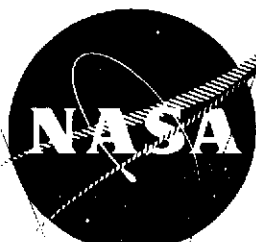


2

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DIRECTORY OF AEROSPACE SAFETY SPECIALIZED INFORMATION SOURCES

by Eleanor A. Fullerton

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5827 Columbia Pike

Falls Church, Virginia 22041

prepared for

Aerospace Safety Research and Data Institute

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Lewis Research Center

Contract NAS 3-16540

George Mandel, Program Manager

Paul J. McKenna, Technical Advisor

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16. Abstract The purpose of this Directory is to make available to the aerospace safety community a handbook of organizations and experts in specific, well-defined areas of safety technology. It is designed for the safety specialist as an aid for locating both information sources and individual points of contact (experts) in engineering related fields. The file covers sources of data in aerospace design, tests, and operations, as well as information in hazard and failure cause identification, accident analysis, materials characteristics, and other related subject areas. These 171 organizations and their staff members, hopefully, should provide technical information in the form of documentation, data and consulting expertise. These will be sources that have assembled and collated their information, so that it will be useful in the solution of engineering problems. One of the goals of the project is to provide a consolidated listing and description of information resources primarily in the United States that have and are willing to share data of value to the aerospace safety community.					
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FOREWORD

The Aerospace Safety Research and Data Institute's mission and objectives are: (a) to support NASA, its contractors and the aerospace industry with technical information and consultation on safety problems; (b) to identify areas where safety problems and technology voids exist and to initiate research programs, both in-house and on contract, in these problem areas; (c) to author and compile state-of-the-art and summary publications in our areas of concern; and (d) to establish and operate a Safety Data Bank.

ASRDI has initiated a number of safety-related research projects which are currently being performed in-house at Lewis and other NASA Centers and on contract with other government agencies and industrial organizations.

ASRDI is concentrating on selected areas: fire and explosion; cryogenic systems; propellants and other hazardous materials, with special emphasis on oxygen and hydrogen; aeronautical systems and aircraft operations; lightning hazards; and the mechanics of structural failure.

Staff expertise is backed by a safety library and is further supported by a computerized bank of citations and abstracts built from literature on oxygen, hydrogen, and fire and explosion. Computer files on mechanics of structural failure, fragmentation hazards, and safety information sources are also being established.

This project on Specialized Information Sources is part of the objective to establish and maintain a file of specialized information sources and recognized, acknowledged experts in the specific areas of ASRDI's interest. This Directory supplements ASRDI's collection of validated aerospace safety-related scientific and engineering information.

Frank E. Belles, Director
Aerospace Safety Research
and Data Institute

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INTRODUCTION

The purpose of this Directory is to make available to the aerospace Safety community a handbook of organizations and experts in specific, well-defined areas of safety technology. It is designed for the safety specialist as an aid for locating both information sources and individual points of contact (experts) in engineering related fields.

These 171 organizations and their staff members, hopefully, should provide technical information in the form of documentation, data and consulting expertise. These will be sources that have assembled and collated their information, so that it will be useful in the solution of engineering problems. One of the goals of the project is to provide a consolidated listing and description of information resources primarily in the United States that have and are willing to share data of value to the aerospace safety community.

The file covers sources of data in aerospace design, tests, and operations, as well as information in hazard and failure cause identification, accident analysis, materials characteristics, and other related subject areas. Although the interests of aviation, aerospace, and ground support safety are of primary concern, the comprehensive coverage of the Directory will provide information of considerable value to safety professionals in many other fields.

More than one thousand organizations with aerospace-safety-related information were contacted.

An Aerospace Safety Specialized information Source was defined as an organization that satisfies the following requirements:

- a. Maintains a specialized collection or file of materials relevant to aerospace safety.
- b. Regularly provides qualified users with information on a particular subject, or with referrals to outside experts.
- c. Has a responsibility to function as an Information Source; however, this responsibility does not have to be formalized as part of their charter.

To present the contents of this Directory in an easy reference form, two indexes were developed using keyword terms to identify and highlight the expertise of the organizations and their staff members.

These keywords were selected to describe these Information Sources and their Experts with meaningful terms that have a direct application to safety related problem areas.

In addition, an Information Sources Record was developed to standardize the basic elements which would describe the resources and information capabilities of each Information Source. The Record's emphasis would be on its usefulness for quickly locating sources of information who are most active or most knowledgeable in the discipline related to aerospace technology.

The contents of this Directory are based on the format of the Record which was developed specifically for this project.

This is recognized as being an incomplete listing of Information Sources and represents only an initial installment. Nevertheless, it is hoped that it will contribute as a working guide to those who seek specialized safety information relative to aerospace technology.

It is apparent that serious information gaps exist and candidates for a revised register are encouraged, both from the standpoint of organizations who have special information files, as well as individuals who are recognized experts in specific areas of aerospace technology.

We also realize that there are other well qualified organizations who are not included. A number of them requested their omission for various management reasons.

George Mandel, Program Manager

AEROSPACE SAFETY SPECIALIZED INFORMATION SOURCES

AEC TECHNICAL INFORMATION CENTER (DTIC)

ADDRESS: PO Box 62
Oak Ridge, TN
37830

TELEPHONE: (615)483-8611, x3-4352

DIRECTOR: Shannon, R. L.

PARENT-SPONSOR-HOST AFFILIATION: US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: To encourage the dissemination of scientific and technical information relating to atomic energy in order to provide that free interchange of ideas and criticisms which is essential to scientific and industrial progress and public understanding.

SUBJECT SCOPE: Nuclear science and technology.

MAJOR SUBJECT TERMS: Accident/incident investigation; Accident/incident reporting; Aerospace nuclear safety; Dangerous industrial radiation; Extraterrestrial environmental hazards; Ionizing radiation; Nuclear blast; Nuclear radiation; Nuclear safety; Radioactive decontamination; Radiation detection; Radiation effects; Radiation protection; Radiation resistance; Radiation tolerance levels; Radioactive wastes; Solar radiation.

RESEARCH AND DEVELOPMENT ACTIVITIES: Publishes compilations of on-going research projects in certain subject fields.

SPECIAL SCOPE FEATURES: Nuclear science aspects of: chemistry, engineering, environmental and earth sciences, instrumentation, isotope and radiation source technology, life sciences, materials, nuclear materials and waste management, particle accelerators, physics (astrophysics and cosmology), physics (atmospheric), physics (atomic and molecular), physics (electrofluid and magnetofluid), physics (high-energy), physics (low-temperature), physics (nuclear), physics (plasma and thermonuclear), physics (radiation and shielding), physics (solid-state), physics (theoretical), and reactor technology.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Shannon, R. L.	Technical information	(615)483-8611 x3-4352
Norris, J. W.	Technical information	(615)483-8611 x3-4352

STAFF: Full-time - professional 84, nonprofessional 131, total 215; part-time - professional 8, nonprofessional 6, total 14.

INTERNAL PUBLICATIONS: Book catalogs; books; abstracts; indexes; technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Reports and reprints: 400,000; films and slides: 400+.

DATA BANK RESOURCES:

Name or <u>ACFONYM</u>	Description of Contents	Range of Years	No. of Records
RECON	Nuclear science and technology	1968 - present	300,000
RESPONSA	Nuclear science and technology	1962 - present	550,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; advisory and consulting services; referrals; bibliographic abstracts; translations.

USER QUALIFICATIONS: General technology community; Government employees; and Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

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AEROSPACE AND ENVIRONMENTAL MEDICINE INFORMATION SYSTEM (AEMIS)

ADDRESS: Lovelace Foundation for Medical Education and Research
5200 Gibson Boulevard, SE
Albuquerque, NM
87108

TELEPHONE: (505) 842-7031

DIRECTOR: Masters, R. L.

PARENT-SPONSOR-HOST AFFILIATION: Lovelace Foundation for Medical Education and Research

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To speed retrieval of information in the field of life sciences, particularly that related to the effects of space flight on the biological system.

SUBJECT SCOPE: Aerospace medicine; clinical and preventive medicine; biology; systematic, environmental, and stress physiology; bionics; electronic sensors; toxicology and pharmacology; human engineering; geophysical sciences; basic chemistry, mathematics, and physics; engineering; materials and metals; nuclear weapons and blast effects; and nuclear medicine.

MAJOR SUBJECT TERMS: Aerospace medicine; Biomechanics; Biotechnology; Extraterrestrial environmental hazards; Ionizing radiation; Personal protective equipment; Personnel subsystems; Physiology; Psychology; Toxic substances.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on trauma produced by human exposure to blast effects, inhalation toxicology, and other areas of space medicine, bioastronautics, biotechnology, and related fields.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Masters, R. L.	Life sciences; Computer sciences	(505) 842-7031

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference list bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; ad hoc permission.

May 1973

AEROSPACE MATERIALS INFORMATION CENTER (AMIC)

ADDRESS: University of Dayton Research Institute
 KL 445
 Dayton, OH
 45409

TELEPHONE: (513) 229-3711 or 255-2160

DIRECTOR: March, J. F.

PARENT-SPONSOR-MOST AFFILIATION: University of Dayton Research Institute and US Department of Defense (Department of the Air Force, Air Force Materials Laboratory)

MISSION: To serve the information needs of the entire scientific and technical staff of the Air Force Materials Laboratory (AFML) and also contractors and other government organizations.

SUBJECT SCOPE: Aeronautics; astronomy, astrophysics, atmospheric sciences, geosciences; chemistry, biology, medicine; electronics, electrical engineering; adhesives, seals, sealants; ceramics, graphites, refractories, glasses, minerals; coatings, paints, oxide films; composite materials; fibers, textiles, cloth; metallurgy, metallography; lubricants, oils; polymers, plastics; elastomers, rubber, cleaning compounds, surface active substances; wood and paper products; fuels, propellants; mechanical, industrial, civil, marine engineering; methods and equipments; nuclear science and technology; physics; space technology, missiles.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Testing and development of new aerospace materials; making flight load studies and performing other flight dynamics research; performing statistical studies of aircraft ground fire suppression and rescue.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
March, J. F.	Technical information	(513) 229-3711

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

USER QUALIFICATIONS: Immediate staff or members; Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May-1973

AEROSPACE RESEARCH APPLICATIONS CENTER

ADDRESS: Poplars Research and Conference Center, Indiana University
Bloomington, IN
47401

TELEPHONE: (812)337-7833

DIRECTOR: Shriner, R. D.

PARENT-SPONSOR-HOST AFFILIATION: Indiana University Foundation

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To provide in-depth access to the world's technical information resources.

SUBJECT SCOPE: Space and aeronautics, including materials, management, life support, biomedical technology, electronics, computers, communications, propulsion systems, clean room technology, cryogenics; behavioral and social sciences; biological, chemical, and physical sciences; earth sciences and oceanography; mechanical, industrial, civil and marine engineering; human factors engineering; nuclear sciences; pollution.

MAJOR SUBJECT TERMS: Adhesives; Chemistry; Civil engineering; Composites; Graphite; Lubricants; Mathematical sciences; Nuclear sciences; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Shriner, R. D.	Technical information	(812)337-7833

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; custom abstracting and indexing.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

AEROSPACE SAFETY RESEARCH AND DATA INSTITUTE (ASRDI)

ADDRESS: NASA-Lewis Research Center
21000 Brookpark Road
Cleveland, OH
44135

TELEPHONE: (216) 443-4000

DIRECTOR: Belles, F. E.

PARENT-SPONSOR-HOST AFFILIATION: National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To support NASA, its contractors and the aerospace industry with technical information and consultation on safety problems; to identify areas where safety problems and technology voids exist and to initiate research programs both in-house and on contract in these problem areas; to author and compile state-of-the-art and summary publications in our areas of concern; to establish and operate a Safety Data Bank which includes a file of Specialized Information Sources (organizations) and experts in the specific areas or fields of ASRDI's interests.

SUBJECT SCOPE: Aerospace safety, including mechanics of structural failure; man-machine hazards; structural materials limitations (metallic and nonmetallic); propellants, fuels, lubricants, hydraulic fluids safety; cryogenic safety; fire, explosion and detonations; aerospace explosives, pyrotechnics and initiators; aircraft problems; space vehicle problems; launch base operations; nuclear safety; extraterrestrial environmental hazards; dangerous industrial radiation; dangerous materials; safety manuals, codes, specifications, standards; safety analysis.

MAJOR SUBJECT TERMS: Aerospace explosives; Aerospace safety engineering; Aircraft problems; Cryogenic safety; Dangerous industrial radiation; Extraterrestrial environmental hazards; Fire, explosion, and detonations; Hazardous materials; Hydraulic fluids; Launch base operations; Lubricants; Man-machine hazards; Mechanics of structural failure; Nuclear safety; Propellants and fuels; Pyrotechnics safety; Safety analysis; Safety manuals; Safety standards; Space vehicle problems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs safety related research projects at Lewis, and other NASA Centers, and on contract, including fire protection on the shuttle and orbiting workshop, lightning hazards to aerospace electrical systems, rotor burst protection for aircraft, aircraft braking systems, safety problems involving the systems handling of cryogenic propellants, flaw growth tests of 304 stainless steel pressure vessels, safety problems and hazards of the space base nuclear system and oxygen safety.

SPECIAL SCOPE FEATURES: ASRDI's expertise is safety technology in the areas of propellant safety; oxygen safety; fire, explosions, and detonations; and aircraft operating problems (such as altimetry, improved braking materials and runway, and rotor burst fragmentation studies). Research is being pursued on the mechanics of structural failure and structural materials limitations. The areas of aerospace explosives, pyrotechnics and initiators; space vehicle problems; launch base operations; nuclear safety; extraterrestrial environmental hazards; dangerous industrial radiation; dangerous materials; safety manuals, codes, specifications, standards, etc.; and safety analysis have not been developed to any great extent.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Belles, F. E.	Propellants	(216) 433-4000 x453
Hacker, P. T.	Fire and explosion	(216) 433-4000 x6898
Mandel, G.	Technical information	(216) 433-4000 x285
Ordin, P. M.	Cryogenic fluids	(216) 433-4000 x6941
McKenna, P. J.	Technical information	(216) 433-4000 x285
Schmidt, H. W.	Oxygen	(216) 433-4000 x564
Weiss, S.	Aircraft operating problems	(216) 433-4000 x6898

STAFF: Full-time - professional 11, nonprofessional 2, total 13; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.

AEROSPACE SAFETY RESEARCH AND DATA INSTITUTE (ASRDI)

HOLDINGS: Books: 1,000; abstracts/indexes; reports and reprints: 10,000; periodicals; standards and specifications.

DATA BANK RESOURCES:

Name or <u>ACRONYM</u>	Description of Contents	Range of Years	No. of <u>Records</u>
ASRDI	Oxygen	1970 - present	4,000
CRYO	NBS-Boulder's file on cryogenics		85,000
COMAT	Compatibility of Materials		39,000
FRASIC	NBS-Gaithersburg File on Fire	1972 - present	2,000
RECON	NASA	1962 - present	900,000
NSIC	Nuclear Safety		75,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material); Federal security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

AIR FORCE FLIGHT DYNAMICS LABORATORY (AFFDL)

ADDRESS: Director of Laboratories, ATTN: D00
Wright-Patterson Air Force Base, OH
45433

TELEPHONE: (513) 255-2532

DIRECTOR: Scolatti, C. A.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Air Force)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To plan and execute USAF exploratory and advanced development programs for aerospace vehicle technology, including entire flight systems integration.

SUBJECT SCOPE: Aerospace flight vehicle structures, aerodynamics, aerothermodynamics, performance, vehicle dynamics, flight control, recovery and crew stations, cryogenics, environmental control, and mechanical systems.

MAJOR SUBJECT TERMS: Abort procedures; Aerodynamics; Air navigation; Aircraft problems; Aircraft subsystems; Aircraft types; Communications; Corrosion properties; Emergency equipment; Emergency planning; Environmental influences; Experimental aircraft; Mechanical properties; Mechanics of structural failure; Operational mode; Personnel selection; Personnel training; Physical properties; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts configuration research, ground and flight tests, and simulation relative to advanced aerospace flight vehicles and develops experimental flight vehicles to acquire design data and criteria by integrating and demonstrating new technology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Scolatti, C. A.	Physical sciences	(513) 255-2532
Arthur, G.	Physical sciences	(513) 255-4995

STAFF: Full-time - professional 700, nonprofessional 450, total 1150; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; graphics/tabular materials.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

AIR FORCE MACHINABILITY DATA CENTER (MDC)

ADDRESS: Metcut Research Associates, Inc.
3980 Rosslyn Drive
Cincinnati, OH
45209

TELEPHONE: (513) 271-9510; TWX (810) 461-2840

DIRECTOR: Kahles, J. P. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Defense Supply Agency) and Metcut Research Associates, Inc.

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To collect, evaluate, store, and disseminate material removal information, including specific and detailed machinery data, for the benefit of industry and Government.

SUBJECT SCOPE: Engineering evaluation for the purpose of developing optimized material removal parameters, such as spuds, feeds, depths of cut, tool material and geometry, cutting fluids and other significant variables; materials; material removal operations, such as turning, milling, drilling, tapping, grinding, electrical discharge machining, electrochemical machining, and surface integrity.

MAJOR SUBJECT TERMS: Aluminum; Copper; Ferrous metals; Industrial processes; Industrial safety; Machinery; Machining; Magnesium; Material removal; Materials; Mechanical properties; Metal powders; Nickel; Plastics; Precious metals; Titanium; Zirconium.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Kahles, J. F.	Materials	(513) 271-9510
Garrison, R. C.	Information and data	(513) 271-9510
Ackenhaussen, A. E.	Documentation	(513) 271-9510
Krebs, J. L.	Computer sciences	(513) 271-9510
Snide, R. E.	Machining	(513) 271-9510
Perkins, K.	Documentation	(513) 271-9510

STAFF: Full-time - professional 6, nonprofessional 1, total 7; part-time - professional 7, nonprofessional 1, total 8.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; referrals.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

AIR POLLUTION TECHNICAL INFORMATION CENTER (APTIC)

ADDRESS: Office of Air Quality Planning and Standards
Research Triangle Park, NC
27711

TELEPHONE: (919) 549-8411 x2141

DIRECTOR: Halpin, P.

PARENT-SPONSOR-HOST AFFILIATION: US Environmental Protection Agency

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To collect and disseminate domestic and foreign technical literature related to air pollution.

SUBJECT SCOPE: Air pollution and related subjects.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution; Dangerous materials disposal; Noise; Radioactive decontamination; Radioactive spills; Radioactive wastes; Sanitation.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Halpin, P.	Environmental sciences	(919) 549-8411 x2141
Knight, J.	Chemistry; Air pollution	(919) 549-8411 x2141

STAFF: Full-time - professional 4, nonprofessional 4, total 8; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes: 50,000; reports and reprints; reference lists/bibliographies.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
APTIC	Abstracts on Air Pollution	1966 - present	50,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to users.

May 1973

ALLOY DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (202) 921-2917

DIRECTOR: Carter, G. C.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To stimulate the communication and exchange of information among the already existing data centers in the field of physical properties of metals and alloys; to collect and evaluate data in those areas for which there is special competence in alloy physics.

SUBJECT SCOPE: Data evaluation in the fields of soft x-ray spectra and nuclear magnetic resonance (NMR) in metals and alloys, susceptibilities, specific heats, Mossbauer effect, hyperfine fields, and quantum description of solids.

MAJOR SUBJECT TERMS: Aluminum; Beryllium; Cobalt; Copper; Ferrous metals; Magnesium; Magnetic properties; Metal powders; Nickel; Precious metals; Titanium.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Carter, G. C.	Metallurgy; Physics	(202) 921-2917
Kahan, D. J.	Solid state physics	(202) 921-2917
Bennett, L. H.	Solid state physics; Metals	(202) 921-2982

STAFF: Full-time - professional 0, nonprofessional 0, total 0; part-time - professional 1-1/2, nonprofessional 1, total 2-1/2.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations. Total number of titles: 17,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)

ADDRESS: PO Box 1937
Cincinnati, OH
45201

TELEPHONE: (513) 684-2652

DIRECTOR: Kelley, W. D.

MISSION: To promote all aspects of industrial hygiene; to coordinate industrial hygiene activities on all levels of government with community agencies, and to encourage the interchange of experience among these personnel; to collect and make accessible information of assistance to governmental industrial hygienists.

SUBJECT SCOPE: Industrial hygiene, including agricultural health, air pollution, air sampling instruments, safety analysis, industrial ventilation, ionizing radiation, nursing services, threshold limits for airborne contaminants and physical agents, hyperbaric environments, aerosol hazards, direct-reading gas detecting tube systems, mining environments, sampling and testing, and standards.

MAJOR SUBJECT TERMS: Aerospace nuclear safety; Atmospheric monitoring; Crew considerations; Dangerous industrial radiation; Dangerous materials; Environmental degradation; Environmental influences; Hazard detection systems; Human characteristics; Human factors analysis; Human factors design; Industrial safety; Life support design; Mission abort practices; Nuclear power plant safety design; Personal protective equipment; Protective clothing; Radiation shielding; Toxic effects; Toxic substances.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Kelley, W. D.	Industrial safety and health	(513) 684-2652
Stokinger, H. E.	Toxicology	(513) 684-2697

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA)

ADDRESS: 66 South Miller Road
Akron, OH
44313

TELEPHONE: (216) 836-9537

DIRECTOR: McCormick, W. E.

MISSION: To promote the study and control of environmental factors affecting the health of industrial workers; to collect, exchange, and disseminate information pertaining to industrial hygiene; to unify the specialties within industrial hygiene; to provide communication among governmental, industrial, and educational groups; to develop nomenclature for better communication; and to establish toxicity and labelling criteria for products.

SUBJECT SCOPE: The recognition of environmental factors and stresses associated with work and work operations, their ability to impair man's health and well being, and the prescription of methods to control or reduce such factors or stresses to alleviate their effects.

MAJOR SUBJECT TERMS: Biological sciences; Environmental effects; Environmental factors; Hygiene; Industrial safety and health; Safety analysis; Toxicology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
McCormick, W. E.	Industrial hygiene	(216) 836-9537

INTERNAL PUBLICATIONS: Abstracts; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973

AMERICAN INSTITUTE OF PHYSICS (AIP)

ADDRESS: 335 East 45th Street
New York, NY
10017

TELEPHONE: (212) 685-1940

DIRECTOR: Koch, H. W.

YEAR INFORMATION SOURCE BEGAN: 1931

MISSION: To further the advancement and diffusion of the knowledge of physics and its application to human welfare.

SUBJECT SCOPE: Physics; astronomy, optics; astrophysics; acoustics; and spectroscopy.

MAJOR SUBJECT TERMS: Acoustic loading; Biotechnology; Cosmic radiation; Cosmic rays; Electromagnetic disturbances; Electromagnetic radiation; Environmental influences; Fatigue (materials); Galactic radiation; Gravity; Interplanetary gases; Ionizing radiation; Meteoroids; Nuclear radiation; Physical properties; Radiation; Shock and vibration; Solar radiation; Thermodynamic properties.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Koch, H. W.	Physics	(212) 685-1940

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
SPIN	Physics and astronomy journal literature		
CPM	Current Physics Microforms		
CPT	Current Physics Titles		
CPAA	Current Physics Advance Abstracts		

REFERENCE AND QUERY SERVICES: State-of-the-art reviews; bibliographic abstracts; translations.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC)

ADDRESS: 101 Park Avenue
New York, NY
10017

TELEPHONE: (212) 685-7374

DIRECTOR: Edmonds, J. K.

YEAR INFORMATION SOURCE BEGAN: 1921

MISSION: To improve and advance the use of fabricated structural steel; and to develop through research and engineering the most efficient, safe, and economical fabrication and design of steel frame structures.

SUBJECT SCOPE: Steel design and construction.

MAJOR SUBJECT TERMS: Construction materials; Construction practices; Fabrication processes; Fastening methods; Industrial processes; Joining methods; Steel; Steel alloys; Steel construction; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research into the behavior of steel structures and their components, resulting in improved specifications, new design methods, and safer, more efficient and economical steel buildings and bridges.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Edmonds, J. K.	Steel construction	(212) 685-7374

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; periodicals/journals; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

AMERICAN MEDICAL ASSOCIATION (AMA)

ADDRESS: Department of Environmental, Public, and Occupation Health
535 North Dearborn Street
Chicago, IL
60610

TELEPHONE: (312) 527-1500

DIRECTOR: Finkel, A. J. (Dr)

MISSION: AMA's occupational health activities are handled with the support of staff members and appropriate consultants. In addition, the name of the Council on Environmental and Public Health was changed to the Council on Environmental, Occupational and Public Health to reflect the emphasis on occupational medicine.

SUBJECT SCOPE: Environmental sciences, industrial safety and health, human factors engineering, toxicology, mental health and alcoholism, aerospace medicine, workmen's compensation reform, preventive medicine, radiation hazards, employment of handicapped persons, and disaster medical service.

MAJOR SUBJECT TERMS: Air pollution control; Biomedical engineering; Contamination; Emergency planning; Environmental effects; Health hazards; Hygiene; Industrial safety and health; Life sciences; Physiological stress; Physiology; Radiation physiological effects; Safety practices; Sanitation; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Finkel, A. J.	Industrial safety and health	(312) 527-1500

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ADDRESS: 1430 Broadway
New York, NY
10018

TELEPHONE: (212)868-1220

DIRECTOR: Trowbridge, R. P.

MISSION: To coordinate standards development in the private sector, which is presently carried on primarily by the Institute's organizational members and public bodies.

SUBJECT SCOPE: American National Standards relating to: construction, mechanics, acoustics, electricity and electronics, fuel gas, graphics, heating, air conditioning, refrigeration, highway traffic safety, information processing systems, materials and testing, mining, nuclear energy, photography, physical distribution, piping and processing equipment, safety, textiles, and welding.

MAJOR SUBJECT TERMS: Accident reporting; Air navigation; Aircraft laws/standards/regulations; Aircraft servicing; Airport emergency facilities/equipment; Airport lighting; Dangerous industrial radiation; Dangerous materials; Detection and warning systems; Fabrication processes; Fire extinguishment methods; Fire fighting equipment; Fire retardant materials; Flight paths and approaches; Fuel farm facilities/operations; Joining methods; Materials standardization; Mechanical properties; Nuclear safety; Safety laws.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Trowbridge, R. P.	Standards	(212)868-1220

INTERNAL PUBLICATIONS: Book catalogs; books; abstracts; indexes; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

AMERICAN NUCLEAR SOCIETY (ANS)

ADDRESS: 244 East Ogden Avenue
Hinsdale, IL
60521

TELEPHONE: (312) 325-1991

DIRECTOR: DuTemple, O. J.

