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*Further details are available from:
The Membership Department.
The Royal Aeronautical Society
4 Hamilton Place, London W1V 0BQ*



The Royal Aeronautical Society

Training by Satellites — Opportunities and Achievements

One Day Conference, Wednesday 3 July 1991

Sponsored by the British National Space Centre

Considerable expertise in the use of flexible training and distance learning has been gained by a number of organisations over the last decade. The advent of satellite technology has presented new challenges and opportunities. Reception equipment can cost less than £400, fully installed, and materials can now be broadcast, or narrow-cast, simultaneously to sites throughout Europe with ease and reliability. A number of initiatives, such as EuroPACE,

EUROSTEP and other projects on Olympus have made considerable impact in specialist areas over the last 2 years. The time is ripe to expand these services by sharing knowledge of the successes and achievements to date. Typical benefits being identified are: savings in travel, enhancement of immediacy, reduction in distribution costs and an increasing availability of interactivity. The conference is aimed at those who need to know of the advantages now offered by

business television services such as corporate video, distribution of data, or company training — whether distributed to the workplace, the home, or community centres. Delegates will be told who is currently providing these services, what the costs and savings are, and of ways to move ahead. The conference has been organised by the Society's Space Group and will be held at the Royal Aeronautical Society, 4 Hamilton Place, London, W11.

Programme

08.45	<i>Registration and Coffee</i>	12.15	7. Tricks of the trade — running a commercial satellite training channel
09.25	Chairman's opening remarks B Champness, Managing Director, CS&P Ltd		J Costley
09.30	1. Keynote address C Irwin, BBC World Service Television	12.30	8. Data broadcasting for trainers on Olympus N Johnson, Satellite Media Services
09.45	2. Overview, history, developments and prospects B Champness, CS&P Ltd	12.45	Case study panel discussion
10.15	3. Satellite education and training and the New Europe Professor B Groombridge, University of London	13.15	<i>Lunch</i>
11.00	<i>Coffee</i>	14.45	9. LIVE-NET: Live interactive programming on Olympus DBS R Beckwith, University of London
11.30	4. STARNET — Interactive UK training by satellite G Cheetham, Training Education and Enterprise Directorate	15.15	10. Olympus hardware A W Bannister, British Aerospace Space Systems
11.45	5. STEPUP — Business and commercial training on Olympus R Winders, Polytechnic South West, Plymouth	15.30	<i>Tea</i>
12.00	6. EuroPACE — European programme of advanced continuing education M McNally, EuroPACE Centre, Manchester Polytechnic	16.00	11. SSSOs B Stapley, Satellite Information Services
		16.30	12. Commercial opportunities in educational television
		17.00	Discussion
		17.15	Chairman's closing remarks
			Close of conference

(This programme may be subject to alteration)

Training by Satellites — Opportunities and Achievements, Wednesday 3 July 1991, Registration Form

Please complete this form, using one form per delegate (photocopies may be used) and return it, with the remittance, to **Ref 132, Conference Office, Royal Aeronautical Society, 4 Hamilton Place, London, W11 0BQ.**

Payment should be made in Sterling (UKL) and a cheque made payable to the RAeS **must be enclosed** with the registration. If this will cause a delay, please contact the Conference Office. All fees are net i.e. exclusive of bank charges or currency exchange rates.

Name

Position

Company

Address

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Membership No. and grade

Registration Fees (includes attendance at the event, bound papers, coffees, lunch and tea).

Please tick as appropriate:

Non Member rate — £105.00 plus 17.5% VAT = £123.38

Member and Fellow rate (including Associates) —

£70.00 plus 17.5% VAT = £82.25

Graduate, Technician and Associate Member rate —

£35.00 plus 17.5% VAT = £41.13

Student and Retired Member rate —

£14.00 plus 17.5% VAT = £16.45

Extra copies of proceedings

Member rate — £30.00 (no VAT) plus p&p

Non Member rate — £40.00 (no VAT) plus p&p

In a limited number of cases group discounts will be considered and registration fees may be waived for those members who would otherwise be unable to attend. Substitutions may be made up to the day of the conference — please notify the Conference Office of name changes as soon as possible. If no substitute can be found for the delegate unable to attend, cancellation must be notified to the Conference Office and confirmed in writing. The following cancellation fees will then apply and the date of notice refers to the date that the notice of cancellation is received by the Conference Office.

