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Preliminary Inventory

| <b><u>Box #</u></b> | <b><u>Item Author,<br/>Title, Publisher</u></b> | <b><u>Description</u></b> | <b><u>Dates</u></b> | <b><u>Corporate<br/>Author</u></b> | <b><u>Personal<br/>Author</u></b> | <b><u>Notes</u></b> |
|---------------------|---|---------------------------|---------------------|------------------------------------|-----------------------------------|---------------------|
|                     | Project SQUID                                   |                           |                     |                                    |                                   |                     |
|                     | Proposals 1967-1968                             |                           |                     |                                    |                                   |                     |
| 1                   | Vol. 1  | Proposals                 | 1967-1968           |                                    |                                   |                     |
|                     | Project SQUID                                   |                           |                     |                                    |                                   |                     |
|                     | Proposals 1967-1968                             |                           |                     |                                    |                                   |                     |
| 1                   | Vol. 2  | Proposals                 | 1967-1968           |                                    |                                   |                     |
|                     | Project SQUID -                                 |                           |                     |                                    |                                   |                     |
|                     | Renewal Proposals                               |                           |                     |                                    |                                   |                     |
| 1                   | 1968-1969                                       | Proposals                 | 1968-1969           |                                    |                                   |                     |
|                     | Project SQUID - New                             |                           |                     |                                    |                                   |                     |
| 1                   | Proposals 1968-1969                             | Proposals                 | 1968-1969           |                                    |                                   |                     |
|                     | Project SQUID - New                             |                           |                     |                                    |                                   |                     |
| 1                   | Proposals 1969-1970                             | Proposals                 | 1969-1970           |                                    |                                   |                     |
|                     | Diffuser Design                                 |                           |                     |                                    |                                   |                     |
| 1                   | (SQUID)   | Proposals                 | 1969-1971           |                                    |                                   |                     |
|                     | Project SQUID -                                 |                           |                     |                                    |                                   |                     |
|                     | Renewal Proposals                               |                           |                     |                                    |                                   |                     |
| 1                   | 1969-1970                                       | Proposals                 | 1969-1970           |                                    |                                   |                     |
|                     | Project SQUID - New                             |                           |                     |                                    |                                   |                     |
|                     | Proposals 1970-1971                             |                           |                     |                                    |                                   |                     |
| 1                   | (1)   | Proposals                 | 1970-1971           |                                    |                                   |                     |
|                     | Project SQUID - New                             |                           |                     |                                    |                                   |                     |
|                     | Proposals 1970-1971                             |                           |                     |                                    |                                   |                     |
| 1                   | (2)   | Proposals                 | 1970-1971           |                                    |                                   |                     |
|                     | Project SQUID - New                             |                           |                     |                                    |                                   |                     |
|                     | Proposals 1970-1971                             |                           |                     |                                    |                                   |                     |
| 2                   | (3)   | Proposals                 | 1970-1971           |                                    |                                   |                     |
|                     | Project SQUID - New                             |                           |                     |                                    |                                   |                     |
|                     | Proposals 1970-1971                             |                           |                     |                                    |                                   |                     |
| 2                   | (3)   | Proposals                 | 1970-1971           |                                    |                                   |                     |
|                     | Fluid Dynamic                                   |                           |                     |                                    |                                   |                     |
| 2                   | Processes (SQUID)                               | Proposals                 | 1971-1972           |                                    |                                   |                     |
|                     | Experimental                                    |                           |                     |                                    |                                   |                     |
|                     | Boundary Layer                                  |                           |                     |                                    |                                   |                     |
| 2                   | (SQUID)   | Proposals                 | 1970-1971           |                                    |                                   |                     |
|                     | Inviscid Flow Field                             |                           |                     |                                    |                                   |                     |
| 2                   | Calc (SQUID)                                    | Proposals                 | 1970-1973           |                                    |                                   |                     |
|                     | Shock-wave Boundary                             |                           |                     |                                    |                                   |                     |
|                     | Layer Interaction                               |                           |                     |                                    |                                   |                     |
| 2                   | (SQUID)   | Proposals                 | 1970-1971           |                                    |                                   |                     |

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|---|---|-----------|-----------|
| 2 | Boundary-Layer<br>Transpiration (SQUID)               | Proposals | 1970-1972 |
| 2 | Nozzle Design<br>(SQUID)                              | Proposals | 1970-1971 |
| 2 | Analytical Boundary<br>Layer (SQUID)                  | Proposals | 1970-1973 |
| 2 | Project SQUID - Late<br>Proposals                     | Proposals | 1970-1971 |
| 2 | Project SQUID -<br>Renewal Proposals                  | Proposals | 1970-1971 |
| 3 | Project SQUID -<br>Renewal Proposals                  | Proposals | 1970-1971 |
| 3 | Project SQUID -<br>Renewal Proposals                  | Proposals | 1970-1971 |
| 3 | Project SQUID - New<br>Proposals 1971-1972            | Proposals | 1971-1972 |
| 3 | Project SQUID -<br>Renewal Proposals<br>1970-1971 (1) | Proposals | 1970-1971 |
| 3 | Project SQUID -<br>Renewal Proposals (2)              | Proposals | 1971-1972 |
| 3 | Project SQUID -<br>Renewal Proposals (3)              | Proposals | 1971-1972 |
| 3 | Project SQUID - Late<br>Proposals                     | Proposals | 1971-1972 |
| 3 | Project SQUID - Late<br>Proposals                     | Proposals | 1971-1972 |
| 3 | Turbomachinery and<br>Measurements<br>(SQUID)         | Proposals | 1971-1972 |
| 3 | Combustion<br>Processes (SQUID)                       | Proposals | 1971-1973 |
| 4 | Combustion<br>Processes (4) (SQUID)                   | Proposals | 1971-1973 |
| 4 | Turbomachinery and<br>Measurements (2)<br>(SQUID)     | Proposals | 1971-1972 |
| 4 | Fluid Mechanics Jet<br>Engine (3) (SQUID)             | Proposals | 1971-1972 |
| 4 | Instrumentation<br>Techniques (4)<br>(SQUID)          | Proposals | 1971-1972 |
| 4 | SQUID Proposals<br>1972-1973 Fluid<br>Mechanics       | Proposals | 1972-1973 |
| 4 | SQUID Proposals<br>1972-1973 Reactive<br>Flows        | Proposals | 1972-1973 |

|   |   |           |           |                   |
|---|---|-----------|-----------|-------------------|
| 4 | SQUID Proposals<br>1972-1973 Particulate<br>Combustion                              | Proposals | 1972-1973 |                   |
| 4 | SQUID Proposals<br>1972-1973 Physical<br>Chemistry and<br>Measurement<br>Techniques | Proposals | 1972-1973 |                   |
| 4 | SQUID Proposals<br>1973-1974<br>Combustion and<br>Measurements                      | Proposals | 1973-1974 |                   |
| 4 | SQUID Proposals<br>1973-1974<br>Turbulence and<br>Transport<br>Phenomena            | Proposals | 1973-1974 |                   |
| 5 | SQUID Proposals<br>1973-1974<br>Aerodynamics  | Proposals | 1973-1974 |                   |
| 5 | SQUID Proposals<br>1973-1974<br>Combustion and<br>Measurements                      | Proposals | 1973-1974 |                   |
| 5 | Late Proposals<br>(SQUID)   | Proposals | 1974-1975 |                   |
| 5 | SQUID Proposals<br>1974-1975 Chemistry<br>and Measurements                          | Proposals | 1974-1975 |                   |
| 5 | SQUID Proposals<br>1974-1975<br>Turbulence  | Proposals | 1974-1975 | Murthy            |
| 5 | SQUID Proposals<br>Measurement  | Proposals | 1975-1976 |                   |
| 5 | SQUID Proposals<br>1974-1975 Chemistry<br>and Measurements                          | Proposals | 1974-1975 | Duplicate<br>Name |
| 5 | SQUID Proposals<br>1974-1975<br>Aerodynamics  | Proposals | 1974-1975 |                   |
| 5 | SQUID Proposals<br>1974-1975<br>Turbulence  | Proposals | 1974-1975 | Duplicate<br>Name |
| 5 | SQUID Proposals<br>1974-1975<br>Aerodynamics  | Proposals | 1974-1975 | Duplicate<br>Name |
| 6 | SQUID Proposals<br>1974-1975<br>Aerodynamics  | Proposals | 1974-1975 | Duplicate<br>Name |
| 6 | Late Proposals<br>(SQUID)   | Proposals | 1974-1975 |                   |

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|---|---|-----------|-----------|
| 6 | SQUID Aerodynamics<br>Turbo Machinery   | Proposals | 1975-1976 |
| 6 | SQUID Turbulence  | Proposals | 1975-1976 |
| 6 | Project SQUID<br>Proposals  | Proposals | 1975-1976 |
| 6 | SQUID Combustion<br>and Chemical Kinetics<br>1976-1977 Project<br>SQUID Proposals | Proposals | 1975-1976 |
| 6 | Combustion<br>1976-1977 Project<br>SQUID Proposals                                | Proposals | 1976-1977 |
| 6 | Aerodynamics<br>1976-1977 Project<br>SQUID Proposals Late                         | Proposals | 1976-1977 |
| 7 | Proposals<br>1976-1977 Project<br>SQUID Proposals                                 | Proposals | 1976-1977 |
| 7 | Turbulence<br>1976-1977 Project<br>SQUID Proposals                                | Proposals | 1976-1977 |
| 7 | Measurements<br>1977-1978 Project<br>SQUID Proposals                              | Proposals | 1976-1977 |
| 7 | Turbulence<br>1977-1978 Project<br>SQUID Proposals                                | Proposals | 1977-1978 |
| 7 | Measurements<br>1977-1978 Project<br>SQUID Proposals                              | Proposals | 1977-1978 |
| 7 | Combustion and<br>Chemical Physics<br>1978-1979 Project<br>SQUID Proposals        | Proposals | 1977-1978 |
| 7 | 1979-1980 Project<br>SQUID Proposals  | Proposals | 1978-1979 |
| 7 | Aerodynamics<br>1979-1980 Project<br>SQUID Proposals                              | Proposals | 1979-1980 |
| 7 | Measurements<br>1979-1980 Project<br>SQUID Proposals                              | Proposals | 1979-1980 |
| 8 | Turbulence<br>1979-1980 Project<br>SQUID Proposals                                | Proposals | 1979-1980 |
| 8 | Combustion<br>1979-1980 Project   | Proposals | 1979-1980 |
| 8 | SQUID Late Proposals  | Proposals | 1979-1980 |

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|---|---|---------------------|-----------|--|--|
| 8 | Project SQUID<br>Proposals Book 5   | Proposals           | 1980-1981 |  |  |
| 8 | Project SQUID<br>Proposals Book 4   | Proposals           | 1980-1981 |  |  |
| 8 | Project SQUID<br>Proposals  | Proposals           | 1980-1981 |  |  |
| 8 | Project SQUID<br>Proposals Book 1   | Proposals           | 1980-1981 |  |  |
| 8 | Project SQUID<br>Proposals Book 2   | Proposals           | 1980-1981 |  |  |
| 8 | Project SQUID<br>Proposals  | Proposals           | 1980-1981 |  |  |
| 8 | Project SQUID<br>Proposals Book 1   | Proposals           | 1980-1981 |  | Duplicate                                    |
| 9 | Negative Ion<br>Formation in the<br>Atomic Oxygen-<br>Acetylene Reaction<br>(SQUID)   | Technical<br>Report | 1964      | AeroChem<br>Research<br>Laboratories, Inc. | William J.<br>Miller and<br>A. Fontijn       |
| 9 | Mechanism of<br>Chemiluminescence<br>of Atomic Oxygen-<br>Hydrocarbon<br>Reactions. Formation<br>of the Vaidya<br>Hydrocarbon Flame<br>Bands Emitter<br>(SQUID) | Technical<br>Report | 1965      | AeroChem<br>Research<br>Laboratories, Inc. | Arthur<br>Fontijn                            |
| 9 | Mechanism of CN and<br>NH<br>Chemiluminescence<br>in the N-O-C <sub>2</sub> H <sub>2</sub> and<br>O-NO-C <sub>2</sub> H <sub>2</sub> Reactions<br>(SQUID)       | Technical<br>Report | 1965      | AeroChem<br>Research<br>Laboratories, Inc. | A. Fontijn                                   |
| 9 | Chemi-Ionization in<br>the Reaction Between<br>C <sub>2</sub> F <sub>4</sub> and Atomic<br>Nitrogen-Atomic<br>Oxygen Mixtures<br>(SQUID)                        | Technical<br>Report | 1966      | AeroChem<br>Research<br>Laboratories, Inc. | Arthur<br>Fontijn and<br>Pieter H.<br>Vree   |
| 9 | Catalyzed<br>Enhancement of<br>Chemi-Ionization in<br>Atomic N and O<br>Mixtures (SQUID)  | Technical<br>Report | 1966      | AeroChem<br>Research<br>Laboratories, Inc. | Arthur<br>Fontijn and<br>Pieter H.<br>Vree   |
| 9 | NO + O<br>Chemiluminescent<br>Reaction Using<br>Adiabatically<br>Expanded Nitric<br>Oxide (SQUID)   | Technical<br>Report | 1967      | AeroChem<br>Research<br>Laboratories, Inc. | Arthur<br>Fontijn and<br>Daniel E.<br>Rosner |

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| 9 | Formation of Electronically Excited Species in N-Atom/O-Atom Recombination Reactions Catalyzed by Carbon Compounds: NO ( $A^2\Sigma$ , $B^2\Pi$ ) And O( $^1S$ ) <sup>1</sup> (SQUID) | Technical Report | 1968 | AeroChem Research Laboratories, Inc.                           | Arthur Fontijn and Roy Ellison                                     |
| 9 | Chemiluminescence and Chemi-Ionization in Nitrogen Atom/Oxygen Atom/Carbon Compound Reactions (SQUID)   | Technical Report | 1969 | AeroChem Research Laboratories, Inc.                           | Arthur Fontijn   |
| 9 | Chemi-Ionization Reactions in the Gas Phase (SQUID)   | Technical Report | 1970 | AeroChem Research Laboratories, Inc.                           | Arthur Fontijn   |
| 9 | Chemiluminescent Emission of CO Fourth Positive Bands in Nitrogen Atom/Oxygen Atom/Reactive Carbon Compound Systems (SQUID)   | Technical Report | 1970 | AeroChem Research Laboratories, Inc. and Princeton University  | Arthur Fontijn, Roy Ellison, and William H. Smith, James E. Hesser |
| 9 | Comparison of the Absolute Quantum Yields of the Gas Phase O/NO Reaction and the Liquid Phase Luminol Oxidation Chemiluminescence Light Standards (SQUID)                             | Technical Report | 1971 | AeroChem Research Laboratories, Inc. and University of Georgia | Arthur Fontijn and John Lee  |
| 9 | A Review of Experimental Measurement Methods Based on Gas-Phase Chemiluminescence (SQUID)   | Technical Report | 1972 | AeroChem Research Laboratories, Inc. Add others??              | Arthur Fontijn, Dan Golomb, and Jimmie A. Hodgeson                 |
| 9 | Recent Progress in Chemi-Ionization Kinetics (SQUID)  | Technical Report | 1973 | AeroChem Research Laboratories, Inc.                           | Arthur Fontijn   |
| 9 | Elementary Combustion Reaction Kinetics Measurements Over Large Temperature Ranges. The HTFFR Technique. (SQUID)  | Technical Report | 1976 | AeroChem Research Laboratories, Inc.                           | Arthur Fontijn   |

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| 9 | HTFFR Kinetics<br>Studies of A1 + CO2<br>→ A10 + CO From 300<br>to 1800 K, A Non-<br>Arrhenius Reaction<br>(SQUID) | Technical<br>Report | 1977 | AeroChem<br>Research<br>Laboratories, Inc.                   | Arthur<br>Fontijn and<br>William<br>Felder         |
| 9 | Kinetics Equations for<br>Gases in External<br>Fields (SQUID)  | Technical<br>Report | 1961 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | James E.<br>McCune and<br>Guido<br>Sandri          |
| 9 | A New Fundamental<br>Principle in Kinetic<br>Theory (SQUID)  | Technical<br>Report | 1962 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | Guido<br>Sandri<br>J. E.<br>McCune,                |
| 9 | On the Relaxation of<br>Gases Toward<br>Continuum Flow<br>(SQUID)  | Technical<br>Report | 1962 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | T.F. Morse,<br>and G.<br>Sandri                    |
| 9 | A New Approach to<br>Non-Equilibrium<br>Statistical Mechanics<br>of Gases (SQUID)                                  | Technical<br>Report | 1962 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | J.E. McCune,<br>G. Sandri,<br>and E. A.<br>Frieman |
| 9 | Energy and<br>Momentum Exchange<br>Between Non-<br>Equipartition Gases<br>(SQUID)                                  | Technical<br>Report | 1963 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | F.T. Morse   |
| 9 | The Supersecularities<br>in Weak Coupling<br>Kinetic Theory<br>(SQUID)   | Technical<br>Report | 1963 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | Guido<br>Sandri                                    |
| 9 | The Foundations of<br>Nonequilibrium<br>Statistical Mechanics<br>(SQUID)   | Technical<br>Report | 1963 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | Guido<br>Sandri                                    |
| 9 | Recombination<br>Effects in the<br>Relaxation of a Non-<br>Equipartition Partially<br>Ionized Gas (SQUID)          | Technical<br>Report | 1963 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | T.F. Morse   |
| 9 | A Kinetic Model for<br>Gases with Internal<br>Degrass of Freedom<br>(SQUID)  | Technical<br>Report | 1963 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | T.F. Morse<br>Guido<br>Sandri,                     |
| 9 | Kinetic<br>Thermodynamics<br>(SQUID)   | Technical<br>Report | 1966 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc. | Arnold Kritz,<br>and<br>Frederick<br>Schatzman     |

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|---|---|------------------|------|---|---|
| 9 | Modeling of Scalar Probability Density Functions in turbulent Flows (SQUID)   | Technical Report | 1978 | Aeronautical Research Associates of Princeton, Inc. | Ashok K. Varma, Guido Sandri, and Peter J. Mansfield    |
| 9 | Second-Order Closure Modeling of Variable Density Turbulent Flows (SQUID)   | Technical Report | 1979 | Aeronautical Research Associates of Princeton, Inc. | Ashok K. Varma, Peter J. Mansfield, and Guido Sandri    |
| 9 | Preliminary Evaluation of a Rotating Flame Stabilizer as a Means of Achieving Higher Heat-Release Rates Per Unit of Combustion-Chamber Volume (SQUID) | Technical Report | 1956 | Atlantic Research Corporation                       | John H. Grover, Michael G. Kesler, and Arch C. Sourlock |
| 9 | Flame Structure Studies IV. Premixed Carbon Monoxide Combustion (SQUID)   | Technical Report | 1958 | Atlantic Research Corporation                       | Raymond Friedman and Robert G. Nugent                   |
| 9 | Elementary Treatment of Extinction of a Gaseous Diffusion Flame (SQUID)   | Technical Report | 1959 | Atlantic Research Corporation                       | Raymond Friedman and Robert G. Nugent                   |
| 9 | Ignition and Combustion of Aluminum Particles in Hot Ambient Gases (SQUID)  | Technical Report | 1961 | Atlantic Research Corporation                       | Raymond Friedman and Andrej Macek                       |
| 9 | Combustion Studies of Single Aluminum Particles (SQUID)   | Technical Report | 1962 | Atlantic Research Corporation                       | R. Friedman and A. Macek                                |
| 9 | Techniques for the Study of Combustion of Beryllium and Aluminum Particles (SQUID)  | Technical Report | 1964 | Atlantic Research Corporation                       | A. Macek, R. Friedman, and J. M. Semple                 |
| 9 | Time-Resolved Spectroscopy of Single Burning Metal Particles (SQUID)  | Technical Report | 1966 | Atlantic Research Corporation                       | Andrej Macek and J. McKenzie Semple                     |
| 9 | Experimental Burning Rates and Combustion Mechanisms of Single Beryllium Particles (SQUID)  | Technical Report | 1968 | Atlantic Research Corporation                       | Andrej Macek and J. McKenzie Semple                     |



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| 9 | Combustion of Boron Particles at Atmospheric Pressure (SQUID)  | Technical Report | 1969 | Atlantic Research Corporation    | Andrej Macek and J. McKenzie Semple                  |
| 9 | Combustion of Boron Particles at Elevated Pressures (SQUID)  | Technical Report | 1970 | Atlantic Research Corporation    | Andrej Macek and J. McKenzie Semple                  |
| 9 | Combustion of Boron Particles: Experiment and Theory (SQUID)   | Technical Report | 1972 | Atlantic Research Corporation    | Andrej Macek   |
| 9 | Point Measurement of Density by Laser Raman Scattering (SQUID)   | Technical Report | 1972 | AVCO Everett Research Laboratory | Donald A. Leonard                                    |
| 9 | Nontangential Injection of Single and Two-Phase Jets into Subsonic Flow (SQUID)                                    | Technical Report | 1976 | Bell Aerospace Company           | George Rudinger                                      |
| 9 | The Viscosity of Superheated Steam Up To 275°C. A Refined Determination (SQUID)                                    | Technical Report | 1962 | Brown University                 | J. Kestin and P. D. Richardson                       |
| 9 | A Relative Determination of the Viscosity of Several Gases by the Oscillating Disk Method (SQUID)                  | Technical Report | 1962 | Brown University                 | J. Kestin and J. H. Whitelaw                         |
| 9 | The Viscosity of Nitrogen, Helium, Neon, and Argon From -78.5°C to 100°C Below 200 Atmospheres (SQUID)             | Technical Report | 1962 | Brown University                 | G. P. Flynn, R. V. Hanks, N. A. Lemaire, and J. Ross |
| 9 | The Viscosity of Argon-Helium Mixtures (SQUID)   | Technical Report | 1963 | Brown University                 | H. Iwasaki and J. Kestin                             |
| 9 | The Viscosity of Carbon Dioxide in the Neighborhood of the Critical Point (SQUID)                                  | Technical Report | 1963 | Brown University                 | J. Kestin, J. H. Whitelaw, and T. F. Zien            |
| 9 | An Experimental Investigation of the Internal Friction of Small Diameter Quartz Strands at Low Frequencies (SQUID) | Technical Report | 1963 | Brown University                 | J. H. Whitelaw                                       |

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| 9 | The Viscosity of Neon-Helium and Neon-Argon Mixtures at 20°C and 30°C (SQUID)                                    | Technical Report | 1963 | Brown University                                   | J. Kestin and A. Nagashima                                 |
| 9 | Composition Dependence of Non-Equilibrium Effects in Gas Phase Reactions (SQUID)                                 | Technical Report | 1963 | Brown University and Metcalf Chemical Laboratories | Chong Wha Pyun and John Ross                               |
| 9 | Viscosity of Hydrogen, Deuterium, Methane, and Carbon Monoxide from -50°C to 150°C Below 200 Atmospheres (SQUID) | Technical Report | 1964 | Brown University and Metcalf Chemical Laboratories | A. K. Barua, J. Ross, and M. Afzal                         |
| 9 | The Viscosity of the Isotopes of Hydrogen and Their Intermolecular Force Potentials (SQUID)                      | Technical Report | 1963 | Brown University                                   | J. Kestin and A. Nagashima                                 |
| 9 | The Viscosity of Dry and Humid Air (SQUID)   | Technical Report | 1964 | Brown University                                   | J. Kestin and J. H. Whitelaw Shoon Kyung Kim and John Ross |
| 9 | The Viscosity of Moderately Dense Gases (SQUID)  | Technical Report | 1964 | Brown University                                   | Neil S. Snider and John Ross                               |
| 9 | Non-Equilibrium Effects in the Kinetics of Gas Phase Reactions (SQUID)   | Technical Report | 1965 | Cornell University and Brown University            | J. Kestin and J. H. Whitelaw                               |
| 9 | Effect of Pressure Cycles and of Dissolved Air on the Viscosity of Water (SQUID)                                 | Technical Report | 1965 | Brown University and Imperial College              | S. K. Kim, G. P. Flynn, and J. Ross                        |
| 9 | Thermal Conductivity of Moderately Dense Gases (SQUID)   | Technical Report | 1965 | Brown University                                   | R. DiPippo, J. Kestin, and J. H. Whitelaw                  |
| 9 | A High-Temperature Oscillating-Disk Viscometer (SQUID)   | Technical Report | 1966 | Brown University and Imperial College              | Shoon Kyung Kim J. Kestin, Y. Kobayashi, and R. T. Wood    |
| 9 | The Rate of Termolecular Atomic Recombinations (SQUID)   | Technical Report | 1966 | Brown University                                   |  |
| 9 | The Viscosity of Four Binary, Gaseous Mixtures at 20°C and 30°C (SQUID)  | Technical Report | 1966 | Brown University                                   |  |

