

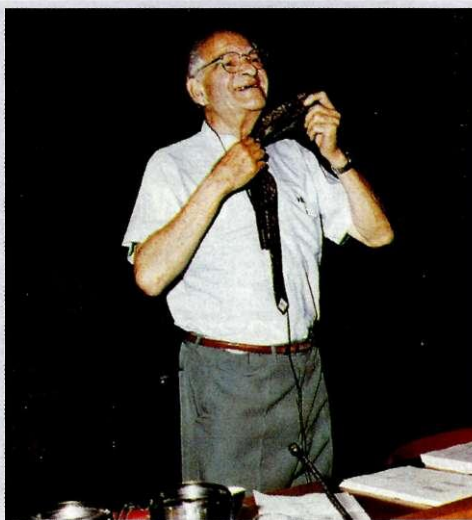
This summer, CERN Director-General Chris Llewellyn Smith unveiled a sign naming the **Route Abdus Salam** on CERN's Meyrin site. The road passes near the site of the Gargamelle bubble chamber which discovered neutral currents in 1973, 25 years ago, and provided the first experimental confirmation of electroweak unification, of which Salam was a major architect. Soon after learning of his 1979 Nobel award for this work, Salam dutifully hastened to CERN to pay tribute to CERN's neutrino physics achievements. Also at the brief ceremony were some of those who contributed to these and subsequent physics developments at CERN, and for whom Salam's name has a special meaning: left to right – Maurice Jacob, John Ellis, Don Cundy, Chris Llewellyn Smith, Horst Wachsmuth, Luigi Di Lella, Alan Ball, Gregoire Kantardjian, Gordon Fraser, Guy Acquistapace.



At **Brookhaven** during the recent annual meeting of users of the laboratory's Alternating Gradient Synchrotron (AGS) and RHIC relativistic heavy ion collider – left to right; RHIC Project Director Satoshi Ozaki, AGS User Committee Chairman David Hertzog of Illinois, Brookhaven High Energy and Nuclear Physics Associate Director Tom Kirk, US Department of Energy High Energy and Nuclear Physics Associate Director Peter Rosen (seated).

The venerable AGS has recently produced some notable example of rare events, while the new precision experiment to measure the muon magnetic moment continues to make good progress. Next year sees the commissioning of the 3.8 kilometre RHIC collider ring.

Victor Weisskopf celebrated his 90th birthday on 19 September. Weisskopf's career has spanned and helped mould the entire history of modern physics, his contributions ranging from fundamental quantum mechanics in Göttingen in the late 1920s, to pioneer quantum chromodynamics in the early 1970s. He has also been a key player in some of the great dramas which unfolded during the 20th century. A truly world citizen, he served as Director-General of CERN from 1961–65 and in a number of key responsibilities in the US. In all these roles as a scientist and a scientist-administrator he has left a mark. As Chairman of CERN's Scientific Policy Committee from 1964–66, the eminent French physicist Louis Leprince-Ringuet said of Weisskopf, "the spirit of CERN is his creation". MIT, where Weisskopf worked for many years, marked the event by a private dinner for him at the American Academy of Arts and Sciences.



Edward Ginzton

Stanford Linear Accelerator Center pioneer Edward Ginzton died in August at the age of 82 from complications following surgery. During the 1950s, he headed a team of Stanford physicists in the design of a 1 GeV linear accelerator that was the take-off point for the design and construction of SLAC's two-mile linac. Ed was SLAC's director during the R&D phase of the project, known at that time as "Project M". He was one of the six founders of Varian Associates in 1948 and stepped down from his role at SLAC to become Varian's chairman in 1961. As well as his driving role in SLAC, his many contributions to the development of high-power klystrons and accelerators are also widely acknowledged.

Web pioneer rewarded

World Wide Web pioneer Tim Berners-Lee, Director of the World Wide Web Consortium at MIT, becomes a Fellow of the prestigious MacArthur Foundation.

Blois Workshop

An International Conference on Elastic and Diffractive Scattering (the VIIIth "Blois Workshop") will be held at the Institute for High Energy Physics, Protvino, Moscow Region, Russia, from 28 June to 2 July 1999.

