

# People and things

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**P. Waloschek**

Fermi National Accelerator Laboratory, USA  
**M. Bodnarczuk**

GSI Darmstadt, Fed. Rep. of Germany  
**G. Siegert**

INFN, Italy  
**A. Pascolini**

IHEP, Beijing, China  
**Qi Nading**

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**B. Starchenko**

KEK National Laboratory, Japan  
**S. Iwata**

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**B. Feinberg**

Los Alamos National Laboratory, USA  
**O. B. van Dyck**

NIKHEF Laboratory, Netherlands  
**F. Ern **

Novosibirsk Institute, USSR  
**V. Balakin**

Orsay Laboratory, France  
**Anne-Marie Lutz**

PSI Laboratory, Switzerland  
**J. F. Crawford**

Rutherford Appleton Laboratory, UK  
**Jacky Hutchinson**

Saclay Laboratory, France  
**Elisabeth Locci**

IHEP, Serpukhov, USSR  
**Yu. Ryabov**

Stanford Linear Accelerator Center, USA  
**W. Kirk**

Superconducting Super Collider, USA  
**N. V. Baggett**

TRIUMF Laboratory, Canada  
**M. K. Craddock**



### *Maurice Jacob becomes President of European Physical Society*

*Distinguished CERN theorist Maurice Jacob becomes President of the European Physical Society (EPS) for an initial one-year term, succeeding nuclear physicist R.A. Ricci of INFN Legnaro. Jacob, who was President of the French Physical Society in 1985, has just served for two years as EPS Secretary. EPS President-Elect is Norbert Kroo of Budapest's Solid-State Physics Institute.*

### *On people*

*Freeman J. Dyson of Princeton's Institute for Advanced Study receives the 1991 Oersted Medal from the American Association of Physics Teachers.*

*Klaus Winter of CERN has been appointed Guest Professor at Berlin's Humboldt University, where his task will be to help build up the Physics Department.*

▲ At CERN in April, CERN Director General Carlo Rubbia (left) and Roy Schwitters, Director of the Superconducting Supercollider (SSC) Laboratory in Ellis County, Texas, signed a Memorandum of Understanding which provides a framework for future collaboration between the two Laboratories.

(Photo CERN 11.4.91)

### *Australian news*

*At a recent meeting of the Australian Academy of Sciences, Bruce McKellar of Melbourne was awarded the Lyle Medal for 1991 for his work in High Energy Theory. and A.W. Thomas of Adelaide was one of 9 new fellows admitted to the Academy.*

*Meanwhile an official CERN Coordination Committee has been formed to coordinate Australian activity at CERN. The members are: L. Peak (Sydney), S. Tovey (Melbourne), R. Crewther (Adelaide), B.H.J. McKellar (Melbourne), A.W. Thomas (Adelaide) and J. Boldeman (ANSTO). Signing of a cooperation agreement between CERN and Australia is imminent.*

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## Experimental High Energy Physicists

Participate in research and development for the SSC detector components, design of the related experimental facilities to support of the SSC experimental program, and ongoing HEP research.

Qualifications: Ph.D. in experimental particle physics. Experience with large detector systems preferred.

## Computational Physicist/Engineer

Perform magnetic field computations in support of the SSC magnet design and construction program.

Qualifications: An advanced degree in Physics, Electrical or Mechanical engineering; experience with the commonly available computer codes for magnetic field calculations. Experience with FORTRAN (preferably in a scientific computing environment) and with UNIX and VMS.

## Collider Injector Physicists and Engineers

Take part in the accelerator design, and specification and implementation of the engineering systems.

Qualifications: Degree in Physics or Engineering; equivalent experience with modern computational methods; significant experience in accelerator construction and operation desirable; ability to work within a team and to interact with and communicate with other technical groups.

## Magnet Test Physicist

Participate in the SSC superconducting magnet test program at FNAL, BNL, and SSCL.

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The **Max-Planck-Institut für Physik** has the position of a

## Research Associate

to offer. Applicants are expected to participate in the experimental projects of the Institute carried out at the European Organization for Nuclear Research, CERN, Geneva.

A contract will be limited, at the beginning, to two years.

