

COMMUNICATIONS OFFICIELLES

OFFICIAL NEWS

Les membres du personnel sont censés avoir pris connaissance des communications officielles ci-après.

La reproduction même partielle de ces informations par des personnes ou des institutions externes à l'Organisation exige l'approbation préalable de la Direction du CERN.

COMMISSION PARITAIRE CONSULTATIVE DES RECOURS

La Commission paritaire consultative des Recours s'est réunie pour examiner le recours introduit par Monsieur James GILLIES en matière d'avancement.

L'intéressé n'ayant pas formulé d'objection, les recommandations de la Commission et la décision définitive du Directeur général sont portées à la connaissance du personnel, conformément à l'Article R VI 1.20 du Règlement du Personnel.

Ces documents seront donc affichés aux tableaux du Bâtiment de l'Administration (n° 60) du 23 mai au

Members of the personnel shall be deemed to have taken note of the news under this heading.

Reproduction of all or part of this information by persons or institutions external to the Organization requires the prior approval of the CERN management.

JOINT ADVISORY APPEALS BOARD

The Joint Advisory Appeals Board was convened to examine the appeal lodged by Dr James GILLIES with regard to advancement.

As the appellant has not objected, the recommendations of the Board and the final decision of the Director-General are brought to the notice of the personnel in accordance with Article R VI 1.20 of the Staff Regulations.

The relevant documents will therefore be posted on the notice boards of the Administration Building (N° 60) from 23 May to 7 June 1997.

Personnel Division
Tel. 74128

SEMINARS SEMINAIRES

Pour de plus amples informations, prière de consulter
For full information on these seminars, please see
<http://wwwas.cern.ch/Bulletin/Seminars/current.html>

Monday 26 May

LIBRARY SCIENCE TALKS

at 10.00 hrs – 6th Conf. Room, bld. 60

The ONE Project and automaton library trends in Norway

by Ole HUSBY / BIBSYS Trondheim

Simultaneous interpretation into French will be provided.

For readings see: <http://www.bibsys.no/one.html>.

Monday 26 May

COMPUTING COLLOQUIUM

at 14.00 hrs – Auditorium

Software and Infoware

by Tim O'REILLY / O'Reilly and Associates (US)

The computer industry is at a crossroads, perhaps without even knowing it. Just as open systems and commodity hardware unleashed the power of independent software developers, the loose coupling of software and information products represented by the World Wide Web brings new people and new kinds of applications into the computer market. Specifically, HTML, scripting languages (such as

perl) that can be mastered at some level even by non-programmers, and embeddable program components mean that we are at the start of a new phase in the industry. This new phase will be characterized by the development of lightweight, dynamic information applications, or "infoware," that embed small pieces of program functionality into documents. Infoware allows the computerization of tasks that change rapidly, are performed infrequently by users, or require the construction of interfaces to large bodies of information. This talk will explore some of the ramifications of this paradigm shift in the computer industry.

The speaker's CV is available at:

http://www.ora.com/oreilly/tim_bio.html

Monday 26 May

SPECIAL COLLOQUIUM TO CELEBRATE THE 25TH ANNIVERSARY OF THE PS BOOSTER

at 15.30 hrs – Auditorium

Genesis, by K.H. REICH

Construction, by G. BRIANTI

Evolution, by K. SCHINDL

Monday 26 May

CERN HEAVY ION COLLOQUIUM

at 16.30 hrs – TH Conference Room

Tests for Equilibration in High Energy Heavy Ion Collisions

by Johanna STACHEL / Heidelberg University

Yields, spectra and correlations of hadrons emitted in relativistic heavy ion collisions at the BNL AGS and at the CERN SPS will be discussed. Particular emphasis will be put on the question of whether they are consistent with thermal and hadrochemical equilibrium at freeze-out. The talk will also address similarities and differences with hadronization as observed in pp and e^+e^- collisions.

Organisers: Y. Foka and C. Lourenço

Tuesday 27 May

SPS AND PS EXPERIMENTS COMMITTEE

There will be no Open Session.

Closed session

at 09.00 hrs, 6th floor Conference Room.

Tuesday 27 May

TECHNICAL PRESENTATION

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

MUSTIG V4.5 : An Interactive Software for Signal and Image Processing and Numerical Simulation

by B. LEPRETTRE / Technical and commercial engineer,
Gresilog S.A.

