

- soit un *Visa de retour* délivré par la Préfecture compétente.

c) ***Non-Français ne résidant pas en France***

Les personnes de nationalité autre que française et ne résidant pas en France doivent être en possession:

- d'un document de voyage reconnu en France (cf. para. 1 b) i) ci-dessus) et
- d'un visa délivré par le Consulat de France compétent, s'ils sont ressortissants d'un pays soumis à cette obligation (des renseignements peuvent être obtenus auprès des consulats de France).

2. Déplacements à l'intérieur du territoire français

a) ***Français résidant en France ou non***

Il leur est conseillé d'être munis d'un document faisant état de leur identité (par exemple, un passeport, une carte d'identité, un permis de conduire, une carte d'étudiant, etc.).

b) ***Non-Français résidant en France***

Ils doivent être munis de leur titre de séjour français en cours de validité (cf. para. 1. b) ii) ci-dessus).

Particularités concernant les non-Français mineurs:

Il est conseillé aux non-Français mineurs (âgés de moins de 18 ans) d'être munis d'un document faisant état de leur identité (cf. para. 2. a) ci-dessus).

c) ***Non Français ne résidant pas en France***

Cf. para. 1 c) ci-dessus.

- a visa, issued by the relevant French Consulate, if they come from a country whose nationals are liable to this obligation (information can be obtained from French consulates).

2. Travel on French territory

a) ***French nationals, whether residing in France or not***

They are advised to carry some form of identification (e.g. passport, identity card, driving licence, student card, etc.).

b) ***Non-French nationals, residing in France***

They must carry their valid French residence document (cf para. 1. b) ii) above).

Special provisions relating to non-French minors

Non-French minors (under the age of 18) are advised to carry some form of identification (cf para. 2. a) above).

c) ***Non-French nationals, not residing in France***

Cf para. 1. c) above.

Relations with the Host States Service
www.cern.ch/relations/
Tel. 75152

Service des Relations avec les Pays-hôtes
www.cern.ch/relations/
Tél. 75152

SEMINARS SEMINAIRES

Vous pouvez aussi consulter

For information on these seminars, please see

<http://wwwas.cern.ch/Bulletin/Seminars/current.html>

Tuesday 12 January

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium, bldg 500*

Muon storage rings

by Alain BLONDEL / LPNHE IN2P3-CNRS,

Ecole Polytechnique

The possibility of a line of muon machines has been reviewed by a prospective study group in Europe. These muon machines involve several successive steps:

1. A low energy muon factory, and a muon storage ring for production of neutrino beams.
2. Precision muon colliders, including the Higgs factory, taking advantage of the superior energy resolution of these machines.
3. Very high energy muon colliders.

Although the technical challenges are considerable, the physics offered is very versatile and attractive.

Organiser : Jasper Kirkby / EP Division

* Tea & coffee will be served at 16.00 hrs.

Mercredi 13 Janvier

LES MYSTERES DE L'UNIVERS

CYCLE DE CONFERENCES POUR

ELEVES DE CLASSES SECONDAIRES

à 14.00 h – Amphithéâtre, bât. 500

Voyage au cœur de la matière

par A. BLONDEL / LPNHE IN2P3-CNRS &
S. PETIT / CERN

*Introduction du cycle de conférences par le Directeur Général,
le professeur Luciano Maiani*

Visite du Point 1 du LEP (sur réservation)

La conférence est ouverte à tous.

Organisateur : Service des Visites / 78484

Wednesday 13 January

COMPUTING SEMINAR

at 16.00 hrs – Salle du Conseil, bldg 503/1-001

Java Analysis Studio

by Tony JOHNSON / SLAC

Java Analysis Studio (JAS) is an experiment independent, cross-platform graphical data analysis environment for HEP. It allows direct access to data in a wide variety of formats including PAW and Objectivity or SQL databases. Data can be retrieved from a local data store, or from a remote data store using Java Agent technology to minimize network bandwidth requirements. JAS can easily be extended using experiment or data specific modules written in Java. This talk will demonstrate JAS, discuss some pro's and con's of Java as a language for HEP data analysis, and discuss our experiences with a Java framework for future Linear Collider Detector studies.