YEAR INFORMATION SOURCE BEGAN: 1954

MISSION: To further the advancement of science and engineering relating to the atomic nucleus, and of allied sciences and arts, and the integration of the scientific disciplines constituting nuclear science and technology; to encourage research, establish scholarships, disseminate information, hold meetings devoted to scientific and technological papers, and cooperate with government agencies, educational institutions, and other similar organizations

SUBJECT SCOPE: Nuclear science, aerospace, remote systems technology, isotopes and radiation, materials science technology, power, reactor physics, shielding and dosimetry, reactor operations, mathematics and computation, civil explosion applications, nuclear criticality safety, nuclear fuel cycle, environmental sciences, controlled nuclear fusion, nuclear reactor safety, and engineering.

MAJOR SUBJECT TERMS: Environmental sciences; Human factors; Ionizing radiation; Materials; Nuclear energy; Nuclear fuels; Nuclear safety; Power sources; Radiation effects; Radiation protection; Radiation tolerance levels; Radioactive decontamination; Reactor technology; Seismology; Shielding; Survival; Toxicology.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs manpower surveys.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (X)
DuTemple, O. J.	Nuclear power	(312) 325-1991
Jacobson, N.	Nuclear power	(312) 325-1991
Quinn, R.	Nuclear power	(312) 325-1991
Payne, J.	Nuclear power	(312) 325-1991
Brown, R.	Nuclear power	(312) 325-1991
Harris, R.	Nuclear power	(312) 325-1991

STAFF: Full-time - professional 5, nonprofessional 30, total 35; part-time - professional 3, nonprofessional 4, total 7.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Range of years total: 1958 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973

AMERICAN PETROLEUM INSTITUTE (API)

ADDRESS: 1801 K Street, NW
Washington, DC
20006

TELEPHONE: (202) 833-5690

DIRECTOR: McKenna, J. F.

YEAR INFORMATION SOURCE BEGAN: 1919

MISSION: To promote the general interests of the petroleum industry in all its branches; to foster foreign and domestic trade in American petroleum products; to afford a means of cooperation with the governments in matters of national concern; and to promote the mutual improvement of the members through the study of arts and sciences connected with the petroleum industry. This is the parent organization of the API-CAIS (Central Abstracting and Indexing Service). See No. S730018.

SUBJECT SCOPE: The origin, occurrence, composition, measurement, and properties of petroleum; the refining, marketing, and transporting of petroleum; geology; geophysics; accounting; economics; paleontology; research; air and water conservation; wildlife conservation; occupational medicine and environmental health.

MAJOR SUBJECT TERMS: Compressed gases; Corrosion properties; Dangerous materials disposal; Ethylene; Explosives; Fire, explosion, and detonations; Flammables; Fuel farm facilities/operations; Fuels; Hydrogen; Launch operations; Liquefied gases; Lubricants; Methane; Nitrogen; Shipping procedures; Shipping regulations; Storage procedures; Transportation procedures; Transportation regulations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
McKenna, J. F.	Petroleum; Materials	(202) 833-5690

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Interlibrary loans.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

AMERICAN PETROLEUM INSTITUTE (CAIS)

ADDRESS: Central Abstracting and Indexing Service
275 Madison Avenue
New York, NY
10016

TELEPHONE: (212) 586-4203

DIRECTOR: Brenner, E. H.

MISSION: To satisfy the petroleum industry's need for access to technical information, past and present. This is the technical information and abstracting service of the American Petroleum Institute. See No. S730017.

SUBJECT SCOPE: Refining, petrochemicals, developments in all phases of petroleum.

MAJOR SUBJECT TERMS: Fire, explosion, and detonations; Explosion and detonations; Fuels; Hazardous materials; Hydraulic fluids; Lubricants; Oils; Organic chemistry; Petroleum; Physics; Propellants and fuels; Refining; Safety engineering; Thermodynamics.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Brenner, E. H.	Petroleum	(212) 586-4203

INTERNAL PUBLICATIONS: Abstracts; indexes; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; bibliographic abstracts; custom abstracting and indexing services.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

AMERICAN PSYCHOLOGICAL ASSOCIATION (APA)

ADDRESS: 1200 Seventeenth Street, NW
Washington, DC
20036

TELEPHONE: (202)833-7639

DIRECTOR: Preston, H. O. (Dr)

YEAR INFORMATION SOURCE BEGAN: 1892

MISSION: To advance psychology as a science and as a means of promoting human welfare by the encouragement of psychology in all its branches and in the broadest and most liberal manner.

SUBJECT SCOPE: Psychology, behavioral sciences, and human factors engineering.

MAJOR SUBJECT TERMS: Human characteristics; Human factors analysis; Human factors design; Human functions; Job performance aids; Personnel selection; Personnel training; Psychology; Senses.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Preston, H. C.	Psychology	(202) 833-7639

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

DATA BANK RESOURCES:

<u>Name or Acronym</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
PASAR	Psychological Abstracts	1967 - present	110,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

May 1973

AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT)

ADDRESS: 914 Chicago Avenue
Evanston, IL
60202

TELEPHONE: (312)475-4600

DIRECTOR: Searles, C. E.

YEAR INFORMATION SOURCE BEGAN: 1941

MISSION: To advance scientific, engineering, and technical knowledge in the field of nondestructive testing through education, research, and the compilation and dissemination of information useful to the individual and beneficial to the public.

SUBJECT SCOPE: Nondestructive testing in areas of aerospace, automotive, marine, and railroad transportation; aluminum, chemicals, petroleum, electronics, materials (metallic and nonmetallic), nuclear energy, rubber, steel, and utilities; electrical and magnetic methods, holography, infrared and thermal techniques, leak testing, penetrating radiation, penetrants, and sonics.

MAJOR SUBJECT TERMS: Aerospace ground operations; Aerospace safety engineering; Aircraft certification; Aircraft servicing; Fire extinguishment methods; Fire extinguishment testing; Fire, explosion, and detonations; Industrial safety; Mechanics of structural failure; Nondestructive testing; Safety practices; Safety regulations; Servicing; Statutes; Structural materials limitations; Test data; Test equipment; Test facilities; Test results; Test techniques.

RESEARCH AND DEVELOPMENT ACTIVITIES: Has research division, presently inactive.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Searles, C. E.	Nondestructive testing	(312) 475-4600

INTERNAL PUBLICATIONS: Handbooks/manuals; statistical compilations; periodicals/journals; newsletters/trade literature; standards and specifications.

HOLDINGS: Books; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for users outside of organization.

May 1973

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

ADDRESS: United Engineering Center
345 East 47th Street
New York, NY
10017

TELEPHONE: (212)752-6800

DIRECTOR: Zwoyer, E. (Dr)

YEAR INFORMATION SOURCE BEGAN: 1867

MISSION: To advance the profession by improving education and engineering techniques; by stimulating, coordinating, and promoting an increased research effort; and by obtaining a better understanding of the role of the civil engineer in society.

SUBJECT SCOPE: Air transport; construction; engineering mechanics; highways; hydraulics; irrigation and drainage; pipelines; power; sanitary engineering; soil mechanics and foundations; structures; surveying and mapping; urban planning and development; waterways, harbors, and coastal engineering; oceanography; urban transportation; and environmental control.

MAJOR SUBJECT TERMS: Airport construction; Airport facilities; Airport lighting; Construction materials; Construction practices; Environmental effects; Fuel farm facilities/operations; Ground recovery facilities; Hydraulic engineering; Landing aids; Lubricants; Maintenance facilities; Propellants and fuels; Safety analysis of equipment; Safety regulations; Structural engineering; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research councils on underground construction, structural plastics, urban water resources, and recommendations of standards.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Zwoyer, E.	Civil engineering	(212)752-6800

STAFF: Full-time - professional 1, nonprofessional 0, total 1; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
	Abstracts	1970 - present	5,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

May 1973

AMERICAN SOCIETY OF LUBRICATION ENGINEERS (ASLE)

ADDRESS: 838 Busse Highway
Park Ridge, IL
60068

TELEPHONE: (312)825-5536

DIRECTOR: West, C. H.

MISSION: To promote the advancement of the knowledge and application of the science of lubrication and related arts and sciences.

SUBJECT SCOPE: Aerospace, forest industries, railroads, mining, machine tools, cleaners and solvents, nonferrous metals, petroleum, chemicals, steel, power generation, bearings, engine lubrication, gears, hydraulics, pollution control, solid lubes, and seals.

MAJOR SUBJECT TERMS: Chemical characteristics; Couplings; Hazardous characteristics; Hydraulic fluids; Lubricants; Physical characteristics.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
West, C. H.	Lubricants; Materials	(312)825-5536

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Reports and reprints.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ADDRESS: United Engineering Center
354 E. 47th Street
New York, NY
10017

TELEPHONE: (212) 752-6800

DIRECTOR: Finch, R. B. (Dr)

YEAR INFORMATION SOURCE BEGAN: 1880

MISSION: To provide a continuing education to mechanical engineers, the industries they serve, and society in general, through the development and dissemination of technical information; to develop mechanical standards, codes, safety procedures and operating principles; to encourage the personal and professional development of practicing and student engineers; to aid members of the engineering profession in maintaining a high level of ethical conduct.

SUBJECT SCOPE: Air pollution; applied mechanics; automatic control; aerospace; biomechanical and human factors; design engineering; diesel and gas engine power; energetics; fluids engineering; fuels; gas turbines; heat transfer; incinerators; lubrication; management; materials handling engineering; materials; nuclear engineering; ocean technology; petroleum; plant engineering and maintenance; power; pressure vessels and piping; process industries; production engineering; rail transportation; safety; technology and society; solar energy; textile engineering.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Sponsors engineering research projects by industrial research organizations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Finch, R. B.	Mechanical engineering	(212) 752-6800

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; translations.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

ADDRESS: 850 Busse Highway
Park Ridge, IL
60068

TELEPHONE: (312) 692-4121

DIRECTOR: Bonner, B. G.

YEAR INFORMATION SOURCE BEGAN: 1911

MISSION: To promote the advancement of the safety profession and to contribute to the well-being and professional development of its members.

SUBJECT SCOPE: Accident and loss-producing conditions and practices, accident analysis, safety design recommendations.

MAJOR SUBJECT TERMS: Accidents; Boilers; Cryogenic systems hazards; Fire prevention; Fire protection; Furnaces; Hazard detection systems; Hazardous materials; Hazardous processes; Health hazards; Human factors design; Machinery safety; Man-machine hazards; Personnel training; Pressure; Safety analysis of equipment; Safety engineering; Safety laws; Safety practices; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Develops accident prevention and loss control information for those directly involved with an accident problem.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Bonner, B. G.	Safety engineering	(312) 692-4121

INTERNAL PUBLICATIONS: Books; handbooks/manuals; periodicals/journals; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973

AMERICAN WELDING SOCIETY (AWS)

ADDRESS: 2501 NW 7th Street
Miami, FL
33125

TELEPHONE: (305) 642-7090

DIRECTOR: Fenton, E. A.

YEAR INFORMATION SOURCE BEGAN: 1919

MISSION: To acquire and make available authentic and up-to-date information on welding, cutting, and the allied processes; to further education in the field of welding; to provide members with opportunities for interchange of ideas, knowledge, and experience; to encourage research in the science and art of welding; and to encourage the development of new uses for and methods of welding.

SUBJECT SCOPE: Filler metal specifications, safety, resistance welding, thermal spraying, brazing and soldering; buildings, bridges, ships, storage tanks, piping, aerospace, and automotive applications; definitions, symbols, and testing.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Air pollutants; Air pollution control; Applied forces (stresses); Corrosion properties; Environmental degradation; Fabrication processes; Failure mechanisms; Health hazards; Industrial safety and health; Joining methods; Mechanical properties; Mechanics of structural failure; Metallurgical processes; Personal protective equipment; Physical properties; Production limitations; Protective clothing; Safety laws; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Fenton, E. A.	Metallurgy	(305) 642-7090

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books: 2,000; reports and reprints: 6,000; periodicals: 300; standards and specifications; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals; bibliographic abstracts.

OTHER SERVICES: Accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

May 1973

ARMED FORCES INSTITUTE OF PATHOLOGY, AEROSPACE BRANCH (AFIP)

ADDRESS: 14th Street and Alaska Avenue, NW
Washington, DC
20306

TELEPHONE: (202) 576-3232

DIRECTOR: McMeekin, R. R.

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To collect information regarding the correlation between pathological evidence and causative factors of aircraft accidents, to initiate pathological investigations, to improve flight safety records, to investigate pathological results of flight stresses and long-duration exposure to environments.

SUBJECT SCOPE: Basic sciences, general pathology, military environmental pathology, dental and oral pathology, veterinary pathology, geographic pathology, radiopathology, education, and medical research.

MAJOR SUBJECT TERMS: Accidents; Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aerospace medicine; Human factors; Medical sciences; Physiology; Psychology; Radiation physiological effects.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports in-house research projects on the pathological changes associated with recurrent exposure to the effects of high altitude, neoplasms, and myocarditis in aircraft accidents; dental identification; and the role of computers in reconstructing fatal injury patterns.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
McMeekin, R. R.	Medical sciences	(202) 576-3232

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; periodicals/journals.

HOLDINGS: Books; abstracts/indexes; reports and reprints; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (AFERI)

ADDRESS: National Naval Medical Center
Bethesda, MD
20014

TELEPHONE: (301) 295-0428

DIRECTOR: Varon, M. I.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Defense Nuclear Agency)

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To conduct scientific research in the field of radiobiology and related matters essential to the medical support of the US military services, the national welfare, and the well-being of mankind.

SUBJECT SCOPE: Biological and medical effects of nuclear weapons, medical hazards associated with nuclear weapons systems, incidents and accidents, and radiological safety.

MAJOR SUBJECT TERMS: Bioinstrumentation; Dangerous industrial radiation; Ionizing radiation; Personal protective equipment; Protective clothing; Radiation; Radiation belts; Radiation detection; Radiation monitoring; Radiation physiological effects; Radioisotopes applications; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Neurobiology (toxicology of radiation and drugs), brain functions and head injuries.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Varon, M. I.	Biological sciences	(301) 295-0428

STAFF: Full-time - professional 1, nonprofessional 2, total 3; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; newsletters/trade literature; graphics/tabular materials.

HOLDINGS: Books: 5,000; abstracts/indexes: 25; reports and reprints: 100,000; periodicals: 200. Total number of titles: 105,225; range of years: 1963 to present.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
MEDLARS	Medical		
DOD	Nuclear effects		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services.

USER QUALIFICATIONS: General technology community; ad hoc permission.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

ARMY BALLISTIC RESEARCH LABORATORIES (BRL)

ADDRESS: US Army Materiel Command
Aberdeen Proving Ground, MD
21005

TELEPHONE: (301) 278-3981

DIRECTOR: Eichelberger, R.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1938

MISSION: To develop and provide to other Army agencies the basic tools for the design and evaluation of weapon systems; to innovate the results of BRL research into feasible concepts for advanced weapon systems or components; to provide consultation services to weapons developers and solve specific problems related to the development of systems or arising during the field use of completed systems.

SUBJECT SCOPE: Applied mathematics; interior, exterior, and terminal ballistics; radiation; vulnerability of military targets, weapon systems, munitions and other appropriate equipment; concepts analysis.

MAJOR SUBJECT TERMS: Acceleration/deceleration; Aerodynamic flow; Aerodynamic friction; Buffeting; Combustion products; Electromagnetic disturbances; Electromagnetic radiation; Environmental influences; Fire and explosion chemistry; Fire and explosion dynamics; Fire, explosion, and detonations; Ionizing radiation; Noise; Nuclear blast; Nuclear radiation; Operational mode; Pressure seals; Pressure waves; Pyrotechnics.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Eichelberger, R.	Ballistics	(301) 278-3981

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: Registration with DDC.

May 1973

ARMY MATERIALS AND MECHANICS RESEARCH CENTER (AMMRC)

ADDRESS: Arsenal Street
Watertown, MA
02172

TELEPHONE: (617)926-1900

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

MISSION: To manage and conduct basic and applied research on materials such as metals, ceramics, polymers, and composites for development of new and improved components of Army weapons systems and to provide support to engineering mechanics elements of commodity commands.

SUBJECT SCOPE: Materials, properties and characteristics, energy and forces affecting equilibrium, deformation, and motion of materials and structures, electron momenta, radiation transfer, ceramics, polymers and fibers, theoretical and applied mechanics.

MAJOR SUBJECT TERMS: Failure mechanisms; Fastening methods; Fatigue (materials); Ferrous metals; Iron; Iron alloys; Joining methods; Material properties; Materials evaluation; Materials research; Mechanical engineering; Mechanics; Mechanics of structural failure; Metals and alloys; Steel; Steel alloys; Stress/strain analysis; Structural dynamics; Structural materials; Test facilities.

STAFF: Full-time - professional 272, nonprofessional 628, total 900; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Reports and reprints; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

ATOMIC AND MOLECULAR IONIZATION PROCESSES DATA CENTER

ADDRESS: Institute for Materials Research
National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-2792

DIRECTOR: Rosenstock, H. M. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To collect and critically evaluate numerical data on the energetics of gaseous ionization.

SUBJECT SCOPE: Gaseous ionization, appearance potentials, properties of ionic states, vacuum ultraviolet spectroscopy, inelastic electron scattering, photoelectron spectroscopy, mass spectrometry, charge exchange, theoretical chemistry.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Dissociation; Electromagnetic phenomena; Ionizing radiation; Molecular structure; Nuclear physics; Physics.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Rosenstock, H. M.	Atomic physics	(301)921-2792

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints: 2,000; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified materials).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

ATOMIC ENERGY LEVELS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-3540

DIRECTOR: Martin, W. C. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To provide critical appraisal of data on atomic spectra; classification of spectral lines and determination of atomic energy levels; a central reference source for energy level data and coordination of experimental work in the limited number of laboratories working in this field.

SUBJECT SCOPE: Atomic energy levels, electron configurations, quantum numbers, magnetic splitting factors, ionization potentials, atomic spectra.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Physical chemistry; Physics.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Martin, W. C.	Atomic physics	(301)921-3540
Haqan, L.	Physical chemistry	(301)921-3540

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Indexes; technical reports; statistical compilations; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

May 1973

ATOMIC TRANSITION PROBABILITIES DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-3374

DIRECTOR: Wiese, W. L.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To collect and catalog all relevant literature, to extract and analyze the numerical data, and to prepare and publish bibliographies and tables of "best" atomic transition probabilities.

SUBJECT SCOPE: Atomic transition probabilities, numerical values for specific transitions, and atomic physics.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Electromagnetic radiation; Ionizing radiation; Radiation detection; Radiation physiological effects; Radiation protection.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts critical evaluations on selected elements, currently including the first 20 elements (hydrogen through calcium), barium I and II, and cadmium through nickel.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wiese, W. L.	Atomic physics	(301)921-2071
Fuhr, J. R.	Atomic physics	(301)921-3374
Martin, G. A.	Atomic physics	(301)921-3374

STAFF: Full-time - professional 2, nonprofessional 1, total 3; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications. Total number of titles: 2,000; range of years total: 1916 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

BATTERY INFORMATION INDEX AND ENERGY STORAGE INFORMATION CENTER (BII)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Room 11-1074A
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x1832; TT (810) 482-1679

DIRECTOR: Johnson, D. M.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To meet the information needs of Wright-Patterson Air Force Base in the field of battery technology.

SUBJECT SCOPE: Sealed aerospace batteries; nickel-cadmium, silver-zinc, silver-cadmium, lithium, and zinc-air batteries; thermal analyses; electrolyte analysis; electrode preparation; accelerated life testing; battery cycling data and apparatus; failure mechanism and failure analyses procedures; hydrogen technology; electrochemical energy; water electrolysis.

MAJOR SUBJECT TERMS: Batteries; Electrolysis; Electricity; Electrical/electronic engineering; Energy conversion; Hydrogen; Power sources.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and development in water electrolysis and electrochemical aspects of hydrogen technology.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Johnson, D. M.	Energy conversion; Batteries	(614) 299-3151

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; newsletters/trade literature; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
BASIS-70	Battelle Automated Search Information System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans; conferences/symposiums.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

May 1973

BIOSCIENCES INFORMATION SERVICE (BIOSIS)

ADDRESS: 2100 Arch Street
Philadelphia, PA
19103

TELEPHONE: (215) 568-4016

DIRECTOR: Parkins, P. V.

YEAR INFORMATION SOURCE BEGAN: 1926

MISSION: To provide for the information needs of biologists throughout the world, and to disseminate bioscientific research literature.

SUBJECT SCOPE: Life sciences, including medical, biological, and behavioral sciences (mycology, entomology, and health effects of environmental pollutants).

MAJOR SUBJECT TERMS: Crew considerations; Dangerous industrial radiation; Hazards; Human factors; Ionizing radiation; Life support; Life support systems; Man-machine hazards; Safety standards; Shielding; Toxic gas; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Parkins, P. V.	Biological sciences	(215) 568-4016

STAFF: Full-time - professional -, nonprofessional -, total 170; part-time - professional -, nonprofessional -, total 350.

INTERNAL PUBLICATIONS: Abstracts; indexes; Reference lists; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes: 2,000,000; reports and reprints: 240,000; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
BASIC	Subject Index for Biological Abstracts		
Standard Profiles	Life sciences		
CLASS	Current Literature Alerting Search Service		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

BUREAU OF AVIATION SAFETY

ADDRESS: National Transportation Safety Board
Washington, DC
20591

TELEPHONE: (202)426-3900

DIRECTOR: Miller, C. O.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (National Transportation Safety Board)

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To promote the advancement of safety in aviation by investigating accidents, holding public hearings, analyzing and evaluating accident reports, making determinations of probable causes; preparing and distributing accident data; and preparing and performing technical and statistical studies directed toward a continuing elevation of the safety level.

SUBJECT SCOPE: Aircraft accident analyses and accident prevention.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Safety analysis; Safety engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Studies aviation safety problem areas.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Miller, C. O.	Aviation safety	(202) 426-3900

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

Name or <u>ACROBYM</u>	Description of Contents	Range of Years	No. of <u>Records</u>
SOLARAD	System of On-Line Analysis and Retrieval of Accident Data		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

BUREAU OF EXPLOSIVES

ADDRESS: 1920 L Street, NW
Washington, DC
20036

TELEPHONE: (202) 293-4048

PARENT-SPONSOR-HOST AFFILIATION: Association of American Railroads

YEAR INFORMATION SOURCE BEGAN: 1905

MISSION: To provide expert and impartial liaison between shippers and the Department of Transportation, provide shippers with a reliable source of information regarding DOT packaging requirements and regulations; act as a central repository to ensure international regulatory uniformity; approve special packages for shipment, provide advice and educational programs on packaging and loading problems.

SUBJECT SCOPE: The safe handling, packaging, transporting, storing, and disposing of explosives and other flammable or dangerous materials.

MAJOR SUBJECT TERMS: Accident/incident investigation; Accident/incident reporting; Cryogenic fluids transportation; Explosions; Explosive devices; Explosive devices tests; Explosive materials; Explosive materials tests; Explosives; Explosives disposal; Explosives safety; Fire extinguishment; Fire fighting; Fire hazard evaluation; Flammability testing; Fuel transportation; Hazardous materials classification; Munitions; Shipping regulations; Transportation.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Schultz, C. W.	Chemistry; Materials	(202) 293-4071
Garland, C. A.	Inspection	(202) 293-4077
Krauskopp, W. B.	Operations research	(202) 293-4075

STAFF: Full-time - professional 25, nonprofessional 9, total 34; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; standards and specifications.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

BUREAU OF MOTOR CARRIER SAFETY (BMCS)

ADDRESS: Federal Highway Administration
400 7th Street, SW
Washington, DC
20590

TELEPHONE: (202) 426-1790

DIRECTOR: Kaye, R. A.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (Federal Highway Administration)

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To promulgate and administer the Motor Carrier Safety Regulations and the Hazardous Materials Regulations governing trucks and buses operating in interstate or foreign commerce, including for-hire and private carriers of property, for-hire carriers of passengers, and carriers of agricultural commodities, livestock, and horticultural commodities engaged in interstate and foreign commerce.

SUBJECT SCOPE: Accident prevention, safety analysis, vehicle inspection.

MAJOR SUBJECT TERMS: Accident prevention; Cryogenic fluids handling; Cryogenic fluids transportation; Highway safety; Safety analysis; Safety laws; Shipping procedures; Shipping regulations; Transportation engineering; Transportation procedures; Transportation regulations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Studies truck and bus safety performance, vehicular stresses leading to the degradation of driving, and interrelationships among fatigue, hours of service, and safety of operations of truck and bus drivers; develops written, auditory, and visual tests for drivers and driver training program curricula.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Kaye, R. A.	Safety analysis; Highway safety	(202) 426-1790

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; graphics/tabular materials

HOLDINGS: Reports and reprints; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

BUREAU OF RADIOLOGICAL HEALTH (BRH)

ADDRESS: US Department of Health, Education, and Welfare Public Health Service
Rockville, MD
20852

TELEPHONE: (301)443-3544

DIRECTOR: Villforth, J. C.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Health, Education, and Welfare (Food and Drug Administration/National Institutes of Health, Public Health Service)

YEAR INFORMATION SOURCE BEGAN: 1959

MISSION: To reduce unnecessary human exposure to man-made radiation from electronic devices; to control radiation used in medicine; to control occupational exposure to radiation; to support research, technical assistance, and training programs; and to provide assistance to state and local radiation control programs.

SUBJECT SCOPE: Electronic product radiation control, standards, x-ray exposure, product surveillance, compliance, biological effects of radiation, exposure, radiological health sciences, education, and consumer radiation protection.

MAJOR SUBJECT TERMS: Electromagnetic radiation; Ionizing radiation; Protective clothing; Radiation detection; Radiation protection; Radiation tolerance levels.

RESEARCH AND DEVELOPMENT ACTIVITIES: Develops equipment, techniques, and standards to reduce radiation to patients, operators, and the public.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Villforth, J. C.	Radiation chemistry	(301) 443-3544

STAFF: Full-time - professional -, nonprofessional -, total 420.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; newsletters/trade literature; standards and specifications.

HOLDINGS: Books: 5,000; abstracts/indexes: 6; reports and reprints: 5,000; periodicals: 500; reference lists/bibliographies: 50; standards and specifications: 100. Total number of titles: 10,656; range of years of total: 1958 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Interlibrary loans.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

CHEMICAL KINETICS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301) 921-2581

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

SUBJECT SCOPE: Chemical kinetics; photochemistry; energy transfer; elastic scattering.

MAJOR SUBJECT TERMS: Chemical characteristics; Chemical properties; Chemistry; Energy conversion; Inorganic chemistry; Kinetics; Organic chemistry; Thermochemical properties; Thermodynamic data; Thermodynamic properties; Thermodynamics.

SPECIAL SCOPE FEATURES: Excludes heterogeneous catalysis.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; reference lists/bibliographies.

HOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

CHEMICAL PROPULSION INFORMATION AGENCY (CPIA)

ADDRESS: Johns Hopkins University Applied Physics Laboratory
8621 Georgia Avenue
Silver Spring, MD
20910

TELEPHONE: (301) 589-7700 x560

DIRECTOR: Nichols, P. L. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense and the Johns Hopkins University Applied Physics Laboratory

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To acquire, compile, analyze, and disseminate information pertinent to chemical rocket propulsion; to provide technical and administrative support to the joint Army, Navy, NASA, and Air Force (JANNAF) Interagency Propulsion Committee.

SUBJECT SCOPE: Chemical rocket propulsion, including liquid, solid, hybrid, and air-breathing systems; rocket motors; combustion; exhaust plume technology; operational serviceability; performance standardization; propellant characterization; safety and environmental protection; and structures and mechanical behavior.

MAJOR SUBJECT TERMS: Bipropellants; Chemical characteristics; Deflagrations; Engine malfunctions; Fire; Fuels; Hazardous characteristics; Hydraulic fluids; Hypergolic fuels; Jet propulsion fuels; Liquid propellants; Lubricants; Material types; Physical characteristics; Propellants; Propulsion systems; Propulsion types.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Nichols, P. L.	Chemical propulsion	(301) 589-7700

STAFF: Full-time - professional 11, nonprofessional 12, total 23; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications. Total number of titles: 45,000; range of years total: 1946 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for non-Government users.

May 1973

CHEMICAL THERMODYNAMICS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-2773

DIRECTOR: Wagman, D.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1940

MISSION: To prepare tables of evaluative data on the chemical thermodynamics of chemical substances.

SUBJECT SCOPE: Thermochemical and thermophysical properties of pure chemical substances in gas, liquid, and solid phases, and their aqueous solutions.

MAJOR SUBJECT TERMS: Thermochemical properties; Thermodynamic properties.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Wagman, D.	Thermodynamic properties	(301) 921-2773
Evans, W. H.	Thermodynamic properties	(301) 921-2108

STAFF: Full-time - professional 5, nonprofessional 5, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; statistical compilations; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals. Total number of titles: 60,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

USER QUALIFICATIONS: Government employees; Government contractors.

May 1973

CHLORINE INSTITUTE (CI)

ADDRESS: 342 Madison Avenue
New York, NY
10017

TELEPHONE: (212) 682-4324

DIRECTOR: Mitchell, R. L.

YEAR INFORMATION SOURCE BEGAN: 1924

MISSION: To act as the information center of the chlorine industry, to prepare design recommendations and specifications, to consult and cooperate with producers and equipment-handling manufacturers, to act as liaison with Federal and other regulatory bodies and with trade and professional groups, to promote safety practices through technical services and other means, and to coordinate industry efforts and experiences.

SUBJECT SCOPE: Chlorine and related areas.

MAJOR SUBJECT TERMS: Chemical properties; Compressed gases; Corrosives; Dangerous materials disposal; Handling procedures; Hazardous materials; Hazards; Liquefied gases; Physical properties; Safety data sheets; Safety practices; Shipping procedures; Shipping regulations; Storage procedures; Toxic substances; Transportation procedures; Transportation regulations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Mitchell, R. L.	Chlorine technology	(212) 682-4324

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

CIVIL AEROMEDICAL INSTITUTE (CAMI)

ADDRESS: Federal Aviation Administration
PO Box 25082
Oklahoma City, OK
72125

DIRECTOR: Dille, J. R. (Dr)

TELEPHONE: (405) 686-4806

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (Federal Aviation Administration)

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To promote aviation safety.

SUBJECT SCOPE: Aviation medicine, including aviation toxicology, aviation psychology, stress physiology, protection and survival; aeromedical certification, education, and clinical medicine.

MAJOR SUBJECT TERMS: Accident analysis; Accident/incident investigation; Accident/incident reporting; Aerospace medicine; Man-machine hazards; Personnel certification; Toxic substances.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Dille, J. R.	Aerospace medicine	(405) 686-4806

STAFF: Full-time - professional 28, nonprofessional 61, total 89; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

COATING AND CHEMICAL LABORATORY (C and CL)

ADDRESS: US Army Mobility Equipment Research and Development Center
Aberdeen Proving Grounds, MD
21005

TELEPHONE: (301) 278-3606

DIRECTOR: Ammlung, H. L.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1956

MISSION: To coordinate the US Army Materiel Command research program in fuels, lubricants, and related materials; to conduct research and engineering investigations in its assigned fields; to provide technical assistance to Headquarters, USAMC, and major subordinate commands and activities; to participate in the standardization and industrial preparedness programs within its assigned fields.

SUBJECT SCOPE: Fuels, lubricants, and related materials; automotive chemicals; paint, varnish, and lacquers; cleaning, and corrosion.

MAJOR SUBJECT TERMS: Cleaning; Coatings; Compatibility; Corrosion; Corrosion properties; Corrosives; Fire; Fire retardants; Fuels; Hydraulic fluids; Lubricants.

RESEARCH AND DEVELOPMENT ACTIVITIES: Responsible for research into organic and semi-organic coatings, conversion coatings, cleaners, automotive chemicals, fuels, and lubricants.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Ammlung, H. L.	Lubricants; Materials	(301) 278-3606

STAFF: Full-time - professional 35, nonprofessional 9, total 44; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Reports and reprints; statistical compilations.

REFERENCE AND QUERY SERVICES: Analytical studies.

May 1973

COMBUSTION INSTITUTE

ADDRESS: 986 Union Trust Building
Pittsburgh, PA
15219

TELEPHONE: (412) 391-1366

DIRECTOR: Barnes, H. G.

YEAR INFORMATION SOURCE BEGAN: 1954

MISSION: To promote the science and application of combustion and to disseminate knowledge in this field.

SUBJECT SCOPE: Combustion, emission, fuel composition, disaster hazards, fire research, propellants, engine performances, burning velocities, chemical effects of sound propagation, modeling, flammability limits, ignition, and oxidation.

MAJOR SUBJECT TERMS: Aircraft fuels; Chemical hazards; Cryogenic fluids; Cryogenic systems; Fire protection; Cryogenic systems hazards; Emergency planning; Engine malfunctions; Explosives; Explosives safety; Fire prevention; Fire protection; Fuel storage; Fueling operations; Hazardous materials; Heat dissipation; Hydraulic fluids; Launch operations; Materials properties; Propellants and fuels; Pyrotechnic materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Collects and disseminates results of combustion research.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Barnes, H. G.	Combustion	(412) 391-1366

INTERNAL PUBLICATIONS: Periodicals/journals; newsletters/trade literature; conference papers.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

COMMITTEE ON FIRE RESEARCH

ADDRESS: Division of Engineering
2101 Constitution Avenue
Washington, DC
20418

TELEPHONE: (202) 961-1486

DIRECTOR: Grisamore, N. T. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: National Academy of Sciences (National Research Council)

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To stimulate and advise on research directed toward the development of new knowledge and new techniques that may aid in preventing or controlling wartime and peacetime fires.

SUBJECT SCOPE: Fire research and related subjects.

MAJOR SUBJECT TERMS: Engine malfunctions; Explosives; Fire; Fire, explosion, and detonations; Fire fighting; Fire fighting services; Fire prevention; Fire protection; Flammables; Temperature.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Grisamore, N. T.	Fire	(202) 961-1486

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; conference papers.

HOLDINGS: Books; abstracts/indexes.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for non-Government users.

May 1973

COMPRESSED GAS ASSOCIATION, INC. (CGA)

ADDRESS: 500 Fifth Avenue
New York, NY
10036

TELEPHONE: (212) 524-4796

DIRECTOR: Lenhard, R. E.

YEAR INFORMATION SOURCE BEGAN: 1913

MISSION: To provide, develop, and coordinate technical activities in the compressed gas industries, including end uses of products, in the interest of safety and efficiency, and to serve, to the fullest extent, the best interest of the public and industry.

SUBJECT SCOPE: Compressed gases; cryogenic fluid measurement; atmospheric, chemical, and natural gases in gaseous, liquid, or solid form; medical equipment; materials; containers used for compressed gases; metallurgy.

MAJOR SUBJECT TERMS: Compressed gases; Safety; Dangerous materials; Dangerous materials disposal; Explosives; Flammables; Fuel farm facilities/operations; Handling procedures; Liquefied gases; Quantity/distance criteria; Shipping procedures; Shipping regulations; Transportation procedures; Transportation regulations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Lenhard, R. E.	Compressed gases	(212) 524-4796

INTERNAL PUBLICATIONS: Handbooks and manuals; technical reports; newsletters and trade literature; conference papers; standards and specifications.

HOLDINGS: Books; reports and reprints; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Conferences and symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

COMPUTER SEARCH CENTER (CSC)

ADDRESS: IIT Research Institute, Information Sciences
10 West 35th Street
Chicago, IL
60616

TELEPHONE: (312) 225-9630 x4918

DIRECTOR: Schipma, P. B.

PARENT-SPONSOR-HOST AFFILIATION: Illinois Institute of Technology Research Institute

YEAR INFORMATION SOURCE BEGAN: 1936

MISSION: To provide research, development, and design services to industry and government.

SUBJECT SCOPE: Physical and biological sciences, including metals, ceramics, chemistry, computer sciences, electronics, engineering mechanics, life sciences, materials, medical engineering, metals, physics, law enforcement, and management.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Affiliated with IIT Research Institute.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Schipma, P. B.	Technical information	(312) 225-9630 x4918
Larson, R.	Chemistry	(312) 225-9630 x5028
Llewellyn, P.	Technical information	(312) 225-9630 x5031
Stewart, A.	Engineering	(312) 225-9630 x5364

STAFF: Full-time - professional 10, nonprofessional 1, total 11; part-time - professional 8, nonprofessional 0, total 8.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
KWIC	Indexing program		
CA	Chemical Condensates	1969 - present	1,000,000
BIO	Biological Abstracts Previews	1970-1971	500,000
COMPENDEX	Engineering Index	1971 - present	250,000
FSTA	Food Science and Technology	1970 - present	50,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

CONTROLLED FUSION ATOMIC DATA CENTER (CFADC)

ADDRESS: Building 9201-2
PO Box Y
Oak Ridge, TN
37830

TELEPHONE: (613) 483-8611 x3-7558

DIRECTOR: Barnett, C. F.

PARENT-SPONSOR-HOST AFFILIATION: US Atomic Energy Commission (Oak Ridge National Laboratory)

MISSION: To store and retrieve information on atomic and molecular processes, to critically evaluate published data and disseminate compilations, and to highlight the areas of conflict or omission in data and encourage experimental and theoretical work.

SUBJECT SCOPE: Heavy particles and their interactions, particle interactions with electric and magnetic fields, and particle penetration into macroscopic matter; properties of atomic and molecular structure; transport phenomena in gases.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Electric fields; Energy conversion; Magnetic fields; Molecular structure; Nuclear energy; Nuclear engineering; Nuclear facilities; Nuclear fuels; Nuclear instrumentation; Nuclear physics; Nuclear power; Nuclear reactor applications; Physics; Plasma physics; Power sources; Reactors; State-of-the-art reviews.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Barnett, C. F.	Atomic structure	(613) 483-8611

STAFF: Full-time - professional 0, nonprofessional 1, total 1; part-time - professional 4, nonprofessional 0, total 4.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

CONVAIR AEROSPACE DIVISION RESEARCH LIBRARY

ADDRESS: General Dynamics
PO Box 80986
San Diego, CA
92138

TELEPHONE: (714) 277-8900 x1073

DIRECTOR: Sweeney, U. J.

PARENT-SPONSOR-HOST AFFILIATION: General Dynamics

SUBJECT SCOPE: Aerospace and aeronautical sciences.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Sweeney, U. J.	Technical information	(714) 277-8900 x1073
Blair, K. G.	Technical information	(714) 277-8900 x1347

STAFF: Full-time - professional 5, nonprofessional 4, total 9; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; indexes; technical reports; statistical compilations; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books: 40,000; reports and reprints: 1,500,000; periodicals: 500; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
CRISP	Computer Retrieved Information Special Projects	1962 - present	1,000,000

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Accession of new acquisition lists; interlibrary loans; reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

COPPER DATA CENTER

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x1467; TT (810) 482-1679

DIRECTOR: Black, W. T.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and Copper Development Association, Inc.

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To provide users of copper with up-to-date technical data and information of the metal, its alloys, and compounds.

SUBJECT SCOPE: Copper technology, from metal refining through the end-use performance of wrought and cast mill products (plate, sheet, strip, rod, bar, wire, extrusions, tube, castings, and forgings); powder metals; iron and steel with copper as an alloying element; insulation materials and processes; brass and bronze; and copper compounds.

MAJOR SUBJECT TERMS: Abrasives; Brass; Bronze; Coatings; Colorings; Composites; Copper alloys; Corrosion; Couplings; Cupro-beryllium alloys; Cupro-nickel alloys; Fasteners; Finishes; Industrial safety and health; Joints; Machinery safety; Mining; Monel alloys; Packaging; Solvents.

RESEARCH AND DEVELOPMENT ACTIVITIES: Promotes research on copper and associated technology.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Black, W. T.	Copper technology	(614) 299-3151

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
BASIS	Battelle Automated Search Information System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation; translations.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

CRYOGENIC DATA CENTER (CDC)

ADDRESS: Institute for Basic Standards
275.02
Boulder, CO
80302

TELEPHONE: (303)499-1000 x3527

DIRECTOR: Olien, N. A.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1958

MISSION: To critically evaluate and compile data on the thermodynamic, transport, and other thermophysical properties of the principal fluids used at low temperatures; to operate an information storage and retrieval system for the properties of materials at low temperatures.

SUBJECT SCOPE: Properties of metallic elements, selected alloys, and element dielectrics; thermodynamic properties of fluids; transport properties of fluids; thermophysical properties; low temperature physics and chemistry; and cryogenic engineering.

MAJOR SUBJECT TERMS: Chemical characteristics; Cryogenic safety; Cubical expansion; Liquid propellants; Nitrogen; Oxygen; Physical characteristics; Specific heat; Temperature; Thermal conductivity; Thermal properties; Thermodynamic properties.

RESEARCH AND DEVELOPMENT ACTIVITIES: Prepares state-of-the-art reviews and produces standard reference data on the thermodynamic and transport properties of the technically important gases. Current tasks include helium, hydrogen, methane, and fluid mixtures.

SPECIAL SCOPE FEATURES: Properties of fluids; liquefied natural gas; cryogenic fluid safety; superconductivity.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Olien, N. A.	Cryogenic safety	(303)499-1000 x3257
Roder, H. M.	Oxygen	(303)499-1000 x3528
McCarty, R. D.	Hydrogen; Helium	(303)499-1000 x3386
Hanley, H. J. M.	Transport properties	(303)499-1000 x3320

STAFF: Full-time - professional 7, nonprofessional 4, total 11; part-time - professional 2, nonprofessional 4, total 6.

INTERNAL PUBLICATIONS: Book catalogs; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specification; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books: 1,000; abstracts/indexes: 200; reports and reprints: 30,000; periodicals: 50,000; reference lists/bibliographies: 2,000; standards and specifications: 500; graphics/tables: 500; statistical compilations: 800. Total number of titles: 85,000; range of years of total: 1900 to present.

DATA BANK RESOURCES:

Name or ACTOBYM	Description of Contents	Range of Years	No. of Records
CIR	Cryogenic Data Center internally indexed documents	1900 - present	83,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

ASRDI No. S730052

CRYOGENIC DATA CENTER (CDC)

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

CRYSTAL DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-2900

DIRECTOR: Ondik, H. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To compile data on crystals in preparation for publication.

SUBJECT SCOPE: Crystallography, including cell dimensions and space group; identification of crystalline substances by single-crystal data.

MAJOR SUBJECT TERMS: Crystallography.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Ondik, H.	Crystals	(301) 921-2900

STAFF: Full-time - professional 4, nonprofessional 0, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals.

HOLDINGS: Books; reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

DATA CENTER ON ATOMIC LINE SHAPES AND SHIFTS

ADDRESS: National Bureau of Standards
Washington, DC
20234

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

MISSION: To collect and catalog all literature relevant to the broadening and shift of atomic spectral lines; to prepare and publish bibliographies and critical reviews of various topics in atomic line broadening.

SUBJECT SCOPE: Atomic physics, plasma physics, astrophysics.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Plasma physics.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wiese, W. L.	Atomic physics	(301) 921-2071
Fuhr, J. R.	Atomic physics	(301) 921-3374
Martin, G. A.	Atomic physics	(301) 921-3374
Roszman, L. J.	Atomic physics	(301) 921-2071

STAFF: Full-time - professional 3, nonprofessional 0, total 3; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; periodicals/journals; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables. Total number of titles: 1,600; range of years of total: 1889 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

DEFENCE AND CIVIL INSTITUTE OF ENVIRONMENTAL MEDICINE (DCIEM)

ADDRESS: PO Box 2000
Downsview, Ontario
Canada

TELEPHONE: (416) 633-4240

DIRECTOR: Chamberlain, J. E.

PARENT-SPONSOR-HOST AFFILIATION: Defence Research Board, Canada

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To conduct basic and applied research and development on the effectiveness of man in various environments.

SUBJECT SCOPE: Behavioral sciences, biosciences, operational life support, clearance diving trials and development, clinical medicine, human effectiveness in hyperbaric environments, human response and adaptation to adverse environments, human perception and performance, human engineering of man-machine systems, and human effectiveness in transportation systems, including safety and survival equipment.

MAJOR SUBJECT TERMS: Aircraft communications; Crew considerations; Environmental degradation; Fire fighting clothing; Health hazards; Ionizing radiation; Life support systems; Noise; Personal protective equipment; Physiological effects; Radiation physiological effects; Shielding; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Includes four research, development, and operational support divisions which participate in the scientific, technical, and field-oriented programs of the Institute.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Chamberlain, J. E.	Biological sciences	(416) 633-4240

INTERNAL PUBLICATIONS: Abstracts; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books: 8,000; abstracts/indexes: 20; reports and reprints: 20,000; periodicals: 300; reference lists/bibliographies: 100; statistical compilations; films and slides: 200. Total number of titles: 28,620; range of years of total: 1950 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

HOLDINGS: Books: 8,000; abstracts/indexes: 20; reports and reprints: 20,000; periodicals: 300; reference lists/bibliographies: 100; statistical compilations; films and slides: 200. Total number of titles: 28,620; range of years of total: 1950 to present.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

DEFENSE DOCUMENTATION CENTER (DDC)

ADDRESS: Cameron Station
Alexandria, VA
22314

DIRECTOR: Stegmaier, R. B. (Dr)

TELEPHONE: (703) 274-7633

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Defense Supply Agency)

MISSION: To collect, process, announce, retrieve, and supply formally recorded technical information in all of the scientific disciplines and engineering fields of interest to the Department of Defense.

SUBJECT SCOPE: Physics; electronics and electrical engineering; navigation, communications, detection, and countermeasures; biological and medical sciences; mechanical, industrial, civil, and marine engineering; military sciences; behavioral and social sciences; materials; ordnance; chemistry; aeronautics; propulsion and fuels; mathematical sciences; earth sciences and oceanography; methods and equipment; atmospheric sciences; missile technology; space technology; astronomy and astrophysics; and agriculture; energy conversion (nonpropulsive); and nuclear science and technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports all DoD research, development, and evaluation activities as the centralized technical documentation service of DoD.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Stegmaier, R. B.	Technical information	(703) 274-7633

STAFF: Full-time - professional 151, nonprofessional 231, total 382; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Abstracts/indexes; reports and reprints: 1,000,000; reference lists/bibliographies.

DATA BANK RESOURCES:

Name or <u>ACRONYM</u>	Description of Contents	Range of Years	No. of Records
TAB	Technical Abstracts Bulletin		
TAB INDEXES			
RTW	Research and Technology Work Unit Information System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

DOD NUCLEAR INFORMATION AND ANALYSIS CENTER

ADDRESS: General Electric Company (TEMPO)
816 State Street
Santa Barbara, CA
93102

TELEPHONE: (805) 965-0551 x253

DIRECTOR: Chan, W. W.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Defense Atomic Support Agency)
and General Electric Company (TEMPO)

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To provide a focal point for the collection, storage, analysis, and dissemination of nuclear weapons effects information.

SUBJECT SCOPE: Nuclear weapons effects.

MAJOR SUBJECT TERMS: Aerospace explosives; Escape; Explosion; Explosive devices; Explosive devices tests; Explosives safety; Fire and explosion dynamics; Fire safety; Fission product release; Missiles; Nuclear blast; Nuclear radiation; Nuclear safety; Radiation damage; Radiation detection; Radiation effects; Radiation monitoring; Radiation protection; Radiation shielding; Radioactive decontamination.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Chan, W. W.	Nuclear safety	(805) 965-0551

STAFF: Full-time - professional 18, nonprofessional 8, total 26; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; reports and reprints: 16,000; reference lists/bibliographies; films and slides: 5,000. Range of years of total: 1945 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

DIATOMIC MOLECULE SPECTRA AND ENERGY LEVELS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-2021

DIRECTOR: Krupennie, P. H.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To provide critical reviews on the spectroscopy of diatomic molecules.

SUBJECT SCOPE: Optical spectroscopic data and constants for diatomic molecules; molecular parameters derived from spectroscopic measurements; all aspects of electromagnetic spectrum.

MAJOR SUBJECT TERMS: Molecular structure.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on molecular nitrogen.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Krupennie, P. H.	Molecular structure	(301)921-2021

STAFF: Full-time - professional 1, nonprofessional 0, total 1; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Reports and reprints; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

USER QUALIFICATIONS: General technology community.

May 1973

DIFFUSION IN METALS DATA CENTER

ADDRESS: National Bureau of Standards
Metallurgy Division
Washington, DC
20234

TELEPHONE: (301)921-3354

DIRECTOR: Manning, J. R.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

MISSION: To compile and critically analyze data on diffusion in metals.

SUBJECT SCOPE: Diffusion properties of metals and alloys.

MAJOR SUBJECT TERMS: Metals; Metals and alloys; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Manning, J. R.	Metals	(301) 921-3354
Butrymowicz, D. B.	Metals	(301) 921-3354
Read, M. E.	Metals	(301) 921) 3354

STAFF: Full-time - professional 3, nonprofessional 2, total 5; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; conference papers

HOLDINGS: Reports and reprints; periodicals; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

May 1973

DIVER EQUIPMENT INFORMATION CENTER (DEIC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x3647; TT (810) 482-1679

DIRECTOR: Glasgow, J. S.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and US Department of Defense
(Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To aid in the advancement of diving technology and in the design and use of diving and related equipment.

SUBJECT SCOPE: Underwater life support equipment, underwater tools and salvage gear, including SCUBA and HOOKAH equipment, masks, suits, CO2 scrubbers, regulators, tanks, gas supplies, power tools, and instruments; decompression chambers; communications; diver capability information; and physiological data.

MAJOR SUBJECT TERMS: Communications; Human factors design; Life support; Life support design; Life support systems; Personal protective equipment; Physiological stress; Physiology; Pressure; Protective clothing; Psychological stress; Psychology; Respiratory equipment.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Glasgow, J. S.	Oceanography	(614) 299-3151

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; reference lists/bibliographies

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

DATA BANK RESOURCES:

<u>Name or Acronym</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
BASIS-70	Battelle Automated Search Info. System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

USER QUALIFICATIONS: Immediate staff or members; Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

ELECTROLYTE DATA CENTER

ADDRESS: National Bureau of Standards
A-164 Chemistry
Washington, DC
20234

TELEPHONE: (301)921-2776

DIRECTOR: Nuttall, R. L. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To provide on a continuing basis, information services, evaluations, and critical reviews of the thermodynamic data on aqueous electrolytes.

SUBJECT SCOPE: Thermodynamics of aqueous electrolyte solutions, including activity coefficients, osmotic coefficients, enthalpies of solution, dilution, etc.

MAJOR SUBJECT TERMS: Electrolysis; Enthalpy; Thermodynamics.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Nuttall, R. L.	Electrolysis	(301) 921-2765
Staples, B. R.	Electrolysis	(301) 921-2776

STAFF: Full-time - professional 0, nonprofessional 0, total 0; part-time - professional 2, nonprofessional 0, total 2.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; conference papers.

HOLDINGS: Books: 50; abstracts/indexes: 50; reports and reprints: 50; periodicals: 5, reference lists/bibliographies: 5; statistical compilations: 1. Total number of titles: 161; range of years of total: 1971 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; referrals.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

ELECTROMAGNETIC METROLOGY INFORMATION CENTER (EM)

ADDRESS: National Bureau of Standards
Boulder, CO
80302

TELEPHONE: (303) 499-1000 x3951

DIRECTOR: Anson, W. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce
(National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To provide methods and standards of measurement of electromagnetic quantities, properties, and systems in support of the electronics industry and related fields.

SUBJECT SCOPE: Voltage and current, impedance, power, attenuation, noise, pulsed quantities, field strength and antenna gain, frequency and time domain analysis, instrumentation, biomedics, electronics, electromagnetic properties of solids and liquids, electromagnetic fields, and electromagnetic compatibility.

MAJOR SUBJECT TERMS: Aircraft communications; Communications; Communications systems; Electromagnetic disturbances; Electromagnetic interference; Electromagnetic radiation; Instruments; Personal protective equipment; Protective clothing; Radar navigation; Radiation protection; Radio communication systems; Shielding; Solar radiation; Test facilities; Warning systems.

SPECIAL SCOPE FEATURES: Electromagnetic Metrology Information Center (EM) specializes in radio frequency measurement methods and standards in the frequency range of 30 KHz to 100 GHz. Its collection is limited in the frequency ranges of dc to 30 KHz and above 100 GHz.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Anson, W. J.	Electromagnetic radiation	(303) 499-1000 x3951

STAFF: Full-time - professional 4, nonprofessional 3, total 7; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; periodicals/journals; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books: 200; abstracts/indexes: 15; reports: 8,000; reprints: 1,000; reference lists/bibliographies: 50; standards and specifications: 100.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

ELECTRONIC INDUSTRIES ASSOCIATION (EIA)

ADDRESS: Engineering Department
2001 Eye Street, NW
Washington, DC
20006

TELEPHONE: (202) 659-2200

DIRECTOR: Bull, W. I.

YEAR INFORMATION SOURCE BEGAN: 1924

MISSION: To support and advance the national defense, economic growth, technological progress, and all other interests of the electronic industries in ways compatible with the public welfare; to serve as the national industrial organization of electronic manufacturers in the United States.

SUBJECT SCOPE: Electronic equipment, including communications, navigation, tracking, and control equipment; data processing systems; instrumentation; recording and test equipment; cathode ray and receiving tubes; power and special purpose electron tubes; solid state products; lasers; electronic parts; audio and video systems; and mass transportation applications.

