

COMMUNICATIONS OFFICIELLES

OFFICIAL NEWS

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ACCU MEETING

DRAFT Agenda for the meeting to be held on Wednesday, 12 June 1996

At 10 a.m. in the Director General's Conference Room 6th. floor, Main Building.

1. Chairman's remarks
2. Adoption of the agenda
3. News from the CERN Management
4. Minutes of the previous meeting
5. Matters arising
6. News from Member States
7. Low cost accommodation
8. Relations with the Host States
9. Election of ACCU Chairman
10. Users' Office news
11. Any other business
12. Agenda for the next meeting

Anyone wishing to raise any points under item 10 is invited to send them to the Secretary in writing via the CERN Users' Office or by e-mail to

Bryan.Pattison@cern.ch

Bryan Pattison (Secretary)

ACCU is the forum for discussion between the CERN Management and the representatives of CERN Users to review the practical means taken by CERN for the work of Users of the Laboratory. The User Representatives to ACCU are (CERN internal telephone numbers in brackets):

Austria	G. Walzel (6592)
Belgium	G. Wilquet (4664)
Czech Republic	J. Bohm (8348)
Denmark	T.A. Fearnley (5941)
Finland	K. Huitu

France	B. Michel (6323)
	D. Vilanova (3975)
Germany	G. Herten (7188)
	B. Nellen (7389)
Greece	T. Papadopoulou (7306)
Hungary	G. Vesztergombi (3120)
Italy	V. Palladino (3541)
	P. Bagnaia (3832)
Netherlands	D. Toet (3645)
Norway	A. Read (4717)
Poland	Z. Hajduk (5917)
Portugal	J.C. Carvalho (4641)
Slovak Republic	J. Urban (8507)
Spain	J. Marco (3316)
Sweden	V. Hedberg (5822)
Switzerland	M.-T. Tran (8986)
United Kingdom	J. Carter (6361)
	K. Peach (Chairman) (8737)
Non-Member States	S. Komamiya (4091)
	D. Stickland (6578)
CERN	P. Bloch (3776)
	A. Schopper (3158)

CERN Management is represented by L. Foà and M. Robin (Directorate) and W. Blum / PPE with B. Pattison / PPE as Secretary. Personnel Division is represented by J. Salicio Diez and the CERN Staff Association by M. Borghini. Other members of the CERN Staff attend as necessary for specific agenda items. Anyone interested in further information about ACCU is welcome to contact the appropriate representative, or the Chairman or Secretary (2923 or Bryan.Pattison@cern.ch).

SEMINARS SEMINAIRES

Monday 3 June

TECHNICAL PRESENTATION

at 09.30 hrs – CN Auditorium, bldg 31/3-004-5

DEBUGGING C AND C++ CODE.

by Scott BARNES, Vice President of Sales Derick Moore, Chief Technical Officer G.B. FASTCASE TECHNOLOGY

Research by Demarco and Lister shows that professional programmers average 1.2 software defects for every 200 lines of code written. At this rate, a typical software program of 200,000 lines of code can easily contain over 1,000 programming errors. In order to find these errors, standard testing procedures are not enough.

Insure++ and Code Wizard are two products designed to

streamline the debugging process, together, these tools can:

- Detect over 70 classes of errors in dynamic memory, static memory, stack memory, and third party libraries
- Check all of your system calls
- Give you a line and stack trace for your errors
- Provide integrated coverage analysis
- Tell you how your program uses dynamic memory
- Detect sloppy coding

Find out more about improving your C and C++ code at our on-site presentation.

Organiser : S. Cannon / CN / 5036

Tuesday 4 June

TECHNICAL PRESENTATION

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

VisualWave.

by Rolf Widmer, ParcPlace, & Daniel Cosandey, Clio.

VisualWave from ParcPlace-Digitalk is an object-oriented development tool for applications for the world-wide web (WWW). It is based on Smalltalk, one of the leading languages for object-oriented application systems. The presentation gives an introduction into the concepts of VisualWave and shows the use of the development and deployment interface.