** Please note the unusual place*

Information : <http://consult.cern.ch/seminars>

Organiser : G.Folger / IT

Thursday 14 January

LHC PROJECT SEMINAR

at 14.15 hrs – LHC Auditorium, bldg 30/7th floor

The Design Review Process

by Philip A. PFUND / Fermi Nat. Acc. Lab.

Many organizations utilize a formal design review program to assure the success of new products, new services, and new processes. A design review provides an independent assessment of a new product or a first of a kind project, and enables designers and managers to apply resources to avoid problem areas rather than fix them. The assessment is provided by a panel of knowledgeable people, usually from within the organization. The purpose of this seminar is to describe the general techniques for conducting formal design reviews along with some specific examples of the use of design reviews on the US LHC accelerator project. Topics to be covered include:

- useful applications of the design review process,
- misapplications of the process,
- how the timing of a review influences the outcome,
- how management influences a design review,
- the key role that the design review board chairman plays,
- what is the desired membership of a design review panel,
- the factors that influence the outcome of a design review.

Thursday 14 January

CERN COLLOQUIUM

at 16.30 hrs – Auditorium, bldg 500*

Astrophysical Life Extinctions. What Killed The Dinosaurs ?

by Arnon DAR / Technion, Haifa, Israel & CERN

Geological records indicate that the exponential diversification of marine and continental life on Earth in the past 500 My was interrupted by many life extinctions. They also indicate that the major mass extinctions were correlated in time with large meteoritic impacts, gigantic volcanic eruptions, sea regressions and drastic changes in global climate. Some of these catastrophes coincided in time. The astrophysical life extinction mechanisms which were proposed so far, in particular, meteoritic impacts, nearby supernova explosions, passage through molecular or dark matter clouds, and Galactic gamma/cosmic ray bursts cannot explain the time coincidences between these catastrophes. However, recent observations suggest that many planetary-mass objects may be present in the outer

solar system between the Kuiper belt and the Oort cloud. Gravitational perturbations may occasionally bring them into the inner solar system. Their passage near Earth could have generated gigantic tidal waves, large volcanic eruptions, sea regressions, large meteoritic impacts and drastic changes in global climate and explain the geological records on the major mass extinctions in the past 500 My.

Organiser : Luigi Di Lella / EP Division

** Tea & coffee will be served at 16.00 hrs.*

Monday 18 January

CERN EP SEMINAR

at 16.30 hrs – Auditorium, bldg 500*

Hadron spin physics in Z decays at OPA

by George LAFFERTY / University of Manchester, UK

In the Standard Model, the quarks and antiquarks from the process $e^+e^- \rightarrow Z \rightarrow q\bar{q}$ are highly polarized, with longitudinal polarizations of about -0.94 for down-type quarks and -0.64 for up-type quarks. In the hadronization process, these primary quarks may become valence quarks in hyperons or vector mesons, the distributions of whose decay products can yield information about their spin states. About 4.4 million hadronic Z decays from the OPAL experiment at LEP 1 have been used to measure the polarization of inclusive Λ_b and Λ hyperons, together with helicity density matrix elements for a range of heavy and light vector mesons, including B^* , D^* , ϕ , K^{*0} , ω and $\rho^\pm$. The baryon results are in agreement with models in which the constituent b or s quarks carry all of the hyperon spin and there is no depolarization during the hadronization phase. In the vector meson sector, the B^* , ω and $\rho^\pm$ show no indication of spin alignment, while there is a clear preference for leading D^* , ϕ and K^{*0} mesons to occupy the helicity-zero state. There is currently no firm theoretical interpretation of these results. Some off-diagonal elements of the vector-meson density matrices have also been measured and show good agreement with a picture based on the Standard Model together with some plausible assumptions about the quark hadronization.

Organiser : Fabiola Gianotti / EP Division

** Tea & coffee will be served at 16.00 hrs.*

Tuesday 19 January

SPS AND PS EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium, bldg 500

1. Status report from NA49 : P. Seyboth. 30 min
2. Status report from NA50 : L. Kluberg. 30 min
3. Status report from NA53 : J.C. Hill. 30 min
4. Status report from NA57 : F. Antinori. 30 min
5. Status report from NA45 : J. Stachel. 30 min
6. Experimental study of a positron source using channeling (SPSC 98-23/P309); R. Chehab. 30 min

Closed session

at 14.00 hrs, to be continued on Wednesday 20 January
at 09.00 hrs, 6th floor Conference room.