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| 9 | Trajectories of Shock-Wave and Contact Surface in Real Shock-Tube Flow (SQUID)  | Technical Report | 1971 | Brown University     | H. J. Gerhardt                               |           |
| 9 | Spectroscopic Study of the Behavior of Xenon Behind a Shock Wave (SQUID)        | Technical Report | 1972 | Brown University     | H. Semerjian                                 |           |
| 9 | Spectroscopic Study of the Behavior of Xenon Behind a Shock Wave (SQUID)        | Technical Report | 1972 | Brown University     | H. Semerjian                                 | Duplicate |
| 9 | Combustion and Flames at High Pressures (SQUID)                                 | Technical Report | 1957 | U.S. Bureau of Mines | H. G. Wolfhard and A. Strasser               |           |
| 9 | The Ignition of Combustible Gases by Flames (SQUID)                             | Technical Report | 1957 | U.S. Bureau of Mines | H. G. Wolfhard and D. S. Burgess             |           |
| 9 | Spontaneous Ignition Temperature of Fuel-Nitric Oxide Mixtures (SQUID)          | Technical Report | 1957 | U.S. Bureau of Mines | H. G. Wolfhard and A. Strasser               |           |
| 9 | The Ignition of Combustible Mixtures by Hot Gases (SQUID)                       | Technical Report | 1957 | U.S. Bureau of Mines | H. G. Wolfhard                               |           |
| 9 | Considerations Pertaining to Spherical-Vessel Combustion (SQUID)                | Technical Report | 1958 | U.S. Bureau of Mines | J. Grumer, E. B. Cook, and T. A. Kubala      |           |
| 9 | Comparison Between Hot-Gas Ignition and Limit Flame Temperatures (SQUID)        | Technical Report | 1958 | U.S. Bureau of Mines | M. Vanpee and H. G. Wolfhard                 |           |
| 9 | Measurements of the Electrical Waveforms of Low-Energy Spark Discharges (SQUID) | Technical Report | 1958 | U.S. Bureau of Mines | Kenneth Lipman and Paul G. Guest             |           |
| 9 | Recent Developments in Spark Ignition (SQUID)                                   | Technical Report | 1958 | U.S. Bureau of Mines | E. L. Litchfield and M. V. Blanc             |           |
| 9 | The Process of Ignition by Hot Gases (SQUID)                                    | Technical Report | 1960 | U.S. Bureau of Mines | M. Vanpee, A. E. Bruszak, and H. G. Wolfhard |           |
| 9 | Ignition by Hot Gases (SQUID)   | Technical Report | 1960 | U.S. Bureau of Mines | M. Vanpee and H. G. Wolfhard                 |           |

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| 10 | Valveless Pulse Jet Investigations Part I Tests of Small Scale Models (SQUID)   | Technical Report | 1949  | Cornell Aeronautical Laboratory | F. J. Gilling  |
| 10 | Short Time High Temperature Bending Fatigue Properties of   | Technical Report | 1949  | Cornell Aeronautical Laboratory |  |

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| 10 | Linearized Solution of<br>Nonsteady Flows<br>Through Ducts<br>(SQUID)   | Technical<br>Report | 1950 | Cornell<br>Aeronautical<br>Laboratory | Wm. Square<br>and T. R.<br>Goodman           |
| 10 | Spectroscopic Study<br>of Combustion<br>Summary Report<br>(SQUID)   | Technical<br>Report | 1951 | Cornell<br>Aeronautical<br>Laboratory | G. H.<br>Rothgery<br>and J. T.<br>Grey       |
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| 10 | Cyclic Loading Effects<br>on the Creep<br>Properties of Sheet<br>Materials (SQUID)                            | Technical<br>Report | 1951 | Cornell<br>Aeronautical<br>Laboratory | F. J. Gilling<br>and G. J.<br>Guarnieri      |
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| 10 | The Reflection of<br>Shock Waves from an<br>Orifice at the End of a<br>Duct (SQUID)  | Technical<br>Report | 1957 | Cornell<br>Aeronautical<br>Laboratory | George<br>Rudinger                            |
| 10 | Shock Wave and<br>Flame Interactions<br>(SQUID)  | Technical<br>Report | 1957 | Cornell<br>Aeronautical<br>Laboratory | George<br>Rudinger                            |
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| 10 | Nonsteady Discharge<br>of Subcritical Flow<br>(SQUID)  | Technical<br>Report | 1960 | Cornell<br>Aeronautical<br>Laboratory | George<br>Rudinger                            |
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| 10 | On the Interaction of Centered Expansion Waves (SQUID)   | Technical Report | 1961 | Cornell Aeronautical Laboratory | George Rudinger                                     |
| 10 | Magnesium-Oxygen Dilute Diffusion Flame (SQUID)  | Technical Report | 1962 | Cornell Aeronautical Laboratory | George H. Markstein                                 |
| 10 | Combustion of Metals (SQUID)   | Technical Report | 1962 | Cornell Aeronautical Laboratory | George H. Markstein                                 |
| 10 | Some Properties of Shock Relaxation in Gas Flows Carrying Small Particles (SQUID)  | Technical Report | 1963 | Cornell Aeronautical Laboratory | George Rudinger<br>George Rudinger and Andela Chang |
| 10 | Analysis of Nonsteady Two-Phase Flow (SQUID)   | Technical Report | 1964 | Cornell Aeronautical Laboratory |   |
| 10 | Analysis of a Dilute Diffusion Flame Maintained by Heterogeneous Reaction (SQUID)  | Technical Report | 1963 | Cornell Aeronautical Laboratory | George H. Markstein                                 |
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## Spectrophotometry (SQUID)

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| 10 | Effective Drag Coefficients for Gas-Particle Flow in Shock Tubes (SQUID)   | Technical Report | 1969 | Cornell Aeronautical Laboratory    | George Rudinger   |
| 10 | Gas-Particle Flow in Convergent Nozzles at High Loading Ratios (SQUID)   | Technical Report | 1969 | Cornell Aeronautical Laboratory    | George Rudinger   |
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| 10 | Viscosity of Fluids at High Pressures. A Rotating Cylinder Viscometer and the Viscosity of n-Pentane (SQUID)                                       | Technical Report | 1959 | California Institute of Technology | H. H. Reamer, G. Cokelet, and B. H. Sage                                      |
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| 10 | An Experimental Investigation of Mixing in Two-Dimensional Turbulent Shear Flows with Applications to Diffusion-Limited Chemical Reactions (SQUID) | Technical Report | 1976 | California Institute of Technology | John Harrison Konrad Willy Z. Sadeh, Herbert J. Brauer, and James A. Garrison |
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| 10 | The Reactions on Hydrogen Atoms with Oxygen (SQUID)  | Technical Report | 1958 | The Catholic University of America | Darwent and V. J. Krasnansky  |
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| 10 | Flame Stability of Liquid-Vapor Oxygen Mixtures (SQUID)  | Technical Report | 1952 | Dartmouth College                  | James A. Browning and Merle L. Thorpe   |
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| 11 | On the Structure of Turbulent Flames (SQUID)   | Technical Report | 1956 | University of Delaware             | K. Wohl, H. von Rosenberg, R. Schilly, C. Shipman, R. Zielinski, D. Archer, and W. Jacobi |
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| 12 |  |                  |      |                             | T. C. Adamson, Jr.   |

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| 12 | Unsteady Transonic Flow with Heat Addition (SQUID)                                       | Technical Report | 1976 | University of Michigan | Martin Sichel   |
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|    | Instabilities in<br>Coupled Chemical<br>Reactions with<br>Pressure-Dependent<br>Rate Coefficients<br>(SQUID)                                      | Technical<br>Report | 1971 | Massachusetts<br>Institute of<br>Technology                         | Peter J.<br>Ortoleva<br>and John<br>Ross                               |
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|    | Optical Model for<br>Vibrational Relaxation<br>in Reactive Systems<br>(SQUID)   | Technical<br>Report | 1972 | Massachusetts<br>Institute of<br>Technology                         | Lise Lotte<br>Poulsen,<br>John Ross,<br>and Jeffery<br>I. Steinfield   |
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| 16 | Relaxation Rates from<br>Time of Flight<br>Analysis of Molecular<br>Beams (SQUID)<br>A Free Jet Study of<br>the Rotational<br>Relaxation of<br>Molecular Nitrogen<br>from 300-1000°K<br>(SQUID) | Technical<br>Report | 1973 | Yale University  | Robert J.<br>Gallagher<br>and John B.<br>Fenn |
| 16 |   | Technical<br>Report | 1974 | Yale University  | Robert J.<br>Gallagher<br>and John B.<br>Fenn |
| 16 | Clustering of Water<br>on Hydrated Protons<br>in a Supersonic Free<br>Jet Expansion (SQUID)   | Technical<br>Report | 1974 | Yale University<br>New York<br>University,<br>Polytechnic<br>Institute of<br>Brooklyn, Purdue<br>University, Cornell<br>Aeronautical<br>Laboratory,<br>Princeton<br>University<br>New York<br>University,<br>Polytechnic<br>Institute of<br>Brooklyn, Purdue<br>University, Cornell<br>Aeronautical<br>Laboratory,<br>Princeton<br>University<br>New York<br>University,<br>Polytechnic<br>Institute of<br>Brooklyn, Purdue<br>University, Cornell<br>Aeronautical<br>Laboratory,<br>Princeton<br>University<br>New York<br>University,<br>Polytechnic<br>Institute of<br>Brooklyn, Purdue<br>University, Cornell<br>Aeronautical<br>Laboratory, | J. Q. Searcy<br>and J. B.<br>Fenn             |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 April 1947  | Progress Report     | 1947 |  |   |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 July 1947   | Progress Report     | 1947 |  |   |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 April 1948  | Progress Report     | 1948 |  |   |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 July 1948   | Progress Report     | 1948 |  |   |

Princeton  
University

New York  
University,  
Polytechnic  
Institute of  
Brooklyn, Purdue  
University, Cornell  
Aeronautical  
Laboratory,  
Princeton  
University  
New York  
University,  
Polytechnic  
Institute of  
Brooklyn, Purdue  
University, Cornell

16      Project SQUID  
Quarterly Progress  
Report - 1 October  
1947      Progress Report      1947

16      Project SQUID  
Quarterly Progress  
Report - 1 October  
1948      Progress Report      1948

16      Project SQUID  
Quarterly Progress  
Report - 1 April 1949      Progress Report      1949

16      Project SQUID  
Quarterly Progress  
Report - 1 July 1949      Progress Report      1949

Aeronautical  
Laboratory,  
Princeton  
University  
New York  
University,  
Polytechnic  
Institute of  
Brooklyn, Purdue  
University, Cornell  
Aeronautical  
Laboratory,  
Princeton  
University,  
University of  
Delaware  
New York  
University,  
Polytechnic  
Institute of  
Brooklyn, Purdue  
University, Cornell  
Aeronautical  
Laboratory,  
Princeton  
University,  
University of  
Delaware

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|----|---|-----------------|------|---|
|    |   |                 |      | New York<br>University,<br>Polytechnic<br>Institute of<br>Brooklyn, Purdue<br>University, Cornell<br>Aeronautical<br>Laboratory,<br>Princeton<br>University,<br>University of<br>Delaware<br>Polytechnic<br>Institute of<br>Brooklyn, Cornell<br>Aeronautical<br>Laboratory,<br>University of<br>Delaware, Johns<br>Hopkins<br>University, New<br>York University,<br>Princeton<br>University, Purdue<br>University<br>Polytechnic<br>Institute of<br>Brooklyn, Cornell<br>Aeronautical<br>Laboratory,<br>University of<br>Delaware, Johns<br>Hopkins<br>University, New<br>York University,<br>Princeton<br>University, Purdue<br>University<br>Polytechnic<br>Institute of<br>Brooklyn, Cornell<br>Aeronautical<br>Laboratory,<br>University of<br>Delaware, Johns<br>Hopkins<br>University, New<br>York University,<br>Princeton<br>University, Purdue<br>University |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 October<br>1949 | Progress Report | 1949 |   |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 April 1950      | Progress Report | 1950 |   |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 July 1950       | Progress Report | 1950 |   |
| 16 | Project SQUID<br>Quarterly Progress<br>Report - 1 October<br>1950 | Progress Report | 1950 |   |



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| 16 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 January<br>1947  | Progress Report | 1947 | Purdue University<br>Polytechnic<br>Institute of<br>Brooklyn, Cornell<br>Aeronautical<br>Laboratory,<br>University of<br>Delaware, Johns<br>Hopkins<br>University, New<br>York University,<br>Princeton<br>University, Purdue<br>University   |
| 16 | Project SQUID Semi-<br>Annual Progress<br>Report - April 1, 1951      | Progress Report | 1951 | Atlantic Research<br>Corporation,<br>Polytechnic<br>Institute of<br>Brooklyn,<br>Experiment<br>Incorporated,<br>Cornell<br>Aeronautical<br>Laboratory,<br>University of<br>Delaware, Johns<br>Hopkins<br>University, New<br>York University,<br>Princeton<br>University, Purdue<br>University |
| 16 | Project SQUID Semi-<br>Annual Progress<br>Report - October 1,<br>1951 | Progress Report | 1951 | Atlantic Research<br>Corporation,<br>Polytechnic<br>Institute of<br>Brooklyn,<br>University of<br>California at<br>Berkeley,<br>Experiment<br>Incorporated,<br>Cornell<br>Aeronautical<br>Laboratory,<br>Dartmouth<br>College, University<br>of Delaware, Johns<br>Hopkins<br>University,     |
| 16 | Project SQUID Semi-<br>Annual Progress<br>Report - October 1,<br>1952 | Progress Report | 1952 |   |

Massachusetts  
Institute of  
Technology,  
Princeton  
University, Purdue  
University,  
Northwestern  
University, United  
States Bureau of  
Mines

Atlantic Research  
Corporation,  
Polytechnic  
Institute of  
Brooklyn,  
University of  
California at  
Berkeley,  
Experiment  
Incorporated,  
Cornell  
Aeronautical  
Laboratory,  
Dartmouth  
College, University  
of Delaware, Johns  
Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
Princeton  
University, Purdue  
University,  
Northwestern  
University, United  
States Bureau of  
Mines

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - April 1, 1953 | Progress Report | 1953 |
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|    |   |                 |      | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley,<br>Experiment Incorporated,<br>Cornell<br>Aeronautical Laboratory,<br>Dartmouth College, University<br>of Delaware, Johns Hopkins<br>University,<br>Massachusetts Institute of<br>Technology,<br>Princeton University, Purdue<br>University,<br>Northwestern University, United<br>States Bureau of<br>Mines |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - October 1,<br>1953 | Progress Report | 1953 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley,<br>Experiment Incorporated,<br>Cornell<br>Aeronautical Laboratory,<br>Dartmouth College, University<br>of Delaware, Johns Hopkins<br>University,<br>Massachusetts Institute of<br>Technology,<br>Princeton University, Purdue<br>University,<br>Northwestern University, United<br>States Bureau of<br>Mines |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - April 1, 1954      | Progress Report | 1954 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley,<br>Experiment Incorporated,<br>Cornell<br>Aeronautical Laboratory,<br>Dartmouth College, University<br>of Delaware, Johns Hopkins<br>University,<br>Massachusetts Institute of<br>Technology,<br>Princeton University, Purdue<br>University,<br>University of  |

Michigan,  
Northwestern  
University, United  
States Bureau of  
Mines

Atlantic Research  
Corporation,  
Polytechnic  
Institute of  
Brooklyn,  
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California at  
Berkeley,  
Experiment  
Incorporated,  
Cornell  
Aeronautical  
Laboratory,  
Dartmouth  
College, University  
of Delaware, Johns  
Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
Princeton  
University, Purdue  
University,  
University of  
Michigan ,  
Northwestern  
University, United  
States Bureau of  
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Project SQUID Semi-  
Annual Progress  
Report - October 1,

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1954

Progress Report

1954

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|    |   |                 |      | Atlantic Research Corporation,<br>California Institute of Technology,<br>Catholic University,<br>Experiment Incorporated,<br>Cornell Aeronautical Laboratory,<br>University of Delaware, Johns Hopkins University,<br>Massachusetts Institute of Technology,<br>Princeton University, Purdue University,<br>Stanford University,<br>University of Michigan ,<br>Northwestern University, United States Bureau of Mines, University of Wisconsin |
| 17 | Project SQUID Semi-Annual Progress Report - April 1, 1957 | Progress Report | 1957 | Atlantic Research Corporation,<br>California Institute of Technology,<br>Catholic University, Cornell Aeronautic Laboratory, Inc.,<br>University of Delaware, Experiment Incorporated,<br>Johns Hopkins University,<br>Massachusetts Institute of Technology,<br>University of Michigan,<br>Northwestern University,<br>Pennsylvania State University,  |

Princeton  
University, Purdue  
University,  
Stanford  
University, United  
States Bureau of  
Mines, University  
of Wisconsin

Atlantic Research  
Corporation,  
California Institute  
of Technology,  
Catholic  
University, Cornell  
Aeronautic  
Laboratory, Inc.,  
University of  
Delaware,  
Experiment  
Incorporated,  
Johns Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Michigan,  
Northwestern  
University,  
Pennsylvania State  
University,  
Princeton  
University, Purdue  
University,  
Stanford Research  
Institute, United  
States Bureau of  
Mines, University  
of Wisconsin

Atlantic Research  
Corporation,  
California Institute  
of Technology,  
Catholic  
University, Cornell  
Aeronautic  
Laboratory, Inc.,  
University of  
Delaware,  
Experiment  
Incorporated,  
Fairchild Engine  
Division, The  
Franklin Institute,  
Johns Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Michigan,  
University of  
Minnesota,  
Pennsylvania State  
University,  
Princeton  
University, The  
Rice Institute,  
Stanford Research  
Institute, United  
States Bureau of  
Mines

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - April 1, 1959 | Progress Report | 1959 |
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|    |   |                 |      | Atlantic Research Corporation,<br>California Institute of Technology,<br>Catholic University, Cornell Aeronautic Laboratory, Inc.,<br>University of Delaware, Experiment Incorporated, The Franklin Institute,<br>Johns Hopkins University, Massachusetts Institute of Technology,<br>University of Michigan, University of Minnesota, Pennsylvania State University, Princeton University, The Rice Institute, Stanford Research Institute, United States Bureau of Mines |
| 17 | Project SQUID Semi-Annual Progress Report - October 1, 1959 | Progress Report | 1959 | Atlantic Research Corporation,<br>California Institute of Technology,<br>Catholic University of America, Cornell Aeronautic Laboratory, Inc.,<br>University of Delaware, The Franklin Institute,<br>Johns Hopkins University, Massachusetts Institute of Technology,<br>University of Minnesota, Pennsylvania State University, Princeton University, The  |
| 17 | Project SQUID Semi-Annual Progress Report - April 1, 1960   | Progress Report | 1960 |  |



Rice Institute,  
Stanford Research  
Institute, United  
States Bureau of  
Mines

Atlantic Research  
Corporation,  
California Institute  
of Technology,  
Catholic University  
of America, Cornell  
Aeronautic  
Laboratory, Inc.,  
University of  
Delaware, The  
Franklin Institute,  
Johns Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Minnesota,  
Pennsylvania State  
University,  
Princeton  
University, William  
Marsh Rice  
University,  
Stanford Research  
Institute,  
University of  
Virginia, United  
States Bureau of  
Mines

Project SQUID Semi-  
Annual Progress  
Report - October 1,  
1960

Progress Report

1960

Aeronautical  
Research  
Associates of  
Princeton, Inc.,  
Atlantic Research  
Corporation,  
Brown University,  
Catholic University  
of America, Cornell  
Aeronautic  
Laboratory, Inc.,  
University of  
Delaware,  
University of  
Illinois, Johns  
Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Minnesota,  
Pennsylvania State  
University,  
Princeton  
University,  
Reaction Motors  
Division - Thiokol  
Chemical  
Corporation,  
William Marsh  
Rice University,  
Stanford Research  
Institute,  
University of  
Virginia, United  
States Bureau of  
Mines

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - April 1, 1961 | Progress Report | 1961 |
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Aeronautical  
Research  
Associates of  
Princeton, Inc.,  
Atlantic Research  
Corporation,  
Brown University,  
Catholic University  
of America, Cornell  
Aeronautic  
Laboratory, Inc.,  
University of  
Delaware,  
University of  
Illinois, Johns  
Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Minnesota,  
Pennsylvania State  
University,  
Princeton  
University,  
Reaction Motors  
Division - Thiokol  
Chemical  
Corporation,  
William Marsh  
Rice University,  
Stanford Research  
Institute,  
University of  
Virginia, United  
States Bureau of  
Mines

Project SQUID Semi-  
Annual Progress  
Report - October 1,

17

1961

Progress Report

1961

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|    |   |                 |      | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Catholic University<br>of America, Cornell<br>Aeronautic<br>Laboratory, Inc.,<br>University of<br>Delaware,<br>University of<br>Illinois, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Minnesota,<br>Pennsylvania State<br>University,<br>Princeton<br>University,<br>Reaction Motors<br>Division - Thiokol<br>Chemical<br>Corporation,<br>William Marsh<br>Rice University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia, United<br>States Bureau of<br>Mines |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - April 1, 1962      | Progress Report | 1962 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Catholic University<br>of America, Cornell<br>Aeronautic<br>Laboratory, Inc.,<br>University of<br>Delaware,<br>University of<br>Illinois, Johns  |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - October 1,<br>1962 | Progress Report | 1962 | Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Minnesota,<br>Pennsylvania State<br>University,<br>Princeton<br>University,<br>Reaction Motors<br>Division - Thiokol<br>Chemical<br>Corporation,<br>William Marsh<br>Rice University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia, United<br>States Bureau of<br>Mines   |

Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Minnesota,  
Pennsylvania State  
University,  
Princeton  
University,  
Reaction Motors  
Division - Thiokol  
Chemical  
Corporation,  
William Marsh  
Rice University,  
Stanford Research  
Institute,  
University of  
Virginia, United  
States Bureau of  
Mines  
Aeronautical  
Research  
Associates of  
Princeton, Inc.,  
Atlantic Research  
Corporation,  
Brown University,  
Catholic University  
of America, Cornell  
Aeronautic  
Laboratory, Inc.,  
University of  
Delaware, Humble  
Oil and Refining  
Company,  
University of  
Illinois, Johns  
Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Minnesota,  
Pennsylvania State  
University,  
Princeton  
University,  
Stanford Research  
Institute,

University of  
Virginia

Aeronautical  
Research  
Associates of  
Princeton, Inc.,  
Atlantic Research  
Corporation,  
Brown University,  
University of  
California  
(Berkeley),  
Catholic University  
of America, Cornell  
Aeronautic  
Laboratory, Inc.,  
Humble Oil and  
Refining Company,  
University of  
Illinois, Johns  
Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
University of  
Minnesota,  
Princeton  
University,  
Stanford Research  
Institute,  
University of  
Virginia

Project SQUID Semi-  
Annual Progress  
Report - October 1,

17

1963

Progress Report

1963

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|    |   |                 |      | Aerochem<br>Research<br>Laboratories, Inc.,<br>Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>University of<br>California<br>(Berkeley), Cornell<br>Aeronautic<br>Laboratory, Inc.,<br>Humble Oil and<br>Refining Company,<br>University of<br>Illinois, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>Princeton<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia<br>Aerochem<br>Research<br>Laboratories, Inc.,<br>Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Esso Research and<br>Engineering<br>Company, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>Princeton<br>University, Rice<br>University, |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - October 1,<br>1964 | Progress Report | 1964 |   |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1965       | Progress Report | 1965 |   |

Stanford Research  
Institute,  
University of  
Virginia

Aerochem  
Research  
Laboratories, Inc.,  
Aeronautical  
Research  
Associates of  
Princeton, Inc.,  
Atlantic Research  
Corporation,  
Brown University,  
Cornell Aeronautic  
Laboratory, Inc.,  
Esso Research and  
Engineering  
Company, Johns  
Hopkins  
University,  
Massachusetts  
Institute of  
Technology,  
Princeton  
University, Rice  
University,  
Stanford Research  
Institute,  
University of  
Virginia

Project SQUID Semi-  
Annual Progress  
Report - 1 October

17

1965

Progress Report

1965



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|    |  |                 |      | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1966      | Progress Report | 1966 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1966 | Progress Report | 1966 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |

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|    |  |                 |      | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1967      | Progress Report | 1967 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1967 | Progress Report | 1967 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |

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|    |  |                 |      | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation, The<br>City College of<br>New York, Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Cornell University,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology, The<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 May 1968        | Progress Report | 1968 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation, The<br>City College of<br>New York, Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Cornell University,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology, The<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1968 | Progress Report | 1968 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation, The<br>City College of<br>New York, Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Cornell University,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology, The<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1969      | Progress Report | 1969 |  |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1969 | Progress Report | 1969 |  |

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 May 1970        | Progress Report | 1970 |   |
| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1970 | Progress Report | 1970 |   |

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1971 | Progress Report | 1971 |   |