The main topics will be: the Pomeron and Odderon, QCD and soft and hard diffraction, together with current experiments (Fermilab, HERA, Cosmic rays), and new projects (RHIC, TOTEM).

Secretariat: Alexei Prokudin, EDS99 Organizing Committee, IHEP, Protvino, 142284 Russia. Fax: +(095)-230-2337. E-mail: blois@mx.ihep.su. Web: <http://www.ihep.su/~blois/>

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The Institute for High Energy Physics (IHEP) at Ruprecht-Karls Universität Heidelberg has an immediate opening for a

Scientific Staff Position in Technical Computer Science

(*Wissenschaftlicher Angestellter*) at the *Lehrstuhl für Hardware Informatik*, a newly formed research group. Immediate activities of this group include the design of high-performance trigger processors for LHC experiments which includes the implementation of trigger algorithms in both hard and software.

The successful applicant is to participate in both the scientific and educational activities of a German *Lehrstuhl*. Besides collaboration with industry, the scientific projects include long term activities such as the design and implementation of a fast trigger processor for LHC experiments at CERN. These projects include hardware and software design using the latest state of the art tools and equipment. The research group has access to an in-house ASIC laboratory.

Candidates should have experience with hard and software. Experience with modern digital design methodology (VHDL, Verilog synthesis) is very favourable. The candidate should be familiar with common operating systems such as Windows NT and Unix and should have experience with C and C++.

The position requires a Ph.D and includes a substantial benefits package. The appointment will be initially for two years with a possible extension up to 5 years. Superior performance in the position would offer the possibility to confer qualification as a university lecturer (*Habilitation*).

Applications: Ref: VOL_2A, are invited to be sent to Prof. Volker Lindenstruth before 31.10.98, e-mail: voli@ihep.uni-heidelberg.de, phone: 0049 62 21 54 43 03. Ruprecht-Karls-Universität Heidelberg, Institute for High Energy Physics, Schröderstrasse 90, D-69120 Heidelberg, Germany.

*Disabled applicants with equal qualifications will be preferred.
The Heidelberg University encourages especially women to apply.*

The Department of Nuclear and Particle Physics of the Faculty of Science announces an opening, beginning 1st October 1999, for a position of

FULL PROFESSOR in EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS

Teaching in French of introductory physics and of particle physics. Research activity in high energy physics; participation in the ATLAS Project at CERN.

The applicant should have a Ph.D. in Physics, or an equivalent degree, and experience in teaching physics and in leading a research group in elementary particle physics.

Applications should be addressed before November 30th 1998, to: D canat de la Facult  des sciences, 30 quai Ernest-Ansermet, CH - 1211 Geneva 4, Switzerland, where additional information may be obtained.

The University of Geneva particularly encourages women to apply.



UNIVERSITY OF CALIFORNIA, RIVERSIDE

EXPERIMENTAL HIGH ENERGY PHYSICS POSTDOCTORAL POSITION IN D-ZERO

The D-zero group at the University of California, Riverside has an immediate opening for a postdoctoral physicist. The successful applicant will be based at Fermilab and is expected to play a major role in the design and implementation of reconstruction software for the D-Zero silicon tracker and to exhibit a leadership role in the analysis of data from the high luminosity Tevatron run beginning in Spring 2000. Experience with object-oriented design and C++ is preferred but not essential.

The Riverside group consists of two faculty (John Ellison and Stephen Wimpenny), one research faculty (Ann Heinson), two post-docs and two students. The group is making important contributions to the design and construction of the silicon tracker and has leading roles in analysis of D-Zero data in the areas of top quark and electroweak physics.

Interested persons should send the following application materials to Yvonne Ayers, Department of Physics, University of California, Riverside, CA 92521-0413:

- a resume
- a description of research experience
- names and addresses of at least three referees (the candidate should arrange to have the letters of recommendation sent directly to the address above).

The University of California is an equal opportunity/affirmative action employer.