Gresilog S.A. was founded 1989 by two CNRS engineers and specialised in Signal Processing. In addition to offering services and technical assistance to various companies and laboratories, Gresilog publishes and distributes MUSTIG, a graphical, interactive software for Signal & Image Processing and Numerical Simulation. MUSTIG is an actual graphical programming language based on a comprehensive library featuring basic modules (e.g. FFT, correlation, visualisations) as well as more complete functions such as filter synthesis. Optional libraries are available for advanced spectral analysis, time-frequency analysis, image processing, finite precision arithmetic, real-time processing and VHDL description. All the library modules are modifiable to fit the user's needs. MUSTIG's interactive conception allows to rapidly alter a given parameter, or replace it by a list of values, and immediately observe how the results change. Any hidden parameter or result can be moved to the front panel to be easily viewed or changed. They can also be gathered with text in the form of interactive documents to produce working media, reports or Signal Processing courses. A global demo of MUSTIG's capabilities will be presented and there will be time for more personalised demonstrations if necessary.

Organiser : S. Cannon / IT / 75036

Tuesday 27 May

TECHNICAL PRESENTATION

14.00-17.00 hrs – bld. 54/2-035

Bellows – expansion joint utilisation at cryogenic temperature

by A. PIETRAFESA / Idrosapiens S.r.L. (IT)

Bellows expansion joint utilisation at cryogenic temperature

- Generalities on expansion joints;
- characteristics of the flexible element (bellows);
- utilisation guidelines
- Cryogenic expansion joints: particularities of the design and performances.
- Experiences in advanced cryogenic applications.

Language : English, French

Information : L. Abel / SPL-PS / 79561

Tuesday 27 May

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Progress in QCD : the experimental phenomenology of gluon and quark jet differences

by J. William GARY / University of California, Riverside

A key element of QCD is the different color charge of gluons and quarks.

One of the principal phenomenological consequences of this difference is a difference in the properties of gluon and quark jets.

Such an issue is relevant not only to test QCD, but also in such fields as top quark physics, in which gluon-jet dominated QCD events form the principal background to quark-jet dominated top quark events. Despite about 15 years of dedicated work at various accelerator facilities, it proved difficult to establish the experimental phenomenology of quark-gluon jet differences. Dramatic improvement in the experimental situation has occurred in the past few years, however, due especially to the contributions of the LEP experiments. An overview of the field and of its current status will be given.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 28 May

TECHNICAL PRESENTATION

14.00-17.00 hrs – bld. 13/3-005

Connectors (Standard & special)

by Riccardo VANZO / Van System S.r.L. (IT)

Standard series: Electrical circular connectors according to MIL-C-5015 specification with threaded and bayonet coupling systems

Special connectors: Modification applicable to the standard series in order to obtain a connector that meets specific requirements for special application, i.e. material and treatment of shell, contacts, isolating inserts, coupling systems, contact types (coaxial, thermocouple, pneumatic, power, fibre optics, etc.) rear cable bushing systems.

Language : English, Italian

Information : L. Abel / SPL-PS / 79561

Wednesday 28 May

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Refraction of neutrinos

by A. SMIRNOV / ICTP

Magnetic fields influence neutrino refraction in a medium. The nature of the effect and its possible applications to the

supernova and relic neutrinos will be described. Some interesting features of refraction appear for very low-energy (and for non-relativistic) neutrinos.

Thursday 29 May

LEP EXPERIMENTS COMMITTEE

at 09.00 hrs – Auditorium

Open session

Reports on the LEP machine

09.00-09.30 Summary of 1997 Chamonix Workshop, and follow-up (*Steve Myers*)

LEP2 physics prospects

09.30-10.00 Supersymmetry (*John Ellis*)

10.00-10.30 High precision measurements of the Standard Model (*David Charlton*)

10.30-11.00 *Coffee break*

Reports on the LEP experiments

11.00-11.30 DELPHI (*Tiziano Camporesi*)

11.30-12.00 L3 (*Martin Pohl*)

12.00-12.30 OPAL (*Rolf-Dieter Heuer*)

12.30-13.00 ALEPH (*Gigi Rolandi*)

13.00-14.30 *Lunch*

Close session

at 14.30 hrs, 6th floor Conference Room

Jeudi 29 mai

PRÉSENTATION TECHNIQUE

09.00-17.00 hrs – bât. 13/3-005

Stations de soudage et de dessoudage WELLER et outillage EREM

par M. J. LAMADON / Cooper Tools (FR)

Technique de soudage et de dessoudage des composants traditionnels:

Technique de réparation des composants CMS

Soudage manuel de Fine Pich par mini vague

Dessoudage de QFP de grandes dimensions

Présentation de l'outillage EREM, pinces coupantes, brucelles, pinces à plier, produits spécifiques adaptés à vos besoins.

Langues : français, anglais

Informations : L. Abel / FI-A / 79561

Thursday 29 May

LHC TECHNICAL SEMINAR

at 16.00 hrs - LHC Auditorium, bld. 30 (7th fl.)