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1971 | Progress Report | 1971 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation, Avco-<br>Everett Research<br>Laboratory, Brown<br>University,<br>University of<br>California - San<br>Diego, Colorado<br>State University,<br>Cornell<br>Aeronautical<br>Laboratory,<br>Georgia Institute<br>of Technology,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan, Nielsen<br>Engineering and<br>Research, Inc.,<br>Purdue University,<br>Rice University,<br>Stanford<br>University, TRW<br>Systems, Yale<br>University, United<br>Aircraft Research<br>Laboratory |
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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1972 | Progress Report | 1972 |
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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1972 | Progress Report | 1972 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation, Avco-<br>Everett Research<br>Laboratory,<br>Polytechnic<br>Institute of<br>Brooklyn, Brown<br>University,<br>University of<br>California - San<br>Diego, Colorado<br>State University,<br>Cornell<br>Aeronautical<br>Laboratory,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan, Nielsen<br>Engineering and<br>Research, Inc.,<br>TRW Systems,<br>United Aircraft<br>Research<br>Laboratory,<br>Virginia<br>Polytechnic<br>Institute, Yale<br>University |
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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 October<br>1973 | Progress Report | 1973 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation, Avco-<br>Everett Research<br>Laboratory,<br>Polytechnic<br>Institute of<br>Brooklyn, Calspan<br>Corporation,<br>University of<br>California - San<br>Diego, General<br>Electric Company,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan, Nielsen<br>Engineering and<br>Research, Inc.,<br>TRW Systems,<br>United Aircraft<br>Research<br>Laboratory,<br>Virginia<br>Polytechnic<br>Institute, Yale<br>University |
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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1974 | Progress Report | 1974 |
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Project SQUID Semi-  
Annual Progress  
Report - 1 October

17

1974

Progress Report

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1975 | Progress Report | 1975 |
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Project SQUID Semi-  
Annual Progress  
Report - 1 October

17

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Progress Report

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| 17 | Project SQUID Semi-<br>Annual Progress<br>Report - 1 April 1976 | Progress Report | 1976 |
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Project SQUID Semi-  
Annual Progress  
Report - 1 October

17

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Progress Report

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Project SQUID Semi-  
 Annual Progress

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Report - 1 April 1977

Progress Report

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 Report - 1 October

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Progress Report

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 Annual Progress  
 Report - 1 October

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|    |  |                     |      | New York University, Polytechnic Institute of Brooklyn, Purdue University, Cornell Aeronautical Laboratory, Princeton University New York University, Polytechnic Institute of Brooklyn, Purdue University, Cornell Aeronautical Laboratory, Prince |
| 18 | Project SQUID Annual Program Report - 1 January 1948   | Progress Report     | 1948 | University, University, Polytechnic Institute of Brooklyn, Purdue University, Cornell Aeronautical Laboratory, Prince   |
| 18 | Project SQUID Annual Program Report - 1 January 1949   | Progress Report     | 1949 | University, University of Delaware Polytechnic Institute of Brooklyn, Cornell Aeronautical Laboratory, University of Delaware, Johns Hopkins University, New York University, Princeton University, Purdue University                               |
| 18 | Project SQUID Annual Program Report - 1 January 1950   | Progress Report     | 1950 |   |
| 18 | Project SQUID Annual Report of Activities and Recommended Program for the Year Beginning October 1, 1950 | Progress Report     | 1950 |   |
| 18 | Final Technical Report (SQUID)   | Technical Report    | 1981 |   |
| 18 | Project SQUID Introductory Report  | Introductory Report | 1946 |   |
| 18 | Project SQUID Monthly Progress Memoranda November 1946   | Progress Report     | 1946 | New York University, Polytechnic Institute of Brooklyn, Purdue University, Cornell Aeronautical Laboratory,   |

\*Final  
Technical  
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|----|--|-------------------|------|-------------------------------|-------------------------------|
| 18 | An Evaluation of the Heat Transfer Encountered in a Rocket Motor Operating at High Chamber Pressures (SQUID) | Technical Report  | 1949 | Purdue University             | C. F. Warner and M. J. Zucrow |
| 18 | Project SQUID Library Abstracts Issue 9  |                   | 1951 |                               |                               |
| 18 | Project SQUID Status Report May 1946 - May 1948  | Status Report     | 1948 |                               |                               |
| 18 | Review of the SQUID Program and Recommendations for Year Beginning September 30, 1949                        | Progress Report   | 1949 | Atlantic Research Corporation |                               |
| 18 | Project SQUID Call for Proposals 1979-1980   | Proposals         | 1978 | Purdue University             |                               |
| 18 | Annual Meeting of Project SQUID 20 March 1967 to 22 March 1967   | Meeting Abstracts | 1967 |                               |                               |
| 18 | Project SQUID Annual Meeting October 17-20, 1978   | Meeting Abstracts | 1978 |                               |                               |
| 18 | Project SQUID Status Report 1976-1977  | Status Report     | 1977 |                               |                               |
| 18 | Project SQUID Reporting Procedure  | Procedures        | 1976 | Purdue University             |                               |
| 18 | Project SQUID Call for Proposals 1977-1978   | Proposals         | 1976 | Purdue University             |                               |
| 18 | Project SQUID Annual Meeting March 1-3, 1976   | Meeting Abstracts | 1976 |                               |                               |
| 18 | Project SQUID Annual Meeting March 10-13, 1975   | Meeting Abstracts | 1975 |                               |                               |
| 18 | Project SQUID Call for Proposals 1974-1975   | Proposals         | 1973 | Purdue University             |                               |
| 18 | Project SQUID Status Report 1974-1975  | Status Report     | 1975 | Purdue University             |                               |

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| 18 | Project SQUID Annual Meeting March 5-7, 1974   | Meeting Abstracts | 1974 |   |   |                                     |
| 18 | Project SQUID Annual Meeting March 13-15, 1973   | Meeting Abstracts | 1973 |   |   |                                     |
| 18 | Project SQUID Status Report 1972-1973  | Status Report     | 1973 | Purdue University                                   |   |                                     |
| 18 | Project SQUID Status Report 1971-1972  | Status Report     | 1972 | Purdue University                                   |   |                                     |
| 18 | Project SQUID Annual Meeting March 14-16, 1972   | Meeting Abstracts | 1972 | Purdue University                                   |   |                                     |
| 18 | Project SQUID Final Report 1961-1968   | Final Report      | 1975 | University of Virginia                              | John E. Scott, Jr.  |                                     |
| 18 | Some Calculations by the Crocco-Lees and Other Methods of Interactions between Shock Waves and Laminar Boundary Layers, including Effects of Heat Transfer and Suction (SQUID) | Technical Report  | 1960 | Southampton University and N.P.L                    | K.N.C. Bray, G. E. Gadd, and M. Woodger S. Lederman, A. Celentano, and J. Glaser        | Previously issued as A.R.C. 21, 834 |
| 18 | Flow Field Measurement using Raman and LDV Techniques (SQUID)  | Technical Report  | 1979 | Polytechnic Institute of New York                   |   | Duplicate                           |
| 18 | Shock Tube Studies of the $N_2O/CH_4/CO/Ar$ and $N_2O/C_2H_6/CO/Ar$ Systems (SQUID)  | Technical Report  | 1979 | University of Missouri                              | Anthony M. Dean and Ron L. Johnson Ashok K. Varma, Peter J. Mansfield, and Guido Sandri | Duplicate                           |
| 18 | Second-Order Closure Modeling of Variable Density Turbulent Flows (SQUID)  | Technical Report  | 1979 | Aeronautical Research Associates of Princeton, Inc. |   | Duplicate                           |
| 18 | Various Figures On Turbulent Flows with Fast Chemical Reactions Part I: The Closure Problem  | Technical Report  | 1972 | University of California, San Diego                 | Paul A. Libby   | Attached to Technical Report Cover  |



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| 18 | Renewal Proposal<br>On Turbulent Flows<br>with Fast Chemical<br>Reactions Part II: The<br>Distribution of<br>Reactants and<br>Products Near a<br>Reacting Surface<br>A Note on the<br>Interpretation of Base<br>Pressure | Proposals           |      | Martin Marietta<br>Corporation            | R. J.<br>Sanderson                        | Notes for<br>official copy?             |
| 18 | Measurements in<br>Supersonic Flows<br>1972 Annual SQUID<br>Meeting Consultants<br>Book  | Technical<br>Report | 1972 | University of<br>California, San<br>Diego | Carl H.<br>Gibson and<br>Paul A.<br>Libby |   |
| 18 | 1971 Annual SQUID<br>Meeting Consultants<br>Book   | Technical<br>Report | 1958 |   | R. C.<br>Hastings                         | Corporate<br>Author could<br>be U.D.C.? |
| 19 | 1973 Annual SQUID<br>Meeting Consultants<br>Book   | Consultants<br>Book | 1972 |   |   |   |
| 19 | 1974 Annual SQUID<br>Meeting Consultants<br>Book   | Consultants<br>Book | 1971 |   |   |   |
| 19 | 1974 Annual SQUID<br>Meeting Consultants<br>Book   | Consultants<br>Book | 1973 |   |   |   |
| 19 | 1974 Annual SQUID<br>Meeting Consultants<br>Book   | Consultants<br>Book | 1974 |   |   |   |
| 19 | 1975 Annual SQUID<br>Meeting Consultants<br>Book   | Consultants<br>Book | 1974 |   |   | Murthy's Set                            |
| 19 | SQUID<br>Communications June<br>1976 - December<br>1976 (SQUID CHRON)<br>SQUID   | Consultants<br>Book | 1975 |   |   |   |
| 19 | Communications<br>February 1973 -<br>February 1974 (IX<br>SQUID CHRON)<br>SQUID  |                     | 1976 |   |   | SQUID<br>Headquarters<br>Calendar       |
| 19 | Communications<br>March 1974 -<br>December 1974 (X<br>SQUID CHRON)<br>SQUID  |                     | 1974 |   |   |   |
| 20 | Communications<br>January 1975 - August<br>1975  |                     | 1975 |   |   |   |

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|    | SQUID  |                   |      |                                       |                              |           |
|    | Communications   |                   |      |                                       |                              |           |
| 20 | August 1975 - May 1976   |                   | 1976 |                                       |                              |           |
|    | Application of Well-Stirred Reactor Theory to the Prediction of Combustion Performance (SQUID) | Technical Report  | 1958 | Massachusetts Institute of Technology | Allan Hardy Bonnell          |           |
| 20 | Application of Well-Stirred Reactor Theory to the Prediction of Combustion Performance (SQUID) | Technical Report  | 1958 | Massachusetts Institute of Technology | Allan Hardy Bonnell          | Duplicate |
| 20 | Application of Well-Stirred Reactor Theory to the Prediction of Combustion Performance (SQUID) | Technical Report  | 1958 | Massachusetts Institute of Technology | Allan Hardy Bonnell          | Duplicate |
| 20 | Application of Well-Stirred Reactor Theory to the Prediction of Combustion Performance (SQUID) | Technical Report  | 1958 | Massachusetts Institute of Technology | Allan Hardy Bonnell          | Duplicate |
| 20 | Annual Meeting of Project SQUID 20   | Meeting Abstracts | 1967 | Purdue University                     |                              | Duplicate |
| 20 | March 1967 to 22 March 1967  |                   |      |                                       |                              |           |
| 20 | Thermal Conductivity of Fluids. Nitrogen Dioxide in the Liquid Phase (SQUID)                   | Technical Report  | 1956 | California Institute of Technology    | G. N. Richter and B. H. Sage |           |
| 20 | Project SQUID Proposed Research Program for Fiscal 1949  | Proposals         | 1948 |                                       |                              |           |
| 20 | Aerolacticity in Turbomachines: Proceedings of a Workshop Held on June 1-2, 72 (SQUID)         | Workshop          | 1972 |                                       | S. Fleeter                   |           |
| 20 | Workshop on Gas Turbine Combustor Design Problems May 31 - June 1, 1978                        | Workshop          | 1978 |                                       |                              |           |

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| 20 | Two-Dimensional<br>Supersonic Wind<br>Tunnel Simulation of<br>the Flow Over the<br>External Surface of<br>Decuted Bodies With<br>and Without Spillover<br>(SQUID)   | Technical<br>Report  | 1947 | Cornell<br>Aeronautical<br>Laboratory | M. Kamrass  |
| 20 | Development of High<br>Temperature<br>Metalloscope (SQUID)  | Technical<br>Report  | 1949 | Cornell<br>Aeronautical<br>Laboratory | E. H. Kinelski<br>George<br>Rudinger,<br>Jospeh<br>Logan, Jr.<br>and William<br>Dashifsky |
| 20 | Investigation of<br>Acoustic Jets Part 1<br>(SQUID)   | Technical<br>Report  | 1948 | Cornell<br>Aeronautical<br>Laboratory |   |
| 20 | Two-Dimensional<br>Supersonic Wind<br>Tunnel Investigations<br>of Flow in a Duct with<br>Fluctuating Exit<br>Pressure (SQUID)   | Technical<br>Report  | 1947 | Cornell<br>Aeronautical<br>Laboratory | M. Kamrass  |
| 20 | Annual Meeting of<br>Project SQUID 26<br>February 1968 to 28<br>February 1968   | Meeting<br>Abstracts | 1968 |                                       |   |
| 20 | Annual Meeting of<br>Project SQUID 10<br>March 1969 to 12<br>March 1969   | Meeting<br>Abstracts | 1969 |                                       |   |
| 20 | Transonic Flow<br>Problems in<br>Turbomachinery:<br>Proceedings of a<br>Workshop held on<br>February 11-12, 1976<br>(SQUID)   | Workshop             | 1976 |                                       | T. C.<br>Adamson<br>and M. F.<br>Platzer  |
| 20 | The Use of the Laser<br>Doppler Velocimeter<br>for Flow<br>Measurements:<br>Proceedings of a<br>Workshop Co-<br>Sponsored by the U.S.<br>Army Missile<br>Command Held at<br>Purdue University on<br>March 9-10, 1972<br>(SQUID) | Workshop             | 1972 |                                       | W. H.<br>Stevenson<br>and H. D.<br>Thompson   |

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|----|--|----------|------|---|-----------|
| 20 | Research in the Gas Dynamics of Jet Engines: Proceedings of a SQUID Workshop Held in Chicago, Illinois on December 4 and 5, 1969 (SQUID) Unsteady Flows in Jet Engines: Proceedings of a Workshop Held at United Aircraft Research Laboratories 11 and 12 July, 1974 (SQUID) Unsteady Flows in Jet Engines: Proceedings of a Workshop Held at United Aircraft Research Laboratories 11 and 12 July, 1974 (SQUID) Combustion Measurements in Jet Propulsion Systems: Proceedings of a Workshop held on May 22-23 1975 Turbulence in Internal Flows. Turbomachinery and Other Applications: Proceedings of a Workshop June 14-15, 1976 A Project SQUID Workshop: Engine-Airframe Integrations. Short-Haul Aircraft. A Project SQUID Workshop: Turbulence in Internal Flows. Turbomachinery and Other Engineering Applications A Project SQUID Workshop: Transonic Flow Problems in Turbomachinery A Project SQUID Workshop. Alternative Hydrocarbon Fuels: | Workshop | 1969 | R. Goulard and M. L'ecuyer                      |           |
|    |  | Workshop | 1974 | F. O. Carta                                     |           |
| 21 |  | Workshop | 1974 | F. O. Carta                                     | Duplicate |
| 21 |  | Workshop | 1975 | R. Goulard                                      |           |
| 21 |  | Workshop | 1976 | S. N. B. Murthy                                 |           |
| 21 |  | Workshop | 1977 | S. N. B. Murthy                                 |           |
| 21 |  | Workshop | 1977 | S. N. B. Murthy T. C. Adamson and M. F. Platzer | Book Copy |
| 21 |  | Workshop | 1976 | Craig T. Bowman and Jorgen Birkeland            | Book Copy |
| 21 |  | Workshop | 1978 |   |           |

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|    | Gas Turbine<br>Combustor Design<br>Problems:<br>Proceedings of a<br>Workshop held on<br>May 31 - June 1, 1978<br>(SQUID) | Workshop              | 1980 |   | Arthur H.<br>Lefebvre |
| 21 | Workshop on<br>Aerodynamics of Base<br>Combustion May 29-<br>30, 1974 (SQUID)  | Workshop              | 1974 | Atlantic Research<br>Corporation,<br>Polytechnic<br>Institute of<br>Brooklyn,<br>University of<br>California at<br>Berkeley, Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Dartmouth<br>College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>Northwestern<br>University,<br>Princeton<br>University, Purdue<br>University, United<br>States Bureau of<br>Mines |                       |
| 21 | Project SQUID Semi-<br>Annual Progress<br>Report April 1, 1953   | Semi-Annual<br>Report | 1953 |   | Copy 3                |

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| 21 | Project SQUID Semi-Annual Progress<br>Report April 1, 1953 | Semi-Annual<br>Report | 1953 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell Aeronautical<br>Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines | Copy 2 |
| 21 | Project SQUID Semi-Annual Progress<br>Report April 1, 1953 | Semi-Annual<br>Report | 1953 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell Aeronautical<br>Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines | Copy 1 |

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| 21 | Project SQUID Semi-Annual Progress<br>Report October 1, 1953 | Semi-Annual Report | 1953 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell Aeronautical<br>Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines | Copy 2 |
| 21 | Project SQUID Semi-Annual Progress<br>Report October 1, 1953 | Semi-Annual Report | 1953 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell Aeronautical<br>Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines | Copy 3 |

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| 21 | Project SQUID Semi-Annual Progress<br>Report October 1, 1953 | Semi-Annual Report | 1953 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell<br>Aeronautical Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>University of Michigan,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United | Copy 1 |
| 21 | Project SQUID Semi-Annual Progress<br>Report April 1, 1954   | Semi-Annual Report | 1954 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell<br>Aeronautical Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>University of Michigan,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United | Copy 3 |



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| 21 | Determination of the<br>Dynamic Response of<br>Pressure Transducers<br>by Means of the High<br>Pressure Shock Tube<br>(SQUID) | Technical<br>Report   | 1956 | Purdue University<br>Atlantic Research<br>Corporation,<br>Polytechnic<br>Institute of<br>Brooklyn,<br>University of<br>California at<br>Berkeley, Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Dartmouth<br>College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Northwestern<br>University,<br>Princeton<br>University, Purdue<br>University, United<br>States Bureau of<br>Mines | M. J. Zucrow<br>and J. R.<br>Osborn |        |
| 21 | Project SQUID Semi-<br>Annual Progress<br>Report April 1, 1954  | Semi-Annual<br>Report | 1954 |  |                                     | Copy 2 |

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| 21 | Project SQUID Semi-Annual Progress Report April 1, 1954<br>W.B. Roberts | Semi-Annual Report | 1954 |   | Copy 1            |
| 22 | Proposal and Resume (SQUID)   | Proposals          | 1976 | University of Notre Dame  | W. B. Roberts     |
| 22 | N. Chigier Proposal and Letters (SQUID)                                 | Proposals          | 1976 | University of Sheffield   | N. Chigier        |
| 22 | W. A. Sanders Proposal (SQUID)  | Proposals          | 1976 | Catholic University of America  | W. A. Sanders     |
| 22 | C. K. Law Proposal (SQUID)  | Proposals          | 1977 | Northwestern University   | C. K. Law         |
| 22 | E. R. Lindgren Proposal (SQUID)   | Proposals          | 1977 | University of Florida   | E. R. Lindgren    |
| 22 | W. A. Sirignano Proposal (SQUID)  | Proposals          | 1977 | Princeton University  | W. A. Sirignano   |
| 22 | Dr. K. Schofield Proposal (SQUID)                                       | Proposals          | 1977 | ChemData Research   | Dr. K. Schofield  |
| 22 | W. A. Sirignano Proposals and Communications (SQUID)                    | Proposals          | 1977 | Princeton University  | W. A. Sirignano   |
| 22 | R. D. Flack Proposal (SQUID)  | Proposals          | 1977 | University of Virginia  | R. D. Flack       |
| 22 | Dr. W. B. Roberts Proposal (SQUID)                                      | Proposals          | 1977 | University of Notre Dame  | Dr. W. B. Roberts |

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| 22 | Dr. L. K. Isaacson<br>Proposal (SQUID)                        | Proposals | 1977      | University of Utah   | Dr. L. K.<br>Isaacson                          |
| 22 | S. P.Tang Proposal<br>(SQUID)                                 | Proposals | 1977      | TRW Systems  | S. P. Tang                                     |
| 22 | Dr. John F. Foss<br>Proposal (SQUID)                          | Proposals | 1977      | Michigan State<br>University<br>Virginia<br>Polytechnic<br>Institute and<br>Virginia State<br>University | Dr. John F.<br>Foss                            |
| 22 | Dr. Eugene F. Brown<br>Proposal (SQUID)                       | Proposals | 1977      |  | Dr. Eugene<br>F. Brown                         |
| 22 | Prof. Rishi Raj<br>Proposals and<br>Communications<br>(SQUID) | Proposals | 1978      | City University of<br>New York   | Prof. Rishi<br>Raj                             |
| 22 | David Y.S. Lou<br>Proposal (SQUID)                            | Proposals | 1977      | University of<br>Delaware  | David Y.S.<br>Lou                              |
| 22 | Charles C. Hwang<br>Proposals (SQUID)                         | Proposals | 1977-1978 | University of<br>Pittsburgh  | Charles C.<br>Hwang                            |
| 22 | Dr. John W. Daily<br>Proposal (SQUID)                         | Proposals | 1977      | University of<br>California,<br>Berkeley<br>Naval  | Dr. John W.<br>Daily                           |
| 22 | Dr. R.P. Shreeve<br>Proposal (SQUID)                          | Proposals | 1977      | Postgraduate<br>School   | Dr. R.P.<br>Shreeve                            |
| 22 | Dr. E. G. Plett<br>Proposal (SQUID)                           | Proposals | 1977      | Carleton University  | Dr. E. G.<br>Plett                             |
| 22 | Dr. James S. T'ien<br>Proposal (SQUID)                        | Proposals | 1977      | Case Western<br>Reserve University   | Dr. James S.<br>T'ien                          |
| 22 | William J. Miller and<br>Roger D. Thorpe<br>Proposal (SQUID)  | Proposals | 1977      | AeroChem<br>Research<br>Laboratories, Inc.   | William J.<br>Miller and<br>Roger D.<br>Thorpe |
| 22 | A. K. Oppenheim<br>Proposal (SQUID)                           | Proposals | 1977      | University of<br>California  | A. K.<br>Oppenheim                             |

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| 22 | Project SQUID Semi-<br>Annual Progress<br>Report 1 October<br>1969  | Semi-Annual<br>Report | 1969 |   |
| 22 | Project SQUID Semi-<br>Annual Progress<br>Report October 1,<br>1952 | Semi-Annual<br>Report | 1952 |   |

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| 22 | Project SQUID Semi-Annual Progress Report October 1, 1957 | Semi-Annual Report | 1957 | Atlantic Research Corporation,<br>California Institute of Technology,<br>Catholic University, Cornell<br>Aeronautical Laboratory,<br>University of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of Technology,<br>University of Michigan,<br>Northwestern University,<br>Pennsylvania University,<br>Princeton University, Purdue University,<br>Stanford University, United States Bureau of Mines, University of Wisconsin | Copy 1 |
| 22 | Project SQUID Semi-Annual Progress Report October 1, 1957 | Semi-Annual Report | 1957 | Atlantic Research Corporation,<br>California Institute of Technology,<br>Catholic University, Cornell<br>Aeronautical Laboratory,<br>University of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of Technology,<br>University of Michigan,<br>Northwestern University,<br>Pennsylvania University,<br>Princeton University, Purdue University,<br>Stanford University, United States Bureau of Mines, University of Wisconsin | Copy 2 |

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| 22 | Project SQUID Semi-Annual Progress Report April 1, 1957   | Semi-Annual Report | 1957 | Atlantic Research Corporation,<br>Polytechnic Institute of Brooklyn,<br>California Institute of Technology,<br>Catholic University, Cornell<br>Aeronautic Laboratory, Inc.,<br>University of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of Technology,<br>University of Michigan, Naval Research Laboratory,   | Copy 2 |
| 22 | Project SQUID Semi-Annual Progress Report October 1, 1956 | Semi-Annual Report | 1956 |  | Copy 1 |

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| 22 | Summary of the Laser Raman Workshop on the Measurement of Gas Properties (SQUID)  | Technical Report | 1974 | General Electric Company        | Marshall Lapp and C. M. Penney<br>C. M. Kelley, R. E. Williams, and A. Takemoto | Duplicate |
| 22 | Combustion Kinetics of Particulate Boron (SQUID)<br>Diffusion and Heterogeneous Reactions XII.<br>Diffusion Coefficient Measurements of Atomic Oxygen Through Various Gases (SQUID) | Technical Report | 1970 | University of Denver            | Robert S. Yolles and Henry Wise   | Duplicate |
| 22 | Rate of Growth of Magnesium Oxide Deposits Formed by Surface Reaction of Magnesium Vapor and Oxygen (SQUID)   | Technical Report | 1967 | Stanford Research Institute     |   |           |
| 22 |   | Technical Report | 1966 | Cornell Aeronautical Laboratory | G. H. Markstein   |           |

