

# INFORMATIONS GENERALES GENERAL INFORMATION

---

## DEMENAGEMENT DE L'ASSURANCE MALADIE AUSTRIA

Les bureaux d'AUSTRIA ASSURANCES se trouvent désormais dans le bâtiment principal, rez-de-chaussée, à côté des PTT, bât. 63/R-001. Le numéro de téléphone reste inchangé : 2730. Les heures d'ouverture des guichets sont du lundi au vendredi de 08.30 à 12.00 h et de 14.00 à 16.00 h.

## AUX UTILISATEURS DE L'ATELIER DE POINÇONNAGE -GRAVAGE

Veuillez prendre note qu'à partir du 5 octobre 1992, ce service sera transféré sur le site de Prévessin, au bâtiment 904.

Pour les utilisateurs qui voudraient éviter ce déplacement, une permanence sera maintenue au pavillon 6661 (derrière l'Atelier Principal – bât. 100), dans le service de sous-traitance.

Une procédure efficace pour le transfert des travaux demandés depuis le site de Meyrin à celui de Prévessin est à l'étude.

Division MT  
Groupe MF

## PS CONFERENCE ROOM KEYS

The people who have borrowed keys to the PS Conference Rooms are kindly requested to return them to the PS Secretariat.

Thank you!

## A VENDRE AUX DIVISIONS

|           |                  |          |
|-----------|------------------|----------|
| 7 miroirs | 1120 × 1000 × 35 | (100 kg) |
| 2 miroirs | 1440 × 1000 × 40 | (145 kg) |
| 1 miroir  | 1445 × 1000 × 35 | (126 kg) |
| 1 miroir  | 1146 × 1000 × 27 | ( 75 kg) |

Ces miroirs sont de haute qualité avec protection quartz.

Matériel visible au bât 133.

Division AS  
Groupe Logistique  
R. Gruaz / tél 5782 ou beep 6207

## TRANSFER OF 'AUSTRIA HEALTH INSURANCE' OFFICE

The office of the AUSTRIA HEALTH INSURANCE is now located in the Main Building on the ground floor, next to the Post Office, bldg 63/R-001. The telephone number remains 2730. The office is open for clients from 08.30 to 12.00 hrs and from 14.00 to 16.00 hrs Monday to Friday.

## TO USERS OF THE PUNCHING-ENGRAVING WORKSHOP

Please note that this service will be transferred to the Prévessin grounds, building 904, from 5 October 1992.

Users wishing to avoid the journey may apply to the Sub-contracting Service in hut 6661 (behind the Main Workshop, building 100).

A serviceable procedure for transferring work requests from the Meyrin to the Prévessin grounds is being drawn up.

MT Division  
MP Group

## CLES POUR LES SALLES DE CONFERENCE PS

Les personnes qui ont emprunté les clefs pour l'accès aux salles de conférence PS sont priées de les retourner au Secrétariat PS.

Merci!

## LA GRANDE -BRETAGNE AU CERN

### Du 6 au 9 octobre

Hall du Bâtiment de l'Administration  
Bât. 60 – 1<sup>er</sup> étage  
09h30 – 17h00 (vendredi 12h00)

Trente sociétés britanniques présenteront leurs techniques et leurs produits les plus récents dans le domaine de la mesure, de l'électronique, du vide, etc.

L'exposition est organisée par GAMBICA, Association britannique pour l'industrie de la mesure, de la commande et de l'automatisation dans le Royaume-Uni, en collaboration avec le Département de l'Industrie et du Commerce britannique et le Consulat général de Grande-Bretagne à Genève.

Des conférences seront données dans la Salle du Conseil, bât. 503, 1<sup>er</sup> étage.

Exposants : voir liste ci-dessous.

Vous pourrez obtenir, en temps utile, un programme détaillé :

- au secrétariat de votre division
- à l'exposition même.

### From 6 to 9 October

Administration Building  
Bldg 60 – 1<sup>st</sup> floor  
09.30 hrs – 17.00 hrs (Friday 12.00 hrs)

## BRITAIN AT CERN

Thirty British companies will be featuring their latest products and techniques in the field of instrumentation, electronics, vacuum, etc.

The exhibition is being organized by GAMBICA, the Association for the Instrumentation, Control and Automation Industry in the UK, in cooperation with the British Department of Trade & Industry and the British Consulate General, Geneva.

Lectures will be given in the Council Chamber, bldg 503, 1<sup>st</sup> floor.

For list of exhibitors, see below.

A detailed programme will be available in due course at :

- your Divisional Secretariat
- the exhibition.