Dynamic aperture of the LHC

by Frank SCHMIDT / CERN-SL

In the LHC, non-linearities of the magnetic fields limit the largest stable amplitude (dynamic aperture) of single particle motion. This is particularly true at injection energy because the multipolar errors due to persistent currents are at their maximum, the beam size is large and the particles have to survive for a long time needed to fill the LHC with 2835 bunches per beam.

Despite a decade long effort there is still no conclusive theory which could faithfully predict the long-term dynamic aperture. One is therefore obliged to do brute-force particle tracking of the full model of the LHC including all errors. Even though CERN has recently acquired a 10 processor system with fastest floating point performance presently available only 1% of the LHC injection period can be covered by systematic numerical studies. Using early indicators, survival plot analysis and the experience from existing machines, one can nevertheless give an estimate for the dynamic aperture at the end of the injection period.

Friday 30 May

ORACLE DEVELOPERS TECHNICAL SESSION

at 10.00 hrs – IT Auditorium, bld. 31/3-004

Designer/2000 Release 2.0 – Technical Overview

by Mark PIRIE / Oracle UK

This is an important new release that both broadens and deepens the application design and generation capability of the product. Broadens in that the new open server options increases the user community that Designer/2000 is relevant for. Deepens in that the new design model captures much more of the required semantics resulting in significantly increased generation coverage for client-server, web and workgroup applications.

This presentation will describe and demo the new design model, the new integrated design tool and the new generation options.

Organiser: P. Martel / EST

Friday 30 May

PS SEMINAR

at 11.00 hrs – PS Auditorium, bld. 6/2-024

The Linac Coherent Light Source (LCLS) at SLAC

by Max CORNACCHIA / SLAC

The Linac Coherent Light Source is a Free-Electron-Laser experiment designed to produce radiation at the wavelength of 1.5 Angstrom. One third of the SLAC linac accelerates electrons to 15 GeV. The high brightness electron beam interacts with the magnetic field of a 100 m long undulator and generates coherent radiation by self-amplified-spontaneous-emission. The output peak power is about 10 GW. The high brightness electron beam, the construction and tight tolerances of the undulator and the transport of the x-ray radiation will be discussed.

Organiser: Bruno Autin / PS

Tuesday 3 June

TECHNICAL PRESENTATION

at 09.30 hrs – IT Auditorium, bld. 31/3-004-5

A Complete EDA Tool Environment on Windows NT

by R. SCHMIDT / Viewlogic Systems, Computer Controls SA

Viewlogic Systems is the leading supplier of complete multi platform EDA solutions for FPGA and ASIC design. The core of today's presentation is **Workview Office**, the advanced and sophisticated design environment on *Windows NT including* : Language Based Design for FPGA and ASIC development Design Management with Intelliflow, the

intelligent design flow manager leading you step by step through your design Mixed Digital Simulation for powerful Co-Simulation of VHDL and Verilog Mixed analog Simulation with ViewSim and ViewSpice Static Timing Verification for High End FPGAs and ASIC vendors. We invite you to join us in an interactive presentation and get the proof why « 2 of 3 FPGA designers choose Workview Office » (Source : Dataquest).

Information <http://www.viewlogic.com>

Organiser : S. Cannon / IT / 75036

Tuesday 3 June

ORACLE DEVELOPERS TECHNICAL SESSION

at 10.00 hrs – LHC Auditorium, bld. 30/7th floor

Quest Software Products

by Gert SANDER / Quest Software

This presentation will focus on some of Quest Software's products, namely:

1. Tuning suite SQLab Tuning – the application tuning tool for identifying offensive sql statements and i/o bottlenecks. SQLab helps the developer during development sessions and the DBA during production time. SQLab shows the SQL statement and explain the plan for better tuning and understanding.

Monitor – the tool for performance monitoring and diagnostics. It pinpoints and corrects performance bottlenecks in the database.

Spacer – the tool for space management and object reorganisation for better performance.

SQLab Impact - the tool for analyzing application software. SQLab Impact gives a complete overview on the relation between database procedures, rules, programs and tables. It also points out, which procedures, programs or application call or are called by other procedures, programs or applications. SQLab Impact is the tool for developers, DBAs and QA.

2. Output Management

Vista Plus – the tool for ORLP - online report processing and management. Vista Plus supports the distribution of standard reports, helps to reduce time and waste of printed paper. Vista Plus allows the client to access and work on a report electronically.

3. High Availability

I/Watch – the tool for monitoring databases, networks and operating systems.

Shareplex UX – the replication tool for Oracle databases and file systems.