Applications with curriculum vitae and three references should be send to the

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## ISTITUTO NAZIONALE DI FISICA NUCLEARE (I.N.F.N.)

**Post-doctoral fellowships for non-Italian citizens in the following research areas :**

**Theoretical Physics (n.8)**

**Experimental Physics (n. 14)**

Applications are invited for one year fellowships, starting on May-November 1992.

Fellowships are intended for young post-graduates (candidates should not be more than 35 years of age at the time of application).

Each fellowship is granted for one year, and may be extended for a second year.

The annual gross salary is lit. 24,000,000, plus travel expenses from home Institution to I.N.F.N. Section or Laboratory and return.

Candidates should submit an application form and a statement of their research interests, including three letters of reference. Applications should reach I.N.F.N. not later than 30 September 1991.

The successful applicants may carry on their research at any of the following laboratories and sections of I.N.F.N. :

National Laboratories of Frascati (Rome), National Laboratories of Legnaro (Padova), National Southern Laboratories (Catania) and National Gran Sasso Laboratory (L'Aquila).

INFN Sections in the universities of :

Turin, Milan, Padua, Genoa, Bologna, Pisa, Rome "La Sapienza", Rome II, Naples, Catania, Trieste, Florence, Bari, Pavia, Perugia, Ferrara, Cagliari, Lecce and National Institute for Health (Rome).

Enquiries, requests for application forms, and applications should be addressed to : Fellowships Service - Personnel Office, Istituto Nazionale di Fisica Nucleare (INFN) - Casella Postale 56 - 000 44 Frascati (Rome) Italy.

Bjorn Wiik, project leader of the superconducting proton ring for the HERA electron-proton collider now being commissioned at the DESY Laboratory, Hamburg, and seen here during one of his regular shifts in the HERA control room, has been elected a Foreign Member of the Norwegian Academy of Science and Letters.

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## Shadows of Creation

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Published by W.H. Freeman is 'Shadows of Creation' (ISBN 0-71767-2157-0) by Michael Riordan and David N. Schramm, subtitled 'Dark Matter and the Structure of the Universe' (see also April, page 18). The book also benefits by a foreword by Stephen Hawking.

The cosmological dark mass problem – that what we see in the Universe is perhaps only about one per cent of it – depends on theoretical prejudice. The astrophysical dark mass problem – that the observed motion of galaxies needs more mass than can be seen – does not. How these arguments are served is a matter of taste.

Dark matter apart, this book is an excellent introduction to the important new links being forged between particle physics, astrophysics and cosmology. Riordan (particles) and Schramm (astrophysics and cosmology) are a good team. They know their subjects well and are used to presenting them persuasively.

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## Theories of Everything

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'Theories of Everything' by John D. Barrow of Sussex (Oxford, ISBN 0-19-853928-2) is a new addition to the growing list of vogue astrophysics and cosmology titles aimed at the general intellectual market. Barrow is no stranger to literary success, with 'The World within the World' (Oxford), 'The Left Hand of Creation' (with J. Silk, Basic Books), and 'The Anthropic Principle' (with Frank Tipler, Oxford), commendably to his credit.

'Theories of Everything' is not 'The Theory of Everything', as the subtitle 'The Quest for Ultimate Ex-

planation' hints. However the title alone will sell, with many eager readers ploughing valiantly through to the end, hoping to discover The Solution. They may be disappointed to find no 'Cosmic Rosetta Stone', but will not go unrewarded.

The origin of everything may turn out to be an insurmountable problem to solve, but the sheer inaccessibility of the problem has long hindered scientific attack. Barrow explains how modern physics and cosmology is at last providing a framework for the problem, and possibly for the solution too.

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## Return of Uncle Albert

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UK physicist Russell Stannard's book 'The Time and Space of Uncle Albert', published by Faber and Faber in 1989 (September 1989, page 33), commendably set out to demystify relativity, which unfortunately remains for most people an impenetrable corner of contemporary culture.

Uncle Albert and his niece Gedanken are back in a new Stannard book 'Black Holes and Uncle Albert' (Faber and Faber, ISBN 0571 16199 5) which continues to explore the heady implications of modern cosmology.

The first book, shortlisted for several literary awards, drew much favourable comment and elicited praise for attacking such a tough subject and trying to present it in an easily assimilable form.