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| 22 | Diffusion and Heterogeneous Reaction XI. Theoretical Analysis of Nonsteady-State Kinetics (SQUID)   | Technical Report | 1967 | Stanford Research Institute           | Y. Rajapakse and H. Wise                              | Duplicate          |
| 22 | Chemi-Ionizaion in the Reaction Between C <sub>2</sub> F <sub>4</sub> and Atomic Nitrogen-Atomic Oxygen Mixtures (SQUID)                          | Technical Report | 1966 | Aerochem Research Laboratories, Inc.  | Arthur Fontijn and Pieter H. Vree                     |                    |
| 22 | Diffusion and Heterogeneous Reaction VIII. Heat Transfer in Reacting Gases (SQUID)  | Technical Report | 1965 | Stanford Research Institute           | Henry Wise, Bernard J. Wood, and Yapa Rajapakse K. M. | Duplicate - Copy 1 |
| 22 | Catalytic and Chemical Reaction Rates of Hydrogen Atoms with Germanium (SQUID) Mechanism of CN and NH   | Technical Report | 1965 | Stanford Research Institute           | Sancier, S. R. Morrison, and H. U. D. Wiesendanger    | Duplicate - Copy 2 |
| 22 | Chemiluminescence in the N-O-C <sub>2</sub> H <sub>2</sub> and O-NO-C <sub>2</sub> H <sub>2</sub> Reactions (SQUID)                               | Technical Report | 1965 | Aerochem Research Laboratories, Inc.  | A. Fontijn  | Duplicate - Copy 2 |
| 22 | Mechanism of Chemiluminescence of Atomic Oxygen-Hydrocarbon Reactions. Formation of the Vaidya Hydrocarbon Flame Bands Emitter (SQUID)            | Technical Report | 1965 | Aerochem Research Laboratories, Inc.  | Arthur Fontijn  | Duplicate - Copy 2 |
| 22 | Diffusion and Heterogeneous Reactions VII. Effect of Different Catalyst Geometries (SQUID)  | Technical Report | 1965 | Stanford Research Institute           | C. M. Ablow, H. Motz, and H. Wise                     | Copy 2             |
| 22 | Reactions of Gaseous Ions XV. CH <sub>4</sub> + 1% C <sub>2</sub> H <sub>6</sub> and CH <sub>4</sub> + 1% C <sub>3</sub> H <sub>8</sub> * (SQUID) | Technical Report | 1965 | Esso Research and Engineering Company | M. S. B. Munson and F. H. Field                       | Duplicate - Copy 1 |
| 22 | Reactions of Gaseous Ions. XIV. Mass Spectrometric Studies of Methane at Pressures to 2 TORR (SQUID)  | Technical Report | 1965 | Esso Research and Engineering Company | F. H. Field and M. S. B. Munson                       | Duplicate - Copy 2 |

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| 22 | Proton Affinities and the Methyl Inductive Effect (SQUID)  | Technical Report | 1965 | Humble Oil & Refining Company        | M. S. B. Munson                                       | Duplicate - Copy 1 |
| 22 | Dynamics of Gas-Particle Mixtures with Finite Particle Volume (SQUID)  | Technical Report | 1964 | Cornell Aeronautical Laboratory      | George Rudinger                                       | Duplicate - Copy 1 |
| 22 | Reactions of Gaseous Ions XIV. High Pressure Mass Spectrometric Study of Alkanes (SQUID)                           | Technical Report | 1963 | Humble Oil & Refining Company        | M. S. B. Munson, J. L. Franklin, and F. H. Field      | Duplicate - Copy 2 |
| 22 | Ionic Reactions in Gaseous Acetylene (SQUID)   | Technical Report | 1964 | Humble Oil & Refining Company        | M. S. B. Munson                                       | Duplicate - Copy 2 |
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| 22 | Negative Ion Formation in the Atomic Oxygen-Acetylene Reaction (SQUID)   | Technical Report | 1964 | AeroChem Research Laboratories, Inc. | William J. Miller and A. Fontijn                      | Duplicate - Copy 2 |
| 22 | Chemical Kinetics and Hypersonic Flow (SQUID)  | Technical Report | 1964 | Pennsylvania State University        | Howard B. Palmer                                      | Duplicate - Copy 1 |
| 22 | Diffusion and Heterogeneous Reaction VI. Surface Recombination in the Presence of Distributed Atom Sources (SQUID) | Technical Report | 1964 | Stanford Research Institute          | Henry Wise, Clarence M. Ablow, and Kenneth M. Sancier | Duplicate - Copy 2 |
| 22 | Analysis of Nonsteady Two-Phase Flow (SQUID)   | Technical Report | 1964 | Cornell Aeronautical Laboratory      | George Rudinger and Angela Chang                      | Duplicate - Copy 1 |
| 22 | Ion-Molecule Reactions in Methane-Oxygen and Acetylene-Oxygen Systems (SQUID)                                      | Technical Report | 1964 | Humble Oil & Refining Company        | J. L. Franklin and M. S. B. Munson                    | Duplicate - Copy 2 |
| 22 | Techniques for the Study of Combustion of Beryllium and Aluminum Particles (SQUID)                                 | Technical Report | 1964 | Atlantic Research Corporation        | A. Macek, R. Friedman, and J. M. Semple               | Copy 1             |
| 22 | Reactions of Gaseous Ions XIII. The System   | Technical Report | 1963 | Humble Oil & Refining Company        | M. S. B. Munson, F.                                   | Copy 1             |

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|    | Methane-Hydrogen<br>(SQUID)  |                       |      |  | H. Field, and<br>J. L. Franklin                              |                       |
| 22 | Diffusion and<br>Heterogeneous<br>Reaction V. Transition<br>from Surface to<br>Diffusion-Controlled<br>Process During Atom<br>Recombination<br>(SQUID) | Technical<br>Report   | 1963 | Stanford Research<br>Institute   | Henry Wise,<br>Clarence M.<br>Ablow, and<br>Dan J.<br>Schott | Duplicate -<br>Copy 2 |
| 22 | Reactions of Gaseous<br>Ions. XII. High<br>Pressure Mass<br>Spectrometric Study<br>of Methane (SQUID)  | Technical<br>Report   | 1963 | Humble Oil &<br>Refining Company<br>Atlantic Research<br>Corporation,<br>Polytechnic<br>Institute of<br>Brooklyn,<br>California Institute<br>of Technology,<br>Catholic<br>University, Cornell<br>Aeronautic<br>Laboratory, Inc.,<br>University of<br>Delaware,<br>Experiment, Inc.,<br>Johns Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan, Naval<br>Research<br>Laboratory,<br>Northwestern<br>University,<br>Princeton<br>University, Purdue<br>University, United<br>States Bureau of<br>Mines, University<br>of Wisconsin | F. H. Field, J.<br>L. Franklin,<br>and M. S. B.<br>Munson    | Duplicate -<br>Copy 1 |
| 23 | Project SQUID Semi-<br>Annual Progress<br>Report April 1, 1956   | Semi-Annual<br>Report | 1956 |  |  | Copy 1                |

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|----|--|--------------------|------|---|--------|
|    |  |                    |      | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell Aeronautic<br>Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>University of Michigan, Naval<br>Research Laboratory,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines, University of Wisconsin |        |
| 23 | Project SQUID Semi-Annual Progress<br>Report October 1, 1965 | Semi-Annual Report | 1955 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell Aeronautic<br>Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>University of Michigan, Naval<br>Research Laboratory,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines, University of Wisconsin | Copy 1 |
| 23 | Project SQUID Semi-Annual Progress<br>Report October 1, 1955 | Semi-Annual Report | 1955 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley, Cornell Aeronautic<br>Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>University of Michigan, Naval<br>Research Laboratory,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines, University of Wisconsin | Copy 2 |

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| 23 | Project SQUID Semi-Annual Progress<br>Report April 1, 1955   | Semi-Annual<br>Report | 1955 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley,<br>California Institute of Technology,<br>Cornell Aeronautic Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>University of Michigan,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines, University of Wisconsin | Copy 1 |
| 23 | Project SQUID Semi-Annual Progress<br>Report October 1, 1954 | Semi-Annual<br>Report | 1954 | Atlantic Research Corporation,<br>Polytechnic Institute of<br>Brooklyn,<br>University of California at<br>Berkeley,<br>California Institute of Technology,<br>Cornell Aeronautic Laboratory, Inc.,<br>Dartmouth College, University<br>of Delaware,<br>Experiment, Inc.,<br>Johns Hopkins University,<br>Massachusetts Institute of<br>Technology,<br>University of Michigan,<br>Northwestern University,<br>Princeton University, Purdue<br>University, United States Bureau of<br>Mines, University of Wisconsin | Copy 1 |

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Report October 1,  
1962

Semi-Annual  
Report

1962

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Report October 1,  
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23      Project SQUID Semi-  
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Report April 1, 1962      Semi-Annual  
Report

1962

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Report April 1, 1962      Semi-Annual  
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| 23 | Project SQUID Semi-Annual Progress Report October 1, 1961 | Semi-Annual Report | 1961 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>The Catholic<br>University of<br>America, Cornell<br>Aeronautic<br>Laboratory, Inc.,<br>University of<br>Delaware,<br>University of<br>Illinois, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Minnesota,<br>Pennsylvania State<br>University,<br>Princeton<br>University,<br>Reactions Motors<br>Division, Thiokol<br>Chemical<br>Corporation,<br>William Marsh<br>Rice University,<br>Stanford Research<br>Institute, United<br>States Bureau of<br>Mines, University<br>of Virginia |
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| 23 | Project SQUID Semi-Annual Progress Report April 1, 1961 | Semi-Annual Report | 1961 | Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>The Catholic<br>University of<br>America, Cornell<br>Aeronautic<br>Laboratory, Inc.,<br>University of<br>Delaware,<br>University of<br>Illinois, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Minnesota,<br>Pennsylvania State<br>University,<br>Princeton<br>University,<br>Reactions Motors<br>Division, Thiokol<br>Chemical<br>Corporation,<br>William Marsh<br>Rice University,<br>Stanford Research<br>Institute, United<br>States Bureau of<br>Mines, University<br>of Virginia |
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| 23 | Project SQUID Semi-Annual Progress Report October 1, 1960 | Semi-Annual Report | 1960 | Atlantic Research Corporation,<br>California Institute of Technology, The<br>Catholic University of America, Cornell<br>Aeronautic Laboratory, Inc.,<br>University of Delaware, The<br>Franklin Institute, Johns Hopkins<br>University, Massachusetts<br>Institute of Technology, University of<br>Minnesota, Pennsylvania State<br>University, Princeton<br>University, William Marsh Rice<br>University, Stanford Research<br>Institute, United States Bureau of<br>Mines, University of Virginia<br>Atlantic Research Corporation,<br>California Institute of Technology, The<br>Catholic University of America, Cornell<br>Aeronautic Laboratory, Inc.,<br>University of Delaware, The<br>Franklin Institute, Johns Hopkins<br>University, Massachusetts<br>Institute of Technology, University of<br>Minnesota, Pennsylvania State<br>University, Princeton<br>University, William Marsh Rice<br>University, | Copy 2 |
| 23 | Project SQUID Semi-Annual Progress Report October 1, 1960 | Semi-Annual Report | 1960 | Atlantic Research Corporation,<br>California Institute of Technology, The<br>Catholic University of America, Cornell<br>Aeronautic Laboratory, Inc.,<br>University of Delaware, The<br>Franklin Institute, Johns Hopkins<br>University, Massachusetts<br>Institute of Technology, University of<br>Minnesota, Pennsylvania State<br>University, Princeton<br>University, William Marsh Rice<br>University,  | Copy 1 |

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| 23 | Project SQUID Semi-<br>Annual Progress<br>Report April 1, 1960      | Semi-Annual<br>Report | 1960 | Atlantic Research<br>Corporation,<br>California Institute<br>of Technology, The<br>Catholic University<br>of America, Cornell<br>Aeronautic<br>Laboratory, Inc.,<br>University of<br>Delaware,<br>Experiment Inc.,<br>The Franklin<br>Institute, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>University of<br>Minnesota,<br>Pennsylvania State<br>University,<br>Princeton  | Copy 2 |
| 23 | Project SQUID Semi-<br>Annual Progress<br>Report October 1,<br>1959 | Semi-Annual<br>Report | 1959 |  | Copy 1 |

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Report October 1,  
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| 23 | Project SQUID Semi-Annual Progress Report April 1, 1959 | Semi-Annual Report | 1959 | Atlantic Research Corporation,<br>California Institute of Technology, The Catholic University of America, Cornell Aeronautic Laboratory, Inc., University of Delaware, Experiment Inc., Fairchild Engine Division, The Franklin Institute, Johns Hopkins University, Massachusetts Institute of Technology, University of Michigan, University of Minnesota, Pennsylvania State University, Princeton University, The Rice Institute, Stanford Research Institute, United States Bureau of Mines |
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Semi-Annual Report

1958

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Project SQUID Semi-  
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Report October 1,  
1958

Semi-Annual  
Report

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| 23 | Project SQUID Semi-Annual Progress Report April 1, 1958 | Semi-Annual Report | 1958 | Atlantic Research Corporation,<br>California Institute of Technology, The Catholic University of America, Cornell Aeronautical Laboratory, Inc., University of Delaware, Experiment, Inc., The Johns Hopkins University, Massachusetts Institute of Technology, University of Michigan, Northwestern University, Pennsylvania State University, Princeton University, Purdue University, Stanford Research Institute, United States Bureau of Mines, University of Wisconsin | Copy 2 |
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| 23 | Project SQUID Semi-Annual Progress Report April 1, 1958 | Semi-Annual Report | 1958 | Atlantic Research Corporation,<br>California Institute of Technology, The Catholic University of America, Cornell Aeronautical Laboratory, Inc., University of Delaware, Experiment, Inc., The Johns Hopkins University, Massachusetts Institute of Technology, University of Michigan, Northwestern University, Pennsylvania State University, Princeton University, Purdue University, Stanford Research Institute, United States Bureau of Mines, University of Wisconsin | Copy 1 |
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| 23 | Project SQUID Semi-<br>Annual Progress<br>Report 1 April 1971 | Semi-Annual<br>Report | 1971 |   | Duplicate |
| 23 | Project SQUID Semi-<br>Annual Progress<br>Report 1 April 1965 | Semi-Annual<br>Report | 1965 |   | Copy 1    |

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Report October 1,  
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Semi-Annual  
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| 23 | Project SQUID Semi-Annual Progress Report October 1, 1964 | Semi-Annual Report | 1964 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Aeronautical<br>Research<br>Association of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>University of<br>California<br>(Berkeley), Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Humble Oil and<br>Refining Company,<br>University of<br>Illinois, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>Princeton<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia<br>Aerochem<br>Research<br>Laboratories, Inc.,<br>Aeronautical<br>Research<br>Association of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>University of<br>California<br>(Berkeley), Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Humble Oil and<br>Refining Company,<br>University of<br>Illinois, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of | Copy 1 |
| 23 | Project SQUID Semi-Annual Progress Report April 1, 1964   | Semi-Annual Report | 1964 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Aeronautical<br>Research<br>Association of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>University of<br>California<br>(Berkeley), Cornell<br>Aeronautical<br>Laboratory, Inc.,<br>Humble Oil and<br>Refining Company,<br>University of<br>Illinois, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of  | Copy 2 |

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| 23 | Project SQUID Semi-<br>Annual Progress<br>Report October 1,<br>1963 | Semi-Annual<br>Report | 1963 | Copy 2   |  |
| 23 | Project SQUID Semi-<br>Annual Progress<br>Report April 1, 1963      | Semi-Annual<br>Report | 1963 | Copy 1   |  |

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Project SQUID Semi-  
Annual Progress  
Report 1 October  
1966

Semi-Annual  
Report

1966



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| 23 | Project SQUID Semi-<br>Annual Progress<br>Report 1 April 1966 | Semi-Annual<br>Report | 1966 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |
| 23 | Project SQUID Semi-<br>Annual Progress<br>Report 1 April 1966 | Semi-Annual<br>Report | 1966 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia |

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| 23 | Project SQUID Semi-Annual Progress Report 1 October 1965 | Semi-Annual Report | 1965 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Esso Research and<br>Engineering<br>Company, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia<br>Aerochem<br>Research<br>Laboratories, Inc.,<br>Aeronautical<br>Research<br>Associates of<br>Princeton, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Esso Research and<br>Engineering<br>Company, Johns<br>Hopkins<br>University,<br>Massachusetts<br>Institute of<br>Technology,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br> | Copy 1 |
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24 Project SQUID Semi-Annual Progress Report 1 May 1970 Semi-Annual Report 1970

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| 24 | Project SQUID Semi-Annual Progress Report 1 April 1967 | Semi-Annual Report | 1967 |  |           |
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| 24 | Project SQUID Semi-<br>Annual Progress<br>Report 1 October<br>1966                           | Semi-Annual<br>Report | 1966 | Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia<br>Aerochem<br>Research<br>Laboratories, Inc.,<br>Atlantic Research<br>Corporation,<br>Brown University,<br>Cornell Aeronautic<br>Laboratory, Inc.,<br>Georgia Institute<br>of Technology,<br>University of<br>Illinois,<br>Massachusetts<br>Institute of<br>Technology,<br>University of<br>Michigan,<br>Princeton<br>University, Rice<br>University,<br>Stanford Research<br>Institute,<br>University of<br>Virginia | Copy 2 |
| 24 | Project SQUID Semi-<br>Annual Progress<br>Report 1 October<br>1966                           | Semi-Annual<br>Report | 1966 | Internal Ballistics<br>Laboratory of the<br>U. S. Army<br>Aberdeen<br>Research and   | Copy 1 |
| 24 | Deflagration Limits of<br>Composite Solid<br>Propellants - A<br>Literature Review<br>(SQUID) | Technical<br>Report   | 1972 | J. F.<br>Andrews   |        |



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| 24 | An Experimental Investigation of Mixing in Two-Dimensional Turbulent Shear Flows with Applications to Diffusion-Limited Chemical Reactions (SQUID) | Technical Report   | 1976 | California Institute of Technology<br>Aerochem Research Laboratories, Inc.,<br>Aeronautical Research Associates of Princeton, Inc.,<br>California Institute of Technology,<br>Colorado State University,<br>University of Colorado, General Electric Company,<br>Massachusetts Institute of Technology,<br>Michigan State University,<br>University of Michigan,<br>University of Missouri,<br>Polytechnic Institute of New York, Pennsylvania State University,<br>University of Southern California,<br>Southern Methodist University,<br>Stanford University, United Technologies Research Center,<br>Virginia Polytechnic | John Harrison Konrad | Duplicate |
| 24 | Project SQUID Semi-Annual Progress Report 1 October 1977   | Semi-Annual Report | 1977 |   |                      |           |

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Report 1 October  
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| 24 | Project SQUID Semi-<br>Annual Progress<br>Report 1 April 1975 | Semi-Annual<br>Report | 1975 |
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| 24 | Project SQUID Semi-<br>Annual Progress<br>Report 1 October<br>1973 | Semi-Annual<br>Report | 1973 |   |

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| 24 | Project SQUID Semi-<br>Annual Progress<br>Report 1 October<br>1971   | Semi-Annual<br>Report | 1971 |  |                                     |           |
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|    | Propulsion Engines<br>(SQUID)  |                     |      |                   |   |                                 |
| 24 | Estimated<br>Performance of<br>Hydrocarbon-White<br>Fuming Nitric Acid<br>Propellants (SQUID)                          |                     | 1950 | Purdue University | M. J. Zucrow<br>and C. H.<br>Trent<br>Thomas R.<br>Bump and<br>Wilmer L.<br>Sibbitt | Not released<br>for publication |
| 24 | Thermal Properties of<br>Aqueous Nitric Acid<br>Solutions (SQUID)  | Technical<br>Report |      | Purdue University | Thomas R.<br>Bump and<br>Wilmer L.<br>Sibbitt                                       |                                 |
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| 24 | Thermal Properties of<br>Aqueous Nitric Acid<br>Solutions (SQUID)  | Technical<br>Report |      | Purdue University | Thomas R.<br>Bump and<br>Wilmer L.<br>Sibbitt                                       | Duplicate                       |
| 24 | Research in Film<br>Cooling (SQUID)  | Technical<br>Report | 1957 |                   | A. R.<br>Graham   |                                 |
| 24 | Research in Film<br>Cooling (SQUID)  | Technical<br>Report | 1957 |                   | A. R.<br>Graham   | Duplicate                       |
| 24 | The Determination of<br>Thermal Entrance<br>Lengths for Gases in<br>Turbulent Flow in<br>Smooth Round Ducts<br>(SQUID) | Technical<br>Report | 1957 | Purdue University | H. Wolf and<br>J. H. Lehman   |                                 |
| 24 | The Determination of<br>Thermal Entrance<br>Lengths for Gases in<br>Turbulent Flow in<br>Smooth Round Ducts<br>(SQUID) | Technical<br>Report | 1957 | Purdue University | H. Wolf and<br>J. H. Lehman   | Duplicate                       |
| 24 | 1st Semi-Annual<br>Status Report for<br>Heat Transfer to<br>Gases Bubbling<br>Through Liquid Beds<br>(SQUID)           | Technical<br>Report | 1961 |                   | Mel L<br>Ecuyer and<br>C. F. Warner   |                                 |
| 24 | 1st Semi-Annual<br>Status Report for<br>Heat Transfer to<br>Gases Bubbling<br>Through Liquid Beds<br>(SQUID)           | Technical<br>Report | 1961 |                   | Mel L<br>Ecuyer and<br>C. F. Warner   | Duplicate                       |
| 24 | 1st Semi-Annual<br>Status Report for<br>Heat Transfer to<br>Gases Bubbling   | Technical<br>Report | 1961 |                   | Mel L<br>Ecuyer and<br>C. F. Warner   | Duplicate                       |

## Through Liquid Beds (SQUID)

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| 24 | 1st Semi-Annual<br>Status Report for<br>Heat Transfer to<br>Gases Bubbling<br>Through Liquid Beds<br>(SQUID)              | Technical<br>Report | 1961 |                   | Mel L<br>Ecuyer and<br>C. F. Warner  | Duplicate                  |
| 24 | 1st Semi-Annual<br>Status Report for<br>Heat Transfer to<br>Gases Bubbling<br>Through Liquid Beds<br>(SQUID)              | Technical<br>Report | 1961 |                   | Mel L<br>Ecuyer and<br>C. F. Warner  | Duplicate                  |
| 24 | The Influence of<br>Gravity on the<br>Problem of Escape<br>from the Earth by<br>Rocket Jet Propulsion<br>(SQUID)          | Technical<br>Report | 1947 |                   | J. P. Sellers,<br>Jr.<br>E. L. Knuth<br>and C. M.<br>Beighley  | Duplicate                  |
| 24 | Film Cooling for<br>Rocket Motors<br>(SQUID)  |                     | 1950 |                   | E. L. Knuth<br>and C. M.<br>Beighley   |                            |
| 24 | Film Cooling for<br>Rocket Motors<br>(SQUID)  |                     | 1950 |                   | W. L.<br>Sibbitt, C. R.<br>St. Clair, T.<br>R. Bump, P.<br>F. Pagerey,<br>J. P. Kern,<br>and D. W.<br>Fyfe | Duplicate                  |
| 24 | Physical Properties of<br>Concentrated Nitric<br>Acid (SQUID)   |                     |      | Purdue University |  |                            |
| 24 | Progress Report on<br>the Stability of Liquid<br>Films for Cooling<br>Rocket Motors<br>(SQUID)                            |                     | 1950 | Purdue University | M. J.<br>Zucrow, C.<br>M. Beighley,<br>and E. Knuth  |                            |
| 24 | Feasibility Study of a<br>Tower to be Used for<br>Study of the<br>Evaporation Rate of a<br>Falling Liquid Drop<br>(SQUID) |                     | 1954 | Purdue University | Philip M.<br>Blair   |                            |
| 24 | Report on the<br>Development Work<br>Regarding Propulsion<br>Unit Done in 1940<br>(SQUID)                                 |                     |      |                   | Eldon Knuth  | Translation<br>from German |
| 24 | Preliminary<br>Investigation and<br>Evaluation of the<br>Coanda Effect<br>(SQUID)   | Technical<br>Report | 1947 | Purdue University | Luther J.<br>Boyer   |                            |

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| 24 | Preliminary Investigation and Evaluation of the Coanda Effect (SQUID)  | Technical Report | 1947 | Purdue University | Luther J. Boyer                | Duplicate |
| 24 | Preliminary Study of the Pressure Distribution in a Coanda Nozzle (SQUID)  | Technical Report | 1947 | Purdue University | C. R. Carpenter                |           |
| 24 | Effect of Tire Pressure on Fuel Consumption (SQUID)  | Technical Report | 1952 | Purdue University | Edward B. Dobbins              |           |
| 25 | A Review of the Published Literature Pertaining to the Annular, Two-Phase Flow of Liquid and Gaseous Media in a Pipe (SQUID)                             | Technical Report | 1958 | Purdue University | D. A. Charvonia                |           |
| 25 | A Study of the Mean Thickness of the Liquid Fil and the Characteristics of the Interfacial Surface in Annular, Two-Phase Flow in a Vertical Pipe (SQUID) | Technical Report | 1959 | Purdue University | D. A. Charvonia                |           |
| 25 | An Experimental Investigation of Transverse Mode Combustion Oscillations in Premixed Gaseous Bipropellant Rocket Motors (SQUID)                          | Technical Report | 1960 |                   | J. R. Osborn and J. M. Bonnell |           |
| 25 | Effects of Injection Location on Combustion Instability in Premixed Gaseous Bipropellant Rocket Motors (SQUID)   | Technical Report | 1961 |                   | J. R. Osborn and J. M. Bonnell |           |
| 25 | Studies in Hybrid Rocket Combustion (SQUID)  | Technical Report | 1963 |                   | R. J. Zabelka                  |           |
| 25 | Propulsion Requirements for Space Flight (SQUID)   | Technical Report | 1961 |                   | J. G. Skifstad                 |           |
| 25 | A Study of Thermal Ar-Jet Propulsion (SQUID)   | Technical Report | 1961 |                   | J. G. Skifstad                 |           |