Tuesday 19 January

TECHNICAL PRESENTATION

at 10.00 hrs – IT Auditorium, bldg 31/3-004-5

A presentation on LATTICE Programmable Logic

by Mr. BURTSCHER & Mr LOPES / Eurodis Electronics AG, CH

Lattice programmable-logic device (PLDs) have been popular with CERN electronic designers. The in-situ programmability (ISP) — invented by Lattice — is a particularly attractive feature of these PLDs.

The agenda for this presentation is:

- Introduction to Lattice
- Introduction to device – families and features
- In-System Programming with demo
- Tools available at CERN
- Application examples
- Questions & Answers

Information : S. BROBECKER / IT / 78693

Serge.Brobecker@cern.ch

Organiser : S. Cannon / IT / 75036

Thursday 21 January

SL SEMINAR

at 16.00 hrs* – SL Auditorium, bldg 864

The CEBAF Energy Upgrade: Plans and Technical Challenges

by Isidoro E. CAMPISI / Thomas Jefferson National Accelerator Facility Newport News, Virginia

The CEBAF electron accelerator at Jefferson Lab has now been operating for over three years for the Nuclear Physics community. The original design energy of 4 GeV is being routinely exceeded and a goal of close to 6 GeV is being pursued in the short term by pushing the presently installed 338 superconducting 5-cell cavities. A first Energy Upgrade to 12 GeV is envisioned to be completed by the year 2005. Further plans to reach 24 GeV are being considered for the more distant future with necessary civil construction activities.

A new cryomodule is being designed to meet the needs of both Energy Upgrades. Development work is under way to finalize the design requirements of new 7-cell cavities. These will still maintain the pitch length of the present cryomodule, with the goal of quadrupling the original energy gain per cryomodule to 80 MeV.

The latest work on the Energy Upgrade will be presented.

Information:

<http://www.cern.ch/CERN/Divisions/SL/news/news.html>

Organiser: Werner Herr / SL Division

* Tea and coffee will be served at 15.30 hrs in front of the Auditorium

Friday 22 January

COORDINATION OF INDUSTRIAL PROCESS CONTROLS (CCIP) WORKSHOP

09.00 to 12.30 & 14.00 to 17.30 hrs – LHC auditorium,
bldg 30/7-018

Experience with and Requirements for Supervisory control (SCADA) systems at CERN

Goals:

The workshop has two principle aims:

- a) to exchange practical experience in the current running activities, and
- b) to collect specific requirements from the CERN present and future projects on what they see as critical issues.

Details on this workshop can be found on the web, under LHC Div/Seminars/CCIP, at url:

<http://www.lhc.cern.ch/SEMI/SCALA990122.html>

Organiser: C.H. Sicard / LHC-IAS

POUR INFORMATION / FOR INFORMATION

IT TUTORIAL PROGRAMME FOR 1999

The Tutorial Programme organized by IT Division aims at providing topical seminars and tutorials concerning the computing services and infrastructure offered to users. Most of the topics refer to the central computing facilities, but there are also some addressed in collaboration with other Divisions (notably AS). Allow us to express our sincere thanks to everybody collaborating in this initiative.

Tutorials usually last for one hour or two and attendance is open without requiring formal registration. In order to cover the diversity of user needs we try to organise a wide variety of topics, ranging from basic introductions to technical overviews. This approach has had a wide acceptance as attendance statistics shows (about 3000 attendants since June 1997).

In coordination with the corresponding teams we have outlined the main areas and topics to be addressed during 1999. Please check the bulletin regularly for specific dates and contents.

As usual, feel free to give us your feedback. Also, you might want to take advantage of the logistics we have put in place to share your knowledge with other users. We only ask that the topics remain in a field compatible with our service guidelines.

