

Monday 28 March

TECHNICAL PRESENTATION

at 14.00 hrs – DD Amphitheatre, bldg. 31, 3rd fl.

Research directions in high-end scientific computing

by Frederic N. RIS /
IBM Yorktown Heights, USA

Thanks to advances made in integrated circuit and design automation technologies in the 1970s, designers of future supercomputing systems have two very different approaches to consider. One is to find increasingly efficient uniprocessor machine organizations built from thousands of chips each containing a few dozen very-high-speed circuits. The other is to take hundreds of microprocessors each containing tens of thousands of circuits replicated at very low cost and find parallel processing structures applicable to some range of computational problems. The speaker will describe the work in IBM's Research Division which directly addresses future prospects for high-end, general-purpose engineering and scientific computation.

Monday 28 March

DD SEMINAR

at 16.00 hrs – DD Amphitheatre, bldg. 31, 3rd fl.

Communication Protocol Standardization and HMI Involvements

by R. POPESCU-ZELETIN / Hahn-Meitner-Institut, Berlin

Standardization of Communication Protocols is now progressing in various standardization bodies especially within ISO, in the framework of its 'Model for Open Systems Interconnection'. Some draft proposals are expected before the end of this year. HMI is a research centre particularly active in this field. Dr. Popescu-Zeletin will review the current status and future trends of Protocol Standardization. He will present the networking facilities developed at HMI and their particular contribution to File Transfer Protocols.

Wednesday 30 March

ISOLDE SEMINAR

at 10.30 hrs – Theory Conference Room

Contributions to the neutrino oscillation problem by electron spectroscopy

by K. SCHRECKENBACH / ILL, Grenoble

Cumulated beta-spectra of ^{235}U and ^{239}Pu fission products were measured at the beta-spectrometer BILL at the ILL reactor. The complementary electron antineutrino source spectra of nuclear reactors were deduced and compared with data from reactor electron antineutrino detectors in view of neutrino oscillations. In a second class of studies massive neutrino branches were searched in the beta-plus and beta-minus spectrum of ^{64}Cu .

Wednesday 30 March

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Diffraction scattering from ISR to SPS proton-antiproton

by G. MATTHIAE / UA4 experiment, CERN-EP

Recent results from the ISR and the SPS collider on total cross-section, elastic scattering and diffraction dissociation will be reviewed. Comparison with models and discussion of open questions will follow.

Wednesday 6 April

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Supersymmetric preon models

by J. WEYERS / Bruxelles

Tuesday 12 April

PROTON SYNCHROTRON AND SYNCHRO-CYCLOTRON COMMITTEE

OPEN SESSION

at 09.00 hrs – Council Room

CLOSED SESSION

at 14.30 hrs : 6th Conference Room

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

ACADEMIC TRAINING (1982-1983)

3rd Term

11, 12, 13, 14, and 15 April

at 11.00 hrs – Auditorium

GUTs and cosmology

by D. NANOPOULOS / CERN

16, 17, 18, 19, and 20 May

at 11.00 hrs – Auditorium

An elementary course on general relativity

by T. REGGE / University of Turin

25, 26, 27, 30, and 31 May

at 11.00 hrs – Auditorium

Spectroscopy of new particles with e^+e^- storage rings

by G.J. FELDMAN / SLAC

2 and 3 June

at 11.00 hrs – Auditorium

**Building theories from examples :
recent progress in computer induction**

by D. MICHIE / University of Edinburgh

6, 7, 8, 9, and 10 June

at 11.00 hrs – Auditorium

The grounds for belief in science

by J. ZIMAN / Imperial College, London

21, 22, 23, and 24 June

at 11.00 hrs – Auditorium

**The physics incorporated into computer
programs for accelerator design**

by E. KEIL / CERN

*The abstract of the lectures (together with any
change of dates, time or place) will be published in
the CERN Bulletin and on noticeboards about two
weeks before each series of lectures.*

Training and Education Service
Secretariat : Tel. 2844

THE INSTITUTION OF ELECTRICAL ENGINEERS

Vacation School on 'MICROWAVE SOLID STATE
COMPONENTS AND SUBSYSTEM DESIGN'
3-5 July 1983 at Bodington Hall, University of Leeds

The purpose of the School is to provide an up-to-date
account of advances in microwave devices and sub-
systems as well as providing the necessary foundation
material for the conceptual understanding of basic sub-

INFORMATIONS

GENERALES

GENERAL INFORMATION

PUBLICATION DU BULLETIN HEBDO- MADAIRE PENDANT LA PÉRIODE DE PÂQUES

Cette édition du Bulletin hebdomadaire couvre la
période de Pâques allant du lundi 28 mars au vendredi 8
avril.

Il n'y aura pas de Bulletin distribué la semaine du
Vendredi Saint.

La prochaine édition (n° 15/83) paraîtra le vendredi
8 avril. Il est souhaitable que les annonces de ce prochain
Bulletin nous parviennent dès que possible, et en tous
cas pas plus tard que les délais normaux (mardi midi, 5
avril).

Section des Publications
Tél. 3475/4106

system design and evaluation techniques. The 1983
School concentrates on design procedures and circuit
realisation techniques for microwave oscillators, ampli-
fiers, detectors and mixers based on two terminal and
three terminal devices.

Participation in the School

The School, which will consist of 45-minute lectures fol-
lowed by tutorial sessions is intended for post-graduate
engineers. Specialist lecturers have been invited from
Universities, Industry and Government research esta-
blishments in the United Kingdom.

Subsystem Evaluation Facility

Major companies from the USA & UK have agreed to
provide the School with extensive facilities for microwave
circuit and device characterisation. These are expected to
include automatic network analysis equipment and
microprocessor controlled spectrum analysis instru-
mentation. These facilities will be available to lecturers
for demonstration purposes and to school participants
for 'hands on' experience.

Fees

The fees for the School range from £ 257.75 to 386.47 ac-
cording to the arrangements finally chosen.

**Further information and the complete school
programme** can be obtained by sending the slip below to
M. Pincott, PE/ED.



I should like to receive full details about the School on
'Microwave solid state components and subsystem
design'.

Name : _____

First name : _____

Division : _____

Tel. : _____

RÉINTÉGRATION – Sécurité sociale française

La prochaine permanence de la sécurité sociale
française aura lieu le

jeudi 7 avril 1983, de 09.30 h à 12.00 h

salle de conférence n° 2, bât. 5, 1^{er} étage, Département du
Personnel.

Les personnes intéressées sont priées de prendre
rendez-vous en téléphonant au Secrétariat des Affaires
sociales, interne 4201.

Section des Affaires sociales
Département du Personnel
Tél. 4201