

## EDUCATION SERVICES EDUCATIFS

### ACADEMIC TRAINING

Tel. 3127

#### LECTURE SERIES

30 June, 1 & 2 July

11.00 to 12.00 hrs – Auditorium

Reconversion of Nuclear Weapons

by S. Kapitza, Russian Academy of Science

The nuclear predicament or nuclear option – Synopsis of three lectures :

- 1) The physical basis of nuclear technology. Physics of fission. Chain reactions in reactors and weapons. Fission fragments. Separation of isotopes. Radiochemistry.
- 2) Nuclear reactors with slow and fast neutrons. Power, size, fuel and waste. Plutonium production. Dose rate, shielding and health hazard. The lessons of Chernobyl.
- 3) Nuclear weapons. Types, energy, blast and fallout. Fusion and hydrogen bombs. What to do with nuclear weapons when you cannot use them ? Testing. Nonmilitary use. Can we get rid of the nuclear weapons? Nuclear proliferation. Is there a nuclear future ?

## INFORMATIONS GENERALES GENERAL INFORMATION

### CHANGEMENT DE NUMÉROS DE TÉLÉPHONE

Veuillez noter le changement des numéros de téléphone suivants :

- Guy CIUTAD / MT-SM Tél. 8784
- Michel HOULMANN / MT-SM Tél. 8784

### Wednesday 30 June

#### THE SCIENCE AND SOCIETY JOURNAL CLUB

at 18.00 hrs – bldg 32/1-A24

World energy in the next century  
and the consequences

by Douglas R.O. MORRISON / CERN

Basic information presented in simple and graphical form, is presented about a coming World Energy crisis as consumption will probably increase by a factor of six over the next hundred years. The effect of population increase, rises in living standards to escape poverty and the Earth's limited reserves of fossil fuel, are discussed. The evidence for CO<sub>2</sub> and other greenhouse house gas effects, temperature and sea level rise, are presented. Other possible sources of energy (solar, hydroelectric, geothermal, fission, fusion, etc.) are evaluated. Possible solutions are discussed.

### CHANGEMENT DES CYLINDRES DES PORTES CHANGE OF LOCK BARRELS

Nous rappelons à tous les utilisateurs du CERN qu'il est formellement interdit de procéder au changement de cylindres posés sur les portes du Laboratoire. Lorsqu'un changement est nécessaire, faites une demande au "Correspondant Divisionnaire, plan de fermeture" de votre Division, lui seul étant habilité à prendre les mesures qui s'imposent.

Services AS/GL et ST/CE

We should like to remind all CERN users that it is forbidden to change the barrels of CERN door locks. If a change is necessary, apply to your Divisional Correspondent responsible for locks, who is the only person entitled to take the necessary steps.

AS/GL and ST/CE Services

| Division<br>Division | Correspondant Divisionnaire<br>Divisional Correspondent | Téléphone<br>Phone |
|----------------------|---------------------------------------------------------|--------------------|
| AG                   | H. Schmal                                               | 4203               |
| AS                   | G. Fournier                                             | 3623               |
| AT                   | R. Haas                                                 | 2970               |
| Bâtiment 29          | E. Sambardier                                           | 8167               |
| CN                   | V. Favrot                                               | 2393               |
| DG                   | M. Compain                                              | 4468               |
| ECP                  | B. Smaniotto                                            | 4865               |
| FI                   | R. Muzelier                                             | 2747               |
| MT                   | Ch. Muller                                              | 3959               |
| PE                   | E. Lapraz                                               | 4474               |
| PPE                  | M. Thomeczek                                            | 4070               |
| PS                   | P. Noverraz                                             | 2505               |
| SL                   | P. Chuteaux                                             | 5269               |
| ST                   | J. M. Dessi                                             | 3276               |
| TH                   | T. Faberge                                              | 2422               |
| TIS                  | J. Guex                                                 | 5097               |