Organiser: P. Martel / EST

Tuesday 3 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Research on New Detectors

by Georges CHARPAK / Ecole Supérieure de Physique et de Chimie Industrielle, PARIS

Research on detectors is mostly driven by specific needs in various fields.

A description will be given of detectors adapted to very high intensity accelerators, either for triggering on very rare events or for tracking and particle identification in a high rate environment.

Special emphasis will be given to a new detector

"MICROMEAS", which matches all requirements for operation at LHC. It opens also a new era of research in all domains requiring radiation localisation.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 4 June

PS SEMINAR

at 11.00 hrs – PS Auditorium, bld. 6/2-024

A Non Local Wave Model for Particles and Fields (Part 2)

by Wolfgang SCHNELL / CERN-SL

A classical model of universe can be based on a Newtonian-Galilean system. Its inhabitants formed of waves experience special relativity and quantum mechanics. The essential features of the model will be introduced and it will be shown how mass spectra and classical field theory can be derived from first principles.

Organiser: B. Autin / PS

Thursday 5 June

LARGE HADRON COLLIDER COMMITTEE

Open Session (preliminary agenda)

at 09.00 hrs – Auditorium

09.00–10.30 ATLAS inner detector Technical Design Report

10.30–11.00 Coffee break

11.00–12.30 ATLAS muon system Technical Design Report

12.30–14.00 Lunch break

14.00–15.00 CMS status report

15.00–15.45 CMS magnet Technical Design Report

15.45–16.45 ATLAS magnet Technical Design Reports

Thursday 5 June

MICROPROCESSOR USER'S MEETING

at 10.00-12.00 hrs – IT Auditorium, bld. 31/3-005

Organiser: M. Merkel / IT

FOR INFORMATION / POUR INFORMATION

UNIVERSITY OF GENEVA

Particle Physics Department

24, quai Ernest-Ansermet

1211 Geneva 4

Tel. 022 702 6273, Fax 022 781 2192

Wednesday 28 May

PARTICLE PHYSICS SEMINAR

at 17.00 hrs – Stückelberg Auditorium

Silicon microstrip detectors for high energy physics experiments: a review

by David VITE / DPNC, Geneva University

Since a few decades silicon detectors have been made use of in particle physics experiments, with systems of a complexity never imagined before now under construction or design, such as the tracker system for the AMS experiment

or the silicon central detectors for the approved LHC experiments. A review of microstrip detectors will be presented starting from the basic principles and functioning, summarising topical properties such as possible single and double-sided geometries, and bulk and surface characteristics such as interstrip isolation, resistance, capacitance. Material budget concerns are not minor in sensitive experimental configurations. The microstrip systems used at LEP collider experiments will be briefly presented, among other. Recent developments for LHC detectors, where the radiation hardness is a major issue, will be discussed, along with the proposed configurations and geometries. Vaste programmes of radiation hardness studies and test irradiations have been and are being carried out since a few years to this purpose, with important results and consequences to microstrip manufacturing.

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/>

ENSEIGNEMENT GENERAL GENERAL EDUCATION

Rafel Carreras ☎ 75811

SCIENCE POUR TOUS par Rafel Carreras

Jeudi 5 juin
de 13h.00 à 13h.30 – Amphithéâtre

Version condensée de la soirée
"Les Sciences aujourd'hui"
du mardi 3 juin

INFORMATIONS GENERALES GENERAL INFORMATION

FORTHCOMING IT TRAINING PROGRAMME: GIVE US YOUR FEEDBACK

The Computing Tutorials organized last year by IT Division proved to be successful and appreciated by you. The Programme covered not only aspects associated to the migration to new platforms/working environments as offered by IT, but also training of generic nature which complements and in no way invalidates the offerings of the Technical Training Service.

We are preparing a new Training Campaign, starting in July 1997 and having the same scope and objectives, namely:

- open lectures of 1-2h of duration, making optional use of a PC/Mac/Xterminal for live demos
- no formal attendance procedure (registration/fee) required
- topics on applications/environments/services as demanded

In order to prepare a Programme which suits you best, we would welcome your suggestions/requests on topics you would like to see addressed.

Please visit our Web Page: <http://wwwinfo.cern.ch/support/training> to see the set of tutorials given so far and a non-exhaustive list of topics we are currently working on.

Please give us your feedback by contacting us at the following address: IT-Training.Service@cern.ch

Miguel Marquina
User Support - IT Division

VENTE, STOCKAGE ET RECUPERATION

En raison de rénovation, le bâtiment 133 sera fermé du 26 mai au 30 juin.

Division SPL
Groupe Logistique
A. Notari

SALES, STORAGE AND SALVAGE

As a result of renovations, building 133 will be closed from 26.05.1997 to 30.06.1997.

SPL Division
Logistics Group
A. Notari