Methods and Technology in Nuclear Physics Research

A practical Training Course at the Kernfysisch Versneller Instituut (KVI) Groningen, The Netherlands, organised in the framework of the TMR programme of the EC. The project comprises three events, each extending over 19 days.

Topic of the first event: cyclotron operation and magnetic spectrometer, 23 nov. - 12 dec., 1998.

We invite PhD researchers and postdoctoral fellows in various fields of science (not only nuclear physics!) We offer a hands-on introduction to the principles of accelerator-based nuclear-physics research. Participants will become familiar with accelerator operation and detection equipment. Experimental activities will be accompanied by lectures and student seminars on the underlying physics concepts. The number of participants is limited to 25. The participation fee is 200-EU per event. For detailed information consult <http://www.kci.nl/> under the topic TMR. Applications and requests for financial support should be sent before November 1st to the organiser: Prof. dr. H. L hner, KVI, Zernikelaan 25, NL-9747 AA Groningen, The Netherlands, e-mail: loehner@KVI.nl.

UNIVERSITY OF CALIFORNIA, DAVIS

FACULTY POSITION PARTICLE-COSMOLOGY DEPARTMENT OF PHYSICS

The Department of Physics at the University of California at Davis invites applications for a tenure-track faculty position as Assistant Professor in theoretical or observational cosmology which will be available July 1, 1999.

This position is the second of four new positions created for our cosmology program. The current cosmology group consists of Professors Andreas Albrecht and Robert Becker. The cosmology program will benefit from overlapping interests with our strong departmental programs in nuclear physics, condensed matter and quantum gravity, and especially with our particle physics program. Outstanding persons in all areas of cosmology will be considered. Faculty at UC Davis have full access to both Lick and Keck Observatories. The successful candidate will have a Ph.D. in physics or astrophysics and will be expected to teach at the undergraduate and graduate levels and to conduct an active research program in cosmology.

This position is open until filled; but to assure full consideration, applications should be received by November 16, 1998. To initiate the application process, request an application package by writing an e-mail message to forms@physics.ucdavis.edu. Those who do not have access to e-mail should send curriculum vitae, publication list, research statement, and the names (including address, e-mail, fax, and phone number) of three or more references to:

Professor Winston Ko, Chair
Department of Physics
University of California, Davis
One Shields Avenue
Davis, CA 95616-8677

Further information about the department can be found on our website at:

<http://www.physics.ucdavis.edu>

University of California, Davis, is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.



RIKEN BNL Research Center

Brookhaven National
Laboratory

SCIENTIFIC STAFF POSITIONS

A research center focusing on the physics program of the Relativistic Heavy Ion Collider (RHIC), hard QCD/spin physics, lattice QCD and relativistic heavy ion physics has been established by the Institute of Physical and Chemical Research, Japan (RIKEN) at Brookhaven National Laboratory. The members of the center will be Research Associates (two-year appointments), RIKEN BNL Fellows (up to five-year appointments) and Visiting Scientists. Frequent workshops are planned. Several positions for theorists in the above categories are expected to be offered for the fall of 1999. Members of the Center will work closely with the existing high energy and nuclear physics groups at BNL.

Scientists with appropriate backgrounds who are interested in applying for Research Associate positions should send a *curriculum vitae* and three letters of reference to Dr. T. D. Lee, Building 510A, Brookhaven National Laboratory, P.O. Box 5000, Upton, Long Island, NY 11973-5000, before January 1, 1999. BNL is an equal opportunity employer committed to work force diversity.

BROOKHAVEN NATIONAL LABORATORY
on the frontier of science and technology



The Institute for High Energy Physics (IHEP) at Ruprecht-Karls Universität Heidelberg has an immediate opening for a

Permanent Position in Technical Computer Science

The successful applicant is to play a major role within a new and growing research group, and is to participate in both the scientific and educational activities of a German *Lehrstuhl*. Besides collaboration with industry, the scientific projects include long term activities such as the design and implementation of a fast trigger processor for one of the LHC experiments at CERN. These projects include hard and software design using the latest state of the art tools and equipment. The research group has access to an in-house ASIC laboratory.