• Agenda:

- Concepts of VisualWave
- Positioning of VisualWave
- GUI development for WWW
- adding business logic
- Database access
- Integration of Java applets
- Deployment
- Demonstration

Organiser : S. Cannon / CN / 5036

Tuesday 4 June

TECHNICAL PRESENTATION

at 14.00 hrs – CN Auditorium, bldg 31/3-004-5*

GUI Converter WorkShop at CERN

by U. A. Grass, D. Fischer, R. Subramanian / INOMA SA Bâle.

GUI Converter from KUMARAN, Madras and Toronto, is a powerful tool to convert Forms V.3.0 to Forms V.4.5. The representative of KUMARAN in Switzerland, INOMA SA Bâle, would like to present this product in a WorkShop at CERN:

Conversion of SQL Forms V.3.0 Applications to Oracle Forms V.4.5

Why convert your forms to V.4.5?

Features of GUI Converter.

What Oracle Forms Generate can not do.

Code Incompatibilities as incompatible format mask, renaming V3 packaged procedures, renaming V3 system variables, display length incompatibilities.

Introducing GUI Objects.

Text Items to Check Boxes, List Items and Radio Buttons
Navigation Controls.

Simulation of Keyboard Navigation.

True Mouse Navigation

Conversion Alternatives

Stay in Forms 3.0.

Rewrite the application.

Re-engineer the application.

Take another GUI

Product demonstration

Life demo of a conversion.

The power of an automated conversion tool.

Ask KUMARAN

Questions and discussions with the conversion specialists from KUMARAN and INOMA

* PLEASE NOTE UNUSUAL TIME

Organiser : S. Cannon / CN / 5036

Tuesday 4 & Wednesday 5 June

SPS AND LEAR EXPERIMENTS COMMITTEE

OPEN SESSION

Tuesday 4 June

at 9.00 hrs – Main Auditorium, bldg 500

OPEN SESSION

1. Overview, physics goals, perspectives and motivations for the future: K. Kajantie.
 2. WA97- Status update and future plans: F. Antinori.
 3. Report on WA98: H. Gutbrod.
 4. Report on NA44: H. Bøggild.
 5. Report on NA45/2: I. Tserruya.
 6. Report on NA49: R. Stock.
- 13.00 hrs - 14.00 hrs **LUNCH**
7. Report on NA50: K. Kluberg.
 8. Report on NA52: K. Pretzl.
 9. Topical summaries of the Quark Matter '96 conference and their relation to CERN SPS future programme:
 - Theory J.P. Blaizot.
 - Experiment P. Braun-Munzinger.

Wednesday 5 June

CLOSED SESSION

at 9.00 hrs – Main Auditorium, bldg 500, to be continued at 14.00 hrs, 6th floor Conference Room

Wednesday 5 June

PS SEMINAR

at 11.00 hrs - PS Auditorium, bldg 6, 2-024

Status of the Next Linear Collider Test Accelerator

by Ronald D. Ruth, SLAC

The design for the Next Linear Collider at SLAC uses an 11.4 GHz Linac. Together with the developments of the klystrons and their associated technology, the 1/2 GeV test accelerator (NLCTA) is being built to serve as a test bed as the design of the NLC evolves. The NLCTA is also designed to address many questions related to the dynamics of the beam during acceleration, such as multi-bunch beam loading compensation and transverse beam

break-up. The status of the construction effort in RF systems and the first tests with beam in the NLCTA will be reviewed.

Wednesday 5 June

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room, bldg 4

Gauge forces as the messengers of supersymmetry breaking

by Savas DIMOPOULOS / CERN

Theories in which the ordinary gauge forces are the messengers of supersymmetry breaking are economical: they have 22 parameters, 2 more than the standard model, as opposed to the 125 parameters of the ordinary minimal supersymmetric theory. Furthermore, they do not suffer from large flavour violations. Their trademarks – hard photons, b-jets and displaced vertices – provide us with superb new tools to search for sparticles and the Higgs at colliders and to probe deeper into the supersymmetric parameter space.