MAJOR SUBJECT TERMS: Aircraft communications; Communications systems; Controls; Displays; Flight recorders; Flight simulation; Instruments; Lasers; Maintainability; Navigation systems; Quality control; Radar navigation; Radio communication systems; Reliability; Safety engineering; Warning systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Bull, W. I.	Electrical/electronics engineering	(202) 659-2200

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

ENGINEERING INDEX, INC. (EI)

ADDRESS: 345 East 47th Street
New York, NY
10017

TELEPHONE: (212)752-6800 x711

DIRECTOR: Creps, J. E.

YEAR INFORMATION SOURCE BEGAN: 1884

MISSION: To disseminate scientific, technical, and engineering information to libraries, educational institutions, professionals, and the general public.

SUBJECT SCOPE: Civil, environmental, geological, biological, mechanical, automotive, nuclear, aerospace, electrical/electronics, control, chemical, agricultural, foods, industrial and physical engineering, including mining, metals, petroleum, fuels, management, mathematics, and instruments.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Creps, J. E.	Technical information	(212) 752-6800 x711

STAFF: Full-time - professional -, nonprofessional -, total 60; part-time - professional -, nonprofessional -, total 10.

INTERNAL PUBLICATIONS: Abstracts; periodicals/journals; newsletters/trade literature; conference papers; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes: 1,850,000; reports and reprints; periodicals: 230,000.

DATA BANK RESOURCES:

<u>Name or Acronym</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
COMPENDEX	Engineering Index Computer Services		
SHE	Subject Headings for Engineering		
PIE	Publications Indexed for Engineering		
CITE	Current Information Tapes for Engineers		

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; bibliographic abstracts.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

ENGINEERING SOCIETIES LIBRARY

ADDRESS: 345 East 47th Street
New York, NY
10017

TELEPHONE: (212) 756-2800

DIRECTOR: Cabeen, S. K.

YEAR INFORMATION SOURCE BEGAN: 1913

SUBJECT SCOPE: Civil engineering, mining, metallurgy, electronics, chemistry, heating, refrigeration, and air-conditioning, illuminating, welding, industrial engineering, and municipal engineering.

MAJOR SUBJECT TERMS: Atmospheric sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Cabeen, S. K.	Engineering	(212) 756-2800

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; bibliographic abstracts; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

May 1973

ENVIRONMENT INFORMATION CENTER, INC. (EIC)

ADDRESS: 124 East 39th Street
New York, NY
10016

TELEPHONE: (212) 685-0845

DIRECTOR: Kolleqger, J. G.

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To provide an environmental information clearinghouse and library; to facilitate access to environmental information and to increase the speed with which it can be assimilated.

SUBJECT SCOPE: Air pollution, chemical and biological contamination, energy, environmental education, environmental design, food and drugs, land use and misuse, noise pollution, renewable and nonrenewable resources, oceans and estuaries, population planning and control, radiological contamination, recreation, solid wastes, transportation, water pollution, weather modification and geophysical change, and wildlife conservation.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution; Dangerous industrial radiation; Dangerous materials disposal; Environmental degradation; Noise; Nuclear power plant safety design; Radiation; Radioactive decontamination; Radioactive spills; Radioactive wastes.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Kolleqger, J. G.	Biological Sciences	(212) 685-0845

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; bibliographic abstracts; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

ENVIRONMENTAL INFORMATION ANALYSIS CENTER (EIAC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x1144; (810) 482-1679

DIRECTOR: Davidson, R. S.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To provide background information in the planning and management of bioenvironmental and radiological safety feasibility field data collection and evaluation.

SUBJECT SCOPE: American temperate and tropic regions, the arctic, subarctic, and similar cold environments in relation to air, water, and solid wastes, systems ecology, radionuclide cycling in the environment, mathematical modeling of ecosystems, population dynamics, bioenergetics, food-chain studies, ethnology, and nuclear technology.

MAJOR SUBJECT TERMS: Air pollution; Air pollution control; Atmospheric monitoring; Biomedical engineering; Environment; Environmental data; Environmental degradation; Environmental effects; Environmental factors; Environmental influences; Environmental information; Environmental sciences; Land development; Nuclear power plant operation; Nuclear power plant safety design; Nuclear radiation; Nuclear safety; Radiation tolerance levels; Waste disposal systems; Water pollution.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on air and water quality, ecological systems, health hazards, and resource utilization.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Davidson, R. S.	Environmental sciences	(614) 299-3151

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
BASIS-70	Battelle Automated Search Information System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services.

OTHER SERVICES: Interlibrary loans.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

May 1973

ENVIRONMENTAL INFORMATION DIVISION

ADDRESS: Air Training Command - 3636th Combat Crew Training Wing
 Building 815
 Maxwell Air Force Base, AL
 36112

TELEPHONE: (205) 293-5373

DIRECTOR: Smith, H. M.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense
 (Department of the Air Force)

YEAR INFORMATION SOURCE BEGAN: 1947

MISSION: To collect and evaluate environmental data and disseminate such data to Air Force schools and commands and other DoD agencies; and to provide guidance and support to the formulation of policies, educational programs, and research in environmental sciences.

SUBJECT SCOPE: Environmental effects on ethnic groups; cross-cultural contacts; emergency survival, evasion, and escape; environmental hazards.

MAJOR SUBJECT TERMS: Air rescue/recovery operations; Emergency equipment; Emergency planning; Environmental influences; Life support design; Life support systems; Nutrition; Personal protective equipment; Personnel training; Physiological effects; Safety procedures; Survival.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Smith, H. M.	Life sciences	(205) 293-5373
Schwaneer, T. D.	Biological sciences	(205) 293-6063
Pepper, S. J.	Biological sciences; Psychology	(205) 293-6063

STAFF: Full-time - professional 3, nonprofessional 2, total 5; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; newsletters/trade literature; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services.

OTHER SERVICES: On-site use of collection; interlibrary loans; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

ENVIRONMENTAL SCIENCE INFORMATION CENTER (ESIC)

ADDRESS: National Oceanic and Atmospheric Administration
Environmental Data Service
Rockville, MD
20852

TELEPHONE: (202) 343-7636

DIRECTOR: Caskey, J. E.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Oceanic and Atmospheric Administration)

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To provide technical information services by cataloging, abstracting, indexing, announcing, storing, and retrieving of published information in the atmospheric sciences, marine sciences, earth sciences, hydrology, marine fisheries, and geodesy.

SUBJECT SCOPE: Atmospheric sciences, including meteorological observation, analyses, and forecasting; physical and dynamic meteorology; air quality and pollution, and weather modification and monitoring systems; physical oceanography; hydrology; marine biology (fish); and geophysics.

MAJOR SUBJECT TERMS: Climatic ranges; Electromagnetic disturbances; Environmental effects; Environmental influences; Extraterrestrial environmental hazards; Galactic radiation; Gravity; Interplanetary gases; Man-made debris; Meteoroids; Radiation belts; Solar radiation; Upper atmosphere.

SPECIAL SCOPE FEATURES: Physical environment; marine resources.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Caskey, J. E.	Environmental sciences	(202) 343-6454

STAFF: Full-time - professional 45, nonprofessional 28, total 73; part-time - professional 0, nonprofessional 8, total 8.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides. Range of years of total: 1873 to date.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
ENDEX	Environmental Data Index		
OASIS	Oceanic and Atmospheric Scientific Information System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

EXECUTIVE SCIENCES INSTITUTE, INC.

ADDRESS: PO Drawer M
Whippany, NJ
07981

TELEPHONE: (201) 887-1233

DIRECTOR: Rosenthal, A. J.

YEAR INFORMATION SOURCE BEGAN: 1956

MISSION: To provide a digest service of the literature of operations research and managerial methods to respond to the need for wider dissemination and faster retrieval of this information; and to provide an abstract of all current developments in the field of quality control and applied statistics for all branches of industry.

SUBJECT SCOPE: Operations research; management sciences; statistical process control; sampling principles and plans; management of quality control; mathematical statistics and probability theory; experimentation and correlation; and process control instrumentation.

MAJOR SUBJECT TERMS: Flight simulation facilities; Flight simulation operations; Human factors analysis; Industrial safety; Personnel certification; Personnel selection; Personnel training; Quality control; Reliability; Safety engineering; Space simulation facilities; Space simulation operations; Tests.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Rosenthal, A. J.	Management sciences	(201) 887-1233

INTERNAL PUBLICATIONS: Abstracts; indexes; periodicals/journals; reference lists/bibliographies; graphics/tabular material.

HOLDINGS: Reports and reprints; periodicals; standards and specifications; graphics/tables.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; referrals; bibliographic abstracts.

OTHER SERVICES: Reproduction/publication services.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

FACTORY MUTUAL RESEARCH CORPORATION (FMRC)

ADDRESS: 1151 Boston-Providence Turnpike
Norwood, MA
02062

TELEPHONE: (617) 762-4300; TLX 92-4415

YEAR INFORMATION SOURCE BEGAN: 1941

MISSION: To further the refinement of technology that will lead to more effective prediction, prevention, and control of fires.

SUBJECT SCOPE: Fire, explosion, and machine technology; boiler and pressure vessels; electronics; engineering; extinguishing equipment and protection systems; industrial heating; loss analysis; mechanical and nuclear sciences; sprinklers, hose and water spray; standards; welding and metallurgy; hazards analysis; risk analysis; loss prevention; and risk management.

MAJOR SUBJECT TERMS: Airport emergency facilities/equipment; Commercial aviation; Cryogenic safety; Dangerous materials; Explosives safety; Fire; Fire, explosion, and detonations; Lightning; Mechanics of structural failure; Nuclear fuels; Nuclear power plant operation; Nuclear power plant safety design; Radiation detection; Radiation monitoring; Radioactive decontamination; Radioactive spills; Safety analysis; Safety standards; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research in areas dealing with fire and other hazards and their interaction with man, the enclosures he uses, and his community.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Miller, M. J.	Fire	(617) 762-4300 x567

STAFF: Full-time - professional 130, nonprofessional 30, total 160; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books: 2,500; abstracts/indexes; reports and reprints; periodicals: 130; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Range of years of total: 1843 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Ad hoc permission.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

FEDERAL AVIATION ADMINISTRATION (FAA)

ADDRESS: US Department of Transportation
800 Independence Avenue, SW
Washington, DC
20591

TELEPHONE: (202) 426-3611

DIRECTOR: Butterfield, A. P.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1958

MISSION: To promote aviation safety and encourage the most efficient use of the airway system consistent with the public interest.

SUBJECT SCOPE: Airports; aerodynamics and conditions of flight; aircraft; air traffic control; aviation medicine; electronics; crash fire rescue; inspection and maintenance; international aviation; navigation weather; engineering; radar; aircraft safety; aviation statistics; runways/taxiways; air pollution; aviation economics; noise; air traffic congestion; meteorology; aeronautical standards and specifications; communications.

MAJOR SUBJECT TERMS: Accident data; Accident/incident investigation; Air navigation aids; Air traffic control facilities; Air traffic control operations; Aircraft problems; Fire fighting clothing; Fire fighting equipment; Flight simulation facilities; Flight simulation operations; Fuel farm facilities/operations; Human factors analysis; Human factors design; Human functions; Personnel selection; Personnel training; Search and rescue operations; Safety engineering; Vehicle fires; Vehicle fire prevention design.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research and development in two broad areas: the aerospace system, and the aircraft and airmen operating within the airspace.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Butterfield, A. P.	Aviation safety	(202) 426-3611

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

FEDERAL FIRE COUNCIL

ADDRESS: National Bureau of Standards
Room A-07, Building 225
Washington, DC
20234

TELEPHONE: (301)921-3255

DIRECTOR: Hicks, L. B.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1936

MISSION: To reduce fire losses, promote fire safety, encourage research, and develop better techniques for control and prevention of fires through coordination of efforts, a standard approach to problems, and the avoidance of duplication of efforts.

SUBJECT SCOPE: Fire prevention, fire protection, and fire fighting in aerospace vehicles; buildings and contents; forest, grass, and tundra; shipboard; automobiles, open storage, etc.

MAJOR SUBJECT TERMS: Detonations; Explosions; Explosives safety; Extinguishing agents; Extinguishment and control; Fire accident training; Fire detection; Fire fighting; Fire hazard evaluation; Fire prevention; Fire safety evaluation; Fire warning.

RESEARCH AND DEVELOPMENT ACTIVITIES: Encourages research to develop better techniques for fire control and prevention; has committee on Research and Technology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Hicks, L. B.	Fire safety	(301) 921-3255

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

OTHER SERVICES: On-site use of collection; interlibrary loans; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Ad hoc permission; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

FLIGHT SAFETY FOUNDATION (FSP)

ADDRESS: 1800 N. Kent Street
Arlington, VA
22209

TELEPHONE: (703) 528-4100

DIRECTOR: Lederer, J.

YEAR INFORMATION SOURCE BEGAN: 1945

MISSION: To improve the safety of flight.

SUBJECT SCOPE: Flight safety.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Air traffic control facilities; Air traffic control operations; Aircraft subsystems; Codes; Environmental influences; Human factors; Man-machine hazards; Operational mode; Propulsion systems; Regulations; Standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and accident/incident data analysis.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Lederer, J.	Aerospace safety engineering	(703) 528-4100

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; technical reports; statistical compilations; newsletters/trade literature; conference papers; graphics/tabular materials.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; statistical compilations; films and slides.

USER QUALIFICATIONS: General technology community; immediate staff or members.

May 1973

GENERAL ELECTRIC SPACE DIVISION

ADDRESS: Valley Forge Space Center
 PO Box 8555
 Philadelphia, PA
 19101

TELEPHONE: (215)962-3480

DIRECTOR: Dick, P.

PARENT-SPONSOR-HOST AFFILIATION: General Electric Company

MISSION: To design, develop, and produce spacecraft, spacecraft subsystems and components and ground systems for use in military, civilian, and commercial space programs and projects; and to apply the technological, management, systems, and component capability developed in the space effort to other areas such as communications, training, data management, environment and ecology, in order to improve the security and quality of life.

SUBJECT SCOPE: Satellites, metallography, nuclear system safety, spacecraft, environmental protection, arctic technology, radiation, materials, aerospace safety, space systems hardware, isotopes, electronics.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Chemical properties; Communications systems; Cryogenic facility safety design; Cryogenic safety; Cryogenic systems hazards; Cryogenic systems materials selection; Electrical/electronics engineering; Electromagnetic disturbances; Electronic networks/circuits; Environmental influences; Instrumentation; Metallurgy; Nuclear safety; Radiation shielding; Space sciences; Systems safety.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Dick, P.	Space sciences	(215) 962-3480

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER RESTRICTIONS: Industrial/corporate security clearance.

May 1973

GEORGIA INFORMATION DISSEMINATION CENTER (GIDC)

ADDRESS: University of Georgia Computer Center
Boyd Graduate Studies Building
Athens, GA
30602

TELEPHONE: (404) 542-3741

DIRECTOR: Edwards, J. S.

PARENT-SPONSOR-HOST AFFILIATION: University of Georgia

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To provide computer-based searches of published literature.

SUBJECT SCOPE: Agriculture, biology, chemistry, biochemistry, education, nuclear science, geology, physics, engineering, sociology, and psychology.

MAJOR SUBJECT TERMS: Applied forces (stresses); Chemical properties; Corrosion properties; Environmental influences; Fabrication processes; Failure mechanisms; Fastening methods; Human factors analysis; Joining methods; Life support design; Man-machine hazards; Mechanical properties; Personnel selection; Personnel training; Physical properties; Production limitations; Stress/strain analysis; Structural failure; Structural materials limitations; Thermodynamic properties.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Edwards, J. S.	Computer sciences	(404) 542-3741

STAFF: Full-time - professional 6, nonprofessional 3, total 9; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature; conference papers.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.

DATA BANK RESOURCES:

Name or <u>ACRONYM</u>	Description of Contents	Range of Years	No. of <u>Records</u>
Toxitape	Toxicology, pollution		
CA-Condensates	Formula and subject indexes; structure titles	1968 - present	
GEO-REF	Geological reference file	1967 - present	
CBAC	Chemical-Biological Activities	1965-1971	
CAIN	Cataloging and indexing (agriculture)	1970 - present	
BA-Previews	Biological Abstracts and Bioresearch Index	1969 - present	
CITE	Current Information Tapes for Engineers	1968-1969	
ERIC	Research in Education	1968 - present	
PA	Psychological Abstracts	1967 - present	
GA	Geophysical Abstracts	1966-1970	
SA	Sociological Abstracts	1965 - present	
NSA	Nuclear Science Abstracts	1966 - present	
SPIN	Searchable Physics Information Notices	1970 - present	
GRA	US Government R and D Reports	1970 - present	
COMPENDEX	Computerized Engineering Index	1969 - present	
BNAG	Bibliography of North American Geology	1961-1968	

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.

GEORGIA INFORMATION DISSEMINATION CENTER (GIDC)

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

GLOBAL ENGINEERING DOCUMENTATION SERVICE, INC.

ADDRESS: 3950 Campus Drive
PO Box 2060
Newport Beach, CA
92663

TELEPHONE: (714) 540-9870; WATS (800) 854-3296

DIRECTOR: Miller, B. H.

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To maintain a library of Government and industry specifications and standards, and to provide these documents to customers within 24 hours after request.

SUBJECT SCOPE: Research and abstract specifications and standards, physical and life sciences, industrial health and safety, and engineering.

MAJOR SUBJECT TERMS: Personal protective equipment; Quality control; Safety analysis of equipment; Safety standards; Tests.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Miller, B. H.	Documentation	(714) 540-9870
Liebllich, J. H.	Fasteners	(714) 540-9870
Simonton, D.	Industrial safety	(714) 540-9870

STAFF: Full-time - professional 3, nonprofessional 7, total 10; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Books; indexes; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books: 100; abstracts/indexes: 200; reports and reprints: 500; reference lists/bibliographies: 100; standards and specifications: 500,000. Total number of titles: 501,000; range of years of total: 1946 to present.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

GOODYEAR TECHNICAL INFORMATION CENTER

ADDRESS: Goodyear Tire and Rubber Company Research Laboratory
Akron, OH
44316

TELEPHONE: (216) 794-4980

DIRECTOR: Straka, L. E. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: Goodyear Tire and Rubber Company

MISSION: To provide information in the field of polymer science and technology to Goodyear employees.

SUBJECT SCOPE: Polymer science and technology, rubber, plastics, organic and inorganic chemistry, physics, radiation, and computer technology.

MAJOR SUBJECT TERMS: Adhesives; Chemical engineering; Elastomers; Hazardous materials; Material processes engineering; Materials research; Plastics; Polymers; Radiation; Rubber.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research in polymer science.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Straka, L. E.	Chemistry	(216) 794-4980

STAFF: Full-time - professional 7, nonprofessional 3, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books: 5,900; abstracts/indexes; reports and reprints; periodicals: 9,168; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; reproduction/publication services; conferences/symposiums.

HOLDINGS: Books: 5,900; abstracts/indexes; reports and reprints; periodicals: 9,168; reference lists/bibliographies; films and slides.

USER QUALIFICATIONS: Immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP)

ADDRESS: US Naval Fleet Missile Systems Analysis and Evaluation Group
Corona, CA
91720

TELEPHONE: (714) 736-4677; AV 933-4677

DIRECTOR: Richards, E. T.

PARENT-SPONSOR-HOST AFFILIATION: Joint Commanders: ANC, NMC, AFLC, AFSC, NASA, CAMESA

YEAR INFORMATION SOURCE BEGAN: 1959

MISSION: To provide for the consolidated exchange of reliability data among Government and industry.

SUBJECT SCOPE: Acquisition, storage, retrieval, and dissemination of reliability test and usage information on parts, components materials, and test equipment calibration procedures for military and space hardware.

MAJOR SUBJECT TERMS: Certification; Clearinghouse; Compatibility; Components; Electronic networks/circuits; Failure mechanisms; Maintainability; Maintainability assurance; Performance data; Property data; Quality assurance; Quality certification; Quality control; Reliability; Reliability analysis; Reliability assurance; Safety analysis; Safety analysis of equipment; Test data; Test techniques.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Richards, E. T.	Reliability analysis	(714) 736-4677

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; conference papers; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 35,000; range of years of total: 1959 to present.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
	Technical reports. Technical Data Interchange	35,000	
	Procedures.* Calibration Procedures Interchange	15,000	
ALERT	Alerting user and producer of problems with parts, materials, or test equipment; process or safety problem of general concern (*350-400 reports and procedures entering system each month).		
UDR	Urgent Data Request; nationwide network of engineering data specialists		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; analytical studies; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

GUGGENHEIM CENTER FOR AEROSPACE HEALTH AND SAFETY

ADDRESS: 665 Huntington Avenue
Boston, MA
02115

TELEPHONE: (617) 734-3300 x550

DIRECTOR: McFarland, R. A. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: Harvard School of Public Health

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To study responses of the human body to environmental extremes and to carry on basic research in the prevention and control of the increasing dangers of the air age.

SUBJECT SCOPE: Air, highway, and industrial health and safety, including the effects of environmental stresses on man and his performance; human engineering evaluation of all types of equipment, considering factors such as variable body size, problems of operational fatigue, circadian rhythms, and ageing; transportation of patients by air; medical problems of aircrews; and air pollution, such as the effects of the presence of carbon monoxide in the air.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aerospace medicine; Air pollution control; Environmental effects; Man-machine hazards; Physiological stress; Psychological stress; Toxicology; Waste disposal.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research in all subject areas, currently including the toxic properties of fuels, contamination by radio power sources or fallout, the toxicity of trace contaminants found in space cabins, and problems of respiratory physiology in cloud ecological systems.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
McFarland, R. A.	Biological sciences	(617) 734-3300 x550

STAFF: Full-time - professional 6, nonprofessional 0, total 6; part-time - professional 6, nonprofessional 0, total 6.

INTERNAL PUBLICATIONS: Books; technical reports; periodicals/journals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

HARRY DIAMOND LABORATORIES (HDL)

ADDRESS: US Army Materiel Command
Washington, DC
20438

TELEPHONE: (202) 282-2011

DIRECTOR: Einsel, D. W. (Col)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To provide solutions to the scientific and technical tasks assigned to the Laboratories by the Army and other agencies of the Government.

SUBJECT SCOPE: Fluorics/fluidics; fuzes; medical engineering; power supplies; materials research; solid state physics and lasers; short pulse radar; physical electronics; microwave components; microelectronics; industrial engineering; instrumentation and simulation; counter-countermeasures; nuclear weapons effects, and other severe environments; and target intercept phase of terminal guidance.

MAJOR SUBJECT TERMS: Explosive devices tests; Hazardous materials; Industrial safety; Ionizing radiation; Nuclear power plant operation; Nuclear power plant safety design; Pyrotechnic materials; Quality control; Test facilities; Tests.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts basic research in the physical sciences, and development of engineering and testing.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Einsel, D. W.	Physical sciences	(202) 282-2011
Spates, J. E.	Physics	(202) 282-2028

STAFF: Full-time - professional 543, nonprofessional 910, total 1453; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

HIGHWAY RESEARCH INFORMATION SERVICE (HRIS)

ADDRESS: Highway Research Board
2101 Constitution Avenue, SW
Washington, DC
20418

TELEPHONE: (202)961-1782

DIRECTOR: Mobley, A. B.

PARENT-SPONSOR-HOST AFFILIATION: Highway Research Board

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To provide reference information with abstracts to researchers, engineers, and administrators in the transportation field, particularly in the highway and urban transit research fields.

SUBJECT SCOPE: Transportation research and applications that are related to highways, public transit, and other modes of transportation; economics, finance and administration; design; materials and construction; traffic and operations; maintenance; soils; geology and foundations; legal studies; urban transportation planning.

MAJOR SUBJECT TERMS: Construction materials; Construction practices; Earth sciences; Engineering sciences; Failure mechanisms; Highway safety; Human factors analysis; Materials evaluation; Materials research; Mechanics of structural failure; Restraint systems; Safety analysis; Safety laws; Soil mechanics; Structural failure; Structural materials limitations; Transportation; Transportation engineering; Transportation procedures; Transportation regulations.

SPECIAL SCOPE FEATURES: Highway safety physical plant, traffic operations, and operator characteristics and training.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Mobley, A. B.	Transportation; Highway safety	(202) 961-1782
Jordan, J. S.	Technical information	(202) 961-1358

STAFF: Full-time - professional 2, nonprofessional 16, total 18; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts and indexes; reports and reprints; periodicals; reference lists/bibliographies. Total number of titles: 40,000.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

HIGHWAY SAFETY RESEARCH INSTITUTE (HSRI)

ADDRESS: University of Michigan
Huron Parkway and Baxter Road
Ann Arbor, MI
48105

TELEPHONE: (313) 764-2171

DIRECTOR: Hess, R. L.

PARENT-SPONSOR-HOST AFFILIATION: University of Michigan

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To analyze the elements of the complex and dynamic system of people, automotive vehicles, and the environments in which they operate, and to develop practical and effective solutions to the urgent problems of highway safety within that system.

SUBJECT SCOPE: Automobile and highway safety, including impacts in engineering, medicine, law, computer science, psychology, and sociology.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Highway safety; Human characteristics; Human factors analysis; Restraints; Safety engineering; Survival.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research in the biosciences; human, physical, and public factors; and systems analysis.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hess, R. L.	Transportation engineering; Highway safety	(313) 764-2171

INTERNAL PUBLICATIONS: Technical reports; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 26,000; range of years of total: 1933 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

ILLUMINATING ENGINEERING SOCIETY (IES)

ADDRESS: 345 East 47th Street
New York, NY
10017

TELEPHONE: (212) 752-6800

DIRECTOR: Coda, F.

MISSION: To communicate information on good lighting practices; to provide an on-going professional staff function, assist with technical problems, reference help, and liaison with other professional groups.

SUBJECT SCOPE: Lighting and all related areas.

MAJOR SUBJECT TERMS: Air navigation; Basic research; Test techniques.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research programs in the area of visual performance and illumination, roadway visual tasks, color preference studies, glare from large sources, and transitional adaptation.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Coda, F.	Illumination	(212) 752-6800

STAFF: Full-time - professional -, nonprofessional -, total 26; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

INDUSTRIAL FASTENERS INSITUTE

ADDRESS: 1505 East Ohio Building
1717 East 9th Street
Cleveland, OH
44114

TELEPHONE: (216) 241-1482

DIRECTOR: Akstens, F. W.

YEAR INFORMATION SOURCE BEGAN: 1931

MISSION: To provide a continuing flow of information and technolgy of value to user companies, the Government, the press, and other trade associations; and to develop standards to increase the productivity and safety and reliability of the end products of the member companies.

SUBJECT SCOPE: Technology of mechanical fasteners, including bolts, screws, rivets, and specially engineered parts (over 500,000 standard types) designed to hold, join, couple, assemble, or maintain the equilibrium of single or multiple components.