Miguel Maquina, Raul Ramos-Pollan IT/User Support
IT-Training.Service@cern.ch

PC WINDOWS ENVIRONMENT:

- Introduction to Office Applications, including introductory tutorials to Word, Excel, PowerPoint, Corel, Designer, Project
- Introduction to Visual C++ and Visual Basic
- Connecting from home using Windows
- Installing Applications in NICE
- Windows Scripting Host
- Using Exceed v6

PROGRAMMING TECHNOLOGIES:

- Introduction to Java
- Using Java at CERN
- An overview of the standard Java class libraries, including specific tutorials (Swing, JDBC, Corba, etc.)
- Basic concepts in database technologies.
- An Overview of the ESA Software Engineering Standards
- Introduction to Objectivity
- Using Objectivity with Java

WWW:

- Searching the CERN Intranet and the WWW
- WWW Authoring Tools
- Using Metadata in your HTML documents
- Introduction to CGI Scripting

- Administering the Apache WWW server
- Introduction to Javascript

MAIL:

- Using Netscape 4.5 Mail at CERN.
- Migrating from MSMail to Netscape 4
- Netscape 4.5 for local administrators.
- Using Pine 4. What's new.
- WWW Mail tools at CERN.
- Introduction to the EMAIL addressing scheme at CERN
- Using and administering mailing lists at CERN.
- Basic concepts for roaming users.

EDUCATION SERVICES EDUCATIFS



Information sur les cours, dates et places disponibles sur WWW:
Information about the courses, dates and places available on WWW :
<http://www.cern.ch/Training/>

• AUTOFORMATION ACCOMPAGNÉE EN ANGLAIS: STAGE D'INTRODUCTION.

Ce stage aura lieu du 01 au 05 février 1999 à raison de 4 heures par jour, de 08h30 à 12h30 (soit 20 heures au total). C'est la première étape obligatoire d'une année d'apprentissage de l'anglais en autoformation. Il sera animé par Daphne Goodfellow.

Si vous êtes intéressé(e) par cette formule d'apprentissage (voir détails dans le Web), vous pouvez vous inscrire dès maintenant soit électroniquement soit par formulaire papier.

Pour toute information, veuillez contacter Mme Laurent: tél. 78143 ou M. Liptow: tél. 72957.

• COURS D'EXPRESSION ORALE EN ANGLAIS

Ce cours aura lieu du 01 au 05 février 1999 à raison de 3 heures par jour, de 14h à 17h, soit 15 heures au total. Il sera animé par Daphne Goodfellow.

Prix: 290 CHF

Pour toute information, veuillez contacter Mme Benz: tél. 73127, Mme Fontbonne: tél. 72844 ou M. Liptow: tél. 72957.

UNIVERSITE DE GENEVE

Département de physique nucléaire et corpusculaire

24, quai Ernest-Ansermet

1211 Geneve 4

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Wednesday 13 January

NUCLEAR PHYSICS SEMINAR

at 17.00 hrs – Auditoire Stuckelberg

High energy photon-photon interactions: a fresh insight into diffraction

by Sandy DONNACHIE / University of Manchester

The pomeron-exchange picture of diffraction on purely hadronic interactions will be recalled briefly. The parameters of the soft phenomenological pomeron will be specified and non-perturbative QCD models of the pomeron outlined. The breakdown of this simple picture in reactions with a hard scale, such as deep inelastic electron scattering at high energy, will be analysed. Alternative explanations will be discussed, including one with a second non-perturbative pomeron. The unique aspects of high energy photon-photon interactions as a probe of the detailed dynamics will be developed and predictions made for cross sections at LEP II.

FORMATION EN LANGUES LANGUAGE TRAINING

Françoise Benz ☎ 73127

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Andrée Fontbonne ☎ 72844

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ANGLAIS - FRANCAIS

Les inscriptions à ces cours sont ouvertes dès maintenant pour le premier trimestre 98-99:

du 18 janvier au 26 mars 1999.

Ces cours s'adressent à toute personne travaillant au CERN ainsi qu'aux conjoints.

Vous pouvez vous inscrire électroniquement, via le Web et EDH ou en utilisant un formulaire papier.

Pour toute information, veuillez contacter Mme Benz ou Mme Fontbonne: tél. 73127 (après-midi seulement), Mr Liptow: tél. 72957.

ENGLISH - FRENCH

• General French Courses

Registration for language courses in the first term: from 18 January to 26 March 1999.

These courses are open to all persons working on the Cern site, and to their spouses.

You can enrol electronically through the Web and EDH or by using a paper form.

For all information, please contact Mrs. Benz or Mrs. Fontbonne: tel. 73127 (afternoons only), Mr. Liptow: tel. 72957.

• Writing Professional Documents in French

There are still places available in level 1 and 3. These courses are designed for people having a good standard of spoken French.