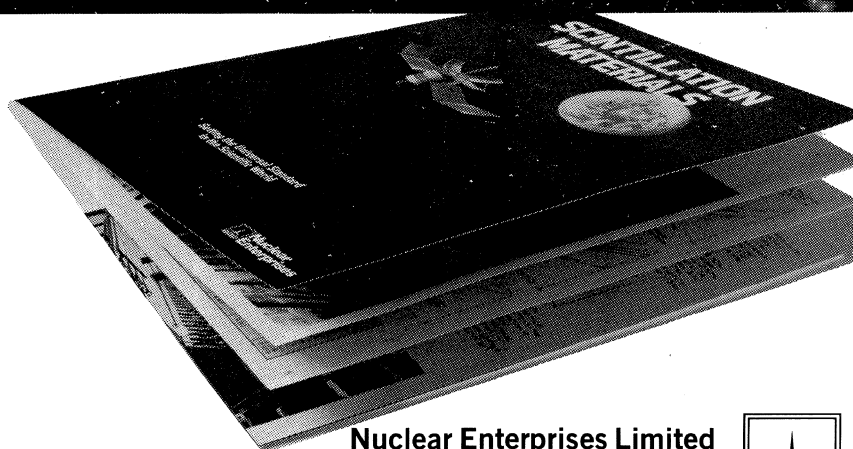


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