MAJOR SUBJECT TERMS: Corrosion; Corrosion properties; Failure mechanisms; Fasteners; Fastening methods; Fatigue (materials); Galvanic corrosion; Incompatibilities; Industrial safety; Industrial safety and health; Joining methods; Mechanical properties; Production limitations; Shock; Stress; Stress/strain analysis; Structural failure; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Akstens, F. W.	Mechanical engineering	(216) 241-1482

INTERNAL PUBLICATIONS: Abstracts; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

INFORMATION SERVICES DEPARTMENT

ADDRESS: University of Tulsa
1133 North Lewis Avenue
Tulsa, OK
74110

TELEPHONE: (918) 939-6351

DIRECTOR: McLeod, H. O. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: University of Tulsa

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To serve as the information retrieval service for the petroleum industry; to provide engineers and scientists with up-to-date information on new techniques and discoveries in the field of petroleum technology.

SUBJECT SCOPE: Exploration, production and transportation of crude oil and natural gas; geology; geophysics; geochemistry, drilling, well logging, well completion and servicing, oil and gas production, reservoir studies, transportation and storage.

MAJOR SUBJECT TERMS: Fuels; Geology; Geophysics; Petroleum; Oil.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
McLeod, H. O.	Petroleum	(918) 939-6351

STAFF: Full-time - professional 8, nonprofessional 9, total 17; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies.

DATA BANK RESOURCES:

<u>Name or</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of</u>
<u>ACRONYM</u>			<u>Records</u>
PASS	Petroleum	1965 - present	110,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community; immediate staff or members; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

INSTITUTE OF ENVIRONMENTAL SCIENCES (IES)

ADDRESS: 940 East Northwest Highway
Mt. Prospect, IL
60056

TELEPHONE: (312) 255-1561

DIRECTOR: Peterson, B. L.

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To promote and encourage the acquisition and dissemination of knowledge of environmental sciences in industry, science, and government; to develop and promote standards, research, simulation, testing, and design criteria in the environmental field; to perform administrative functions for the professional engineering society.

SUBJECT SCOPE: Aerospace engineering, earth environmental sciences, and environmental/ecological education.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution control; Corrosives; Crew considerations; Earth sciences; Environmental effects; Environmental influences; Extraterrestrial environmental hazards; Flight simulation facilities; Flight simulation operations; Noise; Pressure waves; Radioactive wastes; Shielding.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Peterson, B. L.	Environmental Sciences	(312) 255-1561

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973

INSTITUTE OF GAS TECHNOLOGY (IGT)

ADDRESS: Illinois Institute of Technology
3424 South State Street
Chicago, IL
60616

TELEPHONE: (312) 255-9600

DIRECTOR: Linden, H. R.

PARENT-SPONSOR-HOST AFFILIATION: Illinois Institute of Technology

YEAR INFORMATION SOURCE BEGAN: 1941

MISSION: To serve the utility gas industry and others through education, research, and the dissemination of pertinent technical information.

SUBJECT SCOPE: Natural gas; liquefied petroleum; the production, transmission, storage, distribution, and utilization of gas; environmental research; gas storage and distribution; appliance development; combustion and industrial utilization; electrochemistry, low-temperature fuel cells, high-temperature fuel cells, fuel cell system design; gasification research; metallurgical processes; petrochemical processes; and pilot plants.

MAJOR SUBJECT TERMS: Carbon monoxide; Combustion; Combustion products; Compressed gases; Cryogenic safety; Explosives; Fire; Flammables; Fuel farm facilities/operations; Handling procedures; Hazardous materials; Hydrogen; Methane; Nitrogen; Shipping regulations; Storage procedures; System contamination; Transportation procedures; Transportation regulations; Turbine engines.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports environmental research, pollution reduction, noise reduction, faster food preparation, improved efficiency of gas street lamps, and requirements for gas utilization in modular-constructed housing.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Linden, H. R.	Chemical engineering	(312) 225-9600
Bodle, W. W.	Management sciences	(312) 225-9600 x625
Rosenberg, R. B.	Engineering	(312) 255-9600 x681
Schora, F. C.	Material processes engineering	(312) 225-9600 x664
Bukacek, R. F.	Education and training	(312) 225-9600 x604
Knibes, D. V.	Technical information	(312) 225-9600 x613

STAFF: Full-time - professional 156, nonprofessional 34, total 290; part-time - professional 24, nonprofessional 0, total 24.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books: 10,000; abstracts/indexes: 95,000; reports and reprints: 3,500; periodicals: 8,000; reference lists/bibliographies: 25; films and slides: 1,500. Total number of titles: 110,000; range of years of total: 1941 to present.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
MASTER	Abstracts, reports, papers	1964 - present	25,000
IGT Library	Books, reports, periodicals	1941 - present	100,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

ASRDI No. 5730088

INSTITUTE OF GAS TECHNOLOGY (IGT)

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

INSTITUTE OF TEXTILE TECHNOLOGY (ITT)

ADDRESS: Route 250 West
Charlottesville, VA
22902

TELEPHONE: (703) 296-5511 x54

DIRECTOR: Hallstrom, S. G.

YEAR INFORMATION SOURCE BEGAN: 1944

MISSION: To conduct research on textile raw materials, products, and processes; to maintain a library and information service to keep mills abreast of the developments in the textile industry throughout the world; and to train men at the graduate level in the fundamental sciences and in textile technology.

SUBJECT SCOPE: Fibers; yarn production; fabric production; finishing; apparel production; testing and measurement; mill management; chemical, physical, and biological sciences interfaces; instrumentation; and materials.

MAJOR SUBJECT TERMS: Clothing; Head gear; Industrial processes; Industrial safety; Materials; Personal protective equipment; Protective clothing; Radiation protection; Textiles; Vehicle fires.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research involving raw materials, yarn manufacturing, preparation and weaving, dyeing and finishing, woolens and worsteds, knitting, operations research, and mill management.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Hallstrom, S. G.	Chemistry; Materials	(703) 296-5511 x54

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books: 8,000; abstracts/indexes: 20; reports and reprints: 8,500; periodicals: 18,000; reference lists/bibliographies: 600; standards and specifications: 850; graphics/tables; statistical compilations: 25; films and slides: 24.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
KWIC			
KWOC			

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; conferences/symposiums.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

INSTRUMENT SOCIETY OF AMERICA (ISA)

ADDRESS: 400 Stanwick Street
Pittsburgh, PA
15222

TELEPHONE: (412) 281-3171

DIRECTOR: Yaqer, E.

YEAR INFORMATION SOURCE BEGAN: 1945

MISSION: To advance the knowledge and practice related to the theory, design, manufacture, and use of instrumentation for industrial, laboratory, biophysical, marine, and space environment.

SUBJECT SCOPE: Measurement, precision standards, analysis, automatic control, data handling and computation, maintenance management, telemetry, metrology, and information display.

MAJOR SUBJECT TERMS: Detection and warning systems; Instrumentation; Instruments; Maintainability; Monitoring; Warning systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Yaqer, E.	Instrumentation	(412) 281-3171

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; standards and specifications; films and slides.

DATA BANK RESOURCES:

<u>Name or</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of</u>
<u>ACFOBY#</u>	<u>Keyword in Context</u>		<u>Records</u>
KWIC			

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; translations.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

HOLDINGS: Abstracts/indexes; standards and specifications; films and slides.

May 1973

LEAD INDUSTRIES ASSOCIATION, INC. (LIA)

ADDRESS: 292 Madison Avenue
New York, NY
10017

TELEPHONE: (212) 679-6020

DIRECTOR: Smith, J. F.

YEAR INFORMATION SOURCE BEGAN: 1928

MISSION: To collect, publish, and disseminate statistical information relating to the production, distribution, marketing, consumption, and use of lead and lead products; to develop methods for the improvement of the welfare of those engaged in the production of lead, its products, or in their use; and to promote the serviceability of lead industries to the community.

SUBJECT SCOPE: All aspects of lead technology, including proper handling; toxicity and treatment; design engineering; architectural, construction, chemical, ceramic, and paint industries interfaces; applications of lead involving solders, coated metals, castings, etc.

MAJOR SUBJECT TERMS: Air pollutants; Coatings; Glass; Industrial hygiene; Joining methods; Lead; Metal powders; Metallurgy; Potash; Sanitation; Toxic substances.

RESEARCH AND DEVELOPMENT ACTIVITIES: Until 1958, the Association conducted modest research programs; thereafter research was performed by the International Lead Zinc Research Organization, Inc., the research arm of the lead and zinc industries.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Smith, J. F.	Metallurgy; Lead	(212) 679-6020

STAFF: Full-time - professional 11, nonprofessional 6, total 17; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

LOCKHEED TECHNICAL INFORMATION CENTER

ADDRESS: 3251 Hanover Street
Palo Alto, CA
94304

TELEPHONE: (415) 493-4411

DIRECTOR: Evans, G. R.

PARENT-SPONSOR-HOST AFFILIATION: Lockheed Missiles and Space Company

MISSION: To provide support for research, engineering, and staff management efforts.

SUBJECT SCOPE: Aerospace, astronautics, bioastronautics, chemistry, electronics, materials and structures, mathematics, missiles, oceanography, physics, propulsion, and system management.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Evans, G. R.	Technical information	(415) 493-4411

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books: 27,615; abstracts/indexes; reports and reprints: 170,380; periodicals: 950; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans; conferences/symposiums.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

USER RESTRICTIONS: Federal security clearance; industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

LOW-TEMPERATURE SPECIFIC HEATS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-2742

DIRECTOR: Furukawa, G. T.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To analyze literature data on specific heats in the range of 0° to 300° K.

SUBJECT SCOPE: Cryogenic physics, statistical physics, temperature, radiation thermometry, pressure measurements.

MAJOR SUBJECT TERMS: Physics; Specific heat.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Furukawa, G. T.	Specific heat	(301) 921-2742

STAFF: Full-time - professional 1, nonprofessional 0, total 1; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Books; reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually, advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

May 1973

MANAGEMENT INFORMATION SYSTEMS DIRECTORATE, STINPO BRANCH

ADDRESS: US Army Electronics Command Hq.
 Fort Monmouth, NJ
 07703

TELEPHONE: (201) 535-2184

DIRECTOR: Bergman, J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

MISSION: To provide across the board information service to US Army Electronics Command, scientists, and engineers fueling the entire research, development, testing, and evaluation cycle, including state-of-the-art searches, work in progress searches, and current awareness service through automated selective dissemination of information. To develop information flow procedures for improved, augmented, and integrated information services throughout the command. To devise and implement effective utilization of computer facilities for automating the acquisition, cataloging, retrieval, and dissemination of scientific and technical information for in-house use. To coordinate and effect US Army ECON participation in and implementation of Department of the Army STINPO programs.

SUBJECT SCOPE: Electronic engineering, communications, automatic data processing systems, combat surveillance, target acquisition, night vision, avionics, navigation, atmospheric sciences, electronic warfare, electric components, power sources, materials, and related fields of physics and mathematics.

MAJOR SUBJECT TERMS: Acoustic radiation; Aircraft communications; Communications; Dangerous industrial radiation; Electromagnetic interference; Electromagnetic radiation; Flight computer; Flight controls; Ionizing radiation; Navigation; Navigation equipment; Nuclear blast; Radiation detection; Radiation physiological effects; Radiation protection.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Bergman, J.	Technical information	(201) 535-2184

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Analytical studies; referrals.

May 1973

MANUFACTURING CHEMISTS ASSOCIATION, INC. (MCA)

ADDRESS: 1852 Connecticut Avenue, NW
Washington, DC
20009

TELEPHONE: (202) 483-6126

DIRECTOR: Driver, W. J.

YEAR INFORMATION SOURCE BEGAN: 1872

MISSION: To provide leadership to its members; to aid in developing and maintaining a clear understanding by the public of the chemical industry; to undertake programs for developing and promoting safe and clean practices in the manufacture, transportation, handling, and use of chemicals and chemical products.

SUBJECT SCOPE: Chemicals; combustion; environmental pollution; economics and statistics; water resources; environmental health; safety; transportation, packaging, handling, and labeling; and food additives.

MAJOR SUBJECT TERMS: Chemical properties; Corrosion properties; Cryogenic safety; Dangerous materials; Explosives disposal; Explosives safety; Flammables disposal; Hazardous characteristics; Physical properties.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Driver, W. J.	Chemistry	(202) 483-6126

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations.

HOLDINGS: Books; reports and reprints; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

MATERIALS RESEARCH CENTER (MRC)

ADDRESS: Northwestern University
Evanston, IL
60201

TELEPHONE: (312)492-3607

DIRECTOR: Wagner, J. B. (Dr.)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Advanced Research Projects Agency) and the National Science Foundation

MISSION: To conduct basic and applied research in the field of materials.

SUBJECT SCOPE: Materials science, electrical engineering, chemistry, physics, civil engineering.

MAJOR SUBJECT TERMS: Civil engineering; Electrical/electronics engineering; Hazardous materials; Hazardous materials classification; Hazardous materials disposal; Hazardous materials identification; Mechanical properties; Physical properties; Physics; Production limitations; Structural engineering; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Wagner, J. B.	Materials research	(312)492-3607

INTERNAL PUBLICATIONS: Technical reports.

HOLDINGS: Reports and reprints.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

May 1973

MECHANICAL PROPERTIES DATA CENTER (MPDC)

ADDRESS: Belfour Stulen, Inc.
13919 West Bay Shore Drive
Traverse City, MI
49684

TELEPHONE: (616) 947-4500

DIRECTOR: Belfour, A. J.

PARENT-SPONSOR-HOST AFFILIATION: Belfour Stulen, Inc. and US Department of Defense (Defense Supply Agency). Monitored by the US Army Materials and Mechanics Research Center.

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To provide answers to specific questions regarding the mechanical properties of structural metals and alloys that are important to the Government and industry.

SUBJECT SCOPE: Mechanical properties, structural metals and alloys.

MAJOR SUBJECT TERMS: Aluminum; Applied forces (stresses); Beryllium; Corrosion properties; Cryogenic safety; Cryogenic systems materials selection; Fabrication processes; Failure mechanisms; Ferrous metals; Joining methods; Magnesium; Material processes engineering; Material properties; Mechanical properties; Mechanics of structural failure; Nickel; Novel materials; Production limitations; Structural materials limitations; Titanium.

RESEARCH AND DEVELOPMENT ACTIVITIES: Receives reports from DoD research and development efforts.

SPECIAL SCOPE FEATURES: The Mechanical Properties Data Center collects, stores, and on request, retrieves test results from tests conducted on metal and metal alloy products to determine their engineering mechanical properties. All test data stored in the MPDC file have been extracted from published and unpublished test reports generated by private industry, universities, and Government-sponsored research laboratories. Design values and specification minimum values are not stored. The MPDC data file contains only actual test results. Test results are stored for the standardized test types, along with various descriptors necessary to define the product tested, such as the alloy designation and product form and the fabrication processes used in manufacturing the products. Additional descriptors are included to define the metallurgical condition of the product tested. Chemical composition and the time-temperature details of the heat-treatment are also stored.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Belfour, A. J.	Metallurgy	(616) 947-4500
Attwood, V.	Materials	(616) 947-4500 x61
Moore, T. D.	Metallurgical processes	(616) 947-4500 x60

STAFF: Full-time - professional 3, nonprofessional 4, total 7; part-time - professional 2, nonprofessional 4, total 6.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books: 400; reports and reprints: 40,000; periodicals: 1,200; standards and specifications: 2,500; graphics/tables. Range of years of total: 1940 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

METAL POWDER INDUSTRIES FEDERATION (MPIF)

ADDRESS: 201 East 42nd Street
New York, NY
10017

TELEPHONE: (212) 682-0115

DIRECTOR: Roll, K. H.

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: To provide its members with a "total outlook" on the metal powder producing and consuming industries.

SUBJECT SCOPE: Metal powders processes and applications.

MAJOR SUBJECT TERMS: Aluminum; Aluminum alloys; Chemical properties; Copper; Corrosion properties; Ferrous metals; Industrial safety; Magnesium; Mechanical properties; Metal powders; Metallurgical processes; Physical properties; Primary fabrication; Production limitations; Secondary fabrication.

RESEARCH AND DEVELOPMENT ACTIVITIES: Promotes advancement of powder metallurgy through research.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Roll, K. H.	Powder metallurgy	(212) 682-0115
Johnson, P. K.	Metal powders	(212) 682-0115

STAFF: Full-time - professional 2, nonprofessional 4, total 6; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Range of years of total: 1948 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; bibliographic abstracts.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; ad hoc permission; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

METALS AND CERAMICS INFORMATION CENTER (MCIC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x2156; FTS 295-8045

DIRECTOR: Moran, H. D.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and US Department of Defense

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To collect, evaluate, and disseminate timely information on the characteristics and utilization of advanced metals, ceramics, and selected composites.

SUBJECT SCOPE: Metals, including titanium, aluminum, magnesium, and beryllium, refractory metals, high strength steels, superalloys, rhenium and vanadium; ceramics, including borides, carbides, carbon/graphite, nitrides, oxides, sulfides and silicides, intermetallics, selected glasses and glass-ceramics; composites, including fiber-reinforced plastics, metals, and ceramics; coatings; environmental effects; mechanical and physical properties; materials applications; test methods; sources, suppliers, and specifications; and industrial processes.

MAJOR SUBJECT TERMS: Aluminum; Aluminum alloys; Beryllium; Ceramics; Composites; Cuproberyllium alloys; Experimental alloys; Glass; High strength steels; Magnesium; Metal powders; Novel materials; Refractory metals; Steel alloys; Titanium; Titanium alloys; Wrought aluminum.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on the applications, properties, performance, processing, fabricating and testing of metallic and ceramic materials and composites.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Moran, H. D.	Metallurgy	(614) 299-3151

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 100,000; range of years of total: 1955 to present.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
BASIS-70	Battelle Automated Search Information System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

METALS INFORMATION SERVICE

ADDRESS: Metals Park, OH
44073

TELEPHONE: (216) 338-5151

DIRECTOR: Chafe, H. D.

PARENT-SPONSOR-HOST AFFILIATION: American Society for Metals

MISSION: To provide efficient, economical coverage and retrieval of the world's technical literature in metallurgy and associated technologies.

SUBJECT SCOPE: Constitution of metals, crystal properties, lattice defects, structural hardening, physics of metals, irradiation effects; metallography, testing, analysis; mechanical and physical properties, electrical and magnetic phenomena, chemical and electrochemical properties, corrosion; ores, and raw materials, extraction and smelting, refining and purification, ferrous and nonferrous alloy production; foundry processes, working, machining, powder technology, joining, thermal treatment, finishing, metallic coating; engineering components and structures, composites, electronic devices.

MAJOR SUBJECT TERMS: Chemical properties; Composites; Crystal properties; Electromagnetic phenomena; Fabrication processes; Ferrous alloys; Finishing (metals); Foundry practices; Irradiation effects; Joining methods; Lattice defects; Machining; Metallic coatings; Metallography; Powder metallurgy; Refining; Smelting; Structural materials limitations; Thermal treatment; Working (metals).

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Chafe, H. D.	Metallurgy	(216) 338-5151

INTERNAL PUBLICATIONS: Books; abstracts; indexes; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals: 1,200; reference lists/bibliographies. Total number of titles: 150,000.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
Metal Abstracts Index	Metals abstracts-reviews of metal literature		
METALERT	Periodical retrospective bibliography and current awareness computer printout		
World Aluminum Abstracts	Abstracts index for aluminum technology		

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Accession of new acquisitions lists; reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

MICROWAVE SPECTRAL DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-2024

DIRECTOR: Lovas, F. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To tabulate and evaluate microwave spectral frequencies and molecular parameters derived from data.

SUBJECT SCOPE: Microwave spectra of molecules and the physical properties derived therefrom.

MAJOR SUBJECT TERMS: Astronomy; Astrophysics; Cosmic radiation; Cosmic rays; Galactic radiation; Infrared technology; Interplanetary gases; Ionizing radiation; Microwave theory; Radiation; Radiation belts; Radiation detection; Radiation detectors; Radiation monitoring; Radiation physiological effects; Radiation protection; Radiation shielding; Shielding equipment; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: In addition to the publication of the extensive tables of microwave spectral data, a more specialized project concerning the critical analysis of the microwave spectrum of molecules identified in the interstellar medium via radioastronomy techniques. In addition to observed spectral frequencies, all microwave transitions that occur within the frequency range of radio telescopes are predicted with well-defined uncertainties by these analyses.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Lovas, F. J.	Solid state physics	(301) 921-2024

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

May 1973

MIDWEST RESEARCH INSTITUTE (MRI)

ADDRESS: 426 Volker Boulevard
Kansas City, MO
64110

TELEPHONE: (816) 561-0202

DIRECTOR: Kimball, C.

YEAR INFORMATION SOURCE BEGAN: 1944

MISSION: To define precise areas of individual client needs and provide him with a practical and realistic solution to his problem, within specific time and cost dimensions.

SUBJECT SCOPE: Physical, biological, and engineering sciences, including environmental concerns, health and safety, and materials; economics and management science, including product and process development, industrial technology, business planning and forecasting, marketing, and systems analysis; recreation, public and urban affairs, and regional development.

MAJOR SUBJECT TERMS: Air pollutants; Cryogenic systems materials selection; Environmental influences; Fire and explosion chemistry; Fire modeling; Fire models; Flight simulation; Flight simulation operations; Human characteristics; Human factors design; Hydraulic fluids; Industrial safety; Instruments; Lubricants; Propellants and fuels; Safety engineering; Space simulation operations; Stress/strain analysis; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research in pollution control, education, law enforcement, business planning, traffic safety, drug abuse, cancer, effects of pesticides, bacteriology, immunology, virology, pharmacology, toxicology, biochemistry, biophysics, chemical and biochemical detection, biomedical materials, technology assessment, and other subject areas.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Kimball, C.	Physical sciences	(816) 561-0202
Stout, H. L.	Physics	(816) 561-0202

STAFF: Full-time - professional 240, nonprofessional 110, total 350; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books: 3,500; abstracts/indexes: 15; reports and reprints: 7,000; periodicals: 600; reference lists/bibliographies: 25; standards and specifications: 500; statistical compilations: 50. Total number of titles: 11,690; range of years of total: 1943 to present.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Traffic Safety Library		1955 - present	2,000
Bay Area Air Pollution Library		1935 - present	15,000
EPIC	Environmental Pollution Information Center	1950 - present	400
ERIC	Energy Resources Information Center	1968 - present	100

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; courses/workshops; conferences/symposiums.

MIDWEST RESEARCH INSTITUTE (MRI)

HOLDINGS: Books: 3,500; abstracts/indexes: 15; reports and reprints: 7,000; periodicals: 600; reference lists/bibliographies: 25; standards and specifications: 500; statistical compilations: 50. Total number of titles: 11,690; range of years of total: 1943 to date.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NASA SCIENTIFIC AND TECHNICAL INFORMATION OFFICE

ADDRESS: Office of Industry Affairs and Technology Utilization
Code: KS
Washington, DC
20546

TELEPHONE: (202) 755-3548

DIRECTOR: Pryor, H. E.

PARENT-SPONSOR-HOST AFFILIATION: National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To collect, process, and announce scientific and technical information on world-wide aerospace research and development activities, and to disseminate this knowledge to the international scientific community.

SUBJECT SCOPE: Aerodynamics; aircraft; auxiliary systems; biosciences; biotechnology; chemistry; communications; computers, electronic equipment; electronics; fluid mechanics; geophysics; instrumentation and photography; machine elements and processes; masers; mathematics; meteorology; navigation; nuclear engineering; physics, general; atomic, molecular, nuclear, plasma, and solid-state physics; propellants; propulsion systems; space radiation; space sciences; space vehicles; structural mechanics; thermodynamics and combustion; metallic and nonmetallic materials; research and support facilities.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Pryor, H. E.	Technical information	(202) 755-3548
Dropka, F. G.	Technical information	(202) 755-3582
Vlannes, P. N.	Technical information	(202) 755-3551
Rowsome, F. H.	Technical information	(202) 755-3568
Feinstein, P. S.	Technical information	(202) 755-3464
Wente, V. A.	Technical information	(202) 755-3466

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 900,000; range of years of total: 1961 to present.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
NASA/RECON	Information Retrieval System	1962 - present	900,000
NASA/SCAN	Current Awareness Service	1967 - present	400,000

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NATIONAL AIRCRAFT ACCIDENT INVESTIGATION SCHOOL (NAAIS)

ADDRESS: Dulles International Airport
 PO Box 17226
 Washington, DC
 20041

TELEPHONE: (703) 471-1007

DIRECTOR: Nelmes, E. V.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (National Transportation Safety Board)

MISSION: To train air safety investigators of the National Transportation Safety Board.

SUBJECT SCOPE: Aircraft accident investigations and related areas; aerodynamics, materials, metallurgy, structures, power plants, systems investigations, weather, navigation, and flight facilities.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aircraft problems; Airport emergency facilities; Codes; Commercial aviation; Detection and warning systems; Egress; Emergency descent; Fire fighting; Fire fighting equipment; Flight recorders; Regulations; Standards; Statutes; Vehicle fires; Vehicle fire prevention design.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Nelmes, E. V.	Accident analysis	(703) 471-1007

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations.

HOLDINGS: Books; reports and reprints; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: State-of-the-art reviews; analytical studies; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Staff or members of affiliated organizations; Government employees.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE)

ADDRESS: 2400 West Loop South
Houston, TX
77027

TELEPHONE: (713) 622-8900

DIRECTOR: Hull, J. T.

YEAR INFORMATION SOURCE BEGAN: 1945

MISSION: To encourage the recognition of corrosion as a technical problem requiring research by and education of skilled scientists to determine the causes, feasible solutions, and methods of prevention; to promote standardization of terminology, techniques, equipment, and design in corrosion control.

SUBJECT SCOPE: Corrosion causes, control and methods of prevention; environmental effects; materials problems in handling various chemicals; suitable test methods; processes involving analyses of high temperatures; effects of protective coatings and linings; techniques of surface preparation; testing and selection of materials; corrosion problems in metals; refining; petroleum production; chemical processes; plastics; pipelines; consulting, utilities, and other industries.

MAJOR SUBJECT TERMS: Coatings; Compatibility; Corrosion; Corrosion properties; Corrosives; Galvanic corrosion; Oxidation; Oxidation inhibitors; Oxidation stability.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research on corrosion.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hull, J. T.	Corrosion	(713) 622-8900

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (NCAR)

ADDRESS: PO Box 1470
Boulder, CO
80302

TELEPHONE: (303) 494-5151

DIRECTOR: Firor, J. W. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: National Science Foundation and University Corporation
for Atmospheric Research

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To serve as a focal point for a vigorous and integrated national research effort
in the atmospheric sciences, aimed at achieving a deeper understanding of the total
behavior of the atmosphere.

SUBJECT SCOPE: Atmospheric sciences, mathematics, physics, and chemistry.

