

# CAD

## INSTRUCTION AND APPRECIATION COURSE IN COMPUTER-AIDED DESIGN & ON-LINE COMPUTING

AT  
ST. ENOCH HOTEL, GLASGOW  
29 MARCH - 2 APRIL 1971

The Ministry of Technology sponsored a Regional Experiment in Computer-Aided Design to assist in the promotion of multi-access on-line computers in engineering, and four Scottish universities combined to provide courses in computational techniques. The Regional Experiment has now been discontinued but the success of these courses has led to a demand for the continuation of this activity. The universities have therefore decided to continue running these courses and this, the sixth course, will give practising engineers, who are faced with the need to use computers in their work, a chance to acquire some knowledge of this rapidly developing field.

The fee for the course is £57, exclusive of accommodation.

**SPONSORS:** University of Edinburgh  
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The participants will be offered a choice of subjects from the following:—

COMPUTER APPRECIATION  
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or MATRIX ANALYSIS OF STRUCTURES  
or VIBRATION IN ROTATING MACHINERY  
or OPTIMISATION  
or INTRODUCTION TO COMPUTER  
GRAPHICS

Alternatively: Design problems (preferably supplied by the participants) can be studied in detail.

Evening Seminars in Computer Graphics, Analogue Computation, Numerical Control of Machines and the Design Process.

To: Dr. R. F. McLean (041-552 4400 Ext 2328),  
Dynamics and Control Department,  
Mechanical Engineering Group,  
University of Strathclyde,  
Montrose Street,  
GLASGOW C1.

Please send me details of the above course.

NAME .....

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The course will be given by members of staff of the Cranfield Institute of Technology and also by experts in specialised fields from universities, government department and industry.

**Residential fee: £35**

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The Aeronautical Journal RAeS February 1971

PRINGLE, AIR VICE-MARSHAL C. N. S.

**Engineering in the Royal Air Force**

*This paper gives a broad outline of the management of aircraft engineering in the RAF. The total engineering task is defined as are the functions and responsibilities of the Engineer Branch, not only in a technical context, but also in meeting the wider responsibilities of RAF Officers. The engineering organisation from Ministry of Defence to Stations and Squadron level is outlined and a need for constant and close integration of the engineering functions with the Air Staff requirement is emphasised. The place of support organisations, such as Maintenance Command, is also described.*

The Aeronautical Journal RAeS February 1971

**Compensation for Death and Injury in International Air Transport**

*An Air Law Group half-day Symposium with Mr. Justice Roskill in the Chair. Mr. A. W. G. Kean outlined the background to current proposals for revision to the Warsaw Convention, and papers were presented by Mr. F. E. Mostyn and Mr. Peter Martin on the European View, followed by a discussion. Mr. J. Kennelly and Mr. G. Lapham then put the American View.*

*The second part of this Symposium, consisting of the Discussion following the American papers and written contributions, will be published in the March issue of the Aeronautical Journal.*

The Aeronautical Journal RAeS February 1971

**Discussion on the Elstub Report on Productivity of the National Aircraft Effort**

*A discussion meeting on the Elstub Report was held at the Society on 13th May 1970. The meeting was opened by Mr. L. R. Beesly, Director-General of Aircraft Production and Head of Engineering Staff, Ministry of Aviation Supply, who was a member of the Committee. Mr. David Farrar, Director (Project Administration), BAC Ltd, Filton Division, a member of the Society's Management Studies Group Committee, has summarised the discussion that followed Mr. Beesly's opening remarks.*

The Aeronautical Journal RAeS February 1971

LIGHTBODY, A.

**Operational Assessment of Air and Sea Launched Guided Weapons**

*The paper is concerned with operational assessment on air-to-air, air-to-ground and naval surface-to-air guided weapons. It starts by describing the strategy and tactics for the use of these weapons to provide the military environment against which operational assessment is carried out. Methods of measuring the effectiveness of weapon systems is covered by taking a number of examples and illustrating some of the different approaches used in the past.*

The Aeronautical Journal RAeS February 1971

DUNN, S. C.

**Ground-to-Air Launch Weapons**

*An account is given of what appears to be evidence of the application of the principles of OR during the phases subsequent to the feasibility study of ground-to-air launch weapons.*

The Aeronautical Journal RAeS February 1971

IMRIE, W. M.

**Ultra High Tensile Steel Landing Gear Components  
—Material Selection and Manufacture**

*The paper begins by defining ultra high tensile steels and describing their additional processing cost in relation to the weight-saving advantages. A general description of some of the available steels is given together with more specific data on the 300M alloy. The method of manufacture of this alloy and subsequent forging, heat treatment, machining, shot peening, plating, etc., of uhts components used in the manufacture of the McDonnell Douglas DC-10 Nose Landing Gear are described in some detail. The necessary safeguards on quality are emphasised and the rigid controls required to ensure consistent and reliable products are described.*

The Aeronautical Journal RAeS January 1971

**This Agricultural Aviation Business**

*An all-day symposium held at the Society on 4th February 1970. The following papers are published in this issue:—World Developments and Activities in Agricultural Aviation by Dr. W. J. Maan; Flammability of Petroleum Liquids on Agricultural Aviation by W. D. Rees; Static Discharge by B. L. Perry; De-Icing of Runways from the Air by Sir John Briscoe and Navigational Systems for Agricultural Flying by J. M. Thomson.*

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