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RESEARCH AS PART OF THE AIR FORCE IN AERO PROPULSION
TECHNOLOGY (AFRAPT) P. (U) PURDUE UNIV LAFAYETTE IND
THERMAL SCIENCES AND PROPULSION CEN. S FLEETER AUG 87

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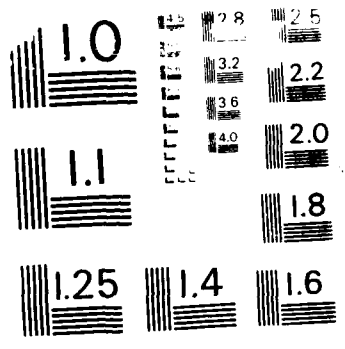
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Sanford Fleeter

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9 ABSTRACT (Continue on reverse if necessary and identify by block number)
Seven students participated in the Air Force Research in Aero Propulsion Technology (AFRAPT) program during the 1986-87 academic year. During this year: one new Ph.D. candidate successfully completed his qualifying exams and initiated his thesis research; one continuing M.S.M.E. candidate has nearly completed his experimental thesis research; five new M.S.M.E. candidates have completed most of their course work and have initiated their thesis research.

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(AFRAPT) PROGRAM

GRANT AFOSR - 86 - 0305

Sanford Fleeter

August 1987

Thermal Sciences and Propulsion Center
School of Mechanical Engineering
Purdue University
West Lafayette, Indiana 47907

Prepared For

Directorate of Aerospace Sciences
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The status of the seven students participating in the Air Force Research in Aero Propulsion Technology (AFRAPT) program during the 1986-87 academic year is shown below.

James Eley

Thesis Advisor: Professor Sanford Fleeter
Research Topic: Unsteady Flow Generated Structural Dynamic
Blade Response
Company Affiliation: Pratt & Whitney - South
Current Status: Mr. Eley has completed most of his M.S.M.E.
course work and has initiated his thesis research.

Gregory Hebert

Thesis Advisor: Professor William G. Tiederman
Research Topic: Turbine Vane Endwall-Corner Boundary Layer
Experiments
Company Affiliation: Allison Gas Turbines
Current Status: Mr. Hebert has completed approximately
50% of his M.S.M.E. course work and has
initiated his thesis research.

Gregory Henderson

Thesis Advisor: Professor Sanford Fleeter

Research Topic: Unsteady Aerodynamic Performance of Turbomachine Blade Rows

Company Affiliation: General Electric - Evendale

Current Status: Mr. Henderson has successfully passed all Ph.D qualifying exams, approximately 70% of his Ph.D. coursework, and has initiated his thesis research.

Douglas Morgan

Thesis Advisor: Professor John Sullivan

Research Topic: Combustor Swirling Flow and Cross Jet Interaction Experiments

Company Affiliation: General Electric - Evendale

Current Status: Mr. Morgan has completed his M.S.M.E. course work and has initiated his experimental thesis research program.

Joseph Neal

Thesis Advisor: Professor Sanford Fleeter
Research Topic: Three-Dimensional Aerodynamics of Axial Flow Turbomachines
Company Affiliation: General Electric - Lynn
Current Status: Mr. Neal has completed the experiments and data acquisition, with the data analysis currently in progress.

Jeffrey Whitlow

Thesis Advisor: Professor Arthur H. Lefebvre
Research Topic: Fuel Thermal Stability
Company Affiliation: Pratt & Whitney - South
Current Status: Mr. Whitlow has completed most of his M.S.M.E. course work and has initiated his thesis research.

James Wolff

Thesis Advisor: Professor Sanford Fleeter
Research Topic: Unsteady Viscous Flow Prediction
Company Affiliation: Garrett Turbine Engine Company
Current Status: Mr. Wolff has completed his M.S.M.E. course work and has initiated his thesis research.

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