

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

INFORMATICS TUTORIAL 1983-2

Lecturer

Anne-Lene GROLL / Institut für Informatik,
ETH Zurich

Subject

PROGRAMMING IN MODULA-2

Time

18 to 21 October 1983,
09.00 to 12.00 and 14.00 to 17.00 hrs

Goal

MODULA-2 is a programming language designed by N. Wirth at ETHZ. The language combines a PASCAL-like syntax with separate compilation, support of real-time features and the ability to program at the machine level. The tutorial is intended for people familiar with high-level language programming (e.g. FORTRAN or PASCAL) who wish to gain a working knowledge of structured programming in MODULA-2, in particular for real-time applications.

Topics

1. History and ideas behind MODULA-2
2. Language features
3. Program organization through the use of MODULES
4. Separate compilation
5. Coroutines, interrupts.

Course profile

Lectures will be given in the morning sessions, and the afternoons will be devoted to hands-on experience using MODULA personal workstations, kindly made available by DISER S.A.

Material

Participants will receive a copy of the book 'PROGRAMMING IN MODULA-2' by N. Wirth, a copy of the transparencies used for the lectures, and material for the exercises.

Registration

The attendance will be limited to 20. Priority will be given to applicants intending to use MODULA-2 for future projects. If necessary the course will be repeated. For more information and to register, contact Mrs Monique Antal, DD Division, phone 2396.

Anne-Lene GROLL is Research Assistant at the Institut für Informatik of the ETHZ. She graduated in Computer Science from the University of Bonn in 1981 and has been with ETHZ since January 1982, involved in a communication project. She has participated since summer 1983 in a MODULA compiler development. Her research interests include operating systems, programming languages and the theory of programming.

ENSEIGNEMENT GÉNÉRAL Tél. 2844

Jeudi 29 septembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous –

par R. CARRERAS

ACADEMIC TRAINING Tel. 2844

19, 20, 24, 25, 26 and 27 October

at 11.00 hrs – Auditorium

Gauge theories : basic concepts and
experimental consequences

by G. ALTARELLI / University of Rome and
CERN

3, 4, 10 and 11 November

at 11.00 hrs – Auditorium

High-energy physics after the discovery
of the W and Z particles

Where do we stand? Where do we go?

by L. VAN HOVE / CERN

7, 8 and 9 November

at 11.00 hrs – Auditorium

Monopoles

by P. MUSSET and D. NANOPOULOS /
CERN

15, 16, 17 and 18 November

at 11.00 hrs – Auditorium

Developments in cosmology
(pending confirmation)

by Ya.B. ZEL'DOVICH / USSR Academy of
Sciences, Moscow

29 and 30 November 1 and 2 December

at 11.00 hrs – Auditorium

Introduction to transfer lines and
circular machines

by Ph. BRYANT / CERN

7, 8 and 9 December

at 11.00 hrs – Auditorium

The experimental approach to W and Z physics

by P. DARRIULAT / CERN

12, 13, 14 and 15 December

at 11.00 hrs – Auditorium

**Programming for the Motorola 68000
microprocessor**

by H. VON EICKEN / 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.

INFORMATIONS

GENERALES

GENERAL INFORMATION

Du 11 au 14 octobre 1983
Hall du Bâtiment de l'Administration
(Bât. 60 - 1^{er} étage)
10h00 - 17h30 (Vendredi 12h00)

LA FRANCE AU CERN

Trente et une firmes et trois associations de vingt-sept soit au total cinquante-huit firmes françaises présenteront le dernier cri de leur technologie à l'exposition '**La France au CERN**'. Cette exposition est organisée à l'initiative de la Mission scientifique et technique du Ministère de l'Industrie et de la Recherche, par le Comité français des Manifestations économiques à l'étranger, avec le concours du Centre français du Commerce extérieur et celui du poste d'expansion économique auprès de l'Ambassade de France à Berne.

Exposants : voir liste ci-après.

Le programme détaillé sera disponible :

- au secrétariat de votre division
- à l'exposition même
- au service de Documentation, bât. 64, R-002.

11 - 14 October 1983
Administration Building
(Bldg. 60 - 1st floor)
10.00 hrs - 17.30 hrs (Friday 12.00 hrs)

FRANCE AT CERN

Thirty-one firms and three associations of twenty-seven totalling fifty-eight French firms will be presenting their latest technology at the '**France at CERN**' exhibition. This exhibition is being organized on the initiative of the Scientific and Technical Mission of Ministry for Industry and Research, by the French Committee for Trade Exhibitions Abroad with the assistance of the French Foreign Trade Centre and of the French Trade Commission – French Embassy in Bern.

For list of exhibitors, see below

A detailed programme will be available :

- at your Division's Secretariat
- at the Exhibition
- or at the Documentation Office, bldg. 64, R-002.