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New product development; process engineering; home economics; market research; economic research; quality control. Equipped with microbiological laboratory, information library, computer terminal facilities, pilot plants, prototype evaluations.

130. INTERPRISE CORPORATION 14, 78, 117
P. O. Box 947
Framingham, MA 01701
Lawrence Levy, Pres. (617) 875-4131
International management consulting; product development financing; mergers and acquisitions; license arrangements and joint ventures.
131. INTERTECHNOLOGY/SOLAR CORP. 8, 27, 45, 47, 95, 103
100 Main Street
P. O. Box 340
Warrenton, VA 22186
George C. Szego, Pres. (703) 347-7900
Complete solar heating and cooling capability including design analysis/ optimization trade-off studies; prototype hardware for thermal storage, collectors, controls, etc.; test and evaluation; operation and data collection. Energy, power and environment studies, impact statements and computer simulation models.
132. IONICS, INC. 17, 34, 41, 49
65 Grove Street
Watertown, MA 02172
Wayne A. McRae, VP/Research (617) 926-2500
Electrochemistry, charged (ion-exchange) membranes, water treatment; desalination of water by electrodialysis; real-time monitoring of total oxygen demand, total organic carbon, total carbon and other parameters in process streams; develop membranes for new applications; preparation of instruments for commercial production and commercial manufacture of equipment.
133. ISRAELI INDUSTRY CENTER FOR R & D 12, 47, 70
(IICRD)
33 Ogarit Street
Tel-Baruch, Tel-Aviv, ISRAEL
(03) 47 15 69
Purpose of the IICRD is to advance and promote high technology of the industry in Israel and to encourage industrial R&D. IICRD incorporates most of the R&D and high technology companies in Israel, and has close working connections with scientists dealing with applied research, Universities and the Government of Israel.
134. ITHACO, INC.
735 W. Clinton Street
Ithaca, NY 14850
E. W. Seymour
(No expertise submitted at time of printing)
135. J-TEC ASSOCIATES, INC. 5, 8, 19, 20, 28, 44, 45, 48,
317 - 7th Avenue, S.E. 70, 83, 89, 95, 103, 123
Cedar Rapids, Iowa 52406
Theodore A. Johnson, Pres. (319) 366-7511
Engineering and manufacturing. Research. Flowmeters, spirometer (a small flowmeter for measurement of human lung capacity); anemometer; air speed indicator; water current meter for measurement of fluid flow to depths of 500 feet; flowmeter for measurement of gas and liquid flow rates in pipes; automobile fuel metering systems.

136. JACOBS-WINSTON LABORATORIES, Inc. 9, 27, 40, 55, 65, 84, 99,
25 Mt. Vernon Street 115
Ridgefield Park, NJ 07660
Marvin E. Winston, V.P. (212) 962-6536
Food chemistry, including microbiology and pesticide residue tests using
gas chromatography; specializing in macaroni, noodles, fish, egg, meat
products; also sanitation.
137. JENIKE & JOHANSON, INC. 9, 19, 23, 45, 47, 49, 52,
2 Executive Park Drive 54, 88, 110, 112
N. Billerica, MA 01862
John W. Carson, V.P. (617) 667-5136
Consulting engineers specializing in the storage and controlled flow of bulk
granular solids, with applications in problems involving bin flow, feeders,
plant design, stand pipes, compaction, chute design, moving bed reactors,
and loads on bin walls. Also perform contract research in the above fields
and sell a line of test equipment used to measure solids flow properties.
138. JOHNSON ENGINEERING CO. 15, 24, 27, 30, 45, 56, 77,
17 N. Drexel Avenue 79, 82, 94, 103, 104, 108,
Havertown, PA 19083 114, 116, 119
Herbert G. Johnson (215) 446-4540
Extensive background in solid-phase forming of metals and polymers, valves
and piping components; and in power generation, materials and recycling.
139. THEODORE JONAS/ASSOCIATES LTD. 10, 12, 19, 24, 27, 34, 45,
2009 N. 14th Street—Suite 201 51, 52, 53, 56, 60, 75, 92,
Arlington, VA 22201 95, 103, 107, 109, 119, 123
James T. Ferguson, Associate
(703) 527-8555
Consultants in government-sponsored R&D programs in energy, environ-
ment (air, land and water), analytical instrumentation, land use, chemistry
and chemical engineering.
140. JONES ASSOCIATES 23, 36, 38, 47, 48, 60, 61,
11 West Pennsylvania Avenue 65, 95, 109
Baltimore, MD 21204
Lawrence E. Jones, Pres. (301) 296-7111
Offers innovative professional engineering analysis, planning and design
services to industry and government in ecology, civil engineering, environ-
mental engineering, technology transfer, regulatory analysis, and technology
management. Current assignments for clients in the public and private sec-
tors include comprehensive technical and program analyses of environmental
regulations promulgated pursuant to the Water Pollution Control Act, the Safe
Drinking Water Act, and the Toxic Substances Control Act.
141. KAR LABORATORY 9, 12, 15, 18, 81, 99, 119
1711 Merrill Street
Kalamazoo, MI 49008
John Karnemaat, Director (616) 381-9666
Product Development. Waste Utilization. Environmental Monitoring.
142. ALAN B. KAMMERMAN 93
11623 Kelvin Avenue
Philadelphia, PA 19116
(215) OR 7-3955
R&D in Physics.