First time round, the CERN Courier admired Stannard for taking on such a tough challenge, but had a suspicion that the resultant packag-

ing was overdone. This was confirmed when Lev Okun of Moscow subsequently questioned one viewpoint, and in a memorable seminar at CERN displayed that relativity is not to be taken lightly.

After reading the sequel, Nathalie Fraser (13) writes: 'Young readers will find it difficult to identify with Gedanken. A talking spaceship called Dick is not my idea of a fun way to explain things. Stannard seems to drown in his own pond trying to explain so many things and so does the reader. After a while you get confused between reality and the strange antics of beetles on a rubber sheet(!), that don't clarify anything.'

Despite this panning, the CERN Courier awards the book a bonus mark for flair and imagination. The forefront of modern physics is difficult to get at, and Dr. Stannard's contrived scenario only reflects this. We eagerly await Lev Okun's opinion.

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## Meetings

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An International Workshop on Electroweak Physics Beyond the Standard Model will be held in Valencia, Spain, from 2-5 October. It will discuss the theoretical implications of the latest results from high energy experiments as well as some non-accelerator experiments. Emphasis will be given to neutrino physics, experimental tests of the standard model and its possible extensions.

Participation is by invitation. The number of participants is limited to about 80. Outstanding graduate





A private visit to CERN on 2 May by Hungarian President Arpad Göncz (left, with CERN Director General Carlo Rubbia) came at a time when discussions are starting on Hungary becoming a CERN Member State.

The Balkan Physical Union is organizing the First Balkan School of Physics in Istanbul, Turkey, from 2-13 September. Entitled 'Accelerator Physics Research and Applications', the lecture courses will cover experimental and theoretical particle physics, nuclear physics, and medical and other applications. The School is open to students from the Balkan countries. Further information from Professor Engin Arik, Istanbul University Physics Department, 34459 Vezneciler Istanbul, Turkey, e-mail: FEN10 at TRIUMVM11 Telefax: 0090 1 522 6123 Telex: 22062 sur tr Telephone: 0090 1 511 8480.

students and recent PhDs with experience in the field are encouraged to apply.

Further information from Jose W.F. Valle, Dpto. de Fisica Teorica, Universitat de Valencia, Dr. Moliner 50, 46100 Burjassot, Valencia, Spain; tel. (346) 386 4555; fax. (346) 364 2345; e-mail (internet) valle at vm.ci.uv.es (bitnet) valle at EVALUN11 (hepnet) EVALUN::valle

A Workshop will be held at Aussois in the French Alps from 30 September to 4 October on 'X-Ray Detectors for Synchrotron Radi-

ation Sources', including solid-state, gas, image plate and scintillator detector technologies as well as electronics, data acquisition, etc. Science topics will include: protein crystallography, powder, small crystal, time resolved, diffraction, scattering, spectroscopy and imaging. Information from the Secretariat: W. Schenk, Dept. of Physics, Adolf-Reichweinstrasse 2, 5900 Siegen, Germany. Tel: 49 271 740 2342/4344/4140. Fax: 49 271 74515. Places are limited. An ideal opportunity for young high energy physicists to discover another world!



As part of the regular review of its journals, the American Institute of Physics has set up a committee to look at 'Journal of Mathematical Physics', chaired by Cecile De Witt of Texas (Austin), seen here with two other members of the committee, Ted Jacobson (left) of Maryland, and Ted Newman of Pittsburgh. The two other members are L. Guttman of Argonne and Maurice Jacob of CERN. Cecile De Witt is well known as founder of the Les Houches Summer School, which contributed so much to the revival of physics in Continental Europe in the 1950s.

(Photo Maurice Jacob)

# University of California Lawrence Berkeley Laboratory

## Director of the Physics Division

**T**he Lawrence Berkeley Laboratory is seeking a respected and energetic high-energy physicist to play a strong leadership and management role as Director of the Physics Division.

Under the general direction of the Laboratory Director, the Division Director is responsible for a multi-million dollar research program, primarily in high-energy physics. Our appointment is as a career Senior Scientist serving in the administrative role of Division Director for an initial negotiated term subject to renewal by mutual agreement. The appointment is effective Sept. 1st, 1991.