Wednesday 5 June

IEE LECTURE

at 15.00 hrs – Building 600 R-017 (Conf. Room 1)

Data Handling at CERN, Past, Present and Future

by Charles Curran / INSTITUTION OF ELECTRICAL ENGINEERS

He will describe how the methods and equipment used have drastically changed over the years from the Marchant Calculator to the Meiko Super computer and try to predict where we will go next.

All are welcome.

Wednesday 5 June

SPECIAL PS SEMINAR

at 16.00 hrs - PS Auditorium, bldg 6, 2-024

A Modern View of Conformal Mapping

by B. Schnitzer, University of Graz, Austria

The design of magnetic, electrostatic or electromagnetic devices can be powerfully aided by field plots which give physical insight into a problem and the basic features of a structure. A number of 2-D applications can be treated with conformal maps, they range from magnet poles to electrostatic pick-up's, vacuum chamber transitions or strip lines. The technicalities of the conformal mapping are considerably alleviated by modern symbolic techniques. Concrete application programs written in Mathematica will be described and provided.

Mercredi 5 juin

SÉMINAIRE POUR LES GUIDES DU CERN

organisé par le Service des Visites – Groupe DSU/CP

à 16.00 hrs – Amphithéâtre, bât. 500

Le CERN et les Institutions Européennes

par Oscar Barbalat / CERN LHC

Thursday 6 June

TECHNICAL PRESENTATION

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

June 6 Digital announcements

by DEC Digital Equipment Corporation SA

1st PRESENTATION: AlphaServer 4100, the new powerful SMP midrange system

- Up to four CPU's and 4 GB of ECC-protected memory
- Two 64-bit PCI I/O subsystems with eight slots
- Up to 120 CERN units (SPECint95 12) per processor
- Operating Systems: Windows NT, Digital UNIX, OpenVMS

(the above presentation will be in English)

2nd PRESENTATION: Digital UNIX V4.0 main new features

- TruClusters & Memory Channel
- Integrated CDE
- Graphical System Management
- X/Open branding for UNIX 95
- Online documentation in HTML Format
- PC interoperability

(the above presentation will be in French)

Organiser : S. Cannon / CN / 5036

Thursday 6 June

SL SEMINAR

at 15.00 hrs* – SL Auditorium, Prévessin, bldg. 864

SL Contributions to EPAC 1996

SL participants at EPAC 1996

Oral presentations to be given at the European Particle Accelerator Conference 1996 in Barcelona are presented to the members of the SL division.

This includes contributed and invited presentations.

**Please note unusual time !*

Thursday 6 June

ISOLDE SEMINAR

at 16.00 hrs - TH Conference room, bldg 4

Two-proton ground-state emission: The search for a new radioactivity

By Bertram Blank/CENBG Bordeaux

The possible simultaneous emission of two protons from the ground state of a nucleus has been discussed for the first time by Goldanskii about 30 years ago. His theoretical predictions have triggered many experimental studies in the last decades, up to now without the discovery of this decay mode.

We have performed experiments at GANIL and at GSI to study the properties of nuclei in the vicinity of candidates for the 2p decay. The results of these experiments and their impact on the search of the 2p radioactivity will be discussed. In a recent experiment, we have searched for 2p candidates in the nickel region. The experiment led to the discovery of 3 proton-rich isotopes, which are predicted to be unbound with respect to a two-proton emission. Preliminary results of these studies will be discussed.

Friday 7 June

ECFA EUROPEAN COMMITTEE FOR FUTURE ACCELERATORS

at 10.00 hrs – Council Chamber

FIFTY-NINTH PLENARY ECFA MEETING

DRAFT AGENDA

1. Approval of the Draft Minutes of the Fifty-eighth Plenary ECFA Meeting
2. Adoption of the Draft Agenda
3. Chairman's Report
4. Status Report on LHC (C.H. Llewellyn Smith)
5. Status of Ongoing ECFA/DESY Workshop (L. Mandelli)
6. Status of HERA-B (A. Schwarz)
7. Status of Babar (R. Aleksan)
8. Any Other Business.