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| 25 | Note on a Parametric Analysis of Thrust Vector Control by Secondary Gas Injection (SQUID)              | Technical Report | 1963 | H. D. Thompson, J. D. Hoffman, and S. N. B. Murthy |
| 25 | Investigation into the Transfer of Mass from a Liquid to a Growing Gas Bubble During Formation (SQUID) | Technical Report | 1963 | Roger D. Linquist                                  |
| 25 | Optical Spectroscopic Techniques to Determine the State of a Helium (Thermal) Plasma (SQUID)           | Technical Report | 1963 | W. L. Buehler                                      |
| 25 | Analysis of Three-Dimensional Flow in Rocket Motor Nozzles (SQUID)                                     | Technical Report | 1964 | H. D. Thompson                                     |
| 25 | An Investigation of the Magnetic Acceleration of Colloidal Suspensions in Air (SQUID)                  | Technical Report | 1964 | William F. Hassel                                  |
| 25 | An Investigation of the Magnetic Acceleration of Colloidal Suspensions in Air (SQUID)                  | Technical Report | 1964 | William F. Hassel and Donald F. Lilley             |
| 25 | 1964 Review of Research 10-11 December 1964 (SQUID)  | Technical Report | 1964 | Purdue University                                  |
| 25 | Measurements of mass Transfer and Pressure Drop in Annular, Two-Phase Flow (SQUID)                     | Technical Report | 1965 | R. S. Mezey  |
| 25 | 1966 Review of Research 5-6 April 1966 (SQUID)   | Technical Report | 1966 | Purdue University                                  |
| 25 | Small-Amplitude Combustion Pressure Oscillations in the Gas Rocket (SQUID)                             | Technical Report | 1966 | P. J. Geode M. Peter Scofield and Joe D. Hoffman   |
| 25 | An Analysis of Optimized Conical Thrust Nozzles (SQUID)  | Technical Report | 1966 | N. J. Barsic and C. M. Ehresman                    |
| 25 | Computer Programming for a Digital Data  | Technical Report | 1966 |  |

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|    | Acquisition System<br>(SQUID)  |                     |      |  |
| 25 | An Experimental<br>investigation of the<br>Velocity and<br>Temperature Profiles<br>in the Boundary Layer<br>Above an Unstable<br>Evaporating Film of<br>Liquid Under the<br>Influence of a Moving<br>Stream of Hot Gas<br>(SQUID)      | Technical<br>Report | 1966 | D. L.<br>Crabtree,<br>Jr., and C. F.<br>Warner   |
| 25 | 1967 Review of<br>Research 11-12 April<br>1967 (SQUID)   | Technical<br>Report | 1967 | Purdue University  |
| 25 | Parameters<br>Influencing Thrust<br>Vector Control by<br>Secondary Injection<br>(SQUID)  | Technical<br>Report | 1967 | G. L. Niksch<br>and R. D.<br>Guhse<br>David J.<br>Norton,<br>Bannister<br>W.<br>Farquhar,<br>and Joe D.<br>Hoffman<br>David J.<br>Norton, B.<br>W.<br>Farquhar,<br>and Joe D.<br>Hoffman<br>B. W.<br>Farquhar, D.<br>J. Norton,<br>and Joe D.<br>Hoffman |
| 25 | An Analytical<br>Investigation of the<br>Fluid Mechanics of<br>Rotating Flows in<br>Rocket Motors<br>(SQUID)   | Technical<br>Report | 1967 |  |
| 25 | An Analytical and<br>Experimental<br>Investigation of<br>Swirling Flow in<br>Nozzles (SQUID)   | Technical<br>Report | 1967 |  |
| 25 | An Experimental<br>Investigation of<br>Swirling Flow in<br>Nozzles<br>An Investigation of<br>Gas Turbine<br>Combustors with<br>High Inlet Air<br>Temperatures. First<br>Annual Report Part 1:<br>Analytical<br>Developments<br>(SQUID) | Technical<br>Report | 1968 |  |
| 26 |  | Technical<br>Report | 1970 | D. C.<br>Hammond,<br>Jr. and A. M.<br>Mellor   |

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|----|--|------------------|------|---------------------------------------|--------------------|
| 26 | A Two-Dimensional Study of the Jet Interaction and Downstream External Burning Resulting from a Gaseous Sidejet Expanding into a Supersonic Airstream (SQUID) Evaluation of Performance Characteristics of a High Chamber Pressure Oxidizer-Rich Stages combustion Gas Generator (SQUID) Velocity Profile and Mass Flow Measurements in a Spinning, Cold-flow Rocket Motor (SQUID) | Technical Report | 1970 | John C. Vaughan, III                  |                    |
| 26 | Staged Combustion Rocket Motor for Storable Propellants (SQUID)  | Technical Report | 1968 | R. L. Strickler and C. F. Warner      |                    |
| 26 | An Investigation of Gas Turbine Combustors with High Inlet Air Temperatures. First Annual Report Part 2: Experimental Developments (SQUID)   | Technical Report | 1968 | William M. Stanley and M. R. L'Ecuyer |                    |
| 26 | An Analytical Evaluation of the Co-Efficients of Heat Transfer and Friction for Air, Carbon Dioxide, and Helium in Incompressible Turbulent Flow (SQUID)   | Technical Report | 1970 | H. L. Dyer and C. F. Warner           |                    |
| 26 | An Analytical Evaluation of the Co-Efficients of Heat Transfer and Friction for Air, Carbon Dioxide, and Helium in Incompressible  | Thesis           | 1956 | T. H. Paxson and A. M. Mellor         |                    |
| 26 |  |                  |      | Jacobus M. Botje                      | 2 of 3             |
| 26 |  |                  |      | Jacobus M. Botje                      | 2 of 3 (Duplicate) |

Turbulent Flow  
(SQUID)

|    |  |                  |      |  |                    |
|----|--|------------------|------|--|--------------------|
| 26 | An Experimental and Analytical Investigation of Heat Transfer by Forced Convection in Turbulent Flow for Air, Carbon Dioxide, and Helium (SQUID) | Thesis           | 1956 | Jacobus M. Botje   | 1 of 3             |
| 26 | Heat Transfer and Fluid Friction in Gases (SQUID)  | Thesis           | 1956 | Jacobus M. Botje   | 3 of 3             |
| 26 | Heat Transfer and Fluid Friction in Gases (SQUID)  | Thesis           | 1956 | Jacobus M. Botje   | 3 of 3 (Duplicate) |
| 26 | Thrust Nozzle Optimization Including Boundary Layer Effects (SQUID)  | Technical Report | 1967 | M. Peter Scofield, H. Doyle Thompson, and Joe D. Hoffman |                    |
| 26 | An Analytical Study of the Scramjet Exhaust Expansion System (SQUID)   | Technical Report | 1968 | Joe D. Hoffman, H. Doyle Thompson, et. Al.               |                    |
| 26 | Thrust Nozzle Optimization for Non-Equilibrium, Chemically Reacting Flows Including Boundary Layer Effects (SQUID)                               | Technical Report | 1969 | Joe D. Hoffman, M. Peter Scofield, and H. Doyle Thompson |                    |
| 26 | Three-Dimensional Nozzle Design for Maximum Thrust Volume II. Computer Program Manual (SQUID)  | Technical Report | 1971 | Lynn E. Snyder and H. Doyle Thompson                     |                    |
| 26 | Maximum Thrust Nozzles for Rotational or Nonequilibrium Simple Dissociating Gas Flows Including Boundary Layer Effects Volume I. Theoretical     | Technical Report | 1969 | M. Peter Scofield and Joe D. Hoffman                     |                    |

Development and  
Results (SQUID)

|    |   |                  |      |   |
|----|---|------------------|------|---|
| 26 | A Parametric Study of Boundary Layer Effects on Maximum Thrust Nozzle Contours (SQUID)  | Technical Report | 1969 | Joe D. Hoffman, M. Peter Scofield, and H. Doyle Thompson Robery P. Humphreys, H. Doyle Thompson, and Joe D. Hoffman |
| 26 | Design of Maximum Thrust Plug Nozzles for Fixed Inlet Geometry (SQUID)  | Technical Report | 1970 |   |
| 26 | Design of Maximum Thrust Plug Nozzles with Variable Inlet Geometry Volume I. Theoretical Development and Results (SQUID)                            | Technical Report | 1970 | Gearold R. Johnson, H. Doyle Thompson, and Joe D. Hoffman   |
| 26 | An Analytical Study of the Scramjet Exhaust Expansion System Part III. Final Technical Report for Period 1 September 1968 to 31 August 1970 (SQUID) | Technical Report | 1970 | Joe D. Hoffman, H. Doyle Thompson, et. Al.  |
| 26 | Design of Maximum Thrust Plug Nozzles with Variable Inlet Geometry Volume II. Computer Program manual (SQUID)                                       | Technical Report | 1971 | Gearold R. Johnson, H. Doyle Thompson, and Joe D. Hoffman   |
| 26 | Three-Dimensional Nozzle Design for Maximum Thrust Volume I. Theoretical Development and Results (SQUID)  | Technical Report | 1970 | Lynn E. Snyder and H. Doyle Thompson  |

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| 26 | Design of Maximum Thrust Nozzles with Nonequilibrium, Chemically Reacting Flow Volume I. Theoretical Developments and Results (SQUID)              | Technical Report | 1971 | Allan A. Taylor and Joe D. Hoffman                        |
| 26 | The Analysis of Nonequilibrium, Chemically Reacting, Supersonic Flow in Three Dimensions Volume I. Theoretical Development and Results (SQUID)     | Technical Report | 1971 | Michael C. Cline and Joe D. Hoffman                       |
| 26 | Design of Maximum Thrust Nozzles for Gas-Particle Flows Volume I. Theoretical Development and Results (SQUID)                                      | Technical Report | 1971 | Arnold A. Elsbernd, Lt. Colonel, USAF, and Joe D. Hoffman |
| 26 | The Analysis of Nonequilibrium, Chemically Reacting, Supersonic Flow in Three Dimensions Volume II. Computer Program Manual (SQUID)                | Technical Report | 1971 | Michael C. Cline and Joe D. Hoffman                       |
| 26 | Design of Maximum Thrust Nozzles for Gas-Particle Flows Volume II. Computer Program Manual (SQUID)   | Technical Report | 1971 | Arnold A. Elsbernd, Lt. Colonel, USAF, and Joe D. Hoffman |
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| 26 | An Analytical Study of the Scramjet Exhaust Expansion System Part IV. Final Technical Report for Period 1 September 1970 to 31 August 1971 (SQUID) | Technical Report | 1971 | Joe D. Hoffman and H. Doyle Thompson                      |



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|----|---|---------------------|------|---|--|
| 26 | A Computer Program<br>for Three-<br>Dimensional<br>Supersonic Flow with<br>Arbitrarily Defined<br>Boundaries (SQUID)<br>Projectile Aft-Body<br>Drag Reduction by<br>Combined Boat-<br>Tailing and Base<br>Blowing (SQUID) | Technical<br>Report | 1972 |   | Brian A.<br>McIntyre<br>and H.<br>Doyle<br>Thompson                                  |
| 26 | Studies of Slurry<br>Fueled Propulsion<br>Systems Final<br>Progress Report<br>(SQUID)   | Technical<br>Report | 1976 | Air Force Aero-<br>Propulsion<br>Laboratory | L. Michael<br>Freeman<br>and Robert<br>H. Korkegi                                    |
| 26 | Studies of Slurry<br>Fueled Propulsion<br>Systems, Seventh<br>Semi-Annual Progress<br>Report (SQUID)  | Progress Report     | 1974 |   | A. Reese<br>and H. M.<br>Carbone   |
| 26 | Studies of Slurry<br>Fueled Propulsion<br>Systems, Sixth<br>Semiannual Progress<br>Report (SQUID)   | Progress Report     | 1973 |   | B. A. Reese<br>and H. M.<br>Carbone  |
| 26 | Studies of Slurry<br>Fueled Propulsion<br>Systems, Fifth<br>Semiannual Progress<br>Report (SQUID)   | Progress Report     | 1973 |   | B. A. Reese<br>and H. M.<br>Carbone  |
| 26 | Studies of Slurry<br>Fueled Propulsion<br>Systems, Fourth<br>Semiannual Progress<br>Report (SQUID)  | Progress Report     | 1972 |   | C. F. Warner<br>C. F.<br>Warner, H.<br>L. Dyer, W.<br>C. Mayse,<br>and J. L.<br>Ross |
| 26 | Studies of Slurry<br>Fueled Propulsion<br>Systems, Third<br>Semiannual Progress<br>Report (SQUID)   | Progress Report     | 1971 |   | C. F. Warner, H.<br>L. Dyer, W.<br>C. Mayse,<br>and J. L.<br>Ross                    |
| 26 | Studies of Slurry<br>Fueled Propulsion<br>Systems, Second<br>Semiannual Progress<br>Report (SQUID)  | Progress Report     | 1971 |   | C. F. Warner<br>and H. L.<br>Dyer  |
| 27 | Abstracts of the<br>Fourth International<br>Colloquium on<br>Gasdynamics of<br>Explosions and   | Abstracts           | 1973 |   |  |

Reactive Systems  
(SQUID)

|    |  |                     |      |  |                             |
|----|--|---------------------|------|--|-----------------------------|
|    | Booklet of Abstracts,<br>Symposium on<br>Instrumentation for<br>Airbreathing   |                     |      |  |                             |
| 27 | Propulsion (SQUID)<br>On the Convergence<br>and Exactness of<br>Solutions of the<br>Laminar Boundary-<br>Layer Equations Using<br>the N-parameter<br>Integral Formulation<br>of Galerkin-<br>Kantorovich-<br>Dorodnitsyn (SQUID) | Abstracts           | 1972 |  |                             |
| 27 | The Hypergolic<br>Reaction of<br>Dicyclopentadiene<br>with White Fuming<br>Nitric Acid (SQUID)   | Technical<br>Report | 1966 | Howard E.<br>Bethel and<br>Douglas E.<br>Abbott              |                             |
| 27 | The Hypergolic<br>Reaction of<br>Dicyclopentadiene<br>with White Fuming<br>Nitric Acid (SQUID)   | Article             | 1951 | C. H. Trent<br>and M. J.<br>Zucrow                           | Reprint form<br>ARS Journal |
| 27 | The Hypergolic<br>Reaction of<br>Dicyclopentadiene<br>with White Fuming<br>Nitric Acid (SQUID)   | Article             | 1951 | C. H. Trent<br>and M. J.<br>Zucrow                           | Copy 2                      |
| 27 | The Hypergolic<br>Reaction of<br>Dicyclopentadiene<br>with White Fuming<br>Nitric Acid (SQUID)   | Article             | 1951 | C. H. Trent<br>and M. J.<br>Zucrow                           | Copy 3                      |
| 27 | The Hypergolic<br>Reaction of<br>Dicyclopentadiene<br>with White Fuming<br>Nitric Acid (SQUID)   | Article             | 1951 | C. H. Trent<br>and M. J.<br>Zucrow                           | Copy 4                      |
| 27 | Turbulent Mixing<br>Analysis Program<br>(SQUID)  | Research<br>Report  | 1969 | Martin Marietta<br>Corporation                               | P. C. Steel                 |
| 27 | An Experimental<br>Investigation of a<br>Three-Dimensional<br>Turbulent Boundary<br>Layer (SQUID)  | Technical<br>Report | 1975 | Donald R.<br>Zimmerman<br>and Douglas<br>E. Abbott<br>J.D.A. |                             |
| 27 | Unsteady Natural<br>Convection on a<br>Vertical Plate (SQUID)  | Technical<br>Report | 1975 | Walker, D.E.<br>Abbott, &<br>F.P. Yau                        |                             |

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| 27 | An Investigation of Gas Turbine Combustors with High Inlet Air Temperatures Part III: Experimental Developments (SQUID) | Technical Report | 1971 | R. D. Anderson and A. M. Mellor             |           |
| 27 | Application of Ablation to a High Chamber Pressure Rocket Engine (SQUID)  | Technical Report | 1971 | A. W. Brecheisen and C. M. Ehresman         |           |
| 27 | Application of Ablation to a High Chamber Pressure Rocket Engine (SQUID)  | Technical Report | 1971 | A. W. Brecheisen and C. M. Ehresman         | Duplicate |
| 27 | Nonlinear Inversion Techniques in Flame Temperature Measurements (SQUID)  | Technical Report | 1973 | C. M. Chao and R. Goulard                   |           |
| 27 | Non Dimensional Aspects in the Optimum Design of a Jet Transport Aircraft (SQUID)                                       | Technical Report | 1972 | R. Goulard, R. D. Kissinger, and R. D. Cook |           |
| 27 | Design of Shrouded-Plug Nozzles for Maximum Thrust Volume I. Theoretical Development and Results (SQUID)                | Technical Report | 1973 | Richard Vander Veen and Joe D. Hoffman      |           |
| 27 | Design of Shrouded-Plug Nozzles for Maximum Thrust Volume II. Computer Program User's Manual (SQUID)                    | Technical Report | 1973 | Richard Vander Veen and Joe D. Hoffman      |           |
| 27 | Gas Dynamics of Cavities-In-Series GDL: Survey and Extension (SQUID)  | Technical Report | 1973 | S. N. B. Murthy                             |           |
| 27 | Investigation into the Transfer of Mass from a Liquid to a Growing Gas Bubble During Formation (SQUID)                  | Thesis           | 1963 | Roger Dennis Linquist                       |           |
| 27 | Investigation into the Transfer of Mass from a Liquid to a Growing  | Thesis           | 1963 | Roger Dennis Linquist                       | Duplicate |

# Gas Bubble During Formation (SQUID)

|    |   |                  |      |   |   |           |
|----|---|------------------|------|---|---|-----------|
| 27 | Investigation into the Transfer of Mass from a Liquid to a Growing Gas Bubble During Formation (SQUID)  | Thesis           | 1963 |   | Roger Dennis Linquist                                     | Duplicate |
| 27 | Investigation into the Transfer of Mass from a Liquid to a Growing Gas Bubble During Formation (SQUID)  | Thesis           | 1963 |   | Roger Dennis Linquist                                     | Duplicate |
| 27 | Feasibility Study for the Development of a Multifunctional Emission Detector for Air Pollutants Based on Homogeneous Chemiluminescent Gas Phase Reactions (SQUID) | Technical Report | 1969 | Aerochem Research Laboratories, Inc.        | Arthur Fontijn, Alberto J. Sabadell, and Richard J. Ronco |           |
| 27 | Chemi-Ionization (SQUID)  | Technical Report | 1974 | Aerochem Research Laboratories, Inc.        | Arthur Fontijn  |           |
| 27 | Aerochem Axisymmetric Mixing with Nonequilibrium Chemistry Computer Program (SQUID)   | Technical Report | 1969 | Aerochem Research Laboratories, Inc.        | R. R. Mikatarian and H. S. Pergament                      |           |
| 27 | Kinetic and Aerodynamic Aspects of the Oxidization of Refractory Materials by Dissociated Gases (SQUID)   | Technical Report | 1969 | Aerochem Research Laboratories, Inc.        | Daniel E. Rosner and H. Donald Allendorf                  |           |
| 27 | Contributions to the Theory of Interfacial Rate Processes in Flow Systems (SQUID)   | Technical Report | 1970 | Aerochem Research Laboratories, Inc.        | Daniel E. Rosner  |           |
| 27 | A Thermochemistry Program for Air-Augmented Rocket Computations (SQUID)   | Technical Report | 1968 |   | P. Poulsen and J. G. Skifstad                             |           |
| 27 | Design of the Apparatus for Determining the Heat Transfer and Frictional Pressure Drop of Nitric Acid   | Technical Report | 1951 | National Advisory Committee for Aeronautics | Bruce A. Reese and Robert W. Graham                       |           |

Flowing Through a  
Heated Tube (SQUID)

|    |   |                        |      |   |  |           |
|----|---|------------------------|------|---|--|-----------|
|    | Predicted<br>Performance of the<br>Axial Flow<br>Compressor at High<br>Altitude (SQUID)   | Technical<br>Report    | 1949 |   | Robert W.<br>Graham  |           |
| 27 | Charts for Constant-<br>Pressure Combustion<br>Process (SQUID)  | Technical<br>Report    | 1950 |   | N. R. Balling  |           |
| 27 | Charts for Constant-<br>Pressure Combustion<br>Process (SQUID)  | Technical<br>Report    | 1950 |   | N. R. Balling  | Duplicate |
|    | Memorandum Report<br>on the Application of<br>the Radial Flow<br>Turbine to Gas<br>Turbine Powerplants<br>of Small Output<br>(SQUID)                                      | Technical<br>Report    |      |   | D. W. Craft<br>J.W.O.<br>Anderson Jr.<br>and M. R.<br>L'ecuyer |           |
| 27 | Energy Transfer<br>Between a Liquid<br>Bath and an Inert Gas<br>Bubble (SQUID)  | Technical<br>Report    | 1968 |   |  |           |
| 27 | A Review of Research<br>on Two-Dimensional<br>Base Flow (SQUID)   | Technical<br>Report    | 1962 | National Physical<br>Laboratory                   | J. F. Nash   |           |
|    | Investigation at Mach<br>Number 1.91 of Side<br>and Base Pressure<br>Distributions Over<br>conical Boattails<br>without and with Jet<br>Flow Issuing from<br>Base (SQUID) |                        |      |   | Edgar M.<br>Cortright,<br>Jr., and<br>Albert H.<br>Schroeder   |           |
| 27 | Civil Aircraft<br>Propulsion<br>Integration: Current<br>& Future (SQUID)  | Research<br>Memorandum | 1951 | National Advisory<br>Committee for<br>Aeronautics |  |           |
| 27 | Workshop on<br>Turbulent Transport<br>Coefficients (SQUID)  | Short Course           | 1993 | Purdue University                                 | Dennis L.<br>Berry   |           |
| 27 | Workshop on<br>Turbulent Transport<br>Coefficients (SQUID)  | Workshop               | 1968 |   |  |           |
| 27 | Workshop on<br>Turbulent Transport<br>Coefficients (SQUID)  | Workshop               | 1968 |   |  | Duplicate |

|    |  |                     |      |  |                             |                           |
|----|--|---------------------|------|--|-----------------------------|---------------------------|
| 27 | Computer Program<br>for Calculation of<br>Complex Chemical<br>Equilibrium<br>Compositions, Rocket<br>Performance,<br>Incident and<br>Reflected Shocks, and<br>Chapman-Jouguet<br>Detonations (SQUID) |                     | 1971 | National<br>Aeronautics and<br>Space<br>Administration | Sanford<br>Gordon, et<br>al |                           |
| 27 | On the Interaction of<br>Weak Disturbances<br>and a Plane Shock of<br>Arbitrary Strength in<br>a Perfect Gas (SQUID)   | Technical<br>Report | 1955 | Johns Hopkins<br>University                            | Che-Tyan<br>Chang           |                           |
| 28 | 1992 Purdue<br>University Short<br>Course on Integration<br>of Winged Flight<br>Vehicles: Facilities<br>and Testing (SQUID)  | Short Course        | 1992 | Purdue University                                      | Dr. Virgil K.<br>Smith, III |                           |
| 28 | Short Course on<br>Engine Airframe<br>Integration:<br>Hypersonic Vehicle<br>Integration (SQUID)  | Short Course        | 1992 | Purdue University                                      | Armand J.<br>Chaput         |                           |
| 28 | Short Course on<br>Engine Airframe<br>Integration:<br>Hypersonic Vehicle<br>Integration (SQUID)  | Short Course        | 1992 | Purdue University                                      | Armand J.<br>Chaput         | Duplicate - torn<br>cover |
| 28 | Fundamentals of<br>Computational<br>Methods - 1993 Short<br>Course on Integration<br>of Winged Flight<br>Vehicles (SQUID)  | Short Course        | 1993 | Purdue University                                      | Joe D.<br>Hoffman           |                           |
| 28 | Fundamentals of<br>Computational<br>Methods - 1992 Short<br>Course on Integration<br>of Winged Flight<br>Vehicles (SQUID)  | Short Course        |      | Purdue University                                      | Joe D.<br>Hoffman           |                           |
| 28 | Arnold Engineering<br>Development Center<br>- Air Force Systems<br>Comman Test Center<br>(SQUID)   | Pamphlet            |      |  |                             | Pages stuck<br>together   |
| 28 | Civil Aircraft<br>Propulsion<br>Integration: Current<br>& Future (SQUID)   | Short Course        | 1992 | Purdue University                                      | Dennis L.<br>Berry          |                           |