We are looking for an exceptional scientist with significant experience as a practicing high-energy physicist and of the calibre of a senior tenure level scientist in a major research institution.

Interested applicants are invited to submit a curriculum vitae, together with the names of three references by July 15, 1991, to: Dr. J.D. Jackson, Chairman, Physics Search Committee, c/o Marina Gonzalez, Lawrence Berkeley Laboratory, 1 Cyclotron Road, 90-1042, Berkeley, CA 94720 USA. An equal opportunity employer. Women and minorities are encouraged to apply.



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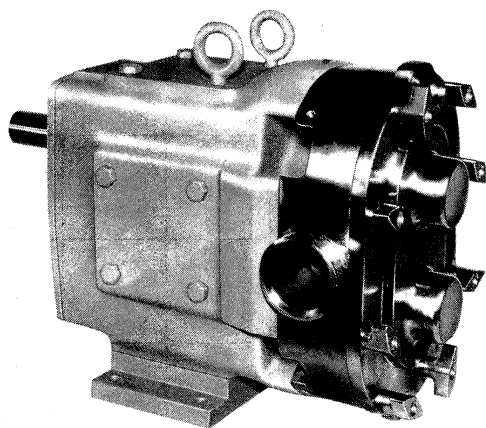
## Princeton University

### Postdoctoral Position in Experimental High Energy Physics

Princeton University invites applications for a postdoctoral Research Associate position in experimental high energy physics. The position, based at CERN, is for work on the L3 experiment at LEP. Princeton's responsibilities in L3 include the readout of the 11000-crystal BGO Electromagnetic Calorimeter, and the successful candidate would be expected to assume a major role in the operation and support of the system. Candidates should have experience with data acquisition systems and be knowledgeable in assembler and higher level programming for microprocessors and larger systems. Interested candidates should send curriculum vitae and the names of three references to:

**Dr. Peter Denes**  
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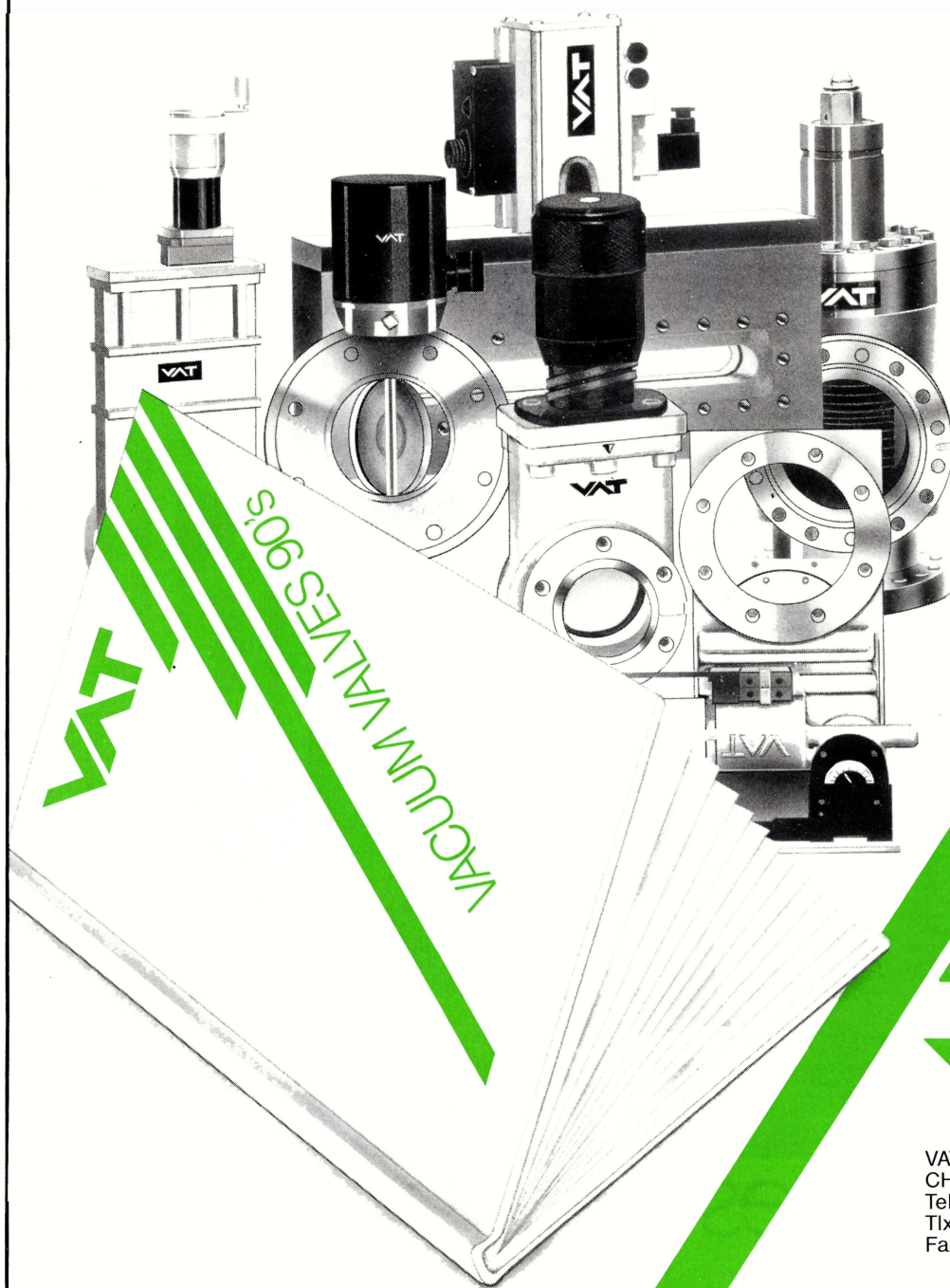
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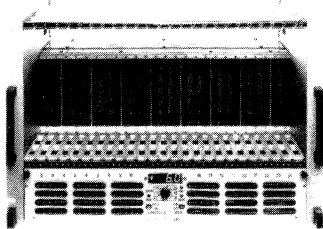
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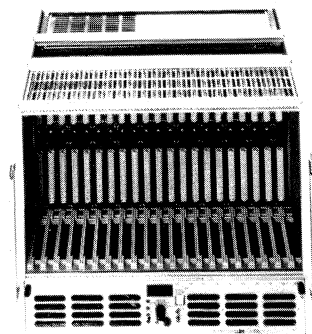
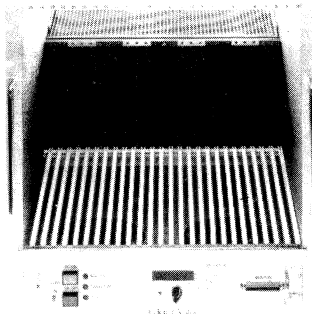
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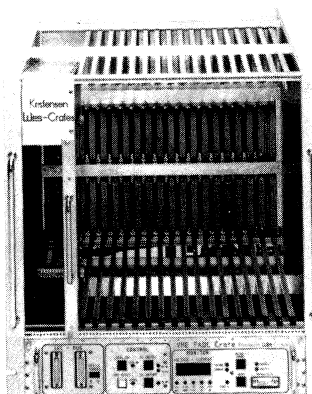


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**LOCUS PC-Interface pour Macintosh:** idem, aussi impression sur imprimante/s Mac depuis appli. UNIX, pour LocalTalk et Ethernet, pour UNIX PC et autres (SUN, IBM6000).

**JSB MultiView DeskTop:** ém. ANSI sous MS-Windows 3, rapide, compat. console SCO, 8 bits, couleurs, claviers configurables, support imprimantes, multi-sessions; pour RS232 et tous réseaux TCP/IP.