## LISTE DES EXPOSANTS LIST OF EXHIBITORS

A.S. Scientific Products Ltd  
AEA Technology  
BICC Components Ltd  
Bird Precision Bellows Ltd  
British Steel Engineering  
Chell Instruments Ltd  
Cranfield Precision Engineering Ltd (lecture only)  
Data Beta Ltd (+ lecture)  
EEV Ltd  
ERA Technology Ltd (+ 2 lectures)  
Fisons Instruments Europe  
GEC Plessey Semiconductors Ltd  
Goodfellow Metals Ltd  
Gould Electronics Ltd  
Hadland Photonics Ltd  
Harwell Instruments  
Heat Trace Ltd

Hytec Electronics Ltd (+ lecture)  
Kenmont HSM Ltd  
Micron Semiconductor Ltd (+ lecture)  
Morgan Matroc Ltd  
Oxford Instruments Ltd (+ lecture)  
Pentland Systems Ltd  
Radstone Technology plc  
Radway Engineering Ltd  
Rolls Royce Nuclear Engineering Services  
Servomex (UK) Ltd  
Sira Ltd (+ lecture)  
Wavetek Ltd (Datron Division)  
Westcode Semiconductors Ltd  
Department of Trade and Industry

Information : M. Diraison / FI –A / 4585

## Programme des conférences

### Lectures programme

#### Wednesday 7 October

at 09.00 hrs (45 minutes) – Council Chamber

##### **High-performance DSP for the VME bus**

by K. PARSON / Sales and Marketing Manager,  
Data Beta Ltd

*The lecture discusses the latest developments in high-performance digital signal processing (DSP) for the VME bus. This will cover new processors, board architectures, analogue I/O and potential applications in instrumentation, control data acquisition and analysis.*

#### Wednesday 7 October

at 10.00 hrs (45 minutes) – Council Chamber

##### **High-performance RF components for scientific applications**

by N. WILLIAMS / Manager RF Technology  
Division, ERA Technology Ltd

*The lecture will describe the design, manufacture and evaluation of state-of-the-art waveguide components which have been supplied for use in, for example, radio astronomy and high power microwave heating systems and wideband millimetre wave plasma diagnostic equipment required in nuclear fusion experiments. Accurate mode matching software has been developed to model the electromagnetic fields within the waveguide structures and optimise the performance prior to manufacture. To achieve the requisite high tolerances, a variety of CNC machining and fabrication techniques are employed and examples will be given of the components and sub-systems which have been produced.*

#### Wednesday 7 October

at 11.00 hrs (1 hour) – Council Chamber

##### **Real-Time Signal and Image Processing for Scientific Applications**

by A.G. CARR / Manager, Electronic Systems  
Division, ERA Technology Ltd

*The lecture will analyse the potential for modern real-time signal and image processing for scientific instrumentation systems. This technology has been developed principally for aerospace applications and could be used in areas such as trigger generation, real-time displays, interlock generation and particle analysis. Technologies of particular importance include parallel processing, programmable digital signal processors, dedicated algorithm devices, transputers and application specific ICs (ASICs). The lecture will be illustrated by describing several major real-time diagnostic processing systems developed by ERA for the JET Undertaking.*

#### Wednesday 7 October

at 14.00 hrs (30 minutes) – Council Chamber

##### **The CCD : a detector across the spectrum**

by Christian CASTELLI / SIRA Ltd

*Applications & Development of the CCD as a detector for radiation covering high energy X-Rays (100k eV) & into the EUV, UV & Optical bands.*

#### Wednesday 7 October

at 15.00 hrs (1 hour) – Council Chamber

##### **High Precision Machining Technologies for the 21st Century**

by P.A. McKEOWN / OBE, Chairman, Cranfield  
Precision Engineering Ltd

*High precision engineering, including micro-engineering and nanotechnology can be aptly described as 'Engineering at the limits'. It is a grouping of key technologies on which many advanced products depend today. It can be confidently predicted that whole new industries will grow from micro-mechanics, micro-electronics, micro-biology and nanotechnology in the next few decades. The lecture outlines the principles of design and recently developed techniques for achieving high accuracy, high speed performance in machine tools and associated metrology systems. The state-of-the-art in ultra-precision single point diamond machining and ductile mode grinding of brittle materials such as advanced engineering ceramics and glasses, is described, setting out the machine tool and process parameters for technical and economic success. Examples are given of the design and build of ultra precision CNC machines for the manufacture and measurement of high performance optical, opto-electronic and electronic components such as large telescope mirrors. Quasi-static and dynamic error compensation techniques are described, many of which will be progressively applied to 'standard' machine tools and processing equipment to satisfy the ever-increasing demand for higher precision at higher speeds. New ultra precision machine products of Cranfield Precision Engineering Ltd will be briefly described including the Nanocentre Ultra Precision CNC Aspheric Generator.*

