ASTRONAUTICS AND GUIDED FLIGHT SECTION REPRINTS

The following is a list of the Section lectures which have been printed in the *Journal*. Most of them are available as reprints.

Author		Title			Publi	shed
Serby, J. E.	Gulded Weapons and Aircraft. Some	Difference in	Design and	Development	March	1958
Bedford, L. H.	Guidance and Control				May	1958
Boswell, R. W. M.	Guided Flight Trials	••• •••			June	1958
Clemow, J.	Problems in the Development of a Gui	ided Weapon			September	1958
Farrar, D. J.	The Bloodhound			••• •••	January	1959
Pateman, J. E.	Inertial Navigation			••• •••	February	1959
Conway, H. G.	Drone Aircraft	•••		••• •••	March	1959
Burt, E. G. C.	Theoretical Principles of Guided Missi	le Systems	••••		August	1959
Boardman, F. D.	Basic Principles of Radar with part Applications	ticular refere	ence to Airo	raft and Mis	sile October	1959
Nonweiler, T. R. F.	Problems of Interplanetary Navigation	and Atmosph	eric Re-Entry		March	1960
Best, D.	Some Problems of Polar Missile Contr	rol		•••	August	1960
Maxwell, W. R. and Young, G. H.	Solid Propellant Rocket Motors				April	1961
Symposium (summarised)	The Training of Guided Missiles Englr	neers	••• •••		July	1961
Smelt, R.	The Agena Satellite and Discoverer Pr	rogramme	••••		November	1962
Smith, K.	A Comparison of the Control Problems	of Missiles	and Manned	Aircraft	March	1962
Neat, W. N. and Page, K. G.	Packaged Liquid Rocket Motors				March	1962
Lane, R. J.	Recoverable Air-Breathing Boosters for	r Space Vehi	cles		June	1962
Symposium	The Economics of Astronautics	••• •••			June	1962
Biggs, A. G. and Cawthorne, A. R.	Bloodhound Missiles Evaluation	••• •••	••• •••		September	1962
Davies, H.	The Design and Development of the T	hiokol XLR 🤅	9 Rocket En	gine for the X	(-15 February	1063
Jefferson G B	The Development of Thunderbird	•••	•••	•••	i ebiuary	1963
Stauff F	Development of Guided Tactical Missil	 les in France	••• •••	•••• •••	Sunust	1963
Francis B H	The Development of Blue Steel		••• •••		August	1964
Williams W C	Technical History of the Mercury Pro	 aremme	Discussion	•••	Way December	1964
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lines A W	Design of Spacecraft for Experiments I	n the ESBO (Scientific Pro	aramme	November	1965
Shepherd, Capt. C. W. H. and Harrison, J. E. A.	The UK Polaris Project				September	1966
Dorling, E. B. and Hickman, P. L. V.	Symposium—Trials Data and their Hand	lling			November	1966
Symposium	Symposium on Management	••• •••	••• •••	••••	March	1967
Tokaty, G. A.	Aerospace Research and its Relation ments	to Universitie	es, Industry a	and the Establ	ish- October	1967
Pardoe, G. K. C.	Some Technical and Management Con	siderations in	European S	pace Program	mes December	1967
Hume, C. R. and Ducamus, P. M.	Symposium—A Progress Report of the	ESRO II Pr	ogramme		January	1968
Flemming, N. C.	Functional Requirements for Research,	/Work Subme	ersibles	••• •••	February	1968
Symposium	Simulation and Control of Guided We	apons	••• •••	••• •••	April	1968
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Cadoux, J. E.	The Air-to-Air Missile Matra 530				May	1969
Jacob, J. E. B.	Vigilant: A Portable Anti-Tank Weapor	n for Infantry	Use	••• •••	Мау	1969
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HOOKER, DR. S. G. 58th Wilbur & Orville Wright Memorial Lecture

The Engine Scene

Modern aero engines are now developing in two quite distinct directions. The first type is the high by-pass ratio, high compression ratio turbo fan, with its high thermal and propulsion efficiency, and low noise, which is being developed to cover almost the complete spectrum of aircraft size, from mini-jet executive aircraft, to the Jumbo-jets, and the large military transports. The second type is the moderate compression ratio straight turbojet engines for supersonic civil air transports.

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Air pollution by smoke, and the noise made by aircraft in the environment of an airport, is now receiving more and more attention, and a vast research effort is employed to study and reduce these nuisances.

The Aeronautical Journal RAeS January 1970

EDWARDS, J. L.

110.1017/S0001924000047102 Published online by Cambridge University Press

Engine Development in an Operators' Market

The modern aero engine is one of the most sophisticated machines currently produced by man. Its design, manufacture and repair necessitate the use of the latest knowledge and techniques, and development in one form or another continues throughout its service life. Much has been written about the initial development of engines up to type approval. This paper proposes to go beyond that and to describe some of the problems which arise during manufacture and operation and to highlight the need for repair techniques which are economical and simple.

The Aeronautical Journal RAeS January 1970

ARGYRIS, J. H.

The Impact of the Digital Computer on Engineering Sciences. Part 1

The Twelfth Lanchester Memorial Lecture given on 14th May 1969. Part II will be published in the February Aeronautical Journal.

The Aeronautical Journal RAeS January 1970

Astronautics and Guided Flight Section: Symposium on Management Techniques of G.W. Development

Four papers were given on the following subjects: "Sea Dart" by Captain G. W. Bridle; "The Mangement Organisation of the Martel Project" by P. R. Franks; "Project Management of Rapier" by G. E. King and "Polaris" by Rear-Admiral F. Dossor.

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