MAJOR SUBJECT TERMS: Climatic ranges; Environmental influences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research programs with special emphasis on
problems involving several scientific disciplines.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Firor, J. W.	Environmental sciences	(303) 494-5151

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting
services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973

NATIONAL CLIMATIC CENTER (NCC)

ADDRESS: Environmental Data Service
Federal Building
Asheville, NC
28801

TELEPHONE: (704) 254-0961 x683; FTS (704) 254-0683

DIRECTOR: Haggard, W. H.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Oceanic and Atmospheric Administration)

YEAR INFORMATION SOURCE BEGAN: 1951

MISSION: To provide researchers in Government, private institutions, and industry, atmospheric scientists and engineers, and the general public with historical weather information and related products; to administer World Data Center A: Meteorology; to act as collection center and custodian of all US weather records; and to collect, quality control, summarize, publish, and distribute weather data.

SUBJECT SCOPE: Climatic information, including surface observations such as ceiling, sky cover, visibility, precipitation or other weather phenomena, obstructions to vision, pressure, temperature, dew point, wind direction and speed; upper air observations; radar observations; satellite data, maps and charts, and other meteorological and radiological data; climatology; air pollution; aviation meteorology, and marine weather data.

MAJOR SUBJECT TERMS: Air; Air pollution; Atmospheres; Atmospheric monitoring; Carbon dioxide; Carbon monoxide; Climatic ranges; Freezing point; Lightning; Lightning strikes; Low temperatures; Meteorology; Meteorological considerations; Nitrogen; Oxygen; Smoke; Smoke detectors; Upper atmosphere; Weather modification.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development is conducted when assigned or approved by the Environmental Data Service.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Haggard, W. H.	Environmental sciences	(704) 254-0961

STAFF: Full-time - professional -, nonprofessional -, total 360; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; abstracts; technical reports; statistical compilations; periodicals/journals; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: General technology community; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS (NCRP)

ADDRESS: 7910 Woodmont Avenue, Suite 1016
Bethesda, MD
20014

TELEPHONE: (301) 657-2652

DIRECTOR: Ney, W. R.

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To collect, analyze, develop, and disseminate in the public interest information and recommendations about protection against radiation and radiation measurements, quantities, and units, particularly those concerned with radiation protection.

SUBJECT SCOPE: The effects of radiation on man, radiation protection and measurement, biology, physics, chemistry, radiology, genetics, pathology, mathematics, dentistry, and veterinary medicine.

MAJOR SUBJECT TERMS: Detection; Ionizing radiation; Radiation; Radiation physiological effects; Radiation protection; Radioactive decontamination; Radioactive spills; Radioactive wastes; Radioisotopes applications; Shielding; Solar radiation; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Has access to research programs national and internationally more than 200 participating scientists.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Ney, W. R.	Radiation	(301) 657-2652

STAFF: Full-time - professional 3, nonprofessional 6, total 9; part-time - professional 260, nonprofessional 0, total 260.

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; bibliographic abstracts.

May 1973

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

ADDRESS: 470 Atlantic Avenue
Boston, MA
02210

TELEPHONE: (617)482-8755

DIRECTOR: Morqan, C. P.

YEAR INFORMATION SOURCE BEGAN: 1896

MISSION: To promote the science and improve the methods of fire protection and prevention; to obtain and circulate information; and to secure the cooperation of its members and the public in establishing proper safeguards against loss of life and property by fire.

SUBJECT SCOPE: Fire prevention; fire protection; fire standards and codes; fire extinguishment systems; flammable liquids storage and handling; gas, electric, and marine fire protection; equipment; industrial fire protection; and fire prevention and protection of railroad properties.

MAJOR SUBJECT TERMS: Accidents; Chemical hazards; Cryogenic safety; Dangerous materials disposal; Explosives safety; Fire; Fire, explosion, and detonations; Fire point; Fire protection; Flash point; Fuel handling; Fuel storage; Fuel transportation; Hazard detection systems; Quantity/distance criteria; Shipping procedures; Shipping regulations; Transportation procedures; Transportation regulations.

SPECIAL SCOPE FEATURES: Fire and explosion in all environments.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on public fire protection and fire loss experience.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (X)</u>
Morqan, C. P.	Fire protection	(617) 482-8755
Stevens, R. E.	Structural engineering	(617) 482-8755
Babcock, C. I.	Elastics	(617) 482-8755
Woodworth, M. E.	Propellants and fuels	(617) 482-8755
Walls, W. L.	Dangerous materials	(617) 482-8755
Tryon, G. H.	Fire safety	(617) 482-8755
Grimes, M. E.	Fire fighting	(617) 482-8755
Peterson, C. E.	Fire hazard evaluation	(617) 482-8755

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; standards and specifications.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; statistical compilations; films and slides.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
FIDO	Fire Incident Data Organization	1970 - present	12,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

NATIONAL FLUID POWER ASSOCIATION (NFPA)

ADDRESS: PO Box 49
Thiensville, WI
53092

TELEPHONE: (414) 242-4160

DIRECTOR: Pearce, T.

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To further the application of fluid power; to conserve effort, improve efficiency, and lower the cost of production to both manufacturer and user; to foster the cooperative development of recommended standards and practices; and to provide a meeting ground where common problems can be discussed.

SUBJECT SCOPE: Fluid power pumps, motors, valves, cylinders, filters, fluidic devices, seals, accumulators, air purifying systems technology dealing with the control and transfer of power by means of a pressurized fluid.

MAJOR SUBJECT TERMS: Deflagrations; Explosions; Hydraulic components; Hydraulic fluids; Lubricants; Pneumatic components; Propellants.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Pearce, T.	Hydraulic engineering	(414) 242-4160

STAFF: Full-time - professional 2, nonprofessional 8, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

ADDRESS: Division of Technical Services
PO Building, Room 506
Cincinnati, OH
45201

TELEPHONE: (513) 684-2141

DIRECTOR: Craft, B. F.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Health, Education, and Welfare

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To engage in research, education, and training in a national effort to eliminate on-the-job hazards to the health and safety of America's working men and women.

SUBJECT SCOPE: Effects of exposure to hazardous substances in working environments; psychological, motivational, and behavioral factors involved in occupational safety and health.

MAJOR SUBJECT TERMS: Accident data; Accident/incident investigation; Dangerous industrial radiation; Environmental degradation; Fire fighting clothing; Handling procedures; Hazardous materials; Human factors; Ionizing radiation; Life support systems; Man-machine hazards; Personal protective clothing; Radiation detection; Radiation monitoring; Radioactive decontamination; Radioactive spills; Safety analysis; Safety engineering; Toxic gas; Toxic substances.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research designed to produce recommendations for new occupational safety and health standards.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Craft, B. F.	Industrial safety and health	(513) 684-2141
Oser, J.	Technical information	(513) 684-2693

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; bibliographic abstracts.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

NATIONAL LIBRARY OF MEDICINE (NLM)

ADDRESS: 8600 Rockville Pike
Bethesda, MD
20014

TELEPHONE: (301)496-6308

DIRECTOR: Cummings, M. M.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Health, Education, and Welfare (National Institutes of Health)

YEAR INFORMATION SOURCE BEGAN: 1836

MISSION: To collect, organize, index, and disseminate useful information and new medical knowledge for all who are dedicated to the prevention and treatment of disease and disability.

SUBJECT SCOPE: Health sciences.

MAJOR SUBJECT TERMS: Aerospace medicine; Health hazards; Human factors; Medical sciences; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Cummings, M. M.	Medical sciences	(301)496-6308

STAFF: Full-time - professional 246, nonprofessional 216, total 462; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 1,500,000.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
MEDLARS	Journal citations	1964 - present	2,000,000
MEDLINE	Journal citations	1970 - present	450,000
TOXLINE	Pharmacology and toxicology citations and abstracts	1948 - present	210,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NATIONAL LP-GAS ASSOCIATION (NLPGA)

ADDRESS: 79 West Monroe Street
Chicago, IL
60603

TELEPHONE: (312) 372-5484

DIRECTOR: Johnson, W. H.

MISSION: To promote and develop the LP-gas industry and to coordinate its activities to the end that it may serve to the fullest possible extent the best interests of the public; to increase the effectiveness of gas service; and to advance knowledge in the sciences.

SUBJECT SCOPE: LP-gas, air pollution, flame weeding, thermal agriculture, safety, fire prevention, and product transportation.

MAJOR SUBJECT TERMS: Compressed gases; Cryogenic safety; Environmental effects; Handling procedures; Liquefied gases; Shipping procedures; Transportation procedures.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports development of new and expanding applications of LP-gas; reviews utilization research needs, and develops, encourages, coordinates, and recommends research programs to meet these needs.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Johnson, W. H.	Compressed gases; Liquefied gases	(312) 372-5484
Gumz, D. M.	Compressed gases, Liquefied gases	(312) 372-5484

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

REFERENCE AND QUERY SERVICES: Bibliographic abstracts.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

NATIONAL REFERRAL CENTER

ADDRESS: Library of Congress
Science and Technology Division
10 First Street, SE
Washington, DC
20540

TELEPHONE: (202) 426-5670

DIRECTOR: McFarland, M. W.

PARENT-SPONSOR-HOST AFFILIATION: Library of Congress (Science and Technology Division)

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To help people that have specific questions in science and technology (including the social sciences) by referring them to organizations that can answer the questions; to maintain a subject-indexed inventory of information sources specifically geared to this purpose.

SUBJECT SCOPE: Physical, biological, social, and engineering sciences.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
McFarland, M. W.	Technical information	(202) 426-5670
Price, J.	Technical information	(202) 426-5670
Trew, J. R.	Technical information	(202) 426-5664

STAFF: Full-time - professional 9, nonprofessional 1, total 10; part-time - professional 6, nonprofessional 6, total 12.

HOLDINGS: Reference lists/bibliographies. Total number of titles: 80,000; range of years of total: 1963 to present.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
IRIS	Information about organizations	1963 - present	8,000
NRC-PUB	Directory entries	1969 - present	7,300

REFERENCE AND QUERY SERVICES: Referrals.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

NATIONAL SAFETY COUNCIL

ADDRESS: 425 North Michigan Avenue
Chicago, IL
60611

TELEPHONE: (312) 527-4800

DIRECTOR: Pyle, H.

YEAR INFORMATION SOURCE BEGAN: 1913

MISSION: To arouse and maintain the interest of the people of the United States in safety and accident prevention; to determine and evaluate methods and procedures to prevent accidents and mitigate injury and economic loss, and provide leadership for adoption and use of those methods and procedures that best serve the public interest.

SUBJECT SCOPE: Industrial hygiene; aviation ground operations safety; driver training; accident analysis; fire prevention; prevention of home, farm, school, occupational, traffic, product, and recreational injuries.

MAJOR SUBJECT TERMS: Accident analysis; Accident prevention; Accidents/incidents; Airport emergency facilities/equipment; Emergency procedures; Fire protection; Hazardous materials; Safety analysis; Safety data sheets; Safety practices; Safety standards; Transportation regulations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts and encourages research and analysis of all aspects of the accident problem.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Pyle, H.	Safety	(312) 527-4800

INTERNAL PUBLICATIONS: Handbooks/manuals; newsletters/trade literature; conference papers; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973

NATIONAL SPACE SCIENCE DATA CENTER (NSSDC)

ADDRESS: Goddard Space Flight Center
Code 601
Greenbelt, MD
20771

TELEPHONE: (301)982 6695

DIRECTOR: Vette, J. I.

PARENT-SPONSOR-HOST AFFILIATION: National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To further the widest practicable use of reduced data obtained from space science investigations with an active repository of such data.

SUBJECT SCOPE: Ionospheres, radio physics, planetary atmospheres, particles and fields, solar physics, astronomy, planetology, selenology, meteorology, geomagnetism, aurora and airglow, cosmic rays, rockets and satellites, and space sciences.

MAJOR SUBJECT TERMS: Cosmic radiation; Cosmic rays; Electromagnetic interference; Electromagnetic radiation; Extraterrestrial environmental hazards; Geomagnetism; Information analysis; Ionizing radiation; Maintainability; Space vehicle problems.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Vette, J. I.	Electromagnetism	(301)982-6695

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
AIM	Spacecraft experiments, data sets	1958 - present	5,600
ROCKET	Sounding Rocket Launches	1947 - present	6,200
TRF	Technical Reference File	1958 - present	16,000
RASH	Request Accounting Status and History	1965 - present	11,000
DIST	Distribution Lists		6,900

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

ADDRESS: 5285 Port Royal Road
Springfield, VA
22151

TELEPHONE: (202) 967-2175

DIRECTOR: Knox, W. T.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce

MISSION: To act as central source for the public sale of Government-sponsored research and development reports and other Government analyses prepared by Federal agencies, their contractors, or grantees.

SUBJECT SCOPE: Aerospace and aerodynamics; astronomy and astrophysics; atmospheric sciences; biological and medical sciences; chemistry; civil, structural and marine engineering; communications; detection and countermeasures; earth sciences; electrotechnology; energy conversion; mathematics; methods, instrumentation, and equipment; military sciences; missile technology; navigation, guidance, and control; nuclear technology; ocean sciences; ordnance; physics; propulsion and fuels; reprography and recording devices; space technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Knox, W. T.	Technical information	(202) 967-2175

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 700,000 range of years total: 1948 to date.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
GRA	Government Reports Announcements	1964 - present	300,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NATIONAL TRANSPORTATION SAFETY BOARD (NTSB)

ADDRESS: 800 Independence Avenue, SW
Washington, DC
20591

TELEPHONE: (202) 426-8787

DIRECTOR: Reed, J. H.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To carry out investigations and make cause determinations of air and surface accidents, and to issue special studies and safety recommendations directed at preventing such accidents.

SUBJECT SCOPE: Aviation safety; surface transportation safety; pipeline transportation safety.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aircraft problems; Commercial aviation; Codes; Emergency descent; Fire fighting; Fire fighting equipment; Flight recorders; Regulations; Standards; Statutes; Vehicle fire prevention design; Vehicles; Warning systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Reed, J. H.	Safety engineering	(202) 426-8787

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NAVAL AEROSPACE RECOVERY FACILITY (NARF)

ADDRESS: Naval Air Systems Command
 El Centro, CA
 92243

TELEPHONE: (714) 339-2401

DIRECTOR: Rich, C. E. (Capt)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: To conduct development, test, and evaluation of parachutes and related assemblies; human escape methods and systems; retardation and recovery systems; rescue survival and personnel safety equipment; stabilization, retardation, and recovery systems for lay-down type weapons, aircraft, missiles, and capsule assemblies.

SUBJECT SCOPE: Safety analysis; fabrication and maintenance of parachutes and associated test equipment; high-speed air-to-air and ground-to-air engineering surveillance, including closed-circuit TV and aerial photography; telemetry; communications; detection and tracking; electronic instrumentation; and metallurgical and chemical analysis of materials.

MAJOR SUBJECT TERMS: Emergency descent; Ground recovery facilities; Ground recovery operations; Life support design; Recovery systems; Reentry; Search and rescue operations; Test facilities; Test operations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (X)</u>
Rich, C. E.	Recovery operations	(714) 339-2401
Shaw, F. A.	Recovery operations	(714) 339-2581

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

May 1973

NAVAL AIR DEVELOPMENT CENTER (NADC)

ADDRESS: Department of the Navy
Warminster, PA
18974

TELEPHONE: (215)672-9000

DIRECTOR: Hollingsworth, G. L.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1944

MISSION: To conduct program of research, design, development, test, and evaluation of aeronautical systems and components, and to perform research and development in the area of aviation medicine.

SUBJECT SCOPE: Aviation and space medicine, acceleration, biochemistry, physiology, psychology, simulation, vibration, space sciences, health physics, safety, chemistry, electrical and mechanical engineering, materials engineering, operations research, and mathematics.

MAJOR SUBJECT TERMS: Behavioral sciences; Biological sciences; Chemistry; Electrical/electronics engineering; Mathematical sciences; Physics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and development in areas such as self-contained navigation systems, command and control, simulation techniques; surveillance systems, aircraft design, countermeasures, systems analysis, and aircrew support.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hollingsworth, G. L.	Engineering	(215) 672-9000

STAFF: Full-time - professional 4, nonprofessional 7, total 11; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books: 7,000; abstracts/indexes: 8; reports and reprints: 50,000; periodicals: 300; reference lists/bibliographies: 100; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 57,408; range of years of total: 1940 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; industrial/corporate security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

NAVAL AIR PROPULSION TEST CENTER (NAPTC)

ADDRESS: Naval Air Systems Command
 PO Box 176
 Trenton, NJ
 08628

TELEPHONE: (609) 882-1414

DIRECTOR: Williams, A. (Capt)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

DIRECTOR: 1967

MISSION: To test and evaluate aircraft propulsion systems, their components and accessories, and fuels and lubricants; and to perform applied research and development leading to correction of design deficiencies and service problems.

SUBJECT SCOPE: Aircraft propulsion systems; fuels; lubricants and power drives; fluids; engineering; materials; measurement; turbojet/turbofan; shaft powers and accessories.

MAJOR SUBJECT TERMS: Aircraft propulsion systems; Engineering; Fluids; Fuels; Lubricants; Materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs applied research and development leading to the correction of engine deficiencies.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Williams, A.	Aircraft propulsion systems	(609) 882-1414 x201
Stumpke, B.	Aircraft propulsion systems	(609) 882-1414 x301
Martino, A.	Aircraft propulsion systems	(609) 882-1414 x388

STAFF: Full-time - professional 160, nonprofessional 475, total 635; part-time - professional 1, nonprofessional 2, total 3.

INTERNAL PUBLICATIONS: Statistical compilations; newsletters/trade literature.

HOLDINGS: Statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually.

USER QUALIFICATIONS: General technology community; immediate staff or members; Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

NAVY MAINTENANCE AND MATERIAL MANAGEMENT SYSTEM (3-M SYSTEM)

ADDRESS: Navy Maintenance Support Office
(Code 313)
Mechanicsburg, PA
17055

TELEPHONE: (717) 766-8511 x2031

DIRECTOR: Brommer, J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy, Chief of Naval Material)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To design, develop, and operate a data accumulation and processing system for the Navy Maintenance and Material Management (3-M) System in order to provide maintenance and maintenance support data as required by all levels of Navy management.

SUBJECT SCOPE: Availability, reliability, failure rates, and maintenance costs; personnel requirements for ordnance, electronics, ships, and air systems maintenance.

MAJOR SUBJECT TERMS: Cryogenic systems materials selection; Inspection; Maintainability; Maintenance facilities; Maintenance operations; Reliability.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Brommer, J. E.	Mechanical engineering	(717) 766-8511 x2031
Derstler, E. J.	Maintenance	(717) 766-8511 x2031
Peiffer, W. E.	Maintenance	(717) 766-8511 x2031

STAFF: Full-time - professional 74, nonprofessional 9, total 83; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; statistical compilations; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reference lists/bibliographies; standards and specifications; statistical compilations.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
3-M	Central Data Bank	1965 - present	200,000,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; analytical studies; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NEW ENGLAND RESEARCH APPLICATION CENTER (NERAC)

ADDRESS: University of Connecticut
Mansfield Professional Park
Storrs, CT
06268

TELEPHONE: (203) 429-5151; TWX (710) 420-0572

DIRECTOR: Wilde, D. U. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: University of Connecticut and National Aeronautics and Space Administration

MISSION: To provide custom information retrieval services to industrial and academic communities of knowledge and information/technology acquired by NASA, the US Department of Defense, the American Society for Metals, and other technical organizations.

SUBJECT SCOPE: Aerospace and aeronautics technology, engineering, chemistry, physics, nuclear sciences, materials.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Wilde, D. U.	Technical information	(203) 429-5151

INTERNAL PUBLICATIONS: Abstracts; periodicals/journals; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
DDC	Defense Documentation Center report literature		
METADEx	American Society for Metals		
GRA	National Technical Information Service report literature		
WAA	World Aluminum Abstracts		
ERIC	Educational Resources Information Center		
CA	Chemical Abstracts		
NASA	NASA report literature		

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

NONDESTRUCTIVE TESTING INFORMATION ANALYSIS CENTER (NTIAC)

ADDRESS: US Army Materials and Mechanics Research Center
Watertown, MA
02172

TELEPHONE: (617)926-1900 x343, x522; AV 684-8343, 684-8552

DIRECTOR: Merhib, C. P.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To collect, maintain, and disseminate information in the field of nondestructive testing (radiography, ultrasonics, electromagnetics, and other nondestructive testing methods).

SUBJECT SCOPE: Nondestructive testing, including eddy currents, electrified particle, electromagnetic, filtered particle, fluorescent penetration, Lamb-wave, magnetic particle, sonic, and spark tests.

MAJOR SUBJECT TERMS: Explosives safety; Flight controls; Instrumentation; Nondestructive testing; Pyrotechnic materials; Pyrotechnics; Quality control; Reliability; Safety practices; Test facilities; Test operations; Test techniques.

RESEARCH AND DEVELOPMENT ACTIVITIES: Associated with AMMRC.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Merhib, C. P.	Nondestructive testing	(617) 926-1900

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; statistical compilations; reference lists/bibliographies.

HOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
AMRA			
DDC TAB			
NASA STAR			

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

NONDESTRUCTIVE TESTING INFORMATION CENTER (NTIC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x1859; TT (810) 482-1679

DIRECTOR: Meister, R. P.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute

YEAR INFORMATION SOURCE BEGAN: 1969

MISSION: To provide support to division and departmental research staff with current awareness and background information on applications and development of nondestructive testing techniques relating to various materials and products.

SUBJECT SCOPE: Nondestructive testing techniques and equipment, including penetrating radiation (x-ray, gamma, neutron, and radiometry); ultrasonic, eddy current, magnetic particle, liquid penetrant, and infrared inspection; optical holography; and acoustic emission testing.

MAJOR SUBJECT TERMS: Analytical methods; Analytical techniques; Detection and warning systems; Hazard detection systems; Inspection; Infrared technology; Materials evaluation; Nondestructive testing; Radioisotopes applications; Test equipment; Test facilities; Test operations; Test techniques; Tests; Warning systems; X-ray technology.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research related to specific materials and products; develops new inspection techniques, testing devices and signal-processing and analysis methods.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Meister, R. P.	Nondestructive testing	(614) 299-3151

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations.

DATA BANK RESOURCES:

<u>Name or Acronym</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
BASIS-70	Battelle Automated Search Information System		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

May 1973

NORTH CAROLINA SCIENCE AND TECHNOLOGY RESEARCH CENTER (NC/STRC)

ADDRESS: Box 12235
Research Triangle Park, NC
27709

TELEPHONE: (919) 549-8291

DIRECTOR: Chenery, P. J.

PARENT-SPONSOR-HOST AFFILIATION: North Carolina Department of Natural and Economic Resources (Board of Science and Technology)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To operate a NASA-sponsored regional dissemination center to assist industry and research organizations in the southeastern United States to solve their technical problems.

SUBJECT SCOPE: Noise and hearing conservation; space sciences; chemistry; biomedical engineering, electronics; management techniques; air pollution; aerodynamics and aircraft; biosciences; chemistry; geophysics; instrumentation and photography; masers; materials; mathematics; meteorology; physics; propellants and propulsion systems; thermodynamics and combustion; communications; energy systems; transportation systems; auxiliary systems' biotechnology; computers; structural mechanics; research and support facilities; fluid mechanics; navigation; nuclear engineering; textile technology; food science and technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Grants for research by parent organization.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Chenery, P. J.	Technical information	(919) 549-8291

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
NASA		1962 - present	611,293
DDC USGRDR ERA		1964 - present	207,824
ERIC	RIE and CIJE	1967 - present	125,625
ITT	Institute of Textile Technology	1967 - present	84,117
WTA	World Textile Abstracts	1970 - present	28,790
FSTA	Food Science and Technology Abstracts	1972 - present	19,187

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

NUCLEAR SAFETY INFORMATION CENTER (NSIC)

ADDRESS: Oak Ridge National Laboratory
PO Box Y
Oak Ridge, TN
37830

TELEPHONE: (615) 483-8611 x3-7253; FTS (615) 483-7253

DIRECTOR: Cottrell, W. B.

PARENT-SPONSOR-HOST AFFILIATION: Union Carbide Corporation for the US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To collect, store, evaluate and disseminate nuclear safety information; to expedite the utilization of relevant nuclear safety information throughout the nuclear community; and to enhance the development of nuclear power.

SUBJECT SCOPE: General safety criteria; siting, containment, and plant safety features for nuclear facilities; transportation and handling of radioactive materials; aerospace safety; heat transfer and thermal transients; reactor transients, kinetics and stability; fission product release, transport, and removal; sources of energy release under accident conditions; nuclear instrumentation, control and safety systems; electrical power systems; radionuclide release and movement in the environment; environmental surveys, monitoring, and radiation exposure of man; meteorological considerations; operational safety and experience; and safety analysis and design reports.

MAJOR SUBJECT TERMS: Accident/incident investigation; Accident/incident reporting; Ionizing radiation; Nuclear power plants; Nuclear radiation; Nuclear safety; Radiation; Radiation detection; Radiation protection; Radiation resistance; Radioactive wastes.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research activities in subject areas, using staff scientists and engineers who work part-time at the center and devote the other portion of their time to research in their particular specialties.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (X)</u>
Buchanan, J. R.	Nuclear safety	(615) 483-8611
Cottrell, W. B.	Nuclear safety	(615) 483-8611
Hagen, E. W.	Instrumentation	(615) 483-8611
Keilholtz, G. W.	Physical chemistry	(615) 483-8611
Houser, B. L.	Nuclear radiation	(615) 483-8611
Robinson, G. C.	Mechanical engineering	(615) 483-8611
Scott, R. L.	Nuclear engineering	(615) 483-8611
Swisher, S. D.	Meteorology	(615) 483-8611

STAFF: Full-time - professional 10, nonprofessional -, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals; reference lists/bibliographies; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually, retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

NUMERICAL CONTROL SOCIETY (NCS)

ADDRESS: PO Box 138
Spring Lake, NJ
07762

TELEPHONE: (201) 449-1400

DIRECTOR: White, W. H.

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To promote numerical control education and technology; to develop, recommend, and disseminate numerical control evaluation and justification analyses; to collect, store, and disseminate all phases of numerical control information; and to recommend and disseminate numerical control standards.

SUBJECT SCOPE: Numerically controlled equipment for machining, metalworking, torch cutting, bending, textiles, inventory and warehousing control, computer aided manufacturing, computer aided design.

MAJOR SUBJECT TERMS: Aircraft instrumentation; Fabrication processes; Flight controls; Flight recorders; Machinery; Machining; Mill process; Numerical control; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts numerical control language evaluation.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
White, W. H.	Numerical control	(201) 449-1400

STAFF: Full-time - professional 3, nonprofessional 0, total 3; part-time - professional 3, nonprofessional 0, total 3.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Interlibrary loans; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

ADDRESS: US Department of Labor
Washington, DC
20210

TELEPHONE: (202) 961-3914

DIRECTOR: Sharkey, S. M.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Labor

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To assure so far as possible every working man and woman in the nation safe and healthful working conditions; and to promulgate, modify, and invoke safety and health standards.