Candidates should have experience in the design, implementation and debugging of digital hardware including PC board level design and FPGA design. Background in ASIC design and experience with modern digital design methodology (VHDL/Verilog synthesis) is very favourable. The candidate should be familiar with Windows NT and Unix and should have experience with C and C++. Background in the development of firmware or embedded real-time software as well as knowledge about NT/Unix driver development are highly regarded. Familiarity with real-time operating systems such as Linux, VxWorks and OS9 are useful.

Applications: Ref: VOL_IB are invited to be sent to Prof. Volker Lindenstruth before 31.10.98, e-mail: voli@ihep.uni-heidelberg.de, phone: 0049 62 21 54 43 03. Ruprecht-Karls Universität Heidelberg, Institute for High Energy Physics, Schröderstrasse 90, D-69120 Heidelberg, Germany.

*Disabled applicants with equal qualifications will be preferred.
The Heidelberg University encourages especially women to apply.*

EXPERIMENTAL MEDICAL PHYSICS/BIOPHYSICS

University of Utah

The Physics Department at the University of Utah is seeking highly qualified candidates for a tenure track faculty position at the assistant, associate, or full professor levels in experimental medical physics or biophysics. Research specialties of interest include but are not limited to magnetic resonance imaging (MRI), functional imaging, diagnostic angiography, microcapillary perfusion imaging, NMR microscopy, optical imaging, membranes, neurobiophysics, cell biophysics, motor molecules, protein structure/function. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to teach undergraduate and graduate courses in physics as well as medical physics or biophysics, depending on the candidate's specialty.

Candidates should submit their curriculum vitae, list of publications, and at least three letters of recommendation by February 15, 1999 to:

MEDICAL PHYSICS/BIOPHYSICS SEARCH COMMITTEE
Department of Physics
115 South 1400 East, Room 201
University of Utah
Salt Lake City, UT 84112-0830

University of Utah is an Affirmative Action Equal Opportunity Employer. It encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.

TENURE TRACK FACULTY POSITION Experimental High Energy Physics Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for a junior tenure track faculty position in the area of experimental particle physics. The present program consists of experiment 781 at FNAL and the L3 experiment at CERN. Future activity is planned at the LHC, as members of the CMS detector and in the development of a BTeV facility at FNAL.

Applicants for the position should have postdoctoral experience and demonstrated ability in both instrumentation and analysis. The successful candidate is expected to assume a leadership role in future experiments. Applicants should be committed to excellence in undergraduate and graduate education.

The position will become available starting September 1999. Applications and three letters of recommendation can be sent via e-mail followed by a paper copy, to:

High Energy Search Committee
ATTN: Prof. A. Engler
Department of Physics
Carnegie Mellon University
Pittsburgh, PA 15213, USA
(e-mail: engler@cmphys.phys.cmu.edu)

Applications arriving until October 15, 1998 will be considered.

*Carnegie Mellon is an equal opportunity /
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TENURE TRACK POSITION

The Physics Department of the Massachusetts Institute of Technology invites applications for a Tenure Track Position at the Assistant Professor level in the area of Experimental High Energy Physics. We seek a physicist with a strong interest in the Run II CDF physics program at Fermilab and with a long term interest in pursuing LHC physics.

In preparation for Run II the MIT group is working on the Level 3 trigger and the Data Acquisition System. The appointed candidate would be expected to assume a leadership role in the analysis of Run II data in addition to participating in these upgrade projects.

The MIT CDF group has a major involvement in the development and construction of the Data Acquisition System for the CMS experiment at CERN and will provide a future opportunity for the appointed candidate to participate in LHC physics.

Applicants should submit a curriculum vitae and publication list and arrange for three letters of recommendation to be sent to:
Professor L. Rosenson, Chairman, Search Committee, 24-520, Massachusetts Institute Of Technology, 77 Massachusetts Ave., Cambridge, MA 02139-4307. MIT is an Affirmative Action/Equal Opportunity employer and especially solicits applications from qualified women and minorities.