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| 28 | 1993 Purdue University Short Course on Integration of Winged Flight Vehicles: Facilities and Testing (SQUID) | Short Course | 1993 | Purdue University | Dr. Virgil K. Smith, III |               |
| 28 | High Bypass Turbofan Nacelles for Subsonic Transports (Exhaust Systems and Installed Performance) (SQUID)    | Short Course | 1992 | Purdue University | Don Dusa                 |               |
| 28 | High Bypass Turbofan Nacelles for Subsonic Transports (Exhaust Systems and Installed Performance) (SQUID)    | Short Course | 1993 | Purdue University | Don Dusa                 |               |
| 28 | Exhaust Systems for Multimission Applications (Aero Design and Installed Performance) (SQUID)                | Short Course | 1992 | Purdue University | Don Dusa                 |               |
| 28 | Exhaust Systems for Multimission Applications (Aero Design and Installed Performance) (SQUID)                | Short Course | 1993 | Purdue University | Don Dusa                 |               |
| 28 | Unknown Title (SQUID)  | Short Course |      |                   |                          | No title page |
| 28 | 1993 Short Course on: Integration of Winged Flight Vehicles - Integrated Controls (SQUID)                    | Short Course | 1993 | Purdue University | Frank L. George          |               |
| 28 | Stealth Influences on Propulsion System Design and Integration (SQUID)                                       | Short Course | 1993 | Purdue University | J. L. Younghans          |               |
| 28 | 1992 Short Course on: Integration of Winged Flight Vehicles - Control Systems (SQUID)                        | Short Course | 1992 | Purdue University | Peter D. Shaw            |               |
| 28 | Integration of Winged Flight-Test Vehicles - Hypersonic Vehicles (SQUID)                                     | Short Course | 1993 | Purdue University | Frederick S. Billig      |               |

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| 28 | Military Aircraft Configurations - The Integration Challenge (SQUID)                             | Short Course      | 1992 |   | Squire L. Brown, PhD                   |                    |
| 28 | Configuration Selection for Specified Missions and Propulsion Integration Considerations (SQUID) | Short Course      | 1993 | Purdue University                             | B. D. Nelson                           |                    |
| 28 | Flight Vehicle Integration; Computational Methods & Applications (SQUID)                         | Short Course      | 1991 | Purdue University                             | Charles W. Boppe                       |                    |
| 28 | Flight Vehicle Integration; Computational Methods & Applications (SQUID)                         | Short Course      | 1992 | Purdue University                             | Charles W. Boppe                       |                    |
| 28 | Flight Vehicle Integration; Computational Methods & Applications (SQUID)                         | Short Course      | 1993 | Purdue University                             | Charles W. Boppe                       | Missing back cover |
| 28 | Matching Engine to Aircraft (SQUID)  | Short Course      |      |   | Gary Plourde                           |                    |
| 28 | Supersonic Transport (SQUID)   | Short Course      | 1992 | Purdue University                             | Laurence H. Fishbach                   |                    |
| 28 | Supersonic Transport (SQUID)   | Short Course      | 1993 | Purdue University                             | Laurence H. Fishbach                   |                    |
| 28 | Matching Engine to Aircraft (SQUID)  | Short Course      |      |   | Gary Plourde                           |                    |
| 28 | Survey on Integration in Aircraft Development (SQUID)  | Short Course      | 1992 | Purdue University                             | Elling Tjonneland                      |                    |
| 29 | The Thermal Energy Equation for Turbulent Shear Flows (SQUID)                                    | Technical Report  | 1969 | Martin Marietta Corporation                   | Roy J. Heyman                          |                    |
| 29 | Approximate Thermochemical Tables for Some C-H and C-H-O Species (SQUID)                         | Contractor Report | 1973 | National Aeronautics and Space Administration | Gilbert S. Bahn                        |                    |
| 29 | An Investigation of the Three-Dimensional Flow Field in a Centrifugal Compressor (SQUID)         | Technical Report  | 1990 |   | John R. Fagan, Jr. and Sanford Fleeter |                    |



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| 29 | Survey of the<br>Integration Problems,<br>Methods of Solution,<br>and Applications<br>(SQUID)   | Short Course        | 1988 | Purdue University   | Elling<br>Tjonneland   |
| 29 | Lecture on Subsonic<br>& Supersonic Inlet<br>Design and Systems<br>Integration (SQUID)  | Lecture             | 1993 |   | John L.<br>Benson  |
| 29 | Unknown Title<br>(SQUID)  | Short Course        |      |   |  |
| 29 | Short Course on<br>Integration of Winged<br>Flight Vehicles<br>Volume I (SQUID)   | Short Course        |      | Purdue University   | S.N.B.<br>Murthy   |
| 29 | Short Course on<br>Integration of Winged<br>Flight Vehicles<br>Volume II (SQUID)  | Short Course        |      | Purdue University   | S.N.B.<br>Murthy   |
| 30 | A Free Jet Study of<br>the Rotational<br>Relaxation of<br>Molecular Nitrogen<br>From 300-1000°K<br>(SQUID)  | Study               |      | Yale University   | Robert J.<br>Gallagher<br>and John B.<br>Fenn                            |
| 30 | Letter from R.<br>Goulard to Aerospace<br>Engineering (SQUID)   | Letter              | 1972 | Purdue University   | R. Goulard   |
| 30 | Russian Booklet<br>(SQUID)  | Report/Study        | 1973 |   |  |
| 30 | Attitude Stabilization<br>Using a Rotating Plug<br>Nozzle (SQUID)   | Technical<br>Report | 1969 | Massachusetts<br>Institute of<br>Technology                               | John E.<br>Draim   |
| 30 | 10th AFOSR<br>Contractors' Meeting<br>on Kinetics of Energy<br>Conversion (SQUID)   | Abstracts           | 1969 |   |  |
| 30 | Singular Perturbation<br>and Turbulent Shear<br>Flow Near Walls<br>(SQUID)  | Article             | 1972 | TRW Systems<br>University of<br>Southern<br>California and TRW<br>Systems | Francis E.<br>Fendell<br>William B.<br>Bush and<br>Francis E.<br>Fendell |
| 30 | Asymptotic analysis<br>of turbulent channel<br>and boundary-layer<br>flow (SQUID)   | Article             | 1972 |   |  |
| 30 | On Turbulent Flows<br>with Fast Chemical<br>Reactions. Part II. The<br>Distribution of<br>Reactants and<br>Products Near a<br>Reacting Surface<br>(SQUID) | Article             | 1972 | University of<br>California   | Carl H.<br>Gibson and<br>Paul A.<br>Libby                                |

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| 30 | The Expansion of a Supersonic Parallel Flow into a Source Flow (SQUID)  | Technical Report | 1969 | Cornell Aeronautical Laboratory, Inc.                               | G. E. Merritt R.R. Mikatarian, C.J. Kau, and H.S. Pergament                          |                            |
| 30 | A Fast Computer Program for Nonequilibrium Rocket Plume Predictions (SQUID)   | Technical Report | 1972 | AeroChem Research Laboratories, Inc.                                | J. F. Nash, V. G. Quincey, and J. Callinan   |                            |
| 30 | Experiments on Two-Dimensional Base Flow at Subsonic and Transonic Speeds (SQUID)   | Technical Report | 1963 | National Physical Laboratory National Technical Information Service |  |                            |
| 30 | Unknown Title (SQUID)   | Technical Report | 1967 |   |  | Unreadable                 |
| 30 | Effect of Injector Geometry on Penetration, Spread and Structure of a Liquid Jet Injected Normal to a Supersonic Air Stream (SQUID) | Technical Report | 1973 | Virginia Polytechnic Institute and State University                 | P. Joshi, A. Jakubowski, and J. Schetz   |                            |
| 30 | Wind-Tunnel Study of Base Drag Reduction Through Combustion of Solid, Fuel-Rich Propellants in the Projectile Base Region (SQUID)   | Technical Report | 1973 | Naval Ordnance Laboratory   | F. P. Baltakis and S. W. Pronchick   |                            |
| 30 | Turbulent Wakes (SQUID)   | Technical Report | 1972 |   | E. Baum James E. Hubbartt, Warren C. Strahle, Douglas H. Neale, and Walter W. Wilson | Phone number next to name? |
| 30 | Experiments and Analysis Related to External Burning for Propulsion (SQUID)   | Technical Report | 1976 | Georgia Institute of Technology                                     |  |                            |
| 30 | A Computer Program for Calculation of Combustion Reaction Equilibrium and Kinetics in Laminar or Turbulent Flow (SQUID)             | Technical Report | 1976 | Washington State University   | David T. Pratt and John J. Wormeck   |                            |

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| 30 | Drag Reduction Due to Gas Injection Through Various Discrete Slots on a Three-Dimensional Wing at Mach 2.01 (SQUID)                                     | Technical Report | 1969 | National Aeronautics and Space Administration             | Russell B. Sorrells III, K. R. Czarnecki, and Lorraine F. Satchell |                                       |
| 30 | Asymptotic Solutions for Supersonic Rotational Flow Around a Convex Corner Using a New Coordinate System (SQUID)  | Technical Report | 1968 |   | T. C. Adamson, Jr.   | Note on inside cover                  |
| 30 | Proceedings of a Workshop on 17-18 May 1978 at NASA Lewis Research Center (SQUID)   | Workshop         | 1978 |   | Jack L. Kerrebrock   |                                       |
| 30 | Numerical Computation of Three-Dimensional Flows in a Rotating Curved Passage (SQUID)   | Article          | 1978 | Imperial College of Science and Technology                | A.K. Majumdar and D. Brian Spalding                                |                                       |
| 30 | The Three-Dimensional Separation of a Turbulent Boundary Layer by a Skewed Shock Wave; and Its Control by the Use of a Tangential Air Injection (SQUID) | Article          | 1975 | National Aeronautic Establishment and Carleton University | David J. Peake and William J. Rainbird                             |                                       |
| 30 | Development of a Hot Rocket Subscale Space Shuttle Model for Base Flow Studies (SQUID)  | Article          | 1974 | Calspan Corporation                                       | K. C. Hendershot and R. F. Drzewiecki                              |                                       |
| 30 | A Review of Concepts in Separated Flow (SQUID)  | Article          | 1967 |   | A. Roshko  | Possibly a portion of larger document |
| 30 | Transport Engines (SQUID)   | Short Course     |      |   |  |                                       |
| 30 | Advanced Propellers and Integration Aspects of Turbo-Prop Propulsion (SQUID)  | Short Course     | 1991 | Purdue University   | John P. Sullivan   |                                       |

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| 30 | Propeller Research Literature Review (SQUID)<br>Configuration Selection for Specified Missions and Propulsion Integration Considerations (SQUID) | Short Course     | 1992 | Purdue University                     | R.T. Johnson and J.P. Sullivan   |           |
| 30 | Uncertainty of In-Flight Thrust Determination (SQUID)  | Short Course     | 1992 | Purdue University                     | B.D. Nelson  |           |
| 30 | Propeller Research Literature Review (SQUID)   | Article          | 1985 | Society of Automotive Engineers, Inc. | R.T. Johnson and J.P. Sullivan   | Duplicate |
| 30 | Interaction Visquese Avec Decollement en Ecoulement Transsonique (SQUID)   | Article          | 1975 |                                       | Jean Delery, Jean-Jacques Chattot, Jean-Claude Le Balleur              | French    |
| 30 | Decollement Turbulent En Ecoulement Bidimensionnel (SQUID)   | Article          | 1975 |                                       | Maurice Sirieix  | French    |
| 30 | Etude Experimentale et Theorique du Recollement Bidimensionnel Turbulent Imcompressible (SQUID)  | Article          | 1975 |                                       | Jean-Clause Le Balleur and Jean Mirande                                | French    |
| 30 | On Turbulent Flows with Fast Chemical Reactions Part I: The Closure Problem (SQUID)  | Technical Report | 1972 | University of California              | Paul A. Libby Gerald C. Paynter, David W. Mayer, and Elling Tjonneland | Duplicate |
| 30 | Accuracy and Flow Stability Issues in Supersonic Inlet Flow Analyses (SQUID)   | Abstract         |      | Boeing Company                        |  |           |
| 30 | Coordination Sheet (SQUID)   | Article          | 1992 |                                       |  |           |
| 30 | Accuracy Issues in the Prediction of Supersonic Inlet Flows (SQUID)  | Article          | 1992 | Boeing Company                        | G. C. Paynter and E. Tjonneland  |           |

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| 30 | Coordination Sheet<br>(SQUID)   | Article  | 1992 |   |  | Duplicate<br>Seems to go<br>with Accuracy<br>Issues article<br>above |
| 30 | Letter from Gerald<br>Paynter to S.N.B.<br>Murthy (SQUID)   | Letter   | 1992 | Boeing Company  | Gerald C.<br>Paynter   |  |
| 30 | A Review of<br>Experimental<br>Measurement<br>Methods Based on<br>Gas-Phase<br>Chemiluminescence<br>(SQUID)         | Article  |      |   | Arthur<br>Fontijn, Dan<br>Golomb,<br>and Jimmie<br>A. Hodgeson                       |  |
| 30 | In-Flight Thrust<br>Determination<br>(SQUID)  | Article  | 1985 | Society of<br>Automotive<br>Engineers, Inc.<br>National<br>Aeronautics and<br>Space<br>Administration | Bonnie J.<br>McBride<br>and Sanford<br>Gordon  |  |
| 30 | Fortrain IV Program<br>for Calculation of<br>Thermodynamic Data<br>(SQUID)  | Article  | 1967 |   |  |  |
| 30 | Irregular Refraction<br>of Strong Shock<br>Waves by a Wedge of<br>Hot Gas (SQUID)                                   | Article  | 1970 | Aerospace<br>Research<br>Laboratories   | J. G. Skifstad   |  |
| 30 | Trends in<br>International<br>Aerospace Ground<br>Test Facilities (SQUID)   | Article  | 1993 |   | D. C. Daniel<br>and A. H.<br>Boudreau<br>John T.<br>Ohrenberge<br>r and Eric<br>Baum |  |
| 30 | Laminar Near Wake<br>Solutions Under<br>Atmospheric Entry<br>Conditions (SQUID)                                     | Article  | 1972 | TRW Systems   |  |  |
| 30 | A Theoretical Model<br>of the Near Wake of a<br>Slender Body in<br>Supersonic Flow<br>(SQUID)                       | Article  | 1970 | TRW Systems   | John T.<br>Ohrenberge<br>r and Eric<br>Baum  |  |
| 30 | Numerical Solution of<br>Axisymmetric Boattail<br>Fields with Plume<br>Simulators (SQUID)                           | Article  | 1977 | NASA Langley<br>Research Center<br>Arnold Engineering<br>Development<br>Center                        | T.L. Holst   |  |
| 30 | Space System Testing<br>Capabilities - Test<br>Highlights<br>Discussion and<br>Verification of Prep<br>Code (SQUID) | Pamphlet | 1993 |   | L.<br>Krishnamurt<br>hy  |  |
| 30 |   | Research | 1978 | Purdue University   |  |  |

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|----|---|---------|------|----------------------------------|--|--------------------------------|
|    |   |         |      |                                  | V.P. Kuznetsov, I.I. Perepechko, K. A. Naugol'nykh, S.I. Solutan, and R. V. Khokhlov, Yu. K. Konenkov, Boa-The Chu, Leslie S. G. Kovasznay | Multiple articles and chapters |
| 30 | Binder of Articles Pertaining to Acoustics and Wave Motion (SQUID)  | Article |      |                                  |  |                                |
| 30 | Binder of Articles Pertaining to Acoustics and Wave Motion (SQUID)  | Article |      |                                  | S. Temkin  | Multiple articles and chapters |
| 30 | On the Interpretation of the Output of Hot-Film Anemometers and a Scheme of Dynamic Compensation for Water Temperature Variation (SQUID)      | Article | 1973 | Illinois Institute of Technology | J. Tan-atichat, H. M. Nagib, and J. W. Pluister  |                                |
| 30 | Measurements Near Bluff Bodies in Turbulent Boundary Layers Intended to Simulate Atmospheric Surface Layers (SQUID)                           | Article | 1974 | Illinois Institute of Technology | Jimmy Tan-atichat and Hassan Nagib   |                                |
| 30 | Diffusion from a Periodically Heated Line-Source Segment and Its Application to Measurements in Turbulent Flows (SQUID)                       | Article | 1974 | Illinois Institute of Technology | Roald A. Wigeland and Hassan M. Nagib  |                                |
| 30 | Longitudinal Vortices Induced in a Stagnation Region by Wakes --Their Incipient Formation and Effects on Heat Transfer From Cylinders (SQUID) | Article | 1975 | Illinois Institute of Technology | Price R. Hodson and Hassan M. Nagib  |                                |

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| 30 | Sensitivity of Flow<br>Around and Pressures<br>on a Building Model<br>to Changes in<br>Simulated<br>Atmospheric Surface<br>Layer Characteristics<br>(SQUID)           | Article | 1976 | Illinois Institute of<br>Technology              | T.C. Corke<br>and H.M.<br>Nagib                      |
| 30 | Generation and<br>Management of<br>Swirling Flows in<br>Confined Streams<br>(SQUID)   | Article | 1976 | Illinois Institute of<br>Technology              | M. Ahmed,<br>R.A.<br>Wigeland,<br>and H.M.<br>Nagib  |
| 30 | Bracketing of<br>Probable<br>Atmospheric Wind<br>Conditions Through a<br>Family of Surface<br>Layers and<br>Sensitivities of a<br>Building-Model<br>Flowfield (SQUID) | Article | 1976 | Illinois Institute of<br>Technology              | H.M. Nagib,<br>T.C. Corke,<br>and J. Tan-<br>atichat |
| 30 | Generation,<br>Measurement and<br>Suppression of Large<br>Scale Vorticity in<br>Internal Flows<br>(SQUID)   | Article | 1976 | Illinois Institute of<br>Technology              | R.A.<br>Wigeland,<br>M. Ahmed,<br>and H.M.<br>Nagib  |
| 31 | Mixing of Hot<br>Starting-Jets with<br>Cold Surroundings<br>(SQUID)   | Thesis  | 1975 | Imperial College of<br>Science and<br>Technology | Shawatchai<br>Hengrussam<br>ee                       |
| 31 | Convection Processes<br>in Confine, Three-<br>Dimensional<br>Boundary Layers<br>(SQUID)   | Thesis  | 1975 | Imperial College of<br>Science and<br>Technology | D. G.<br>Tatchell                                    |
| 31 | Flow and Heat<br>Transfer in Curved<br>Ducts (SQUID)  | Thesis  | 1975 | Imperial College of<br>Science and<br>Technology | Vanka Surya<br>Pratap                                |
| 31 | Genmix: A General<br>Computer Program<br>for Two-Dimensional<br>Parabolic Phenomena<br>(SQUID)  | Thesis  | 1975 | Imperial College of<br>Science and<br>Technology | D. Brian<br>Spalding<br>A. K.                        |
| 31 | A Numerical<br>Investigation of Flow<br>in Rotating Radial<br>Diffusers (SQUID)   | Article | 1976 | Imperial College of<br>Science and<br>Technology | Majumdar<br>and D. Brian<br>Spalding                 |
| 31 | Heat Transfer in<br>Rotating Ducts<br>(SQUID)   | Article | 1976 | Imperial College of<br>Science and<br>Technology | A. K.<br>Majumdar,<br>W. D.<br>Morris, D.            |

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| 31 | Heat and Mass Transfer in Rivers, Bays, Lakes and Estuaries (SQUID)                  | Article | 1976 | Imperial College of Science and Technology | D. Brian Spalding                     |
| 31 | A New Model of Turbulent Combustion (SQUID)  | Article | 1976 | Imperial College of Science and Technology | D. Brian Spalding                     |
| 31 | The Escimo Theory of Turbulent Combustion (SQUID)                                    | Article | 1976 | Imperial College of Science and Technology | D. Brian Spalding                     |
| 31 | Heat Transfer Section Reports List (SQUID)   | Article |      | Imperial College of Science and Technology |                                       |
| 31 | A General Computer Program for Two-Dimensional Elliptic Flows (SQUID)                | Article | 1976 | Imperial College of Science and Technology | W. M. Pun and D. Brian Spalding       |
| 31 | Laminar Heat Transfer in a Pipe Rotating About a Parallel Axis (SQUID)               | Article | 1976 | Imperial College of Science and Technology | D. Skiadaressis and D. Brian Spalding |
| 31 | A 2D Partially-Parabolic Procedure for Axial-Flow Turbomachinery Cascades (SQUID)    | Article | 1976 | Imperial College of Science and Technology | A. K. Singhal and D. Brian Spalding   |
| 31 | A General Theory of Turbulent Combustion; The Lagrangean Aspects (SQUID)             | Article | 1976 | Imperial College of Science and Technology | D. Brian Spalding                     |
| 31 | Computation of Simultaneous Fluid Flow and Heat Transfer in Turbine Cascades (SQUID) | Article | 1976 | Imperial College of Science and Technology | A. K. Singhal and D. Brian Spalding   |
| 31 | Computer Modelling Techniques for Laminar and Turbulent Combustion (SQUID)           | Article | 1977 | Imperial College of Science and Technology | D. Brian Spalding                     |
| 31 | Computations of Transonic Flows in Nozzle Guide Vane (NGV) Cascades (SQUID)          | Article | 1977 | Imperial College of Science and Technology | A. K. Singhal and D. Brian Spalding   |



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| 31 | Three-Dimensional Turbulent Flow Past Rectangular Bluff Bodies (SQUID)  | Article          | 1977 | Imperial College of Science and Technology  | D. Vasilic-Melling                             |
| 31 | Numerical Computation of Two-Phase Flows (SQUID)  | Article          | 1977 | Imperial College of Science and Technology  | D. Brian Spalding                              |
| 31 | Diesel-Combustion Modelling, Present Status and Future Prospects. (SQUID)   | Article          | 1977 | Imperial College of Science and Technology  | D. Brian Spalding<br>A. G. Awn,<br>D. B.       |
| 31 | Air Flow in Diesel-Engine Cylinders (SQUID)   | Article          | 1977 | Imperial College of Science and Technology  | Spalding<br>and S. K. Srivatsa                 |
| 31 | Prediction of Furnace Heat Transfer with a Three-Dimensional Mathematical Model (SQUID)   | Article          | 1978 | Imperial College of Science and Technology  | B. R. Pai, S. Michelfelder, and D. B. Spalding |
| 31 | Flow, heat and mass transfer in Turbulent Recirculating Flows - Prediction and Measurements. Supplementary Notes (SQUID)                        | Article          | 1976 | McGill University                           | B.L. Launder                                   |
| 31 | Flow, heat and mass transfer in Turbulent Recirculating Flows - Prediction and Measurements. Slide Panels of Lectures (SQUID)                   | Article          | 1976 | McGill University                           | B. E. Launder                                  |
| 31 | Listing of "TEACH-T" Computer Program (SQUID)   | Article          | 1976 | McGill University                           |  |
| 31 | An Experimental Investigation of the Base Pressure Characteristics of Nonlifting Bodies of Revolution at Mach Numbers from 2.73 to 4.98 (SQUID) | Technical Report | 1955 | National Advisory Committee for Aeronautics | John O. Reller, Jr., and Frank M. Hamaker      |
| 31 | A Theoretical Analysis of Heat Transfer in Regions of Separated Flow (SQUID)  | Technical Report | 1956 | National Advisory Committee for Aeronautics | Dean R. Chapman                                |

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| 31 | Investigation of Separated Flows in Supersonic and Subsonic Streams with Emphasis on the Effect of Transition (SQUID) | Technical Report | 1957 | National Advisory Committee for Aeronautics | Dean R. Chapman, Donald M. Kuehn, and Howard K. Larson       |           |
| 31 | Enthalpy and Atom Profiles in the Laminar Separated Shear Layer (SQUID)   | Research         | 1963 | Electrical-Optical Systems, Inc.            | Hartley H. King and Eric Baum                                |           |
| 31 | Effect of Boundary Layer Blowing on the Laminar Separated Shear Layer (SQUID)   | Research         | 1963 | Electrical-Optical Systems, Inc.            | Eric Baum  |           |
| 31 | Effect of Base Bleed on the Laminar Base Flow (SQUID)   | Research         | 1963 | Electrical-Optical Systems, Inc.            | H. H. King and Eric Baum                                     |           |
| 31 | Effect of Boundary Layer Distortion at Separation on the Laminar Base Flow (SQUID)                                    | Research         | 1963 | Electrical-Optical Systems, Inc.            | Eric Baum  |           |
| 31 | Literature Survey Droplet Ignition and Evaporation (SQUID)  | Research         | 1951 | Purdue University                           |  |           |
| 32 | Readers' Forum - Pages 525 & 526 of the Journal of Aeronautical Sciences (SQUID)                                      | Article          | 1950 | Journal of Aeronautical Sciences            |  |           |
| 32 | Asymptotic Solutions of the Navier-Stokes Equations in Regions with Large Local Perturbations (SQUID)                 | Article          | 1966 | Mekhanika Zhidkosti                         | V. Ya. Neiland and V. V. Sychev                              |           |
| 32 | Experiments on Two-Dimensional Base Flow at Subsonic and Transonic Speeds (SQUID)                                     | Technical Report | 1963 | National Physical Laboratory                | J. F. Nash, V. G. Quincey, and J. Callinan                   | Duplicate |
| 32 | A Review of Research on Two-Dimensional Base Flow (SQUID)   | Technical Report | 1962 | National Physical Laboratory                | J. F. Nash, W. Smithey, M. Naber, G. Caswell, and A. E. Fuhs | Duplicate |
| 32 | An Open Jet Wind Tunnel for External Burning with Spinning Projectiles (SQUID)  | Article          | 1973 |   | E. P. Muntz and E. J. Softley                                |           |
| 32 | A Study of Laminar Near Wakes (SQUID)   | Article          | 1966 | General Electric Company                    |  |           |