More than seven days' notice

25% of registration fee (i.e. 75% refund)

Seven days' or less notice

50% of registration fee (i.e. 50% refund)

Non arrival without notice

100% of registration fee (i.e. no refund)

Please contact the Conference Office for further details on 071-499 3515; Fax 071-499 6230; Telex 262826 RAESOC G

VAT Number 238 5678 23

For Office Use Only Ref 132 E



European Forum on Wind Tunnels and Wind Tunnel Test Techniques

Southampton University, UK

Monday 14-Thursday 17 September 1992

Call for Papers and Advanced Notice

The Royal Aeronautical Society (RAeS), the Association Aeronautique et Astronautique de France (AAAF) and the Deutsche Gesellschaft für Luft- und Raumfahrt (DGLR) are organising a four day European Forum to be held at Southampton University on 14-17 September 1992. Although described as a European Forum, participation and attendance at the meeting will be open to everyone; papers are being solicited and

invited on a worldwide basis. The Forum will include a half day visit to the 5 metre tunnel at RAE Farnborough. The aims of the meeting are to review recent developments in the design and operation of wind tunnels for all speed ranges from low speed to hypersonic and in new techniques, and then to provide an opportunity to discuss likely progress in the future.

Papers are required on the following topic areas:

- **Development and status of new facilities**
e.g. ETW, NTF, new hypersonic facilities, etc.
- **Performance enhancement of existing facilities**
Flow quality in the broadest sense
Productivity/Economics
- **Developments in flow visualisation and measurement techniques**
New data acquisition systems
Balance design and calibration
Experience with new pressure sensors and systems
Heat transfer and skin friction
Non-intrusive optical techniques including lasers and particle image processing
Image processing
Liquid crystals

- Influence of cryogenic operation
- **Developments in tunnel wall interference technology**
Application of correction methods based on wall pressures
Experience and adaptive walls
- **Development on model support arrangements**
- **Scale effect and simulation of full-scale viscous flows**
- **Developments in techniques for specific tests**
Ground proximity simulation
Store release
Propellers; Engine simulation
Intake dynamic measurements

Call for Papers

Abstracts of 500-1000 words, in English, typed double spaced on A4 paper should be submitted by **1 December 1991**. Successful authors will be notified by 7 February 1992. Manuscripts fully cleared for presentation at an open conference should be ready in camera-ready form by 1 August 1992. The aim will be to supply the delegates with all the papers in written form at or, if possible, ahead of the conference. Most papers will be allocated 30 minutes at the conference but authors will be asked to restrict their presentation to 20 minutes: the organisers of the forum are keen to encourage active discussion.

Please send all abstracts to: Ref 173, Conference Office, 4 Hamilton Place, London W1V 0BQ. Tel: 071-499 3515. Fax: 071-499 6230. Telex: 262826.

Key dates

Receipt of abstracts	1 December 1991
Notification to authors	7 February 1992
Programme/registration available	June 1992
Final papers to be submitted	1 August 1992
Conference	14-17 September 1992



DEPARTMENT OF TRANSPORT TECHNOLOGY

RESEARCH ASSISTANT – COMBUSTOR AERODYNAMICS

A Research Assistant to join a team researching in the field of gas-turbine combustor aerodynamics. The project involves the study of the fluid mechanics of flow in the supply annulus and entry ports of combustor systems. Laser-based measurements under isothermal conditions and associated 3D CFD predictions are planned. The work will be carried out in close collaboration with Rolls-Royce plc.

Applicants should have a first or upper second in Engineering, Mathematics or Physics. Funding is available for 3 years, subject to satisfactory progress, and the successful candidate will be expected to register for a PhD degree.

Starting salary is on the RA1B scale (currently £11,399-£13,495).

Send a CV and the names of 2 referees to:

**Professor J J McGuirk
Department of Transport Technology
University of Technology
Loughborough
Leics LE11 3TU**