#### Thursday 8 October

at 09.00 hrs (30 minutes) – Council Chamber

##### **The Hytec 4-Channel VME Stepper Motor Controller, VSMC2256**

by Peter MARSHALL / Technical Manager,  
Hytec Electronics Ltd

*The unit is briefly described. It has 4 independent channels, with 24 bit + direction stepsize, programmable speed / ramp rate (up to 500k S/sec) with shaft encoder feedback, followed by its software and ending with some points on design difficulties met and overcome during development.*

**Thursday 8 October**

at 10.00 hrs (30 minutes) – Council Chamber

**Single and Double Sided Silicon Microstrip AC Coupled Detectors Designs** have been constructed for LEP, SSC, and LHC with emphasis on radiation hardness and long term reliability

by Colin D. WILBURN / Managing Director,  
Micron Semiconductor Ltd

*Designs will be presented for AC Coupled Detectors, for both Single Sided and Double Sided Structures including the presentation of preliminary results. Both active resistor biasing using FOXFET technology and fixed resistor using polysilicon will be discussed. Latest detector developments will also be reviewed.*

**Thursday 8 October**

at 11.00 hrs (45 minutes) – Council Chamber

**Development of the Superconducting Toroid for CEBAF**

by Alan J. STREET / General Manager, Special Projects Group, Oxford Instruments Ltd

*The initial design of the toroidal magnet was carried out at CEBAF and was reported at ASC in 1988. Subsequently in February 1991 a design and construct contract was awarded to Oxford Instruments who are now nearing completion of the detailed design phase. The magnet system comprises six flat "kidney" shaped coils arranged radially to produce a toroidal field with a peak value of 3.5T. Features of the design which will be presented and discussed include a modular coil design enabling single coil works testing, indirectly cooled/aluminium stabilised conductor, support of coils via in-plane warm tension links to each vacuum case, out-of-plane load sensing for alignment and fault sensing, passive internal quench protection and an integrated instrumentation and control system.*

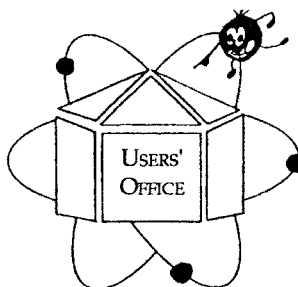
**A LA MEMOIRE DE JACK SHARP**

Cynthia Sharp, son épouse, ses enfant Gaynor et Evan, ainsi que leurs familles, vous invitent à vous joindre à eux à l'occasion d'un petit concert en souvenir de Jack, donné par 'La Lyre' de Saint-Genis-Pouilly

**dimanche 11 octobre à 11.00 heures**  
**Salle Jean-Monnet de Saint-Genis-Pouilly**

Si vous le souhaitez, vous pourrez faire un don sur place en faveur de l'Association de la Recherche pour le Cancer (ARC)

# USERS' OFFICE SURVEY



Bât. 61/R-020  
Tél. 767 67 67

# LE USERS' OFFICE MÈNE L'ENQUÊTE

How many people are unaware of the existence of the USERS' OFFICE? Without its help, many of you would undoubtedly still be wandering desperately around CERN's administrative labyrinth.

It is nevertheless not content to rest on its laurels. The USERS' OFFICE has decided to conduct an enquiry among all USERS. We should like to find out how you view our service and in particular obtain your advice, criticism and – why not? – compliments. Questionnaires are available at the entrance to the USERS' OFFICE (building 61, just opposite the cafeteria). Please don't hesitate – there are not many questions and the few minutes taken to answer them could perhaps save you many hours in the future.

So, pick up a questionnaire at the USERS' OFFICE as soon as possible.

Qui ne connaît pas le USERS' OFFICE? Sans son aide, beaucoup d'entre vous continueraient sans doute aujourd'hui à errer désespérément dans les dédales administratifs du CERN.

Pourtant, loin de se reposer sur ses lauriers, le USERS' OFFICE a décidé de mener une enquête auprès de tous les USERS. Notre objectif est de connaître votre perception du service et surtout de recueillir vos conseils, vos critiques... ou vos compliments! Pour cela, un questionnaire est à votre disposition à l'entrée du USERS' OFFICE. Rassurez-vous, il ne comporte que peu de questions et les misérables minutes passées à le remplir vous permettront peut-être de gagner à l'avenir des heures précieuses.

Alors, rendez-vous au USERS' OFFICE dès que possible!

*THANK YOU FOR YOUR TROUBLE!*

*MERCI D'AVANCE!*