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JUNIOR FACULTY POSITION STRING THEORY AND/OR SUPERSYMMETRY

The Department of Physics invites applications for a tenure-track faculty position in String Theory, Supersymmetry, or related areas of theoretical high energy physics. The position, which could begin as early as Fall 1999, is expected to be at the assistant professor level, but a tenured appointment could be considered for an exceptional candidate. Candidates should have a Ph.D. in physics, postdoctoral experience, and should have demonstrated outstanding research accomplishments. A commitment to excellence in teaching at both the undergraduate and graduate levels is essential. The successful applicant will be expected to initiate an independent research program of the highest quality. Applicants should submit a CV, including a list of publications and a brief statement of research interests, and arrange to have at least three letters of reference sent separately. Send all correspondence to: **Prof. Stuart Raby, Chair, High Energy Theory Search Committee, Department of Physics, The Ohio State University, 174 West 18th Ave., Columbus, OH 43210.** To achieve full consideration, all materials should be received by January 15, 1999.

The Ohio State University is an equal opportunity/affirmative action employer. Qualified women, minorities, Vietnam era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.



RIKEN BNL Research Center

Brookhaven National
Laboratory

TENURE TRACK STRONG INTERACTION THEORY RHIC Physics Fellow Positions

The RIKEN BNL Research Center (RBRC) at Brookhaven National Laboratory, together with university partners, invites applications for a new program of cooperative fellowships in strong interactions theoretical physics motivated by the experimental program of the Relativistic Heavy Ion Collider soon to be operating at BNL. Each RHIC Physics Fellow will be jointly selected and supported for 5 years, beginning September 1999, by the Center and one of the cooperating universities, and will hold a tenure track faculty appointment (or equivalent) in that university's Physics Department. Each fellow will spend about half time at RBRC and the remaining time at the university. Candidates should have a Ph.D. degree in theoretical nuclear or particle physics and be interested in pursuing theoretical research within a broad range of hadron physics, such as high energy nuclear theory, RHIC physics, QCD (perturbative and lattice), hadronic spin physics, hadronic spectra and their transition matrix elements.

Scientists with appropriate backgrounds who are interested in applying should send a *curriculum vitae* and three letters of reference to: Dr. T. D. Lee, Director, RIKEN BNL Research Center, Building 510, Brookhaven National Laboratory, P.O. Box 5000, Upton, Long Island, NY 11973-5000 before January 1, 1999. Additional information, including a list of participating universities, is available by sending an email request to: rhic_fellows@bnl.gov or writing to the above address. BNL is an equal opportunity employer committed to workforce diversity.

BROOKHAVEN NATIONAL LABORATORY
on the frontier of science and technology

University of Chicago Postdoctoral Research Associate

The high-energy physics group at the University of Chicago has an immediate opening for a research associate to work on the ATLAS and OPAL experiments. This allows physics analysis with an operating experiment as well as challenging technical work on the preparation of a next-generation collider detector.

The position would be based at the University of Chicago during the first two years, with special emphasis on the ATLAS work. Trips to CERN would be needed to participate in meetings, and test beam studies. In subsequent years the individual could be based at CERN, with more emphasis on OPAL.

We seek an individual with a recent PhD in experimental particle physics. Experience with both physics analysis and detector hardware would be an asset, but not absolutely essential for a talented individual. The position is renewable for up to four years.

For enquiries or more information contact Jim Pilcher, E-mail pilcher@uchep.uchicago.edu, Phone No. 00-1-773-702-7443.

Applications with a CV, publication list and three confidential letters of recommendation should be sent to: Professor J. Pilcher, Enrico Fermi Institute, University of Chicago, 5640 S. Ellis Avenue, Chicago, IL 60637.

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Fax: +44 (0)117 930 1178
E-mail: chris.thomas@iopublishing.co.uk

EXPERIMENTAL CONDENSED MATTER PHYSICS

University of Utah

The Physics Department at the University of Utah is seeking highly qualified candidates for an assistant professor tenure track position in experimental condensed matter physics. Research specialties of particular interest include the physics of nanostructures, quantum electronics, optics and acoustics. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to teach undergraduate and graduate courses in Physics.