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| 32 | Jet Interference of a<br>Podded Engine<br>Installation at Cruise<br>Conditions (SQUID)  | Article | 1974 |  | B.<br>Munniksma<br>and F.<br>Jaarsma   |
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| 32 | The Diffusion Flame in Free Convection. Buoyancy-Induced Flows, Oscillations, Radiative Balance and Large-Scale Limiting Rates (SQUID) Instrumentation Techniques for Studying Heterogeneous Combustion (SQUID) | Article | 1977 | University of Sheffield                    | Martin Hertzberg, Kenneth Cashdollar, Charles Litton, and Edward Kansa     |
| 32 | Measurements of Reactive Gaseous Rocket Injector Response Factors (SQUID)   | Article | 1977 | Bureau of Mines                            | Norman A. Chigier B. A. Janardan, B. R. Daniel, W. A. Bell, and B. T. Zinn |
| 32 | Flame Propagation and Extinction for Clouds of Particles (SQUID)  | Article | 1977 | University of Sheffield                    | Georgia Institute of Technology  |
| 32 |   | Article | 1977 | State University of New York               | A. L. Berlad and J. Killroy  |

List of Registrants at  
the Short Course  
given at McGill  
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Department of  
Chemical

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| 32 | Engineering, August 4<br>-6, 1976 (SQUID)  | Short Course | 1976 | McGill University                   |   |
| 32 | A Theoretical Study of<br>Flame Propagation<br>Through Stratified<br>Media (SQUID)                     | Article      | 1977 | Lawrence<br>Livermore<br>Laboratory | Charles K.<br>Westbrook<br>and Julius S.<br>Chang                                   |
| 32 | A Theory of Flame<br>Spread Over a Solid<br>Fuel Including Finite<br>Rate Chemical<br>Kinetics (SQUID) | Article      | 1977 | Case Western<br>Reserve University  | Alfred E.<br>Frey, Jr.,<br>and James<br>S. T'ien                                    |
| 32 | The Influence of<br>Recirculation on<br>Enclosed Turbulent<br>Jet Diffusion Flames<br>(SQUID)          | Article      |      |                                     | Bernard<br>Lenze  |
| 32 | (First word) of<br>Research Carried out<br>on 7197-53-12885,<br>Jan 1976 - March<br>1977 (SQUID)       | Article      | 1977 |                                     |   |
| 32 | The Concept of Flame<br>Stretch (SQUID)  | Article      | 1977 |                                     | Roger A.<br>Strehlow<br>and Lester<br>D. Savage                                     |
| 32 | Analysis of Thermal<br>Ignition lag in Fuel<br>Droplet Combustion<br>(SQUID)                           | Article      | 1977 | Northwestern<br>University          | C. K. Law   |
| 32 | Ignition of Thermally<br>Thick Media Under<br>Convective Heating<br>(SQUID)                            | Article      | 1977 | Georgia Institute<br>of Technology  | V. L. Wolfe,<br>Jr., P.<br>Durbetaki<br>Girard A.<br>Simons and<br>Paul F.<br>Lewis |
| 32 | Mass Transport and<br>Heterogeneous<br>Reactions in a Porous<br>Medium (SQUID)                         | Article      | 1977 | NASA Lewis<br>Research Center       | Ronald L.<br>Panton and<br>Robert H.<br>Sweat, Jr.                                  |
| 32 | Experiments on a<br>Delta Shaped Flame<br>Stabilizer (SQUID)   | Article      |      | University of Texas                 |   |
| 32 | Chemical Non-<br>Equilibrium Effects in<br>a Hydrogen-Air<br>Laminar Jet Diffusion<br>Flames (SQUID)   | Article      | 1977 | Sandia<br>Laboratories              | James A.<br>Miller and<br>Robert J.<br>Kee  |



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| 32 | Aerodynamic Flame Stabilization<br>Processed with Small, Swirling, Waste Gas Burners (SQUID)         | Article |      | Continental Carbon Company and University College | K.R. Dahmen and N. Syred<br>M.M.M. Abou Ellail, A.D. Gosman, F.C. |
| 32 | Description and Validation of a Three-Dimensional Procedure for Combustion Chamber Flows (SQUID)     | Article | 1977 | Imperial College of Science and Technology        | Lockwood, and I.E.A. Megahed                                      |
| 32 | Separated Flows in Supersonic and Subsonic Streams with Emphasis on the Effect of Transition (SQUID) | Article | 1958 | National Advisory Committee for Aeronautics       | Dean R. Chapman, Donald M. Kuehn, and Howard K. Larson            |
| 32 | Entrainment Rates in Turbulent Shear Flows (SQUID)   | Article | 1973 | Johns Hopkins University                          | S. T. Paizis and W. H. Schwarz                                    |
| 32 | Determination of the Wake behind a Bluff Body of Revolution at High Reynolds Numbers (SQUID)         | Article | 1969 | Yale University                                   | Jean-Yves Parlange  |
| 32 | Decay of Boundary-Layer Turbulence in Near Wake of a Slender Body (SQUID)                            | Article | 1971 | AVCO Everett Research Laboratory                  | Anthony N. Pirri  |
| 32 | Compressible Jet Spread Parameter for Mixing Zone Analyses (SQUID)                                   | Article | 1963 | United Technology Center                          | Rao S. Channapragada  |
| 32 | Theory for Base Pressures in Transonic and Supersonic Flow (SQUID)                                   | Article | 1956 | National Advisory Committee for Aeronautics       | D. R. Chapman<br>A. F. Charwat                                    |
| 32 | An Investigation of Two-Dimensional Supersonic Base Pressures (SQUID)                                | Article | 1957 | University of California                          | and J. K. Yakura  |
| 32 | Unknown Title (SQUID)  |         |      |   | Illegible   |
| 32 | On the Higher Approximations of the Supersonic Projectile Theory (SQUID)                             | Article | 1973 | University of Iowa                                | David C. Chou   |
| 32 | Study of Jet Mixing Problems by  | Article | 1968 | University of Illinois                            | W. L. Chow  |

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|    | Meksyn's Method<br>(SQUID)  |         |      |   |   |                      |
| 32 | Influence on Base<br>Pressures by Heat<br>and Mass Additions<br>(SQUID)   | Article | 1962 | University of<br>Illinois                         | W. L. Chow<br>W. A.<br>Clayden and<br>J. E.<br>Bowman   |                      |
| 32 | Cylindrical<br>Afterbodies at $M_\infty = 2$<br>with Hot Gas Ejection<br>(SQUID)  | Article | 1968 | Ministry of<br>Defence                            | Leonard S.<br>Cohen and<br>Mark N.<br>Director<br>Donald J.<br>Collins,<br>Lester Lees,<br>and Anatol<br>Roshko |                      |
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| 32 | Some Ballistic<br>Contributions to<br>Aerodynamics<br>(SQUID)   | Article | 1946 | Aberdeen Proving<br>Ground                        | A. C.<br>Charters<br>A. F.<br>Charwat, G.<br>H. Burghart,<br>and W. H.<br>Nurick                                |                      |
| 32 | Base Wakes in<br>Accelerated<br>Supersonic Free<br>Streams (SQUID)  | Article |      | University of<br>California                       |   |                      |
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| 32 | An Analysis of Base<br>Pressure at<br>Supersonic Velocities<br>and Comparison with<br>Experiment (SQUID)                                | Article | 1950 | National Advisory<br>Committee for<br>Aeronautics | Dean R.<br>Chapman  | Duplicate            |

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| 32 | Two-Dimensional Turbulent Wakes (SQUID)   | Article | 1966 | McGill University                                      | Ian S. Gartshore   |
| 32 | The Mechanics of the Formation Region of Vortices Behind Bluff Bodies (SQUID)   | Article | 1965 | Manchester University                                  | J. H. Gerrard<br>Carl H. Gibson, Russell R. Lyon, and Ian Hirschsohn |
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| 32 | An Examination of Eddy Viscosity Models for Turbulent Free Shear Flows (SQUID)  | Article | 1971 | Stevens Institute of Technology and Rutgers University | R. J. Elassar and P. P. Pandolfini                                   |
| 32 | Reynolds Number Effect on Afterbody, Throttle-Dependent Pressure Forces (SQUID)   | Article | 1975 | Air Force Aero-Propulsion Laboratory                   | A. E. Fanning and R. J. Glidewell                                    |

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| 32 | Base Heat Transfer in an Axisymmetric Supersonic Flow (SQUID)  | Article | 1969 | Rutgers University                                      | Leroy S. Fletcher                               |
| 32 | Anemometer Measurements of Velocity and Density in Projectile Wakes (SQUID)  | Article | 1969 | TRW Systems   | Jay Fox and Harald Rungaldier                   |
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| 32 | On the Separation of a Supersonic Flow at a Sharp Corner (SQUID)   | Article | 1966 | The Queen's University of Belfast                       | I. S. Donaldson                                 |
| 32 | The Effect of Sting Supports on the Base Pressure of a Blunt-Based Body in a Supersonic Stream (SQUID)                       | Article | 1955 | University of Manchester                                | I. S. Donaldson                                 |
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| 32 | Generalized Viscous Multicomponent-Multiphase Flow with Application to Laminar and Turbulent Jets of Hydrogen (SQUID)        | Article | 1963 | General Applied Science Laboratories, Inc.              | Raymond Edelman and Harold Rosenbaum            |

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| 32 |  | Article | 1967 | San Jose State College             | Lorin R. Davis   | Duplicate |
| 32 |  | Article | 1962 | Electro-Optical Systems, Inc.      | M. Richard Denison and Eric Baum                                 | Duplicate |
| 32 |  | Article | 1964 | California Institute of Technology | C. Forbes Dewey Jr.  |           |
| 32 |  | Article | 1960 | Ballistic Research Laboratories    | Elizabeth R. Dickinson   |           |
| 32 |  | Article | 1970 | U.S. Army Missile Command          | Joseph C. Craft and Charles E. Brazzel                           |           |
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| 33 | Mixing, Ignitions, and Combustion Analysis of Air Augmented Solid Rockets with Boron Particles (SQUID) Investigation of the Effect of Low Thrust Levels on the Base Pressure of a Cylindrical Body at Supersonic Speeds (SQUID)  | Article | 1967 | CETEC Corporation                  | S. Channapragada, R. Anderson, T. Duvvuri, and A. Gopalakrishnan |           |
| 33 |  | Article | 1970 | U.S. Army Missile Command          | T. A. Martin and C. E. Brazzel                                   |           |

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| 33 | The Effect of a Rear-Mounted Disc on the Drag of a Blunt-Based Body of Revolution (SQUID)   | Article   | 1965 | Cambridge University               | W. A. Mair                               |
| 33 | Reduction of Base Drag by Boat-Tailed Afterbodies in Low-Speed Flow (SQUID)   | Article   | 1969 | Cambridge University               | W. A. Mair                               |
| 33 | Symposium on Airframe/Propulsion Interference (SQUID) On Boundary Layers and Upstream Influence II.   | Symposium | 1974 |                                    | Jacky Leynaert                           |
| 33 | Supersonic Flows Without Separation (SQUID)   | Article   | 1952 | University of Manchester           | M. J. Lighthill                          |
| 33 | A Review of Hypersonic Wake Studies (SQUID)   | Article   | 1965 | The Rand Corporation               | Paul S. Lykoudis                         |
| 33 | Interrelationship Between Boundary Layer and Base Pressure (SQUID)  | Article   | 1951 | U.S. Naval Ordnance Laboratory     | H. H. Kurzweg                            |
| 33 | A Theory for Base Pressures on Multinozzle Rocket Configurations (SQUID)  | Article   | 1969 | The University of Texas at Austin  | J. P. Lamb, K. A. Abbud, and C. S. Lenzo |
| 33 | The Effect of Base Bleed on the Steady Separated Flow Past Bluff Objects (SQUID)  | Article   | 1969 | Stanford University                | L. G. Leal and A. Acrivos                |
| 33 | Supersonic Separated and Reattaching Laminar Flows: I. General Theory and Application to Adiabatic Boundary-Layer/Shock-Wave Interactions (SQUID) | Article   | 1964 | California Institute of Technology | Lester Lees and Barry L. Reeves          |
| 33 | Wake Investigation on Sharp and Blunt Nose Cones at Supersonic Speeds (SQUID)   | Article   | 1958 | U.S. Naval Ordnance Laboratory     | R. Lehnert and V. L. Schermerhorn        |

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| 33 | Correlation of Base Pressure and Wake Structure of Sharp- and Blunt-Nose Cones with Reynolds Number Based on Boundary-Layer Momentum Thickness (SQUID) | Article | 1958 | Naval Ordnance Laboratory Aerospace Research Laboratories | R. Lehnert and V. L. Schermerhorn                          |
| 33 | An Experiment with Particles in a Free Vortex (SQUID)  | Article | 1967 |   | Siegfried H. Haigner                                       |
| 33 | Numerical Predictions for Ignition of a Confined Reactive Gas (SQUID)  | Article | 1977 | U.S. Army Ballistic Research Laboratory                   | Douglas E. Kooker  |
| 33 | Observations on the Burning of Droplets in the Absence of Buoyancy (SQUID)   | Article | 1977 | University of California                                  | Brian Knight and F. A. Williams                            |
| 33 | Current Status of Droplet and Liquid Combustion (SQUID)  | Article |      | Pennsylvania State University                             | G. M. Faeth  |
| 33 | Ignition of Magnesium Powders in Shock Wave Induced Flows (SQUID)  | Article | 1977 | University of Michigan                                    | T.W. Fox and J.A. Nicholls                                 |
| 33 | Some Perceptions on Condensed Phase Flame Spreading and Mass Burning (SQUID)   | Article | 1977 | Princeton University                                      | I. Glassman R.A. Altenkirch, R. Eichhorn, and A.B. Brancic |
| 33 | Buoyancy Induced Extinction of Laminar Gas Jet Diffusion Flames (SQUID)  | Article |      | University of Kentucky                                    | S. Prakash and W. A. Sirignano                             |
| 33 | Liquid Fuel Droplet Heating with Internal Circulation (SQUID)  | Article | 1977 | NASA Lewis Research Center                                | H. G. Semerjian and I. C. Ball                             |
| 33 | Potential Reduction in No <sub>x</sub> Emissions with Premixed Combustors (SQUID)  | Article | 1977 | United Technologies Corporation                           |  |
| 33 | An Advanced Combustor Analytical Design Procedure and Its Application in the Design and Development Testing of a Premix/Prevaporized                   | Article | 1977 | AiResearch Manufacturing Company of Arizona               | R. S. Reynolds, T. E. Kuhn, and H. C. Mongia               |

Combustion System  
(SQUID)

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| 33 | Swirl Flow Modeling<br>and Prediction for<br>Combustor<br>Applications (SQUID)   | Article | 1977 | Cornell University  | David G.<br>Lilley<br>P.B. Patil,<br>M. Sichel,<br>and J.A.<br>Nicholls   |
| 33 | Analysis of Spray<br>Combustion in a<br>Research Gas Turbine<br>Combustor (SQUID)  | Article | 1977 | Concordia<br>University   |   |
| 33 | Effect of Partial<br>Pyrolysis on the<br>Ignition Delay of Coal<br>Particles (SQUID)   | Article | 1977 | University of<br>Michigan   | C. C. Hwang<br>and M.<br>Kathiresan   |
| 33 | Compressible<br>Boundary-Layer<br>Computation by the<br>Method of Weighted<br>Residuals Using<br>Exponentials (SQUID)  | Article | 1971 | University of<br>Pittsburgh   | Nimai K.<br>Mitra and<br>Hartmut H.<br>Bossel<br>A. F.<br>Messiter, G.<br>R. Hough,<br>and A. Feo<br>N. S.<br>Matveeva<br>and V. Ya.<br>Neiland<br>John F.<br>McCarthy Jr.<br>and Toshi<br>Kubota |
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| 33 | A Study of Wakes<br>behind a Circular<br>Cylinder and M = 5.7<br>(SQUID)   | Article | 1967 | North American<br>Aviation, Inc. and<br>California Institute<br>of Technology |   |
| 33 | The Turbulent<br>Supersonic Base<br>Pressure Problem: A<br>Comparison Between<br>a Theory and Some<br>Experimental<br>Evidence (SQUID)   | Article | 1963 |   |   |
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| 33 | An Analysis of the Turbulent Base Pressure Problem in Supersonic Axisymmetric Flow (SQUID) | Article             | 1964 | British Aircraft Corporation                                      | H. McDonald   |           |
| 33 | Computer Modelling Techniques for Laminar and Turbulent Combustion (SQUID)                 | Article             | 1977 | Imperial College of Science and Technology                        | D. Brian Spalding<br>Josette Bellan and Martin Summerfield        | Duplicate |
| 33 | A Theoretical Study of Droplet Extinction by Depressurization (SQUID)                      | Article             | 1977 | Princeton University  | J. Hellat, W. Lenz, and R. Gunther                                |           |
| 33 | Measurements of Fluctuating Temperature in Enclosed Swirling Flames (SQUID)                | Article             |      | Engler-Bunte-Institute Sandia Laboratories and Cornell University | F. C. Gouldin   |           |
| 33 | Model for Premixed Turbulent Flames (SQUID)  | Article             | 1977 |   | A.C. Styles, N. Syred, and S. Najim                               |           |
| 33 | A Study of Modulatable Cyclone Combustors Using Gaseous Fuel (SQUID)                       | Article             |      | University College  | J. L. Krazinski, R. O. Buckius, and H. Krier                      |           |
| 33 | Modeling Coal Dust-Air Flames with Radiative Transport (SQUID)                             | Article             | 1977 | University of Illinois  |   |           |
| 33 | Fluid Mechanics of Combustion Process (SQUID)  | Conference Schedule | 1977 | The Combustion Institute and NASA Lewis Research Center           | A. D. Gosman, M. L. Koosinlin, F. C. Lockwood, and D. B. Spalding |           |
| 33 | Transfer of Heat in Rotating Systems (SQUID)   | Article             | 1975 | Imperial College  |   |           |
| 33 | Prediction of Flow and Combustion in a Three-Dimensional Combustor (SQUID)                 | Article             | 1975 | Imperial College of Science and Technology                        | M. A. Serag-Eldin and D. B. Spalding                              |           |
| 33 | Concentration Fluctuations in Isothermal Turbulent Confined Coaxial Jets (SQUID)           | Article             | 1975 | Imperial College of Science and Technology                        | S. E. Elghobashi, W. M. Pun, and D. B. Spalding                   |           |

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| 33 | Measurements in the Region of Recirculation Behind a Disc (SQUID)  | Article      | 1974 | Imperial College of Science and Technology | D. F. G. Durao and J. H. Whitelaw        |
| 33 | An Exploratory Study of a Three-Dimensional Shock Wave Boundary Layer Interaction at Mach 3 (SQUID)                          | Article      | 1975 | Princeton University                       | B. Oskan, I. E. Vas, and S. M. Bogdonoff |
| 33 | An Examination of Spectrum Analysis for the Processing of Laser Anemometer Signals (SQUID)                                   | Article      | 1973 | Imperial College of Science and Technology | J. O. Asalor                             |
| 33 | Turbulence Models and their Experimental Verification 13. Turbulence Measurements in High Temperature Fluxes (SQUID)         | Article      | 1973 | Imperial College of Science and Technology | J. H. Whitelaw<br>A. K. Majumdar,        |
| 33 | Numerical Computation of Flow in Rotating Ducts (SQUID)  | Article      | 1975 | Imperial College of Science and Technology | V. S. Pratap, and D. B. Spalding         |
| 33 | The Numerical Computation of Flow in Rotating Ducts by a Parabolic Procedure (SQUID)   | Article      | 1975 | Imperial College of Science and Technology | A. K. Majumdar and D. B. Spalding        |
| 33 | Optical Beam Methods for Velocity Measurements (SQUID)   | Short Course | 1973 | Imperial College of Science and Technology |  |
| 33 | Performance Characteristics of Two Frequency-Tracking Demodulators and a Counting System: Measurements in an Air Jet (SQUID) | Article      | 1974 | Imperial College of Science and Technology | D. F. G. Durao and J. H. Whitelaw        |
| 33 | Miscellaneous pages of various reports (SQUID)   |              |      |  |  |

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| 34 | AC Electronics -<br>Technical Reports<br>(SQUID)   | Technical<br>Report | 1968-1975 | AC Electronics  |
| 34 | AC Electronics -<br>Correspondence<br>(SQUID)  | Correspondence      | 1970      | AC Electronics  |
| 34 | AC Electronics -<br>Proposal and<br>Contract (SQUID)   | Proposals           | 1970-1971 | AC Electronics  |
| 34 | Adelberg Research<br>and Development<br>Laboratory -<br>Correspondence<br>(SQUID)            | Correspondence      | 1968      | Adelberg Research<br>and Development<br>Laboratory      |
| 34 | Advanced Technology<br>Laboratories -<br>Correspondence<br>(SQUID)                           | Correspondence      | 1971-1973 | Advanced<br>Technology<br>Laboratories                  |
| 34 | Advanced Technology<br>Laboratories -<br>Proposal & Contract<br>(SQUID)                      | Proposals           | 1971-1974 | Advanced<br>Technology<br>Laboratories                  |
| 34 | Aerodyne Research,<br>Inc. - Proposal and<br>Contract (SQUID)                                | Proposals           | 1971-1974 | Aerodyne<br>Research, Inc.                              |
| 34 | Aerodyne Research,<br>Inc. - Correspondence<br>(SQUID)                                       | Correspondence      | 1972      | Aerodyne<br>Research, Inc.                              |
| 34 | Aerojet-General -<br>Correspondence<br>(SQUID)   | Correspondence      | 1967      | Aerojet-General   |
| 34 | Aeronautical<br>Research Association<br>of Princeton -<br>Contracts and<br>Proposals (SQUID) | Correspondence      | 1974-1976 | Aeronautical<br>Research<br>Association of<br>Princeton |
| 34 | Atlantic Research<br>Corporation -<br>Correspondence<br>(SQUID)                              | Correspondence      | 1957-1975 | Atlantic Research<br>Corporation                        |
| 34 | Atlantic Research<br>Corporation -<br>Technical Reports<br>(SQUID)                           | Technical<br>Report | 1968-1972 | Atlantic Research<br>Corporation                        |
| 34 | University of Arizona<br>- Proposal & Contract<br>(SQUID)                                    | Proposals           | 1973-1974 | University of<br>Arizona                                |
| 34 | University of Arizona<br>- Correspondence<br>(SQUID)   | Correspondence      | 1973      | University of<br>Arizona                                |
| 34 | Auburn University -<br>Correspondence<br>(SQUID)   | Correspondence      | 1969      | Auburn University                                       |

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| 34 | Auburn University -<br>Proposal and<br>Contract (SQUID)                 | Proposals           | 1969-1970 | Auburn University                    |
| 34 | Avco Everett<br>Research -<br>Correspondence<br>(SQUID)                 | Correspondence      | 1970-1973 | Avco Everett<br>Research             |
| 34 | Avco Everett<br>Research - Proposal<br>and Contract (SQUID)             | Proposals           | 1970-1974 | Avco Everett<br>Research             |
| 34 | Avco Everett<br>Research - Technical<br>Reports (SQUID)                 | Technical<br>Report | 1972      | Avco Everett<br>Research             |
| 34 | Avco Systems Division<br>- Correspondence<br>(SQUID)                    | Correspondence      | 1970-1971 | Avco Systems<br>Division             |
| 34 | Avco Systems Division<br>- Proposal and<br>Contract (SQUID)             | Proposals           | 1970-1972 | Avco Systems<br>Division             |
| 34 | Battelle Columbus<br>Laboratories -<br>Proposal and<br>Contract (SQUID) | Proposals           | 1972-1973 | Battelle Columbus<br>Laboratories    |
| 34 | Battelle Columbus<br>Laboratories -<br>Correspondence<br>(SQUID)        | Correspondence      | 1972      | Battelle Columbus<br>Laboratories    |
| 34 | Bell Aerospace<br>Company -<br>Correspondence<br>(SQUID)                | Correspondence      | 1970-1975 | Bell Aerospace<br>Company            |
| 34 | Bell Aerospace<br>Company - Proposal<br>and Contract (SQUID)            | Proposals           | 1971-1976 | Bell Aerospace<br>Company            |
| 34 | Bell Aerospace<br>Company - Technical<br>Reports (SQUID)                | Technical<br>Report | 1972-1976 | Bell Aerospace<br>Company            |
| 34 | Brown University -<br>Correspondence<br>(SQUID)                         | Correspondence      | 1967-1975 | Brown University                     |
| 34 | Brown University -<br>Proposal and<br>Contract (SQUID)                  | Proposals           | 1967-1977 | Brown University                     |
| 34 | Bureau of Mines -<br>Correspondence<br>(SQUID)                          | Correspondence      | 1969-1970 | Bureau of Mines                      |
| 34 | Bureau of Mines -<br>Proposal and<br>Contract (SQUID)                   | Proposals           | 1969-1971 | Bureau of Mines                      |
| 34 | University of<br>California Berkeley -<br>Technical Reports<br>(SQUID)  | Technical<br>Report | 1976      | University of<br>California Berkeley |