SUBJECT SCOPE: Construction, materials, occupational safety and health, machinery, agriculture, electricity and electrical systems, equipment, fire protection systems, maritime dock safety, hazards, medicine, sanitation, and textiles.

MAJOR SUBJECT TERMS: Airport emergency facilities/equipment; Detection and warning systems; Egress; Fire accident training; Fire fighting clothing; Fire fighting equipment; Impact; Physiological stress; Psychological stress; Restraint systems; Safety analysis; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts job safety and health research.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Sharkey, S. M.	Industrial safety and health	(202) 961-3914

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community; immediate staff or members; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

OFFICE OF STANDARD REFERENCE DATA (NSRDS)

ADDRESS: National Bureau of Standards
Washington, DC
20234

DIRECTOR: Lide, D. R.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To promote optimum dissemination and accessibility of scientific information generated within NBS and other agencies of the Federal Government; to promote the development of the National Standard Reference Data System and a system of information analysis centers dealing with the broader aspects of the National Measurement System; and to provide publications of interest to the scientific and technical community.

SUBJECT SCOPE: Physical sciences, nuclear properties, atomic and molecular properties, solid state properties, chemical kinetics, colloid and surface properties, mechanical properties, and thermodynamic and transport properties.

MAJOR SUBJECT TERMS: Chemical characteristics; Chemical hazards; Compressed gases; Contamination; Corrosion characteristics; Cryogenic systems hazards; Cryogenic systems materials selection; Explosives; Fire retardant materials; Flammables; Hazardous materials; Liquefied gases; Materials types; Oxidation; Physical characteristics; Pyrotechnics; Radiation effects; Shock and vibration; Stress; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Lide, D. R.	Physical sciences	

STAFF: Full-time - professional 9, nonprofessional 7, total 16; part-time - professional 2, nonprofessional 0, total 2.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations. Total number of titles: 2,200.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

May 1973

OFFICE OF STANDARD REFERENCE MATERIALS (SRM)

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (202) 921-2318

DIRECTOR: Cali, J. P.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1906

MISSION: To prepare, characterize and sell Standard Reference Manuals; to improve methods of preparation, characterization, and standardization through basic and applied research; to cooperate with Government, the scientific community, and industry in providing leadership in developing standards of the highest quality for measuring and characterizing materials.

SUBJECT SCOPE: Following types of standards: chemical; clinical laboratory; microchemical; biological; ion activity; metallo-organic; radioactivity; environmental research, analysis, and control; physical properties and mechanics; metrology; and engineering.

MAJOR SUBJECT TERMS: Analytical methods; Construction materials; Evaluation; Materials; Materials research; Materials standardization; Standard reference; Standards.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Cali, J. P.	Standard reference	(202) 921-2318

INTERNAL PUBLICATIONS: Book catalogs; abstracts; indexes; technical reports; statistical compilations; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Analytical studies.

OTHER SERVICES: Conferences/symposiums.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

OFFICE OF TELECOMMUNICATIONS (OT)

ADDRESS: US Department of Commerce
Washington, DC
20402

TELEPHONE: (202) 967-5171

DIRECTOR: Richardson, J. M.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To conduct technical research needed in the evaluation and development of telecommunications policy as required by the Executive Office of the President; to assist in the management of Federal use of the radio spectrum; to assist other Federal agencies, states, and communities in the use of telecommunications; to conduct research, engineering, and analysis to meet specific government concerns; to serve as a source of information on the efficient use of telecommunications resources and to stimulate effective development and exchange of this information; and to serve as Federal information center for the emergency telephone number, 911.

SUBJECT SCOPE: Telecommunications systems, including cable television, satellite communication systems; mobile radio services, computer linkage, privately-owned attachments entering the telephone network, and video recorders.

MAJOR SUBJECT TERMS: Aircraft communications; Air navigation aids; Air traffic control; Air traffic control facilities; Electronic countermeasures; Electromagnetic disturbances; Electromagnetic interference; Electromagnetic radiation; Radar detection; Radar navigation; Radiation detection; Radiation monitoring; Radiation physiological effects; Radiation protection; Radio communication systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Richardson, J. M.	Physical sciences; Communications	(202) 967-5171

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; periodicals/journals; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Analytical studies.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973

PENNSYLVANIA TRANSPORTATION AND TRAFFIC SAFETY CENTER (PTTSC)

ADDRESS: Automotive Safety Research Division
 Research Building B
 University Park, PA
 16802

TELEPHONE: (814)865-1891

DIRECTOR: Larson, T. D.

PARENT-SPONSOR-HOST AFFILIATION: Pennsylvania State University

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To establish educational and research programs to improve mobility in our society, to promote educational opportunities for those engaged in transportation and traffic safety, and to gather, organize, and disseminate knowledge to those working in transportation and traffic safety fields.

SUBJECT SCOPE: Road user research, automotive safety, and transportation systems.

MAJOR SUBJECT TERMS: Accident analysis; Accident/incident investigation; Highway safety; Human factors; Human factors analysis; Human factors design; Personal protective equipment; Personnel certification; Personnel selection; Personnel training; Psychological stress; Psychology; Restraint systems; Safety analysis; Safety engineering; Systems safety; Toxicology; Transportation; Transportation engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Advances, through basic and applied research, understanding of the various elements that influence the overall transportation networks.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Larson, T. D.	Safety analysis	(814)865-1891
Meyer, W. E.	Mechanics of structural failure; man-machine hazards	(814)865-1891
Olsen, R. A.	Safety analysis	(814)865-1891

STAFF: Full-time - professional -, nonprofessional -, total 107; part time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; statistical compilations; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; statistical compilations

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified materials).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

PHOTONUCLEAR DATA CENTER

ADDRESS: National Bureau of Standards
Center for Radiation Research
Washington, DC
20234

TELEPHONE: (301) 921-2625

DIRECTOR: Fuller, E. G.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To systematically collect, abstract, index, and evaluate experimental data on the interaction of electromagnetic radiation with nuclei; to maintain a digitized data library and serve as a central information center for the field of photonuclear reaction.

SUBJECT SCOPE: Interactions of electromagnetic radiation with nuclei, including cross section data for inelastic electron scattering, photon scattering, particle capture, and photonuclear reactions.

MAJOR SUBJECT TERMS: Atomic physics; Dangerous industrial radiation; Electromagnetic phenomena; Electromagnetic radiation; Ionizing radiation; Nuclear physics; Transport properties.

RESEARCH AND DEVELOPMENT ACTIVITIES: Evaluates experimental data.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Fuller, E. G.	Electromagnetic radiation	(301) 921-2625
Gerstenberg, H.	Electromagnetic radiation	(301) 921-2625

STAFF: Full-time - professional 3, nonprofessional 1, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Indexes; technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints: 2,000; periodicals; reference lists/bibliographies; graphics/tables: 575; statistical compilations. Range of years of total: 1955 to present.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
INDEX	Annotated Reaction Data	1955 - present	4,200
Digitized Data	Photonuclear Cross Sections	1955 - present	575

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

PITTSBURGH MINING AND SAFETY RESEARCH CENTER (PMSRC)

ADDRESS: Bureau of Mines
4800 Forbes Avenue
Pittsburgh, PA
15213

TELEPHONE: (412) 892-2400

DIRECTOR: Van Dolah, R. W.

PARENT-SPONSOR-HOST AFFILIATION: US Department of the Interior (Bureau of Mines)

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To maintain research and technological work of the Bureau of Mines, primarily in the field of explosives, explosions, and flames, and health-related hazards associated with the mine environment.

SUBJECT SCOPE: Explosives, fires and toxic effects, industrial hazards and communications, methane control and ventilation, roof control, materials handling, dust control and life support, safety research model coal mine, theoretical physics, mathematics, thermohydrodynamics, industrial hygiene.

MAJOR SUBJECT TERMS: Accident/incident investigation; Air pollution control; Atmospheric monitoring; Biomedical engineering; Breathing apparatus; Carbon dioxide; Carbon monoxide; Combustible gas detectors; Escape; Explosions; Explosives; Explosives safety; Fire and explosion dynamics; Fire extinguishment; Fire fighting; Life support systems; Mining; Safety laws; Safety regulations; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on mine accidents involving illumination, electricity, noise, haulage; causes, prevention, and effects of gas and dust explosions and fires; control of respirable coal mine dust on life-support systems.

SPECIAL SCOPE FEATURES: Fires; detonation phenomena; gas, coal, and gas/coal (hybrid) explosions; transportation hazards of dangerous materials; mining health and safety.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Van Dolah, R. W.	Fire, explosion, and detonations; Safety codes/standards/specifications	(412) 892-2400
Palowitch, E. R.	Mining	(412) 892-2400 x602
Burgess, D. S.	Fire, explosion, and detonations	(412) 892-2400 x624
Courtney, W. G.	Life support	(412) 892-2400 x364
Zabetakis, M. G.	Cryogenic safety	(412) 892-2400 x606
Goode, C. A.	Mining	(412) 892-2400 x607
Murphy, J. N.	Man-machine hazards	(412) 892-2400 x615

STAFF: Full-time - professional 123, nonprofessional 119, total 242; part-time - professional 15, nonprofessional 5, total 20.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes: 10; reports and reprints: 15,000; periodicals: 70; reference lists/bibliographies: 10. Total number of titles: 16,000; range of years of total: 1933 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for non-Government users.

May 1973

POWER INFORMATION CENTER (PIC)

ADDRESS: University City Science Institute
3401 Market Street
Room 2210
Philadelphia, PA
19104

TELEPHONE: (215) 382-8683; (215) 382-8674

DIRECTOR: Peirson, J. J.

PARENT-SPONSOR-HOST AFFILIATION: Interagency Advanced Power Group

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To act as a secretariat to the IAPG, and as a center for the collection and dissemination of information on energy sources and conversion techniques.

SUBJECT SCOPE: Nonpropulsive power; electrochemistry; electromagnetics; electrostatics; magnetohydrodynamics; power conditioning; thermoelectrics; photoelectrics; mechanical conversion techniques; chemical, nuclear, and solar energy sources.

MAJOR SUBJECT TERMS: Auxiliary power systems; Chemical characteristics; Electrical/electronics engineering; Electricity; Energy conversion; Life support systems; Nuclear energy; Nuclear reactor applications; Power sources; Propellants and fuels; Thermal energy.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Peirson, J. J.	Electrical/ electronics engineering	(215) 382-8683

INTERNAL PUBLICATIONS: Indexes; technical reports; conference papers.

HOLDINGS: Abstracts/indexes; reports and reprints.

REFERENCE AND QUERY SERVICES: State-of-the-art reviews.

OTHER SERVICES: Conferences/symposiums.

USER RESTRICTIONS: Registration with DDC

May 1973

PROJECT SETE
(Secretariat for Electronic Test Equipment)

ADDRESS: Research Division - Building No. 3
233 Fordham Landing Road
Bronx, NY
10468

TELEPHONE: (212) 584-0700

DIRECTOR: Goodman, D. M.

PARENT-SPONSOR-HOST AFFILIATION: New York University (School of Engineering and Science)

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To serve as a national center for the accumulation, coordination, analysis, and exchange of scientific, technical, and management information in the specialized field of electronic test, checkout, and support equipment.

SUBJECT SCOPE: General-purpose electronic test equipment; built-in test and monitoring equipment; on-line automatic test equipment; off-line (shop) automatic test equipment; calibration devices and techniques; missile, aircraft, and electronic systems checkout; simulators and trainers; and new measurement techniques.

MAJOR SUBJECT TERMS: Built-in test equipment; Electromagnetic interference; Electromagnetic radiation; Flight controls; Instruments; Lasers; Launch base operations; Microwave theory; Nondestructive testing; Quality control; Radiation; Reliability; Servicing; Test equipment; Test facilities; Test operations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Publishes reports on electronic test, maintenance, and management, based on literature research and discussions with personnel of research and development facilities operated by NASA, FAA, and commercial contractors.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Goodman, D. M.	Electrical/electronics engineering	(212) 584-0700

STAFF: Full-time - professional 3, nonprofessional 9, total 12; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Conference papers.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; courses/workshops.

USER RESTRICTIONS: Federal security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

RADIATION CHEMISTRY DATA CENTER (RCDC)

ADDRESS: Radiation Laboratory
University of Notre Dame
Notre Dame, IN
46556

TELEPHONE: (219)283-6528

DIRECTOR: Ross, A. B.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)
and the US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To collect all available information on radiation chemistry, and to provide a means of making selected and evaluated data available to scientists throughout the world.

SUBJECT SCOPE: Radiation chemistry.

MAJOR SUBJECT TERMS: Electromagnetic disturbances; Electromagnetic radiation; Fission product release; Galactic radiation; Ionizing radiation; Radiation belts; Radiation detection; Radiation physiological effects; Radiation protection; Radioisotopes applications; Solar radiation.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Ross, A. B.	Radiation chemistry	(219) 283-6528

STAFF: Full-time - professional 3, nonprofessional 3, total 6; part-time - professional 3, nonprofessional 1, total 4.

INTERNAL PUBLICATIONS: Indexes; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books: 100; abstracts/indexes: 13,000; reports and reprints: 17,000; periodicals: 12.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

RADIATION SHIELDING INFORMATION CENTER (RSIC)

ADDRESS: Oak Ridge National Laboratory
PO Box X
Oak Ridge, TN
37830

TELEPHONE: (615) 483-8611 x3-6944; FTS (615) 483-6944

DIRECTOR: Maskewitz, B. F.

PARENT-SPONSOR-HOST AFFILIATION: US Atomic Energy Commission and Union Carbide Corp.
(Nuclear Division)

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To serve the international shielding community by engaging in research and development for the design of shields that provide protection from biological and physical damage due to penetrating ionizing radiation.

SUBJECT SCOPE: Shielding of radiation from nuclear reactors, nuclear weapons, radioisotopes, accelerators, and radiation in space.

MAJOR SUBJECT TERMS: Cosmic radiation; Cosmic rays; Electromagnetic radiation; Ionizing radiation; Nuclear power plant safety design; Nuclear radiation; Personal protection equipment; Radiation; Radiation belts; Radiation detection; Radiation effects; Radiation resistance; Radiation shielding; Radiation tolerance levels; Solar radiation.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Maskewitz, B. F.	Computer sciences; Nuclear physics	(615) 483-8611 x3-6944
Roussin, R. W.	Nuclear engineering	(615) 483-8611 x3-6944
Trubey, D. K.	Radiation shielding	(615) 483-8611
Zobel, W.	Nuclear physics	(615) 483-8611

STAFF: Full-time - professional 3, nonprofessional 8, total 11; part-time - professional 4, nonprofessional 2, total 6.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations. Total number of titles: 4,000.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
SARIS	RSIC storage and retrieval system	1964 - present	4,000
RECON	NASA		
CRBE	RSIC data bank	1972 - present	2,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government contractors.

USER RESTRICTIONS: None (unclassified material); Federal or defense industrial security clearance (in some cases); registration with DDC (in some cases).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

RADIO TECHNICAL COMMISSION FOR AERONAUTICS (RTCA)

ADDRESS: Suite 655
1717 H Street, NW
Washington, DC
20006

TELEPHONE: (202) 296-0484

DIRECTOR: Potter, R. E.

YEAR INFORMATION SOURCE BEGAN: 1935

MISSION: To advance aeronautics by providing open forums, project studies, and guidance to industry and government, and by operating as a source of information on common problems and requirements, developments, and potential applications within the state of the art.

SUBJECT SCOPE: Aviation electronics and telecommunications, including operational characteristics, state-of-the-art developments and applications, test procedures, aeronautical frequency spectrum utilization, air traffic control, navigation, airports, and airspace use efficiency.

MAJOR SUBJECT TERMS: Air navigation aids; Air traffic control facilities; Air traffic control operations; Aircraft communications; Communications; Communications systems; Emergency equipment; Flight recorders; Navigation equipment; Navigation systems; Radar navigation; Radio communication systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Potter, R. E.	Radio communication systems	(202) 296-0484

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

RARE-EARTH INFORMATION CENTER (RIC)

ADDRESS: Institute for Atomic Research
Iowa State University
Ames, IA
50010

TELEPHONE: (515) 294-2272

DIRECTOR: Gschneidner, K. A.

PARENT-SPONSOR-HOST AFFILIATION: Iowa State University (Institute for Atomic Research)

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To serve the scientific community by collecting, storing, evaluating, and disseminating rare-earth information from various sources.

SUBJECT SCOPE: Metallurgy; solid state physics; analytical, inorganic, and physical chemistry; ceramics technology; geochemistry; toxicity of rare-earth elements and compounds.

MAJOR SUBJECT TERMS: Analytical chemistry; Ceramics; Ferrous metals; Geochemistry; Inorganic chemistry; Physical properties; Metallurgy; Mining; Rare-earth information; Solid state physics; Toxic substances.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Gschneidner, K. A.	Metallurgy	(515) 294-2272

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

REDSTONE SCIENTIFIC INFORMATION CENTER (RSIC)

ADDRESS: US Army Missile Research, Development, and Engineering Laboratory
Redstone Arsenal, AL
35809

TELEPHONE: (205) 876-4643

DIRECTOR: Kobler, J. S.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1949

MISSION: To furnish scientific and technical information support to the Marshall Space Flight Center, the US Army Missile Command, and other local DoD agencies and their local contractors.

SUBJECT SCOPE: Scientific and technical information in virtually all subject areas.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Receives technical reports from research and development sources (Government and contractors).

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Kobler, J. S.	Technical information	(205) 876-4643

STAFF: Full-time - professional 27, nonprofessional 11, total 38; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; reference lists/bibliographies.

HOLDINGS: Books: 170,000; abstracts/indexes; reports and reprints: 1,200,000; periodicals: 3,000; reference lists/bibliographies; statistical compilations; films and slides.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
THDB	Terminal Homing Data Bank		
IRandD	Independent Research and Development		
NASA STAR	Scientific and Technical Reports		
NASA CSTAR	Classified Scientific and Technical Reports		
DDC TAB	Technical Abstracts Bulletin		
AEC NSA	Atomic Energy Commission Nuclear Science Abstracts		
AIAA IAA	International Aerospace Abstracts		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

May 1973

REGIONAL INFORMATION AND COMMUNICATION EXCHANGE (RICE)

ADDRESS: Fondren Library
Rice University
Houston, TX
77001

TELEPHONE: (713) 528-4141 x317, x298

DIRECTOR: Paddock, R.

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To transfer technical information to a user quickly and accurately; to assist in the economic growth of the region as a byproduct of technology transfer; to serve the information needs of business, industry, and education.

SUBJECT SCOPE: Sciences and engineering.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Applied research; Basic materials; Basic research; Bibliographies; Biomedical engineering; Chemical engineering; Civil engineering; Electrical/electronics engineering; Hydraulic engineering; Material processes engineering; Mechanical engineering; Systems engineering; Transportation engineering.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Paddock, R.	Technical information	(713) 528-4141

INTERNAL PUBLICATIONS: Newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books: 650,000; abstracts/indexes; reports and reprints: 10,000; periodicals; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; referrals; bibliographic abstracts; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

RELIABILITY ANALYSIS CENTER (RAC)

ADDRESS: Rome Air Development Center (RBRAC)
Griffiss Air Force Base
New York, NY
13441

TELEPHONE: (315) 330-3472

DIRECTOR: Lauffenburger, H. A.

PARENT-SPONSOR-HOST AFFILIATION: IIT Research Institute and US Department of Defense

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To disseminate reliability and experience information on microcircuit devices to manufacturers and users of microcircuit components and products; to upgrade electronic systems through better understanding of the nature of microcircuit failures leading to improved designs and applications; and to reduce costs by eliminating redundant testing and data collection activities.

SUBJECT SCOPE: Failure rates and environmental test data, malfunction history, and failure mode and mechanism information; consultation services, including reliability prediction and assessment, analyses of candidate device technologies and failure mode and effect, device selection, design of screen and burn-in provisions, reliability tradeoff studies in microcircuit technology, including semiconductor integrated circuits, thick and thin film circuits, and large scale arrays.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Air navigation; Aircraft communications; Aircraft subsystems; Communications; Control systems; Displays; Instruments; Maintainability; Quality control; Reliability; Safety engineering; Space vehicle problems; Tests; Vehicle subsystems; Warning systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Lauffenburger, H. A.	Reliability analysis	(315) 330-3472
Mirth, L. A.	Microcircuits	(315) 330-4151
Fuqua, N. B.	Electronic networks/circuits	(315) 330-4151

STAFF: Full-time - professional 10, nonprofessional 4, total 14; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; statistical compilations; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

RESEARCH MATERIALS INFORMATION CENTER (RMIC)

ADDRESS: Oak Ridge National Laboratory
PO Box X
Oak Ridge, TN
37830

TELEPHONE: (615) 483-8611 x1287; FTS (615) 483-1287

DIRECTOR: Connolly, T. F.

PARENT-SPONSOR-HOST AFFILIATION: US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To provide information to the scientific community on the availability, preparation, and properties of high-purity inorganic research materials.

SUBJECT SCOPE: Materials science, with emphasis on high-purity inorganic research materials such as metals, alloys, semiconductors, refractory or insulating compounds, laser and maser and other optical materials, and magnetic materials.

MAJOR SUBJECT TERMS: Crystal structures; Fuels; Hydraulic fluids; Lubricants; Materials research; Propellants; Radioisotopes applications; Structural materials limitations.

SPECIAL SCOPE FEATURES: Emphasis is on solid-state research specimens. Engineering or safety not covered.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Connolly, T. F.	Materials	(615) 483-8611

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; statistical compilations; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations. Total number of titles; 80,000; range of years total: 1963 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; bibliographic abstracts.

USER QUALIFICATIONS: General technology community.

May 1973

ROCKWELL TECHNICAL INFORMATION PROCESSING SYSTEM (TIPS)

ADDRESS: Rockwell International Corporation, Electronics Group
D/503/C34
Anaheim, CA
92803

TELEPHONE: (714)632-1391

DIRECTOR: Dorsey, W. S.

PARENT-SPONSOR-HOST AFFILIATION: Rockwell International Corporation

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To provide information visibility and retrieval among the several participating and geographically dispersed Rockwell International divisions; to provide computer-prepared catalogs and indexes; to provide computerized SDI and retrospective searches; to provide microfiche service.

SUBJECT SCOPE: Aerospace technology, physical sciences, military sciences, aeronautics, electronics and microelectronics science and technology, computer science and technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Economics; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Dorsey, W. S.	Technical information	(714) 632-1391
Panek, R. L.	Lexicography	(714) 632-8538
Sindel, J. K.	Lexicography	(714) 632-1391

STAFF: Full-time - professional 3, nonprofessional 6, total 9; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Accession of new acquisition lists; reproduction/publication services.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

SAFETY OF EXPLOSIVE ORDNANCE DATABANK (SAFEORD)

ADDRESS: US Naval Weapons Laboratory
Code EST-FH
Dahlgren, VA
22448

TELEPHONE: (703) 663-7201

DIRECTOR: Hanzel, P. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To provide rapid automatic retrieval of safety information on naval weapons systems in the Fleet and under development, to participate in accident trend analysis, and to assist in current efforts to quantify safety through a safety index for weapons systems.

SUBJECT SCOPE: Weapons systems safety requirements, test results and recommendations, safety certifications, simulation studies, ergonomics and health physics, explosives and propellant materials safety test data.

MAJOR SUBJECT TERMS: Accident/incident reporting; Ballistic missiles; Explosions; Explosive devices; Explosive devices tests; Explosive materials; Explosive materials tests; Explosives; Explosives disposal; Explosives safety; Explosives technology; Initiator materials; Initiators safety; Initiators technology; Munitions; Propellants; Propellants and fuels; Pyrotechnic materials; Pyrotechnic safety; Pyrotechnic technology.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs design, development, safety test, and evaluation of explosive weapon systems for the Navy.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Hanzel, P. J.	Explosives	(703) 663-7201
Fitzpatrick, J. G.	Explosives	(703) 663-8171

STAFF: Full-time - professional 0, nonprofessional 2, total 2; part-time - professional 1, nonprofessional 2, total 3.

INTERNAL PUBLICATIONS: Indexes; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Reports and reprints; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

Name or <u>ACRONYM</u>	Description of Contents	Range of Years	No. of <u>Records</u>
SAFEORD	Navy Explosive Ordnance Safety Data	1969-1972	
SAFEORD	Navy Explosive Ordnance Items	1969-1972	1120

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

SAR-ASSIST, INC.

ADDRESS: One Island Lane
Greenwich, CT
06830

TELEPHONE: (203)869-1322

DIRECTOR: Heath, G. W.

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To act as a consultant on search, rescue, survival, and safety in aeronautics and astronautics, including space rescue.

SUBJECT SCOPE: Space rescue and recovery; search, rescue, survival and safety in aeronautics and astronautics.

MAJOR SUBJECT TERMS: Abort procedures; Air rescue/recovery operations; Crews; Decompression; Emergency descent; Emergency planning; Emergency procedures; Escape; Impact; Life support; Meteorological considerations; Personal protective equipment; Physiological effects; Physiological stress; Psychological stress; Recovery; Rescue; Search and rescue; Search and rescue operations; Survival.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Heath, G. W.	Search and rescue	(203) 869-1322

INTERNAL PUBLICATIONS: Indexes; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; graphics/tables.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Conferences/symposiums.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

SCIENCE INFORMATION SERVICES (SIS)

ADDRESS: The Franklin Institute
20th and Benjamin Franklin Parkway
Philadelphia, PA
19103

TELEPHONE: (215) 448-1218; TWX (710) 670-1889

DIRECTOR: Peters, A.

PARENT-SPONSOR-HOST AFFILIATION: The Franklin Institute Research Laboratories

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To gather, analyze, and process information according to the requirements, specifications, and criteria of the user.

SUBJECT SCOPE: Environmental pollution; air, solid waste management, water, noise and vibration, pesticides, Caribbean-region marine science and biology, membrane technology; biomedicine: alcoholism, psychopharmacology, carcinogenesis, drug abuse, food additives; occupational health; materials technology: plastics, powder metallurgy, urethane, ion exchange, ozone, and welding and brazing.

MAJOR SUBJECT TERMS: Air pollution control; Environmental sciences; Mechanical engineering; Organic chemistry; Physical sciences; Plastics; Polymers; Powder metallurgy; Water pollution; Water resources.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research in the basic and applied sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Peters, A.	Technical information	(215) 448-1218

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: Reproduction/publications services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Ad hoc permission.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

SHOCK AND VIBRATION INFORMATION CENTER (SVIC)

ADDRESS: Naval Research Laboratory
Code 8404
Washington, DC
20375

TELEPHONE: (202)767-2220

DIRECTOR: Belsheim, R. O. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To collect, evaluate, and file information on current and past studies of mechanical shock and vibration technology; to disseminate such information to the user; to encourage the solution of shock and vibration problems.

SUBJECT SCOPE: Shock and vibration information, instrumentation and measurement techniques; test techniques, prediction of dynamic environments, dynamics of materials, isolation and damping dynamic analysis, structural analysis, reliability, mechanical impedance; and effects of acoustic, thermal, and radiation phenomena on structures and equipment.

