

## Wednesday 4 May

### PS SEMINAR

at 11.00 hrs – PS Auditorium (bldg 6, 2-024)

**New ideas and evolution of accelerator timings**

by G. BARIBAUD

*explications et les commentaires soient accessibles aux personnes n'ayant pas de formation scientifique.*

Entrée libre

(Please note that the lecture will be given in FRENCH)

Service des Relations Publiques  
Tél. 2722

## Wednesday 4 May

### LEP SEMINAR

at 14.30 hrs – LEP Auditorium

**The LEP-BI Equipement Database at CERN**

by X. ANDRIOPOULOS / CERN-LEP

## Wednesday 4 May

### LEAR DISCUSSION MEETING

at 14.30 hrs – PS Auditorium

bldg 6, 2-024

**Mesons and multi-quark spectroscopy**

by N. ISGUR / CERN-TH

## Wednesday 4 May

### PRESENTATION

at 15.00 hrs – DD Auditorium  
bldg 31, 3-005

**The S-1 Mini Supercomputer**

by R. HARVEY & M. FUNG / Supertek  
Computers, Inc, California, USA

## Thursday 5 May

### CERN COLLOQUIUM

at 16.30 hrs – Auditorium

**The cosmic background anisotropies**

by F. MELCHIORRI / Università di Roma

## TRAINING AND

## EDUCATION

## ENSEIGNEMENT

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## Mardi 3 mai

### LES SCIENCES AUJOURD'HUI

à 20.00 h précises – Amphithéâtre  
(jusqu'à environ 22.00 h)

par R. CARRERAS

*Rafel Carreras, responsable du programme d'Enseignement général au CERN, commentera et expliquera un choix d'articles parus récemment dans des revues scientifiques, et qui couvrent l'ensemble des sciences physiques et biologiques ainsi que certains aspects des relations science-société. Une attention particulière est portée au langage et aux notions utilisés afin que les*

## ENSEIGNEMENT GENERAL

**Tél. 2844 - 5811**

## Jeudi 28 avril

de 13.00 h à 13.30 h – Amphithéâtre

**Science pour tous**

par R. CARRERAS

## ACADEMIC TRAINING

**Tel. 2844 - 3364**

## 4, 5 & 6 May

11.00 h to 12.00 h – Auditorium

**Technical problems of new accelerators**

by K. JOHNSEN

*During the whole history of accelerators there has been a close relationship between technological development and the advancement of the art of particle acceleration. In most cases it has been the technology that has been leading and the accelerator builders who have made sophisticated use of this development. Recently it has become more common for the accelerator laboratories themselves to be the main force behind the necessary technical developments, such as superconducting magnets and cavities.*

*The lectures, although starting with a historical introduction, will mainly be devoted to the technical development of accelerators for the future, like very high energy hadron colliders and linear colliders for electrons. Some of the most exotic ideas will be mentioned at the end, but without details, as much research and development for those will still be needed before we start seeing the technical problems.*

## 4 & 6 May

14.30 h to 15.30 h – Auditorium

*Please note unusual time!*

**Experimental searches for dark matter**

by B. SADOULET / University of California,  
Berkeley

*One of the most natural explanations for the dark matter which constitutes at least 90% of the universe, is that it is made of exotic particles, not yet seen at accelerators. The present density of dark matter constrains this rather general hypothesis enough for meaningful tests. The concentration of dark matter particles in the halo of our galaxy leads to potentially observable fluxes of  $\bar{p}$ ,  $e^+$ ,  $\gamma$  rays and neutrinos. Elastic scattering rates of the order of a few events per kg and per day are also expected. These two lectures will describe the present searches for such dark matter particles and the developments which are being undertaken to improve these searches.*

SYMPOSIUM ON THE UNITY AND INTERNATIONALISM

OF THE SCIENCES AND THE HUMANITIES

CERN, Main Auditorium, 9th – 10th May, 1988

Sponsored by

CERN SCIENCE AND SOCIETY SEMINAR

and

ISTITUTO ITALIANO PER GLI STUDI FILOSOFICI

Les orateurs traiteront, du point de vue de leur discipline, le sujet central du Symposium, *l'unité profonde de la recherche de la connaissance* et ses conséquences: les dimensions internationales que cette unité confère à toute entreprise intellectuelle, et les relations de compréhension et de coopération à l'échelle mondiale qu'elle aide à créer.

Les discours seront traduits simultanément en français.

L'exposition '*Federico Cesi et la fondation de l'Académie des Lincei (en 1603)*', organisée par l'Accademia Nazionale dei Lincei et l'Istituto Italiano per gli Studi Filosofici, sera inaugurée à la fin du premier jour. L'exposition restera ouverte jusqu'au 22 mai 1988.

The speakers will address from the viewpoint of their discipline the central theme of the Symposium, the *basic unity of the quest for knowledge*, and its consequences: the international dimensions which it gives to all intellectual endeavour, the worldwide relationships of understanding and co-operation which it helps create.

The talks will be translated simultaneously into English.

The exhibition '*Federico Cesi and the Foundation of the Academy of the Lincei (in 1603)*', organized by the Accademia Nazionale dei Lincei and the Istituto Italiano per gli Studi Filosofici, will be inaugurated at the end of the first afternoon. The exhibition will remain open till 22 May 1988.

Monday, 9th, 14.15h

(Chairman: Edoardo Amaldi, Vice-President of the Accademia Nazionale dei Lincei)

- **Giovanni Pugliese Carratelli**, Director of the Istituto Italiano per gli Studi Filosofici, Naples  
*"Introduction"*
- **Robert R. Wilson**, Director Emeritus of FERMILAB, Chicago  
*"Humanness of Physics and Unity with the Humanities"*
- **Léon Van Hove**, Former Director-General of CERN  
*"From Cosmology to Particle Physics, or The Unity of Physical Laws from Largest to Smallest Scales"*
- **Giuseppe Montalenti**, Former President of the Accademia Nazionale dei Lincei  
*"Federico Cesi and the Academy of the Lincei"*

18.00h: Opening of the Exhibition, in Co-operation with the CERN Staff Association  
(1st Floor, Main Building, CERN)

Tuesday, 10th, 14.15h

- **Remo Bodci**, University of Pisa  
*"L'unité de la raison dans la multiplicité des cultures. Le débat philosophique contemporain"*
- **René Thom**, Fields Medal, Institut des Hautes Etudes Scientifiques, Bures-sur-Yvette  
*"Sciences Dures et Sciences Molles: la Place des Modèles"*
- **Girolamo Cotroneo**, University of Messina  
*"Philosophie et Sciences Humaines – Un rapport difficile"*
- **Manfred Eigen**, Nobel Laureate, Director at the Max Planck Institute for Biophysical Chemistry, Göttingen  
*"The Physical Basis of Biology"*
- **Ugo Amaldi**, CERN  
*"Concluding remarks"*

ENTREE LIBRE – FREE ENTRANCE

Organizing Committee: U. Amaldi, G. Marotta, S. Ricci, L. Van Hove