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| 34 | University of California Berkeley - Contracts and Proposals (SQUID)    | Proposals        | 1970-1971 | University of California Berkeley      |
| 34 | University of California Berkeley - Correspondence (SQUID)             | Correspondence   | 1970      | University of California Berkeley      |
| 34 | California State College - Correspondence (SQUID)                      | Correspondence   | 1972      | California State College               |
| 34 | California State College - Proposal & Contract (SQUID)                 | Proposals        | 1972-1972 | California State College               |
| 35 | University of California Santa Barbara - Correspondence (SQUID)        | Correspondence   | 1968-1974 | University of California Santa Barbara |
| 35 | University of California Santa Barbara - Proposal and Contract (SQUID) | Proposals        | 1967-1975 | University of California Santa Barbara |
| 35 | University of California San Diego - Proposal and Contract (SQUID)     | Proposals        | 1967-1973 | University of California San Diego     |
| 35 | University of Southern California - Technical Reports (SQUID)          | Technical Report |           | University of Southern California      |
| 35 | Calpsan Corporation - Correspondence (SQUID)                           | Correspondence   | 1967-1974 | Calspan Corporation                    |
| 35 | Calspan Corporation - Proposal and Contract (SQUID)                    | Proposals        | 1967-1976 | Calspan Corporation                    |
| 35 | Calspan Corporation - Technical Reports (SQUID)                        | Technical Report | 1968-1974 | Calspan Corporation                    |
| 35 | Carnegie Institute of Technology - Proposal and Contract (SQUID)       | Proposals        | 1967-1969 | Carnegie Institute of Technology       |
| 35 | Carnegie Institute of Technology - Correspondence (SQUID)              | Correspondence   | 1967      | Carnegie Institute of Technology       |
| 35 | Carnegie-Mellon University - Proposal and Contract (SQUID)             | Proposals        | 1976-1977 | Carnegie-Mellon University             |

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| 35 | CETEC Corporation -<br>Correspondence<br>(SQUID)                   | Correspondence      | 1967-1968 | CETEC Corporation              |
| 35 | CETEC Corporation -<br>Proposal and<br>Contract (SQUID)            | Proposals           | 1967-1969 | CETEC Corporation              |
| 35 | University of<br>Cincinnati -<br>Correspondence<br>(SQUID)         | Correspondence      | 1968-1974 | University of<br>Cincinnati    |
| 35 | University of<br>Cincinnati - Proposal<br>and Contract (SQUID)     | Proposals           | 1968-1976 | University of<br>Cincinnati    |
| 35 | City University of<br>New York -<br>Correspondence<br>(SQUID)      | Correspondence      | 1967-1974 | City University of<br>New York |
| 35 | Colorado State<br>University - Proposal<br>and Contract (SQUID)    | Proposals           | 1968-1975 | Colorado State<br>University   |
| 35 | University of<br>Colorado - Proposal<br>and Contract (SQUID)       | Proposals           | 1969-1970 | University of<br>Colorado      |
| 35 | University of<br>Colorado - Technical<br>Reports (SQUID)           | Technical<br>Report |           | University of<br>Colorado      |
| 35 | University of<br>Connecticut -<br>Correspondence<br>(SQUID)        | Correspondence      | 1970-1971 | University of<br>Connecticut   |
| 35 | University of<br>Connecticut -<br>Proposal and<br>Contract (SQUID) | Proposals           | 1971-1973 | University of<br>Connecticut   |
| 35 | Cornell University -<br>Correspondence<br>(SQUID)                  | Correspondence      | 1968-1973 | Cornell University             |
| 35 | Creare Incorporate -<br>Proposal and<br>Contract (SQUID)           | Proposals           | 1975-1976 | Creare Incorporate             |
| 35 | University of<br>Delaware -<br>Correspondence<br>(SQUID)           | Correspondence      | 1969      | University of<br>Delaware      |
| 35 | University of<br>Delaware - Proposal<br>and Contract (SQUID)       | Proposals           | 1969-1970 | University of<br>Delaware      |
| 35 | University of Denver -<br>Correspondence<br>(SQUID)                | Correspondence      | 1968-1973 | University of<br>Denver        |
| 35 | University of Denver -<br>Proposal and<br>Contract (SQUID)         | Proposals           | 1966-1973 | University of<br>Denver        |

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| 35 | Detroit Diesel Allison Division - Technical Reports (SQUID)         | Technical Report | 1971-1974 | Detroit Diesel Allison Division     |                 |
| 35 | Detroit Diesel Allison Division - Proposal and Contract (SQUID)     | Proposals        | 1971-1976 | Detroit Diesel Allison Division     |                 |
| 36 | Drexel University - Correspondence (SQUID)                          | Correspondence   | 1970-1973 | Drexel University                   |                 |
| 36 | Douglas Aircraft Company - Correspondence (SQUID)                   | Correspondence   | 1971      | Douglas Aircraft Company            |                 |
| 36 | Douglas Aircraft Company - Proposal and Contract (SQUID)            | Proposals        | 1971-1972 | Douglas Aircraft Company            |                 |
| 36 | Dynalysis of Princeton - Proposal and Contract (SQUID)              | Proposals        | 1973-1974 | Dynalysis of Princeton              | Signed original |
| 36 | Dynamic Science - Proposal and Contract (SQUID)                     | Proposals        | 1968-1971 | Dynamic Science                     |                 |
| 36 | Dynamic Science - Correspondence (SQUID)                            | Correspondence   | 1968-1970 | Dynamic Science                     |                 |
| 36 | Engineering Consultant - Correspondence (SQUID)                     | Correspondence   | 1971-1973 | Engineering Consultant              |                 |
| 36 | Factory Mutual Research Corporation - Correspondence (SQUID)        | Correspondence   | 1970      | Factory Mutual Research Corporation |                 |
| 36 | Factory Mutual Research Corporation - Proposal and Contract (SQUID) | Proposals        | 1970-1971 | Factory Mutual Research Corporation |                 |
| 36 | University of Florida - Correspondence (SQUID)                      | Correspondence   | 1971-1975 | University of Florida               |                 |
| 36 | General Applied Science Lab, Inc. - Correspondence (SQUID)          | Correspondence   | 1970      | General Applied Science Lab, Inc.   |                 |
| 36 | General Applied Science Lab, Inc. - Proposal and Contract (SQUID)   | Proposals        | 1969-1977 | General Applied Science Lab, Inc.   |                 |
| 36 | G. E. Space Sciences Laboratory - Correspondence (SQUID)            | Correspondence   | 1967-1969 | G. E. Space Sciences Laboratory     |                 |

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| 36 | G. E. Space Sciences Laboratory - Proposal and Contract (SQUID)       | Proposals        | 1967-1970 | G. E. Space Sciences Laboratory       |
| 36 | General Electric Company - Proposal and Contract (SQUID)              | Proposals        | 1970-1971 | General Electric Company              |
| 36 | Georgia Institute of Technology - Correspondence (SQUID)              | Correspondence   | 1967-1975 | Georgia Institute of Technology       |
| 36 | Georgia Institute of Technology - Technical Reports (SQUID)           | Technical Report | 1968-1971 | Georgia Institute of Technology       |
| 36 | Greyrad Corporation - Correspondence (SQUID)                          | Correspondence   | 1967-1976 | Greyrad Corporation                   |
| 36 | Greyrad Corporation - Proposal and Contract (SQUID)                   | Proposals        | 1967-1970 | Greyrad Corporation                   |
| 36 | Gulf Radiation Technology - Correspondence (SQUID)                    | Correspondence   | 1971-1973 | Gulf Radiation Technology             |
| 36 | University of Illinois Chicago Circle - Correspondence (SQUID)        | Correspondence   | 1968-1972 | University of Illinois Chicago Circle |
| 36 | University of Illinois Chicago Circle - Proposal and Contract (SQUID) | Proposals        | 1971-1975 | University of Illinois Chicago Circle |
| 36 | Intelcom Rad Tech - Proposal and Contract (SQUID)                     | Proposals        | 1975-1976 | Intelcom Rad Tech                     |
| 36 | Illinois Institute of Technology - Proposal and Contract (SQUID)      | Proposals        | 1970-1973 | Illinois Institute of Technology      |
| 36 | Illinois Institute of Technology - Correspondence (SQUID)             | Correspondence   | 1970-1972 | Illinois Institute of Technology      |
| 36 | Iowa State University - Correspondence (SQUID)                        | Correspondence   | 1973-1975 | Iowa State University                 |
| 37 | Johns Hopkins University - Correspondence (SQUID)                     | Correspondence   | 1967-1975 | Johns Hopkins University              |
| 37 | Johns Hopkins University - Proposal and Contract (SQUID)              | Proposals        | 1968-1976 | Johns Hopkins University              |



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| 37 | Kansas State University - Correspondence (SQUID)                      | Correspondence   | 1970-1971 | Kansas State University               |
| 37 | Kansas State University - Proposal and Contract (SQUID)               | Proposals        | 1970-1972 | Kansas State University               |
| 37 | Lehigh University - Proposal and Contract (SQUID)                     | Proposals        | 1973-1977 | Lehigh University                     |
| 37 | Louisiana State University - Correspondence (SQUID)                   | Correspondence   | 1969-1974 | Louisiana State University            |
| 37 | Louisiana State University - Proposal and Contract (SQUID)            | Proposals        | 1969-1973 | Louisiana State University            |
| 37 | Marist College - Correspondence (SQUID)                               | Correspondence   | 1974      | Marist College                        |
| 37 | Martin Marietta - Correspondence (SQUID)                              | Correspondence   | 1968-1971 | Martin Marietta                       |
| 37 | Martin Marietta - Proposal and Contract (SQUID)                       | Proposals        | 1968-1970 | Martin Marietta                       |
| 37 | University of Maryland - Correspondence (SQUID)                       | Correspondence   | 1970      | University of Maryland                |
| 37 | University of Maryland - Proposal and Contract (SQUID)                | Proposals        | 1970-1977 | University of Maryland                |
| 37 | Massachusetts Institute of Technology - Correspondence (SQUID)        | Correspondence   | 1967-1975 | Massachusetts Institute of Technology |
| 37 | Massachusetts Institute of Technology - Proposal and Contract (SQUID) | Proposals        | 1967-1977 | Massachusetts Institute of Technology |
| 37 | Massachusetts Institute of Technology - Technical Reports (SQUID)     | Technical Report | 1967-1975 | Massachusetts Institute of Technology |
| 37 | McDonnell Douglas Research Labs - Correspondence (SQUID)              | Correspondence   | 1975-1976 | McDonnell Douglas Research Labs       |

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| 37 | McDonnell Douglas<br>Research Labs -<br>Proposal and<br>Contract (SQUID) | Proposals           | 1976-1977 | McDonnell<br>Douglas Research<br>Labs |
| 37 | University of<br>Massachusetts -<br>Correspondence<br>(SQUID)            | Correspondence      | 1967-1968 | University of<br>Massachusetts        |
| 37 | University of<br>Massachusetts -<br>Proposal and<br>Contract (SQUID)     | Proposals           | 1967-1970 | University of<br>Massachusetts        |
| 37 | Mechanical Tech. Inc.<br>- Correspondence<br>(SQUID)                     | Correspondence      | 1971      | Mechanical Tech.<br>Inc.              |
| 37 | Mechanical Tech. Inc.<br>- Proposal and<br>Contract (SQUID)              | Proposals           | 1971-1972 | Mechanical Tech.<br>Inc.              |
| 38 | University of<br>Michigan - Proposal<br>and Contract (SQUID)             | Proposals           | 1972-1977 | University of<br>Michigan             |
| 38 | University of<br>Michigan - Proposal<br>and Contract 2<br>(SQUID)        | Proposals           | 1967-1976 | University of<br>Michigan             |
| 38 | University of<br>Michigan - Technical<br>Reports (SQUID)                 | Technical<br>Report | 1968-1976 | University of<br>Michigan             |
| 38 | Michigan State<br>University - Technical<br>Reports (SQUID)              | Technical<br>Report | 1974-1975 | Michigan State<br>University          |
| 38 | Midwest Research<br>Institute -<br>Correspondence<br>(SQUID)             | Correspondence      | 1971-1973 | Midwest Research<br>Institute         |
| 38 | Midwest Research<br>Institute - Proposal<br>and Contract (SQUID)         | Proposals           | 1971-1974 | Midwest Research<br>Institute         |
| 38 | University of<br>Minnesota -<br>Correspondence<br>(SQUID)                | Correspondence      | 1967-1973 | University of<br>Minnesota            |
| 38 | University of<br>Minnesota - Proposal<br>and Contract (SQUID)            | Proposals           | 1967-1979 | University of<br>Minnesota            |
| 38 | University of Missouri<br>- Contract and<br>Proposal (SQUID)             | Proposals           | 1972-1977 | University of<br>Missouri             |
| 38 | Naval Postgraduate<br>School -<br>Correspondence<br>(SQUID)              | Correspondence      | 1971-1973 | Naval<br>Postgraduate<br>School       |

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| 38 | Naval Weapons<br>Center -<br>Correspondence<br>(SQUID)                         | Correspondence | 1972      | Naval Weapons<br>Center                     |
| 38 | Naval Weapons<br>Center - Proposals &<br>Contracts (SQUID)                     | Proposals      | 1972-1973 | Naval Weapons<br>Center                     |
| 38 | Nielsen Engineering<br>and Research Inc. -<br>Correspondence<br>(SQUID)        | Correspondence | 1970-1973 | Nielsen<br>Engineering and<br>Research Inc. |
| 38 | Nielsen Engineering<br>and Research Inc. -<br>Proposal and<br>Contract (SQUID) | Proposals      | 1970-1974 | Nielsen<br>Engineering and<br>Research Inc. |
| 38 | New York State<br>University -<br>Correspondence<br>(SQUID)                    | Correspondence | 1970      | New York State<br>University                |
| 38 | New York State<br>University - Proposal<br>and Contract (SQUID)                | Proposals      | 1970-1976 | New York State<br>University                |
| 38 | Northrop Corporate<br>Lab - Correspondence<br>(SQUID)                          | Correspondence | 1970      | Northrop<br>Corporate Lab                   |
| 38 | Northrop Corporate<br>Lab - Proposal and<br>Contract (SQUID)                   | Proposals      | 1970-1971 | Northrop<br>Corporate Lab                   |
| 38 | University of<br>Northwestern -<br>Correspondence<br>(SQUID)                   | Correspondence | 1969-1970 | University of<br>Northwestern               |
| 38 | University of<br>Northwestern -<br>Correspondence 2<br>(SQUID)                 | Correspondence | 1969      | University of<br>Northwestern               |
| 39 | University of Notre<br>Dame - Proposal and<br>Contract (SQUID)                 | Proposals      | 1968-1971 | University of Notre<br>Dame                 |
| 39 | Ohio State University<br>- Correspondence<br>(SQUID)                           | Correspondence | 1968-1970 | Ohio State<br>University                    |
| 39 | Ohio State University<br>- Proposal and<br>Contract (SQUID)                    | Proposals      | 1970-1971 | Ohio State<br>University                    |
| 39 | Oklahoma State<br>University - Proposal<br>and Contract (SQUID)                | Proposals      | 1967-1968 | Oklahoma State<br>University                |
| 39 | Oklahoma State<br>University -<br>Correspondence<br>(SQUID)                    | Correspondence | 1967      | Oklahoma State<br>University                |

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| 39 | University of<br>Oklahoma -<br>Correspondence<br>(SQUID)                 | Correspondence      | 1967-1973 | University of<br>Oklahoma               |
| 39 | University of<br>Oklahoma - Proposal<br>and Contract (SQUID)             | Proposals           | 1973-1975 | University of<br>Oklahoma               |
| 39 | Pennsylvania State<br>University - Proposal<br>and Contract (SQUID)      | Proposals           | 1967-1976 | Pennsylvania State<br>University        |
| 39 | Pennsylvania State<br>University - Proposal<br>and Contract 2<br>(SQUID) | Proposals           | 1976-1977 | Pennsylvania State<br>University        |
| 39 | Pennsylvania State<br>University - Technical<br>Reports (SQUID)          | Technical<br>Report | 1974-1975 | Pennsylvania State<br>University        |
| 39 | Philco -<br>Correspondence<br>(SQUID)                                    | Correspondence      | 1970-1974 | Philco                                  |
| 39 | Photo Chem<br>Industries -<br>Correspondence<br>(SQUID)                  | Correspondence      | 1970-1971 | Photo Chem<br>Industries                |
| 39 | Photo Chem<br>Industries - Proposal<br>and Contract (SQUID)              | Proposals           | 1970-1972 | Photo Chem<br>Industries                |
| 39 | University of<br>Pittsburgh -<br>Correspondence<br>(SQUID)               | Correspondence      | 1970      | University of<br>Pittsburgh             |
| 39 | University of<br>Pittsburgh - Proposal<br>and Contract (SQUID)           | Proposals           | 1970-1976 | University of<br>Pittsburgh             |
| 39 | Polytechnic Institute<br>of Brooklyn -<br>Technical Reports<br>(SQUID)   | Technical<br>Report | 1971-1976 | Polytechnic<br>Institute of<br>Brooklyn |
| 39 | Princeton University -<br>Correspondence<br>(SQUID)                      | Correspondence      | 1967-1975 | Princeton<br>University                 |
| 39 | Purdue University -<br>Correspondence<br>(SQUID)                         | Correspondence      | 1969-1973 | Purdue University                       |
| 39 | Purdue University -<br>Proposal and<br>Contract (SQUID)                  | Proposals           | 1970-1976 | Purdue University                       |
| 39 | R & D Associates -<br>Correspondence<br>(SQUID)                          | Correspondence      | 1973-1975 | R & D Associates                        |
| 39 | Rensselaer<br>Polytechnic Institute -                                    | Correspondence      | 1967-1974 | Rensselaer<br>Polytechnic<br>Institute  |

Correspondence  
(SQUID)

|    |   |                     |           |  |
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| 39 | Rensselaer<br>Polytechnic Institute -<br>Proposal and<br>Contract (SQUID) | Proposals           | 1967-1975 | Rensselaer<br>Polytechnic<br>Institute |
| 39 | Rice University -<br>Correspondence<br>(SQUID)                            | Correspondence      | 1967-1972 | Rice University                        |
| 39 | Rice University -<br>Technical Reports<br>(SQUID)                         | Technical<br>Report | 1968-1972 | Rice University                        |
| 39 | University of<br>Rochester -<br>Correspondence<br>(SQUID)                 | Correspondence      | 1975-1976 | University of<br>Rochester             |
| 39 | Rocketdyne -<br>Correspondence<br>(SQUID)                                 | Correspondence      | 1969-1973 | Rocketdyne                             |
| 39 | Rocketdyne -<br>Proposal and<br>Contract (SQUID)                          | Proposals           | 1969-1974 | Rocketdyne                             |
| 40 | Rutgers University -<br>Proposal and<br>Contract (SQUID)                  | Proposals           | 1976-1977 | Rutgers University                     |
| 40 | Scientific Associates -<br>Correspondence<br>(SQUID)                      | Correspondence      | 1971-1973 | Scientific<br>Associates               |
| 40 | Scientific Associates -<br>Proposal and<br>Contract (SQUID)               | Proposals           | 1975-1977 | Scientific<br>Associates               |
| 40 | Southwest Research<br>Institute - Proposal<br>and Contract (SQUID)        | Proposals           | 1970-1972 | Southwest<br>Research Institute        |
| 40 | Stanford Research<br>Institute -<br>Correspondence<br>(SQUID)             | Correspondence      | 1966-1973 | Stanford Research<br>Institute         |
| 40 | Stanford Research<br>institute - Technical<br>Reports (SQUID)             | Technical<br>Report | 1968-1971 | Stanford Research<br>Institute         |
| 40 | Stanford University -<br>Proposal and<br>Contract (SQUID)                 | Proposals           | 1966-1974 | Stanford<br>University                 |
| 40 | Stanford University -<br>Technical Reports<br>(SQUID)                     | Technical<br>Report | 1968-1972 | Stanford<br>University                 |
| 40 | Stevens Institute of<br>Technology -<br>Correspondence<br>(SQUID)         | Correspondence      | 1970-1975 | Stevens Institute<br>of Technology     |

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| 40 | Stevens Institute of Technology - Proposal and Contract (SQUID) | Proposals        | 1971-1975 | Stevens Institute of Technology |
| 40 | University of Tennessee - Proposal and Contract (SQUID)         | Proposals        | 1970-1977 | University of Tennessee         |
| 40 | University of Tennessee - Correspondence (SQUID)                | Correspondence   | 1970-1974 | University of Tennessee         |
| 40 | University of Texas at Austin - Correspondence (SQUID)          | Correspondence   | 1970      | University of Texas at Austin   |
| 40 | University of Texas at Austin - Proposal and Contract (SQUID)   | Proposals        | 1969-1976 | University of Texas at Austin   |
| 40 | Texas A&M University - Proposal and Contract (SQUID)            | Proposals        | 1973      | Texas A&M University            |
| 40 | Texas Tech University - Correspondence (SQUID)                  | Correspondence   | 1971-1972 | Texas Tech University           |
| 40 | Texas Tech University - Proposal and Contract (SQUID)           | Proposals        | 1972-1973 | Texas Tech University           |
| 40 | Thiokol Chemical Corporation - Correspondence (SQUID)           | Correspondence   | 1973-1974 | Thiokol Chemical Corporation    |
| 40 | TRW Systems - Proposal and Contract (SQUID)                     | Proposals        | 1967-1977 | TRW Systems                     |
| 40 | TRW Systems - Correspondence (SQUID)                            | Correspondence   | 1967-1975 | TRW Systems                     |
| 40 | United Aircraft Research Lab - Proposal and Contract (SQUID)    | Proposals        | 1970-1976 | United Aircraft Research Lab    |
| 41 | United Aircraft Research Lab - Technical Reports (SQUID)        | Technical Report | 1972-1976 | United Aircraft Research Lab    |
| 41 | United Technology Center - Correspondence (SQUID)               | Correspondence   | 1973-1975 | United Technology Center        |
| 41 | Versar, Inc. - Proposal and Contract (SQUID)                    | Proposals        | 1970-1971 | Versar, Inc.                    |
| 41 | Virginia Polytechnic Institute -                                | Correspondence   | 1970-1974 | Virginia Polytechnic Institute  |

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|    | Correspondence<br>(SQUID)  |                     |           |                                      |
| 41 | Virginia Polytechnic<br>Institute - Proposal<br>and Contract (SQUID) | Proposals           | 1972-1974 | Virginia<br>Polytechnic<br>Institute |
| 41 | Virginia Polytechnic<br>Institute - Technical<br>Reports (SQUID)     | Technical<br>Report | 1974-1977 | Virginia<br>Polytechnic<br>Institute |
| 41 | Virginia Polytechnic<br>Institute - Technical<br>Reports 2 (SQUID)   | Technical<br>Report | 1972-1974 | Virginia<br>Polytechnic<br>Institute |
| 41 | University of Virginia<br>- Correspondence<br>(SQUID)                | Correspondence      | 1967-1975 | University of<br>Virginia            |
| 41 | Washington State<br>University -<br>Correspondence<br>(SQUID)        | Correspondence      | 1970-1973 | Washington State<br>University       |
| 41 | Washington State<br>University - Proposal<br>and Contract (SQUID)    | Proposals           | 1970-1974 | Washington State<br>University       |
| 41 | University of<br>Washington -<br>Correspondence<br>(SQUID)           | Correspondence      | 1970      | University of<br>Washington          |
| 41 | University of<br>Washington -<br>Proposal and<br>Contract (SQUID)    | Proposals           | 1970-1971 | University of<br>Washington          |
| 41 | Wayne State<br>University -<br>Correspondence<br>(SQUID)             | Correspondence      | 1971-1973 | Wayne State<br>University            |
| 41 | University of Western<br>Ontario -<br>Correspondence<br>(SQUID)      | Correspondence      | 1967-1969 | University of<br>Western Ontario     |
| 41 | University of Western<br>Ontario - Proposal<br>and Contract (SQUID)  | Proposals           | 1967-1970 | University of<br>Western Ontario     |
| 41 | Yale University -<br>Proposal and<br>Contract (SQUID)                | Proposals           | 1972-1974 | Yale University                      |
| 41 | Yale University -<br>Technical Reports<br>(SQUID)                    | Technical<br>Report | 1968-1975 | Yale University                      |