MAJOR SUBJECT TERMS: Acoustic loading; Acoustic radiation; Acoustics; Fatigue (materials); Reliability; Reliability analysis; Shock; Shock and vibration; Structural mechanics.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Belsheim, R. O.	Shock and vibration	(202) 767-2220

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; periodicals/journals; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; referrals.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

May 1973

SHOCK WAVE DATA CENTER

ADDRESS: Lawrence Radiation Laboratory, S Division
PO Box 808
Livermore, CA
94550

TELEPHONE: (415)447-1100 x7791

DIRECTOR: Van Thiel, M.

PARENT-SPONSOR-HOST AFFILIATION: US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To collect shock wave information on solids and liquids, to check the internal consistency of the data, to complete the required tabular presentation, and to critically evaluate the compiled results.

SUBJECT SCOPE: Shock wave information on chemically classifiable materials, including shock and particle velocity, pressure, compression, and density for all Hugoniot curves.

MAJOR SUBJECT TERMS: Environmental effects; Explosives; Materials; Noise; Nuclear blast; Physics; Shock and vibration.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Van Thiel, M.	Physics	(415) 447-1100 x7791

INTERNAL PUBLICATIONS: Graphics/tabular materials.

HOLDINGS: Reports and reprints; graphics/tables.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
COMPENDIUM	Data Tables and description	1956-66	390

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; referrals; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

SMITHSONIAN SCIENCE INFORMATION EXCHANGE (SSIE)

ADDRESS: 300 Madison National Bank Building
1730 M Street, NW
Washington, DC
20036

TELEPHONE: (202) 381-5511

DIRECTOR: Hersey, D. F.

PARENT-SPONSOR-HOST AFFILIATION: Smithsonian Institution

YEAR INFORMATION SOURCE BEGAN: 1949

MISSION: To promote the timely exchange of information on current research activities of government and nongovernment agencies and institutions.

SUBJECT SCOPE: Physical sciences, including engineering, chemistry and chemical engineering, earth and space sciences, electronics and electrical engineering, materials, mathematical sciences, and physics; life sciences, including medicine, biology, and agricultural sciences; social sciences; and behavioral sciences.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on selected problems in information analysis and retrieval, focusing at present on machine-aided indexing and on-line retrieval.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hersey, D. F.	Technical information	(202) 381-5511

INTERNAL PUBLICATIONS: Book catalogs; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints: 200,000; reference lists/bibliographies; statistical compilations. Range of years of total: 1948 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973

SOCIETY FOR COMPUTER SIMULATION (Sci)

ADDRESS: PO Box 2228
1010 Pearl Street
La Jolla, CA
92037

TELEPHONE: (714)459-3888

DIRECTOR: Rogers, S.

YEAR INFORMATION SOURCE BEGAN: 1952

MISSION: To advance computer simulation and allied technology.

SUBJECT SCOPE: Computer modeling and simulation in the physical, social, and life sciences, mathematics, engineering, medicine, management, government, and problems of society and the environment.

MAJOR SUBJECT TERMS: Fire modeling; Fire models; Fire simulation; Flight simulation; Flight simulation facilities; Flight simulation operations; Human factors; Human functions; Space simulation facilities; Space simulation operations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Rogers, S.	Computer sciences	(714) 459-3888

INTERNAL PUBLICATIONS: Books; periodicals/journals; newsletters/trade literature; conference papers.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

SOCIETY OF AUTOMOTIVE ENGINEERS, INC. (SAE)

ADDRESS: Two Pennsylvania Plaza
New York, NY
10001

TELEPHONE: (212) 594-5700

DIRECTOR: Gilbert, J.

YEAR INFORMATION SOURCE BEGAN: 1905

MISSION: To promote the arts, sciences, standards, and engineering practices connected with the design, construction, and utilization of self-propelled mechanisms, prime movers, and components thereof, and related equipment.

SUBJECT SCOPE: Aircraft, aerospace systems, space technology; passenger cars, trucks, and buses; farm machinery, off-highway vehicles, and construction equipment; engineering materials; fuels and lubricants; vehicle maintenance and operation; transportation safety, vehicle emissions; and engineering education.

MAJOR SUBJECT TERMS: Air pollutants; Anthropometry; Biomechanics; Environmental degradation; Fuels; Hand tools; Health hazards; Hydraulic fluids; Industrial safety; Jet propulsion fuels; Lubricants; Machinery safety; Maintainability; Reciprocating engines; Restraints; Structural failure; Structural materials limitations; Survival; Turbine engines.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research in pilot visibility, accident effects on drivers and passengers, and optimum location of controls.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Gilbert, J.	Mechanical engineering	(212) 594-5700

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

SOCIETY OF THE PLASTICS INDUSTRY, INC. (SPI)

ADDRESS: 250 Park Avenue
New York, NY
10017

TELEPHONE: (212) 687-2675

DIRECTOR: Bonhaus, D.

YEAR INFORMATION SOURCE BEGAN: 1937

MISSION: To promote the application and use of plastics; to advance plastics markets, develop and report technology and solve problems in the best interests of the industry and the public.

SUBJECT SCOPE: Resins; industrial hygiene; materials; fire protection; safety standards; plastics; molders, extruders, fabricators, laminators, and sheet formers; cellular foam, urethane foam applicators and fluorocarbons; machinery.

MAJOR SUBJECT TERMS: Elastomers; Fabrication; Fire protection; Foams; Industrial hygiene; Laminates; Materials; Plastics; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research within the industry and with other industries and organizations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (X)</u>
Bonhaus, D.	Plastics	(212) 687-2675
Condit, C. L.	Reinforced plastics	(212) 687-2675
Montell, E. S.	Machinery; Standards	(212) 687-2675
Carroll, J. P.	Safety	(212) 687-2675

STAFF: Full-time - professional -, nonprofessional -, total 50; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: On-site use of collection; reproduction/publication services; courses/workshops; conferences/symposiums.

May 1973

SOUTHWEST RESEARCH INSTITUTE

ADDRESS: 8500 Culebra Road
PO Drawer 28510
San Antonio, TX
78284

TELEPHONE: (512)684-5111 x2122

DIRECTOR: Hoffman, H. I.

YEAR INFORMATION SOURCE BEGAN: 1947

MISSION: To conduct industrial research; to work in the public interest in cooperation with industry, government, and individuals to produce a better life through science and technology.

SUBJECT SCOPE: Chemistry and chemical engineering; biosciences and bioengineering; basic and applied physics; electrical and electronic engineering; applied electromagnetics; structural research; materials; applied mechanics; aerospace lubrication; friction, wear, and bearings; fuels and lubricants; naval science and oceanography; automotive research and vehicles; and social and management sciences.

MAJOR SUBJECT TERMS: Aircraft problems; Cryogenic safety; Dangerous industrial radiation; Dangerous materials; Fire, explosion, and detonations; Hydraulic fluids; Industrial safety and health; Launch base operations; Lubricants; Man-machine hazards; Nuclear safety; Propellants and fuels; Quality control; Reliability; Space vehicle problems; Structural failure; Tests.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hoffman, H. I.	Chemical engineering	(512) 684-5111 x2122

STAFF: Full-time - professional 360, nonprofessional 820, total 1180; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: State-of-the-art reviews; analytical studies; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: Immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

SPACE AND MISSILE TEST CENTER

ADDRESS: US Air Force Systems Command
Vandenberg AFB, CA
93437

DIRECTOR: Lowe, J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Air Force)

MISSION: To provide range facilities, related services, and associated manpower in support of missile operations; to ensure that all necessary safety precautions are implemented and requirements met for all vehicles launched from the missile sites.

SUBJECT SCOPE: Limitations of safety responsibility; range safety data requirements; emergency hold fire; meteorological restrictions; warning signals; surveillance; lead and support ranges; spacecraft launches; approval of safety plans; radionuclide devices; safety operating procedures for guided ballistic missiles, cruise vehicles, and unguided rockets; pre-launch requirements for pads; biological safety; pressurized systems; ordnance; electrical systems; equipment failure for command and control; flight termination; launch area surveillance; communications; and accident analyses.

MAJOR SUBJECT TERMS: Accident procedures; Aerospace ground facilities; Aerospace safety engineering; Air rescue/recovery operations; Air traffic control facilities; Aircraft servicing; Environmental degradation; Fuel farm facilities/operations; Launch complexes; Launch operations; Maintainability; Maintenance facilities; Mission control facilities; Propulsion systems; Protective clothing; Personal protective equipment; Range operations; Reliability; Test facilities.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Lowe, J.	Missiles	

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

STANDARDS INFORMATION SERVICES (SIS)

ADDRESS: National Bureau of Standards
Technology Building, Room B159
Washington, DC
20234

TELEPHONE: (301) 921-2587

DIRECTOR: Slattery, W. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To maintain a reference collection of engineering and related standards issued by US technical societies, professional organizations and trade associations, US Federal Government agencies, and the major foreign, national, and international standardizing bodies; to compile general and special indexes of standards; and to provide information on the sources and availability of standards.

SUBJECT SCOPE: US, foreign, and international engineering and related standards, specifications, test methods, and recommended practices.

MAJOR SUBJECT TERMS: Codes; Flammability testing; Physical properties; Quality control; Regulations; Standards; Statutes; Test facilities; Test operations; Test techniques.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Slattery, W. J.	Standards; Engineering	(301) 921-2587
Chumas, S. J.	Standards	(301) 921-2587

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Indexes.

HOLDINGS: Books: 900; abstracts/indexes: 5; periodicals: 100; standards and specifications: 120,000. Total number of titles: 121,000; range of years of total: 1947 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; referrals.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

STEEL FOUNDERS' SOCIETY OF AMERICA (SPSA)

ADDRESS: Cast Metals Federation Building
20611 Center Ridge Road
Rocky River, OH
44116

TELEPHONE: (216) 333-9600

DIRECTOR: Simonelli, F. J.

YEAR INFORMATION SOURCE BEGAN: 1902

MISSION: To promote the general welfare of all engaged in or affected by the manufacture and sale of steel castings or of alloy castings.

SUBJECT SCOPE: Steel or alloy castings and related processes.

MAJOR SUBJECT TERMS: Casting; Ferrous metals; Industrial processes; Industrial safety; Nickel; Physical metallurgy; Stainless steel; Steel; Steel alloys; Steel construction; Stress/strain analysis; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Sponsors research on casting.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Simonelli, F. J.	Metallurgy	(216) 333-9600

STAFF: Full-time - professional 5, nonprofessional 5, total 10; part-time - professional 0, nonprofessional 3, total 3.

INTERNAL PUBLICATIONS: Books; abstracts; technical reports; periodicals/journals; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually, retrospective searches; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; interlibrary loan; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973

SYSTEM SAFETY OFFICE, ELECTRONIC SYSTEMS DIVISION

ADDRESS: ESD/SE, Stop 27
Hanscom Field
Bedford, MA
01730

TELEPHONE: (617) 861-2934

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Air Force)

MISSION: To assure that safety for both personnel and equipment is considered by the engineer when designing new electronic systems for the Air Force.

SUBJECT SCOPE: Design factors, personnel, avionics, ground equipment and facilities.

MAJOR SUBJECT TERMS: Accident prevention; Aircraft communications; Electrical/electronics engineering; Electronic components; Electronic countermeasures; Electronic devices; Electronic networks/circuits; Electronic properties; Electronics; Ferroelectrics; Radar detection; Radar navigation; Radio communication systems; Safety analysis; Systems safety.

INTERNAL PUBLICATIONS: Handbooks/manuals.

HOLDINGS: Standards and specifications: 20.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: Compliance with AFM 190-4.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

TECHNOLOGY APPLICATION CENTER (TAC)

ADDRESS: University of New Mexico
Albuquerque, NM
87131

TELEPHONE: (505) 277-3622

DIRECTOR: Shinnick, W. A.

PARENT-SPONSOR-HOST AFFILIATION: University of New Mexico and National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To transmit information to the scientific and economic communities through highly developed retrieval techniques, and through storage of information from a great many sources, including NASA.

SUBJECT SCOPE: Environmental pollution, heat pipe technology, engineering, materials, industrial applications, earth sciences, nuclear technology, physics, integrated circuit technology, remote sensing, oceanography, statistics, photography.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on heat pipes, pollution studies, technology assessment, remote sensing, space photography, electric energy conversion, technology transfer.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Shinnick, W. A.	Statistics	(505) 277-4000
Long, W. W.	Engineering	(505) 277-3118
Burch, E.	Information systems	(505) 277-3111

STAFF: Full-time - professional 5, nonprofessional 3, total 8; part-time - professional 6, nonprofessional 8, total 14.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
STAR	Aerospace Related Information	1962 - present	600,000
GRA	Physical sciences, social sciences, economics	1964 - present	125,000
EI	Engineering Index	1968 - present	400,000
CA	Chemistry	1968 - present	150,000
ERIC	Primary and Secondary Education	1968 - present	125,000
BA	Biological Abstracts	1959 - present	1,500,000
MEDLINE	Medical Information	1970 - present	400,000
FS	Food Science Technology	1969 - present	70,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; reproduction/publication services; courses/workshops; conferences/symposiums.

ASRDI No. S730161

TECHNOLOGY APPLICATION CENTER (TAC)

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

THERMODYNAMICS RESEARCH CENTER (TRC)

ADDRESS: Department of Chemistry
Texas A and M University
College Station, TX
77843

TELEPHONE: (713)846-8765

DIRECTOR: Zwolinski, B. J.

PARENT-SPONSOR-HOST AFFILIATION: Texas A and M University

YEAR INFORMATION SOURCE BEGAN: 1942

MISSION: To conduct extensive literature searches, experimental and theoretical research, selection, and correlation of data related to physical thermodynamic and spectral properties of organic compounds.

SUBJECT SCOPE: Organic compounds, particularly hydrocarbons and certain organic oxygen, nitrogen, sulfur, and halogen compounds; pressure-volume-temperature relations of fluids, heats of combustion of polymers and sterically hindered, polyatomic compounds.

MAJOR SUBJECT TERMS: Chemical characteristics; Chemical properties; Compounds; Entropy; Organic chemistry; Physical characteristics; Physical properties; Thermodynamic properties; Thermodynamics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on organic chemicals and their related compounds.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (X)</u>
Zwolinski, B. J.	Thermodynamics	(713)846-8765

STAFF: Full-time - professional 16, nonprofessional 20, total 36; part-time - professional 15, nonprofessional 2, total 17.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

May 1973

THERMOPHYSICAL PROPERTIES INFORMATION ANALYSIS CENTER (TPIAC)

ADDRESS: Purdue Industrial Research Park
2595 Yeager Road
West LaFayette, IN
47906

TELEPHONE: (317) 463-1581

DIRECTOR: Touloukian, Y. S.

PARENT-SPONSOR-HOST AFFILIATION: Purdue University (Thermophysical Properties Research Center), US Dept. of Defense, and US Dept. of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To become a world center for research and the collection, analysis, correlation, and dissemination of thermophysical properties information; and to promote a better understanding of this subject in education, science, and industry.

SUBJECT SCOPE: Transport and thermodynamic properties encountered in heat and mass transfer; calculations for elements and chemical compounds, ferrous and nonferrous alloys, mixtures, composites, polymers, rubbers, refractories, glasses, natural products, minerals, paints, surface finishes, slags, scales, aggregates, ceramics, fuels, lubricants, fibers, fabrics, pharmaceuticals, insulations, building materials, residues.

MAJOR SUBJECT TERMS: Density; Entropy; Specific heat; Thermal conductivity; Thermal properties; Thermodynamic properties; Viscosity.

RESEARCH AND DEVELOPMENT ACTIVITIES: Associated with the Thermophysical Properties Research Center, which performs theoretical and experimental research.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Touloukian, Y. S.	Thermodynamics	(317) 463-1581
Shafer, W. H.	Thermophysical properties	(317) 463-1581

STAFF: Full-time - professional 15, nonprofessional 11, total 26; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes: 70,000; reports and reprints: 65,000. Total number of titles: 135,000; range of years of total: 1900 to present.

DATA BANK RESOURCES:

<u>Name or Acronym</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
	Materials Directory and Synonyms		45,000
	Technical Coding by Properties		300,000
	Bibliographic citations	1900 - 1972	70,000
	Author Index		60,000
EPIC	Electrical and electronic properties of materials		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

TIN RESEARCH INSTITUTE, INC. (TRI)

ADDRESS: 438 West Sixth Street
Columbus, OH
43201

TELEPHONE: (614) 294-3341

DIRECTOR: Hoare, W. E. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: Tin Research Institute, England

YEAR INFORMATION SOURCE BEGAN: 1932

MISSION: To further the development of tin technology, based on scientific and technical studies of the uses of the metal, its alloys, and compounds, and of industrial processes which use tin or may provide future markets.

SUBJECT SCOPE: Metallurgy, chemistry, and organotins, including pesticides, repellants, bactericides, and fungicides for environmental control; solders and soldering; antifouling rubbers, sintered iron, bronze, and gunmetals; and bearing alloys.

MAJOR SUBJECT TERMS: Air pollution control; Bronze; Chemistry; Industrial safety and health; Metallic coatings; Metallurgical processes; Metallurgy; Metal powders; Metals and alloys; Tin.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research to develop uses of tin, its alloys, and compounds.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hoare, W. E.	Metallurgy	(614) 294-3341
Hampshire, W. B.	Metallurgy	(614) 294-3341
Long, J. B.	Metallurgy	(614) 294-3341
Bihl, J. M.	Chemistry	(614) 294-3341

STAFF: Full-time - professional 3, nonprofessional 0, total 3; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; translations.

OTHER SERVICES: Interlibrary loans; courses/workshops; conferences/symposiums.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

TOXICOLOGY INFORMATION PROGRAM (TIP)

ADDRESS: National Library of Medicine
8600 Rockville Pike
Bethesda, MD
20014

TELEPHONE: (301)496-3147; TWX 89-521

DIRECTOR: Kissman, H. M. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Health, Education, and Welfare (National Institutes of Health)

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To create a computer-based toxicology data bank from the scientific literature and from the files of collaborating industrial, academic, and governmental agencies; and to establish toxicology information services for the scientific communities.

SUBJECT SCOPE: Pesticides, drug reactions and poisonings in humans and animals, chemicals, toxicology, environmental pollution, and drug interactions.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution; Physiology; Toxic gas; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Kissman, H. M.	Toxicology	(301)496-3147

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; statistical compilations.

DATA BANK RESOURCES:

<u>Name or ACRONYM</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
TOXLINE	Toxicology Information On-Line		

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

TRANSPORTATION SAFETY INSTITUTE (TSI)

ADDRESS: 6500 South MacArthur Boulevard
Oklahoma City, OK
73125

TELEPHONE: (405) 686-2614

DIRECTOR: Creson, R. F.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To foster transportation safety management and technology by developing and conducting safety training commensurate with DOT objectives and modal requirements, by conducting safety seminars, and by performing special safety studies.

SUBJECT SCOPE: Aircraft, rail, and motor carrier accident prevention and investigation; air, rail, and motor carrier transportation of hazardous materials; track and railroad equipment standards and inspection; aviation security; gas pipeline systems safety; marine casualty investigation; occupational health and safety standards applications to railroad safety; materials/equipment failure analysis, design evaluation and system safety of all modal/intermodal transportation systems.

MAJOR SUBJECT TERMS: Accident analysis; Accident prevention; Accident/incident investigation; Accidents; Aerospace safety engineering; Air transportation; Commercial aviation; Education and training; Fire extinguishment; Fire safety; Personnel training; Safety analysis.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (X)</u>
Creson, R. F.	Safety	(405) 686-2614
Allen, W. H.	Aviation safety	(405) 686-2614
Largess, D. L.	Safety	(405) 686-2614
Fitzpatrick, J. F.	Safety	(405) 686-2615
Thomas, J. C.	Safety	(405) 686-2615
Bensmiller, A. C.	Safety	(405) 686-2615

STAFF: Full-time - professional 12, nonprofessional 3, total 15; part-time - professional 46, nonprofessional 0, total 46.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

UNDERWRITERS' LABORATORIES, INC. (UL)

ADDRESS: 207 East Ohio Street
Chicago, IL
60611

TELEPHONE: (312) 642-6969

DIRECTOR: Whitaker, H. B.

YEAR INFORMATION SOURCE BEGAN: 1894

MISSION: To establish, maintain, and operate laboratories for the investigation of materials, devices, products, equipment, constructions, methods, and systems with respect to hazards affecting life and property.

SUBJECT SCOPE: Burglary protection and signaling; casualty and chemical hazards; electricity; fire protection; heating, air conditioning, and refrigeration; marine equipment; safety standards; medical and dental products; and industrial trucks (internal combustion engines).

MAJOR SUBJECT TERMS: Dangerous materials; Detection and warning systems; Equipment; Fire and explosion chemistry; Fire and explosion dynamics; Fire extinguishment testing; Fire fighting clothing; Fire fighting equipment; Fire modeling; Fire models; Fire retardant materials; Fire simulation; Flammability testing; Machinery safety; Radiation detection; Radiation protection; Safety analysis of equipment; Safety engineering; Test facilities; Test operations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on fire hazards and fire resistance.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Whitaker, H. B.	Chemical engineering	(312) 642-6969
Davis, E. N.	Engineering	(312) 272-8800
Bono, J. A.	Fire protection	(312) 272-8800
Mazzoni, S.	Heating; Air conditioning	(312) 272-8800
Saunders, G. W.	Security	(312) 272-8800
Pope, G. H.	Chemical hazards	(312) 272-8800

STAFF: Full-time - professional 450, nonprofessional 1650, total 2100; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; periodicals/journals; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973

US ARMY ENVIRONMENTAL HYGIENE AGENCY (USAEHA)

ADDRESS: Edgewood Arsenal, MD
21010

TELEPHONE: (301) 671-3353

DIRECTOR: Anderson, J. E. (Col)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1942

MISSION: To provide environmental hygiene services and information to Army commands, installations, and activities worldwide.

SUBJECT SCOPE: Occupational and environmental health, preventive medicine, occupational nursing, industrial hygiene, radiation protection, environmental engineering, radiation hygiene, chemistry, medical entomology, toxicology, occupational vision.

MAJOR SUBJECT TERMS: Acoustics; Air pollutants; Air pollution; Biomechanics; Biotechnology; Dangerous industrial radiation; Dangerous materials; Hygiene; Ionizing radiation; Noise; Nuclear fuels; Nuclear power plant operation; Nuclear radiation; Personal protective equipment; Physiology; Radiation detection; Radioactive spills; Sanitation.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Leroy, G. Jr	Environmental sciences	(301) 671-3353

STAFF: Full-time - professional 250, nonprofessional 50, total 300; part-time - professional 0, nonprofessional 12, total 12.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
TEIRS	The Environmental Information Retrieval System	1944 - present	

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; analytical studies; referrals; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: Interlibrary loans; courses/workshops.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

US ARMY RESEARCH OFFICE (ARO)

ADDRESS: Information Processing Office
 Box CM, Duke Station
 Durham, NC
 27706

TELEPHONE: (919) 286-2285

DIRECTOR: Ulsh, R. O.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

MISSION: To coordinate and support basic research in mathematics and the physical, engineering, life, and environmental sciences.

SUBJECT SCOPE: Chemistry, engineering, environmental sciences, mathematics, metallurgy and ceramics, and physics.

MAJOR SUBJECT TERMS: Basic research; Bibliographies; Clearinghouse; Data and information; Evaluation; Information resources; Investigators; Materials research; Operations research; Research; Research and development; Scientific data.

RESEARCH AND DEVELOPMENT ACTIVITIES: Monitors research and development under contracts for certain governmental agencies.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Ulsh, R. O.	Technical information	(919) 286-2285

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973

WESTERN RESEARCH APPLICATION CENTER (WESRAC)

ADDRESS: 809 West 34th Street
Los Angeles, CA
90007

TELEPHONE: (213) 746-6132; TWX (910) 321-2981

DIRECTOR: Oulie, A. K.

PARENT-SPONSOR-HOST AFFILIATION: University of Southern California (Graduate School of Business Administration)

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To disseminate technology from sources around the world to the business and industrial community in the West.

SUBJECT SCOPE: Air and water purification, biosciences and biotechnology, chemistry, communications, computers and techniques, corrosion, electronics, fuel cells and batteries, geophysics, human engineering, hydraulic and pneumatic systems, instrumentation and photography, machine elements and processes, management, materials, mathematics, meteorology, and navigation, physics, propellants and propulsion systems, solid state devices, thermodynamics and combustion structures.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Oulie, A. K.	Technical information	(213) 746-6132
Ashbury, H. O.	Space sciences	(213) 746-6123
Loran, B.	Chemistry	(213) 746-6123
Mixer, R.	Chemistry	(213) 746-6123

STAFF: Full-time - professional 8, nonprofessional 8, total 16; part-time - professional 10, nonprofessional 8, total 18.

INTERNAL PUBLICATIONS: Indexes; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes: 2,000,000; reports and reprints: 250,000; periodicals: 50; reference lists/bibliographies: 6,200; films and slides: 250,000. Total number of titles: 2,506,250; range of years of total: 1879 to present.

DATA BANK RESOURCES:

<u>Name or Acronym</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
ERIC	Education information	1964 - present	
CA	Chemical information	1907 - present	
APA	Air Pollution Abstracts	1970 - present	
NASA	Aerospace technology	1962 - present	
DoD	Defense technology	1964 - present	
GRA	Government research reports	1968 - present	
EI	Engineering technology	1884 - present	
IM	Index Medicus medical sciences	1879 - present	

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

ASRDI No. S730170

WESTERN RESEARCH APPLICATION CENTER (WESRAC)

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973

X-RAY ATTENUATION COEFFICIENT INFORMATION CENTER

ADDRESS: National Bureau of Standards
Center for Radiation Research
Washington, DC
20234

TELEPHONE: (301)921-2685

DIRECTOR: Hubbell, J. H.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1952

MISSION: To provide x-ray attenuation data for: radiation shielding design (reactor, space vehicle, medical); analysis of nuclear physics experiments and of medical x-ray effects; thickness and density gauges; irradiation technology, electron microprobe analysis (metallurgy); and ionosphere prediction (radio propagation).

SUBJECT SCOPE: Attenuation coefficients of high energy photon (x-ray, gamma-ray) interaction with matter, including Compton and Rayleigh scattering, atomic photo-effect, and electron-positron pair production.

MAJOR SUBJECT TERMS: Clothing; Crew considerations; Galactic radiation; Personal protective equipment; Protective clothing; Radiation belts; Radiation detection; Radiation protection; Radioactive decontamination; Reactors; X-ray technology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hubbell, J. H.	X-ray technology	(301) 921-2685

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 4, nonprofessional 0, total 4.

INTERNAL PUBLICATIONS: Abstracts; technical reports; statistical compilations; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; bibliographic abstracts; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

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