143. DR. E. M. KIPP 14, 17, 19, 24, 27, 45, 53,
Suite A, Station Square Two 69, 76, 79, 82, 92, 109,
Paoli, PA 19301 115
(215) 647-4631

R&D Management including intracorporate problems. Science and Technology including energy resources and utilization, new product and process innovations, and Chemical Engineering. Lubrication Engineering Sciences including all aspects such as custom formulations, training programs and consultation.

144. CHARLES KLABOSH CO. 6, 7, 10, 22, 25, 26, 46,
815 S. Main Street 64, 70, 71, 88, 91, 108,
P.O. Box 5690 119
Jacksonville, FL 32207
Charles Klabosh (904) 396-2180

Capabilities in Aerothermodynamics of propulsion flight test engineering and management; Configuration management of large complex system from concept to implementation especially within an existing force structure; Operations management of manned activities within engineering or physically encumbered environments. Design of digital logic controlled manipulator systems; Electric powered surface vehicle design, operations and logistics. High performance combustion system design; engines piston and gas turbine installation design and performance analysis.

145. L'GARDE, INC. 5, 6, 24, 44, 47, 70, 79,
1555 Placentia Avenue 113
Newport Beach, CA 92660
Alan R. Hirasuna, Director/Administration
(714) 645-4880

Specializes in the fields of design, materials, instrumentation and telemetry, heat transfer, and aerodynamics which support three product areas:
(1) Inflatable structures which include applications for flight environments;
(2) Development of elastomers for severe environments including geothermal downhole conditions and x-radiation; and (3) Small, low cost, analog and/or digital, continuous-loop cartridge, environmental magnetic tape recorders.

- STAN
146. LABCONCO CORPORATION 9, 48, 49, 84
8811 Prospect Avenue
Kansas City, MO 64132
John N. McConnell, VP/Marketing & Sales
(816) 363-6330

Laboratory equipment and apparatus.

147. LANCASTER LABORATORIES, INC. 9, 13, 15, 17, 23, 24, 35,
2425 New Holland Pike 54, 55, 66, 84, 91, 95, 99,
Lancaster, PA 17601 106, 110, 119
Dr. Earl H. Hess, Pres. (717) 656-2301

Chemical analysis and microbiological testing and consulting service to agriculture, agribusiness and industry. Quality Control. Air and water pollution monitoring and control. Wastewater treatability. Waste and by-product utilization. Potable and wastewater analysis. Consulting in polymer research, development and analysis. Computer services. Analysis of pharmaceuticals.

148. LIFE SYSTEMS, INC. 17, 21, 28, 40, 41, 44, 45,
24755 Highpoint Road 49, 51, 70, 84, 95, 108
Cleveland, OH 44122
Dr. R. A. Wynveen, Pres. (216) 464-3291

Major technical strengths in the following areas: Air Revitalization Systems including carbon dioxide concentration and reduction, electrochemical oxygen and hydrogen generation (water electrolysis and solid electrolyte
(continued)

electrolysis), removal of oxidizable contaminants, nitrogen generation, humidity control; Water and Waste Treatment Systems including water disinfection and sterilization, ultrafiltration, reverse osmosis, ozonation, ion exchange and hypochlorination; Computer-oriented instrumentation including control, monitor, data acquisition and sensors; Electrochemical applications to processes and sensors (total organic carbon, chemical oxygen demand, biocides, gas contaminants).

149. LINK ENTERPRISES, INC. 4, 20, 38, 39, 50, 72, 85,
P. O. Box 11073 103
Montgomery, AL 36111
Katherine S. Link, President
(205) 288-2906, 288-7002 or 281-7267
Delivery address:
Highway 31 South, Hope Hull, AL

Consultant and Training Services. Specialize in custom design of training materials or programs to fit the special needs of the customer. Programs produced in slide/tape, filmstrip or microfiche format. Design and produce handouts or manuals.

150. LINKABIT CORPORATION 20, 21, 86, 93
10453 Roselle Street
San Diego, CA 92121
Dr. I. M. Jacobs, Pres. (714) 453-7007

Systems studies; software and hardware manufacturing; digital communications with emphasis on satellite communications; error-correcting coders and decoders; modulation-demodulation techniques; television and voice data compression; applications of microprocessors to communication; optical fiber communication.

