

# COMMUNICATIONS **OFFICIELLES**

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

# **OFFICIAL** NEWS

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

## SENIOR STAFF POSITIONS / PERSONNEL SUPERIEUR

*Senior staff positions as from 1 January 1982 :  
Nominations au 1er janvier 1982 :*

| Division | Division Leader<br>Chef de Division | Deputy<br>Adjoint |
|----------|-------------------------------------|-------------------|
| TH       | J. Prentki *)<br>M. Jacob **)       | J. Ellis *)       |
| EP       | A.M. Wetherell                      | P. Musset         |
| EF       | A. Minten                           | H. Wenninger      |
| DD       | P. Zanella                          | C. Verkerk        |
| PS       | R. Billinge                         | M. Georgijevic    |
| ISR      | F. Ferger                           | L. Resegotti      |
| SPS      | B. de Raad                          | C. Bovet          |
| SB       | H. Laporte                          | G. Drouet         |

\*) 1.1. – 30.6.1982

\*\*) 1.7.1982

Technical Director  
Directeur technique  
G. Brianti

Deputy  
Adjoint  
G.L. Munday

## **SEMINARS** **SEMINAIRES**

**Lundi 18 janvier**

### PRESENTATION TECHNIQUE

à 10h00 - Salle 2-005, Bât.13

BATTELLE Genève propose une présentation de la *conception assistée par ordinateur* (CAO), son utilisation dans un environnement industriel. *Applications au CERN* : mechanical drawings, 3D modelling, geometric properties, layout drawings, schematics (electric, hydraulic, electronic), finite element modelling, generation of NC data for machine tools, pipe layout, civil engineering. Film de 35 minutes.

Langues : Anglais, français.

Renseignements : M. Diraison / FI / 4585.

### ISR SEMINAR

at 14.30 hrs - ISR Auditorium  
(Top floor of Building 30)

'La chambre à vide cryogénique des ISR  
(Coldbore) : Résultats obtenus sur la section  
d'essais'

by N. Hilleret / ISR

### EP SEMINAR

at 17.00 hrs - Auditorium

'Neutrino and Antineutrino Interactions in  
Hydrogen'

by J.P. Merlo / Saclay

*Measurements will be presented of neutrino-proton and antineutrino-proton cross-sections in the SPS WBB obtained by electronic techniques (WA1 experiment, CDHS-Collaboration). From these data x-distributions for up and down quarks are extracted.*

## Wednesday 20 January

### THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

'What do we learn from  $p\bar{p}$  diffractive scattering at the CERN colliders?'

by A. Martin / CERN

*The comparison between  $pp$  and  $p\bar{p}$  collisions at the same energy at the ISR allows not only to verify general theorems on the ratios of total cross-sections and slopes, but also to test experimentally some theoretical prejudices for the first time and to rule out unconventional suggestions like an odd Froissart or an odd Pomeron. The simultaneous measurement of the real parts of  $pp$  and  $p\bar{p}$  forward amplitudes consolidates the belief that total cross-sections rise up to much higher energies, awaiting for the experimental confirmation from the SPS collider. We shall also discuss the value of the  $p\bar{p}$  total cross-section and slope at the SPS collider and its usefulness in distinguishing between various theoretical models.*

### DD TECHNICAL PRESENTATION

at 15.00 hrs \* - DD Auditorium  
(Building 31, third floor)

'The TITN Distributed Performance Measurement Systems'

*TITN, the French Company specialized in engineering of data processing systems based on mini and microprocessors, will present its 'Distributed Performance Measurement Systems' (DPMS). This line of products is designed for computer performance evaluation problems (large main frames permanent survey, trouble shooting and trace analysis, etc.) as well as for data communication network monitoring (line activity and degradation, terminal response time).*

\* Please note special time : 15.00 hrs. The presentation will take about two hours.

## Thursday 21 January

### CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium \*

'Applications of Laser Spectroscopy to Nuclear and Particle Physics'

by V.S. Letokhov / USSR Academy of Sciences, Troitzk

*1. Methods of Laser Detection of Single Atoms (Fluorescent, Photoionization and Photodeflection); 2. How to achieve ultimate spectral resolution, sensitivity and selectivity; 3. Laser Photoionization Spectrometer for off and on-line Detection of Short-Lived Isotopes (at Gatchina Nuclear Accelerator); 4. Laser Spectroscopy Ways of Detecting Very Rare Isotopes for Solar Neutrino Detector, Radiodating, etc.*

\* Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be served.

## Friday 22 January

### ISOLDE SEMINAR

at 10.30 hrs - SC Conference Room  
(Building 26/1-025)

'Recent Chalk River Studies of Nuclear Beta Decay'

by J.C. Hardy / Chalk River

*Recent measurements at Chalk River have aimed at improving experimental tests of the CVC hypothesis. For superallowed  $0^+$  to  $0^+$  decays, relative  $Q$  values have been measured to an accuracy of 160 electron volts with a new electromagnetic technique. Very precise half-lives have been determined with the on-line isotope separator. Measurements so far confirm CVC to a part in one thousand. The vector coupling constant has also been determined for the first time in  $2^+$  to  $2^+$  decay, the positron-neutrino angular correlation was measured for the decay of separator-produced sodium-20.*

## Monday 25 January

### EP SEMINAR

at 17.00 hrs - Auditorium

'Recent Results from the North Area Electromagnetic Detector (CUSB) at CESR'

by T. Böhringer / CERN-EP

## Tuesday 26 January

### CERN COLLOQUIUM

at 16.30 hrs - Auditorium

'Supernovae : the shocking story of how neutron stars are made'

by Gordon Baym / Univ. of Illinois at Urbana-Champaign

## Thursday 28 January

### CERN ENERGY SEMINAR

at 16.30 hrs - Auditorium

'Environmental and public health effects of energy use. A quantitative comparison'

by R. Wilson / Harvard

## TRAINING AND EDUCATION ENSEIGNEMENT

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### ENSEIGNEMENT GENERAL (Tél.2844)

## Jeudi 14 janvier

13h00 - 13h30 - Amphithéâtre

'Science pour Tous'

par R. Carreras