

The Aeronautical Journal RAeS March 1972

POULTON, DR. H. W.

The Common Market and Australia's external air transport

The object of the paper is to assess effects of British entry into the European Economic Community on long term Australian aviation policy, with particular emphasis on South East Asia and relations with Commonwealth countries.

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KELLEY, BARTRAM

Contributions of the Bell Helicopter Company to helicopter development

The first part of the paper presents a very brief history of the Bell Helicopter Company from 1941 to the present and a statement of policies concerning development of new ideas, also a list of research and development projects undertaken by Bell. The final part of the paper deals with the general subject of lifting rotor systems, and the present state of Bell's life-long battle against the "two-per-rev" vibration problem.

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TAVASSOLI, A. A.

Metallic materials for the space shuttle

Many current materials which have been widely and successfully used in space vehicles were developed for single short-time use requirement. The re-useable long life requirements of space shuttle necessitates further development as well as re-evaluation of the suitability of existing materials. Although the space shuttle configuration is not fully fixed as yet, a delta wing configuration with metallic thermal protection system appears to be one of the prime contenders. Leading metallic material candidates for space shuttle application with some of their properties are reported.

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SMITH, K. W.

All weather operations—present achievements and future prospects

The philosophies of approach to all weather operations initially differed considerably in the UK and USA. However, events have conspired to produce the present situation where we are achieving common objectives. The pilot's role is still vital and his adaptability contributes to the benefits which are about to be achieved as the result of many years technical and financial investment. The ultimate capability of present generation all weather systems will depend upon I.L.S., but we must prepare for a guidance aid to succeed it, the definition of which is a formidable task.

JENKINS, W. B. and WHITE, C. B.

Legal aspects of international co-operation on aircraft design and production

*Two papers given at an Air Law Group symposium. The first, by W. B. Jenkins (BAC) on **Legal aspects of co-operation on aircraft design and production as between the collaborating parties**, relates the legal framework within which an international co-operative project can be established, with matters arising from the relationship of parties to an international collaborative project which requires regulation, such as work sharing and adjustments thereto, management of the project, sharing of liabilities, proprietary rights and joint insurances. The second paper by C. B. White (HS Group) deals with **Aspects of international co-operation as between the parties to the project itself and third parties**, such as governments, airworthiness authorities, sub-contractors, financial institutions and commercial customers.*

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