151. LITRON LABORATORIES, LTD. 9, 12, 13, 17, 21, 32, 35,
1351 Mt. Hope Avenue 45, 72, 81, 84, 110
Rochester, NY 14620
Dr. Andrew M. Tometsko, Pres.
(716) 275-4008

Research and development capabilities in chemical, biological and computer sciences. Biomedical interests involve drug design, structure-function relationships in biological systems and applied enzymology. Evaluations of toxicity, mutagenicity, and carcinogenicity of chemicals are carried out routinely.

152. LITTLETON RESEARCH & ENGINEERING 2, 26, 30, 32, 47, 63, 70,
95 Russell Street 77, 87, 89, 107, 112, 115
P. O. Box 128
Littleton, MA 01460
F. Everett Reed, Pres. (617) 486-3526 or 3039

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153. LOMBARD SYSTEMS, INC. 2, 20, 21, 22, 28, 32, 86,
1196 Andre Avenue 100, 101, 108
Mountain View, CA 94040
R. G. Baron, Pres. (415) 965-3682

Technical disciplines on measurement, communication, processing and control. Principle areas of expertise are in acoustic signal and data processing for undersea and nuclear surveillance, navigation and guidance, geophysical data acquisition and processing, process monitoring and control, and data and information processing systems. Provides turkey systems and technical/management services to government and industry.

154.

C. H. LUHRS & CO.
P. O. Box 1786
S. Hackensack, NJ 07606
C. H. Luhrs (201) 772-0620

42, 49

Microwave devices.

155.

MBAssociates
Bollinger Canyon Road
P.O. Box 196
San Ramon, CA 94583
Robert Mainhardt, Pres. (415) 837-7201

2, 5, 6, 7, 15, 17, 19, 103,
108, 121

Passive Countermeasures Systems, Dispensers, Flare and Chaff, Small Ordnance Items, Pyrotechnics, Electro-Mechanical Systems, R&D.

156.

MERADCOM
(U.S. Army Mobility Equipment
R&D Command)
Small Business and Economic Utilization Advisor
Ft. Belvoir, VA 22060
ATTN: DRDME-ZV
(703) 664-2482

60

157.

McLAUGHLIN RESEARCH CORP.
1110 Spring Street
Silver Spring, MD 20910
Daniel Scherr (301) 585-7100

22, 32, 44, 45, 50, 68, 87,
97, 108

Systems engineering; Energy system analysis; Navy claims prevention and analysis; Management information systems; Configuration management; Integrated logistic support systems; Electronic data processing; Technical publications; Film production-technical, training and publicity. In conjunction with the NavOrd and NavShips, develops the ORDLIS and SECAS systems and the implementation handbooks for those systems.

158.

Mac ARTHUR RESEARCH CO.
RD #2, Box 264
Malvern, PA 19355
Arthur MacArthur

(No expertise submitted at time of printing)

159.

A. Mac DONALD ENGINEERING
1235 Ashland Avenue
Wilmette, IL 60091
A. MacDonald (312) 256-4688

40, 45, 82

Energy conservation; Metal processing; Industrial foundries die casting. Utilization of electric energy from sources that are not constant. Supply varies.

160.

MAN FACTORS, INC.
4433 Convoy Street
San Diego, CA 92111
Peter H. Selby, Exec. VP (714) 277-2611

1, 25, 26, 28, 38, 39, 47,
64, 66, 70, 72, 91, 96,
102, 108

Primarily a human factors consulting, R&D firm. Specializing in human factors engineering, life support, personnel and training requirements. Provides such services as: Human engineering of commercial products for safety and user effectiveness; analysis of user (human) requirements in building design, office and plant layout, employee effectiveness and safety; design of operator/maintainer work stations for maximum cost-effectiveness; analysis of training requirements and design of training programs,

(continued)

including development of performance-oriented training objectives and course curricula, training aids, content and design of presentation methodology; investigations of work capabilities of divers at various depths, performing various tasks; requirements and layout analysis of displays and controls of man-operated systems; analysis of environmental hazards and their effects.

57161.

MAN-SYSTEMS, INC. 12, 23, 61, 64, 91, 102
 3107 McDow Avenue
 Huntsville, AL 35805
 Edward L. Saenger, Pres. (205) 536-3983

Primarily specializing in Human Factors Engineering, Evaluation of Environmental Hazards and Industrial/Graphics Design.