Candidates should submit their curriculum vitae, list of publications, and three letters of recommendation by February 15, 1999 to:

CONDENSED MATTER SEARCH COMMITTEE
Department of Physics
115 South 1400 East, Room 201
University of Utah
Salt Lake City, UT 84112-0830

University of Utah is an Affirmative Action Equal Opportunity Employer. It encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.

UNIVERSITY OF CALIFORNIA, SAN DIEGO



DEPARTMENT OF PHYSICS

The Department of Physics at the University of California, San Diego, invites applications from outstanding candidates for a Postdoctoral Research position in experimental High Energy Physics. UCSD is a member of the BABAR experiment at the PEP II B Factory at SLAC. The goal of BABAR and PEP II is to explore CP violation in B decays as a precision test of the Standard Model, beginning with first collider data in 1999. The successful applicant will participate in the commissioning of the BABAR detector, and thereafter in data taking and physics analysis. It is expected that UCSD will contribute to the ongoing operation of the Drift Chamber, as well as to tracking and reconstruction software development. Candidates with interest and experience in these areas and in data analysis are particularly encouraged to apply. A Ph.D. in particle physics or a related field is required. Applicants should send a copy of their curriculum vitae, including a statement of physics interests, and arrange for three letters of recommendation to be sent to:

Professor David MacFarlane
Physics Department, 0319
University of California at San Diego
9500 Gilman Drive, La Jolla, CA 92093-0319
e-mail: dbmacfarlane@ucsd.edu
phone: + (619) 822-1452
fax: + (619) 534-0173

The nominal deadline for the receipt of the application is December 1, 1998. But the search will continue until the position is filled.

UCSD is an equal-opportunity, affirmative-action employer.



UNIVERSITY OF VICTORIA

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS IN EXPERIMENTAL HIGH ENERGY PHYSICS

The University of Victoria invites applicants for Research Associate positions in Experimental High Energy Physics. The positions will either be based at CERN or at the University of Victoria, working on the OPAL and ATLAS experiments. The positions have a two-year term with a possible one year extension. The positions are available immediately.

The University of Victoria group is currently pursuing research at LEP II with the OPAL collaboration. The group already has a significant role in searches for new phenomena, triple gauge coupling measurements and several aspects of physics with tau leptons. The group is also responsible for operating the OPAL online data reconstruction facility.

The University of Victoria Group is responsible for the construction of cryogenics feedthroughs for the ATLAS liquid argon calorimeter. The group also has responsibilities in the ATLAS endcap hadronic calorimeter beam tests and installation.

Candidates should have a recent Ph.D. in particle physics. Interested candidates should, prior to 15 January 1999, send a curriculum vitae, a description of research interests, and arrange for two letters of recommendation to be sent to:

Dr. M. Lefebvre or Dr. R. Sobie
Department of Physics and Astronomy
University of Victoria
Box 3055 Stn CSC
Victoria, British Columbia
V8W 3P6

E-mail: lefebvre@uvic.ca or rsobie@uvic.ca
FAX: (250) 721-7752

In accordance with Canadian immigration regulations, priority will be given to Canadian citizens and permanent residents. All qualified individuals are encouraged to apply.

POSITIONS AT THE NSCL MICHIGAN STATE UNIVERSITY

The National Superconducting Cyclotron Laboratory at Michigan State University has openings for top quality candidates to be post-doctoral fellows and assistant research professors. The appointments are typically renewable up to three years and are for research in nuclear or accelerator physics, both experimental and theoretical. The experimental nuclear physics program includes studies approaching the driplines with radioactive beams, nuclear astrophysics, and nucleus-nucleus reaction dynamics using the K1200 cyclotron system that can produce heavy ion beams in the 10 - 200 MeV/nucleon range.

Further descriptions of the research opportunities can be found on our web-site <http://www.nsl.msu.edu/> Please send a CV with a list of publications and arrange for three letters of reference to be sent directly by post to Prof. D.J. Morrissey, NSCL, Michigan State University, East Lansing, MI, 48824, or e-mail to morrissey@nsl.msu.edu

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