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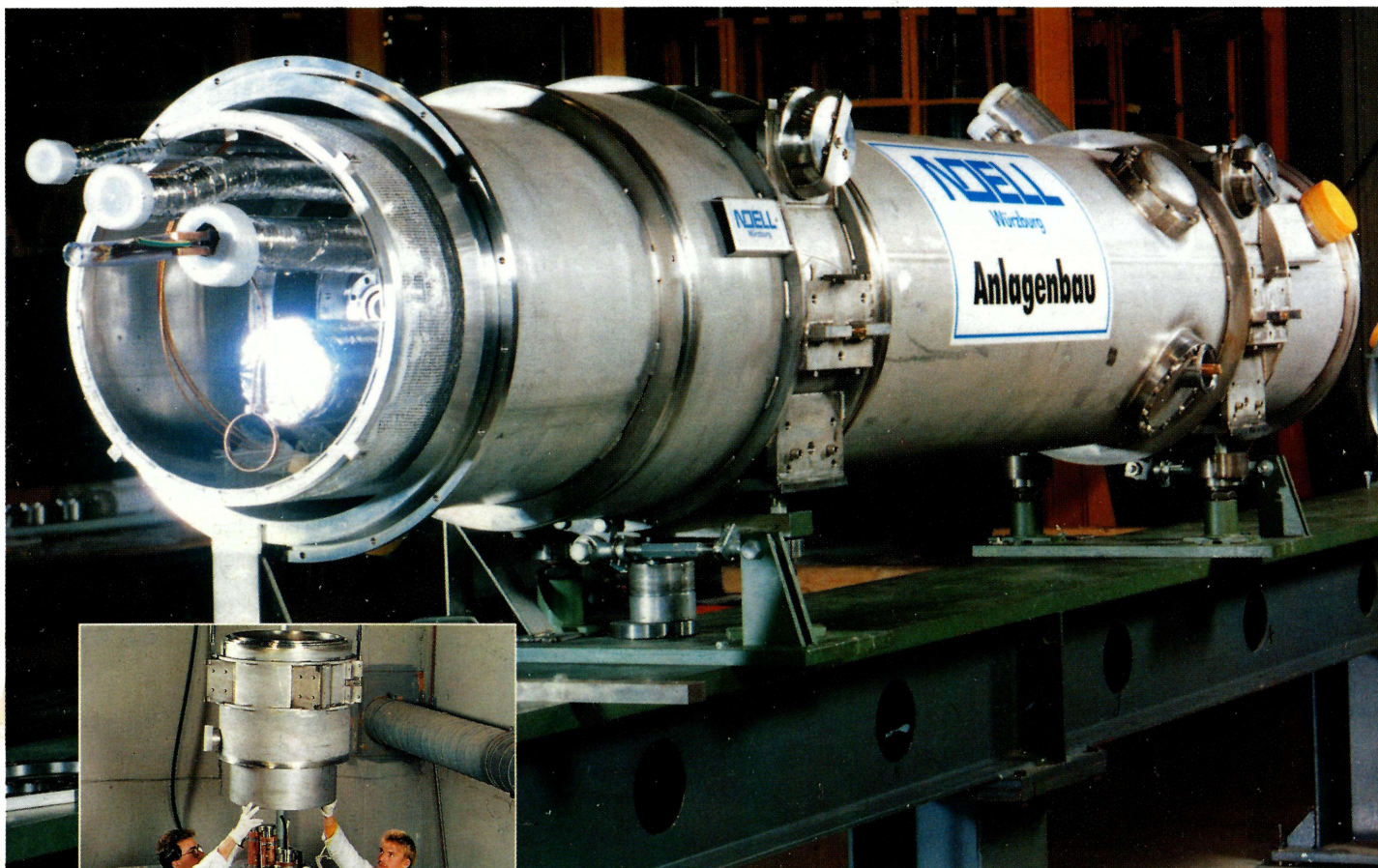


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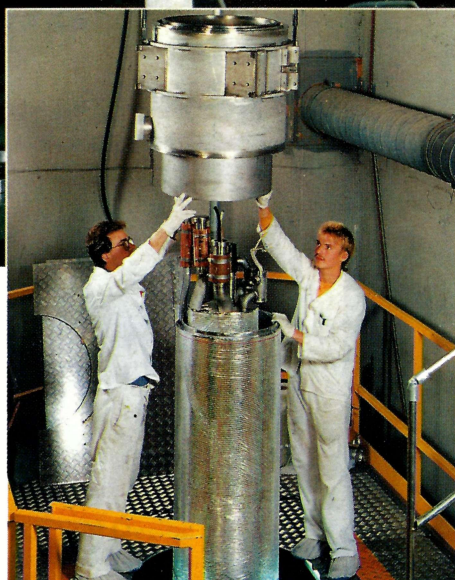
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The take over of the magnet engineering sector of the ABB company has helped

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