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## UNIV &amp; RESEARCH INSTITUTE CONTRACTS - MSFC

Jan. 21, 1964

<u>CONTRACT NO.</u>	<u>CONTRACTOR</u>	<u>SUBJECT</u>	<u>RNT CONTACT</u>
NAS8-1528	University of North Carolina Chapel Hill, North Carolina	Research to Develop Methods for Solving Problems Associated With Space Vehicles of High and Low Thrust	James W. Hanson (Makes Quarterly Progress Report)
NAS8-2474	Board of Trustees of the University of Alabama University, Alabama	Study of Anomalous Conductivity	None
NAS8-2484	Auburn Research Foundation, Inc. Auburn University Auburn, Alabama	Analytical Study of Dynamic Problems Pertaining to Thrust Vector Control on Large Space Vehicles	DALLAS W. Russell Technical Director Phone 887-6511
NAS8-2552	Oklahoma State University Stillwater, Oklahoma	Analyze, Study and Establish an Optimum Power Relay Design for Application in SATURN Launch Vehicle Systems	Dr. D. D. Lingelbach Phone FRontier 2-6211 Exts. 322, 326
NAS8-2558	University of Tennessee Knoxville, Tennessee	Research on Analytical Techniques For Solution of Non-Linear Differential Equations	Mr. E. A. Whitehurst
NAS8-2559	Vanderbilt University Nashville 5, Tennessee	Research on Numerical Integration of Second Order Differential Equations	Dr. E. Baylis Shanks
NAS8-2619	Vanderbilty University Nashville 5, Tennessee	Application of Calculus of Variation to Trajectory Analysis	Professor M. G. Boyce
M NAS8-2634	Regents of University of California Berkley 4, California	Study of Detonations of Mixtures of Gaseous Hydrogen and Oxygen	August G. Manza Tel. 5-6000, Ext. 3108
C NAS8-2642	Northeast Louisiana State College Monroe, Louisiana	Research in Developing Methods For Solving Problems Associated With Space Vehicles	None
P NAS8-2681	Armour Research Foundation of Illinois Institute of Technology Technology Center 10 West 35th Street Chicago 16, Illinois	Study, Research and Development of Analytical Methods and Fabrication of Test Equipment for Determination of Hydrocarbon Contamination	None

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<u>CONTRACT NO.</u>	<u>CONTRACTOR</u>	<u>SUBJECT</u>	<u>RNT CONTACT</u>
NAS8-5029	Board of Trustees of The University of Alabama University, Alabama	Studies of Optical Properties of Transistion Ions in Crystals (Modification No. 2)	Edward H. Carlson, MR
NAS8-5064	Georgia Tech Research Institute Georgia Institute of Technology Research Bldg., Atlanta 13, Ga.	Operations High Water Data Analysis	None
NAS8-5251	Armour Reserach Foundation of Illinois Institute of Technology 10 West 35th Street Chicago 16, Illinois	Develop Materials for Slip Ring Assemblies	J. L. Radnik, MR
NAS8-5253	The John Hopkins University 405 N. Caroline St. Baltimore 31, Maryland	The Investigation of the Behavior of Dielectric Materials at High Field Strengths in a Vacuum Environment	Louis J. Frisco, MPR
NAS8-5255	Board of Control of University of Florida Gainsville, Florida	Elastic Behavior of Sandwich Shells	Dr. William A. Nash
NAS8-5262	Board of Trustees of the University of Alabama University, Alabama	The Study to Establish a System of Propulsion Component Design Simplicity	S. K. Stimson, Project Director
NAS8-5269	Carnegie Institute of Technology Schenley Park Pittsburgh 13, Penn.	Research Study on Semiconductor Injection Lasers	Professor R.L. Longini Dept. of Electrical Engineering - Tel. 621-2600
NAS8-5292	Georgia Tech Research Institute Georgia Institute of Technology Research Bldg., Atlanta 13, Ga.	Determination of Electrical Conductivity of Mating Surface	W. E. Wolf Project Director
NAS8-5324	Board of Control University of Florida Gainesville, Florida	Exploratory Studies and Analysis of the Problem of Buckling of Cylindrical Shells With Inclined Stiffeners	Dr. William A. Nash Head Advanced Mechanics Research Section
NAS8-5341	Board of Trustees of The University of Alabama University, Alabama	The Study of High-Speed AD and DA Converters Using Redundancy Techniques	Dr. Harold Mott

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NAS8-5365	Georgia Tech Research Institute Georgia Institute of Technology Research Bldg., Atlanta 13, Ga.	Methods of Fitting Multivariant Functional Models in the Area of Large Computer Exploitation	R. A. Martin
NAS8-5379	Armour Research Foundation of Illinois Institute of Technology 10 West 35th St., Chicago 16, Ill.	Investigation of Environmental Effects on Coatings for Thermal Control of Large Space Vehicles	None
NAS8-5394	Mississippi State University State College, Mississippi	The Study of "Hermetic Seal" Evaluation	Dr. G. Robert Hoke
NAS8-5411	Board of Trustees of The University of Alabama P. O. Box 1937 University, Alabama	The Study of "Parameter Optimization" in Vehicle-Borne Tracking Systems	George W. Crocker
NAS8-5412	Board of Trustees of The University of Alabama P. O. Box 1937 University, Alabama	The Study of Multifrequency Breakdown Phenomena	George W. Croker
C NAS8-5414	University of Southern Miss. Southern Station Box 72 Hattiesburg, Mississippi	An Assessment of The Economic Impact of The Mississippi Test Facility on Southern Mississippi and Louisiana	Coldwell Daniel, III
P NAS8-11009	Oklahoma State University Office of Engineering Research Stillwater, Oklahoma	Study of Filtration Mechanics and Sampling Techniques	E. C. Fitch, Project Director X
NAS8-11010	Board of Trustees of The University of Alabama University, Alabama	A Study of Pressure Distribution Over Blunted Conical Configurations	Colgan H. Bryan, Project Director
C NAS8-11014	Armour Research Foundation of Illinois Institute of Technology 10 West 35th Street Chicago 16, Illinois	Feasibility Study of Techniques to Protect Mechanisms Operating in Space From Malfunction	Frank Iwatsuki, Manager

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NAS8-11015	Armour Research Foundation of Illinois Institute of Technology 10 West 35th Street Chicago 16, Illinois	Theoretical Analysis for Deriving Mathematical Mass-Spring Models of Various Partially Filled Propellan Tanks	C. A. Miller, Mgr. Structures Research
NAS8-11046	The University of Southern California Engineering Center University Park Los Angeles 7, California	Low Density Nozzle and Instrumentation Development	Norman Murray
NAS8-11054	The Regents of the University of Michigan Ann Arbor, Michigan	High Altitude Environmental Measurement Study	Joseph J. Keeley
P NAS8-11115	IIT Research Institute 10 West 35th Street Chicago 16, Illinois	Study for Improvement of Instrumenta- tion for Analysis of Particle Contamination in Liquid and Air Streams	None