Friday 7 June

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room, bldg 4

Implications and R-symmetry realizations of supersymmetric neutrino masses (and other light particles)

by Nir POLONSKY / University of Munich

In supersymmetric models a tree-level neutrino mass could originate from the (weak-scale) superpotential. The determinants of the neutralino and of the neutralino-neutrino (the latter in the case of Higgs-lepton mixing) mass matrices are examined and conditions for light eigenstates are found. We briefly discuss the MSSM case of a light Higgsino and a light photino, and comment on perturbativity limits in the small $\tan \beta$ region. We proceed to discuss the case of Higgs-lepton mixing in the superpotential in greater detail. We propose and examine a realization of that idea, which arises naturally in the framework of a spontaneously-broken $U(1)$ R-symmetry. The solution to the neutrino mass problem could shed light in this framework on the possible resolution of the μ problem. Furthermore, the suppression of the neutrino mass in comparison to the weak scale arises dynamically and need not be encoded in the superpotential. The latter mechanism operates, for example, in universal models for the soft supersymmetry-breaking terms. Phenomenological and cosmological implications of the model are also discussed, some of which are shown to hold more generally.

Monday 10 June

UMTF TUTORIAL

at 14.00 hrs - CN Auditorium, bldg 31/3-005

Introduction to PERL

by Lionel Cons

Monday 10 June

PPE SEMINAR

at 16.30 hrs – Main Auditorium, bldg 500

Precise measurement of the B_d^0 meson lifetime and studies of the oscillations of the $B^0 - \bar{B}^0$ system in DELPHI

by Achille Stocchi/LAL - Orsay

The first part of this seminar is dedicated to a high statistics measurement of the B_d^0 meson lifetime, using about

4000 semileptonic decays of the type : $\bar{B}_d^0 \rightarrow D^{*+} l^- X_{\bar{l}}^-$. This result has a similar accuracy as the present world average and does not appear to be limited by systematic uncertainties.

In the second part of the seminar recent studies on the oscillations of the $B^0 - \bar{B}^0$ system are presented. In the B_d^0 sector several analyses have been performed and an accurate value is obtained on the mass difference between the physical B_d^0 states (Δm_d). Finally the present limit obtained on Δm_s will be shown.

Thursday 13 June

UMTF TUTORIAL

at 10.00 hrs - CN Auditorium, bldg 31/3-005

ADAM: how to organise your desktop

by M.Liebana

Thursday 13 June

CERN COLLOQUIUM

at 16.30 hrs - Auditorium*

High energy synchrotron radiation : A new probe in condensed matter research.

by Jochen Schneider / DESY, Hamburg, Germany

* Tea & coffee will be served at 16.00 hrs.

POUR INFORMATION / FOR INFORMATION

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PARTICLE PHYSICS DEPARTMENT

24, QUAI ERNEST-ANSERMET

1211 GENEVA 4

TEL. 022 702 6273

FAX 022 781 2192

Mercredi 5 juin

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

à 17.00 hrs – Auditoire Stuckelberg

L'expérience double bêta sur Xe(136) au Saint-Gothard

par Dr Alan Paic, Université de Neuchâtel

L'expérience du Gothard tourne à présent avec une version améliorée de la chambre à projection temporelle au xénon de 180 litres. Le système de lecture de charge a été reconçu pour améliorer davantage le bruit de fond radioactif. Le détecteur permet la reconnaissance de traces, ce qui augmente le rapport signal/bruit via la sélection de traces ou deux électrons émergent du même point, et le rejet d'événements dus à l'activité alpha, bêta, électrons Compton et rayons cosmiques. Nous totalisons 16000 heures de données dont 6000 heures avec un bruit de fond réduit d'un facteur 2. Plusieurs mesures de coïncidence de désintégrations bêta-alpha et alpha-alpha provenant de chaînes de radioactivité naturelle nous renseignent sur la radio-pureté du gaz. Nous présenterons la nouvelle limite de demi-vie pour le mode zéro neutrino de désintégration double-bêta, qui nous permet de dériver une limite supérieure sur la masse Majorana du neutrino. Nous donnerons aussi de nouvelles limites sur les modes majoron et deux neutrinos. Une comparaison avec d'autres expériences double-bêta sera également présentée.