162. MAROTTA SCIENTIFIC CONTROLS, Inc. 28, 47, 77, 78, 88, 108,
 Boonton Avenue 112A, 113A
 Boonton, NJ 07005
 William T. Browne, Jr. (201) 334-7800, Ext. 275
 Director of Sales & Marketing

(A) The development, design and manufacture of valves, electro-hydraulic and electro-pneumatic systems. (B) The design and fabrication of hydraulic power units up to and including 300 HP (this work performed at our subsidiary company, General Hydraulics Corp., Huntsville, AL). (C) High pressure, high flow test capability (gaseous nitrogen or standard hydraulic fluids and water). The high pressure pneumatic facility has pressures up to and including 15,000 PSIG and instantaneous flow rates up to 40,000 SCFM. Pressures-Oil pressures to 5,000 PSIG; flow rates to 150 gallons per minute. Water flow rates to 200 gallons per minute. (D) Environmental/temperature testing during pressure of flow tests. (E) Limited subsea/depth component testing. AREAS OF INTEREST: (1) ENERGY: a) Nuclear Power; b) Solar; c) Coal Conversion; d) Offshore oil/gas. (2) BASIC METALS: a) Aluminum sheet or foil; b) Steel; c) Specialty non-ferrous materials. (3) TRANSPORTATION: a) Aircraft; b) Ships; c) Spacecraft; d) Road vehicles; e) Track vehicles. (4) SPECIAL MACHINERY: a) Force/load simulators; b) Positioning, speed or rate controls; c) High temperature, corrosion, high pressure controls.

163. MARTIS ASSOCIATES 2, 3, 5, 6, 7, 9, 14, 20, 21,
 618 E. 10th Street 22, 24, 25, 26, 27, 28, 29,
 Berwick, PA 18603 30, 31, 32, 34, 37, 40, 44,
 Jerome M. Martis, Sr. (717) 759-8618 45, 47, 48, 49, 56, 57, 58,
 60, 63, 67, 68, 70, 74, 76,
 78, 79, 80, 82, 88, 90, 93,
 95, 99, 100, 101, 103, 107,
 108, 109, 111, 112, 112A,
 113, 113A, 114, 116, 117,
 118, 121

Oriented in support functions in engineering, estimating, cost control and project management in high technology areas involving energy systems, aero-space, vehicles in special dynamic transportation modes, structural dynamics, advanced materials and stress studies of advanced structures for aerospace. In general, interested in complete projects that requires technical and cost management and that requires organized team cooperation to get a program on a planned schedule involving a total information system.

164. MASON RESEARCH INSTITUTE 12, 13, 17, 21, 30, 32, 81,
 57 Union Street 84, 110
 Worcester, MA 01608
 Dr. John C. Landon, Pres. (617) 791-0931

Biomedical Research, Toxicology, Pathology, Reproductive Physiology, Drug and Chemical Safety and Efficacy Testing, Biomedical Data Processing.

165. MASSACHUSETTS SCIENCE AND TECHNOLOGY FOUNDATION 12, 14, 19, 45, 48, 60, 75, 78, 103, 109, 117, 119, 123
 10 Lakeside Office Park
 Wakefield, MA 01880
 Irving Sacks, Acting Director (617) 246-1250

Service agency dedicated to furthering the economic well-being of Massachusetts through improved liaison with the outstanding scientific and industrial communities in the Commonwealth. Within the scope of science and technology, activities may take many forms, but in each instance, the main objective will be to solve unavoidable and critical technical problems, and stimulate the general economy. It is the policy of the Foundation not to duplicate services and facilities available elsewhere within the Commonwealth, but rather to perform its function through the medium of existing talent and resources wherever possible. ACTIVITIES INCLUDE: Technology Exchange; Advisory Service; Program Management; Technology Grants; Study Initiation; Meeting Support.

166. MASSDESIGN ARCHITECTS & PLANNERS 27, 45, 61, 97, 103, 109
 138 Mt. Auburn Street
 Cambridge, MA 02138
 Gordon F. Tully (617) 491-0961

Energy Conservation Consultants. Energy; Graphic Arts; Publishers; Solar Energy; Technology Transfer.

167. MATAHEM RESEARCH CORP. 17
 432 Cherry Hill Blvd.
 Cherry Hill, NJ 08034
 Dr. Ralph Matalon (609) 667-8233

Chemistry. Manufacturer of perfume.

168. MATHEMATICAL SCIENCES NORTHWEST 37, 45, 48, 74, 80
 P. O. Box 1887
 Bellevue, WA 98009
 Peter H. Rose, Pres. (206) 827-0460
 G. F. Kugler, VP/Administration

High energy gas laser technology; fusion technology; economic studies; environment, resource conversion and engineering studies.

169. MEGA ANALYTICAL RESEARCH SERVICES 5, 40, 47, 77, 90, 107
 11499 Columbia Pike
 Silver Spring, MD 20904
 Dr. Richard E. Dame (301) 622-4030

Specializes in design and analysis of prototype systems on a dedicated client basis including mechanical, electrical design of spacecraft systems, hydro-space systems, optical instruments and remote manipulator devices. Fabrication, test and evaluation of experimental verification units. Structural, thermal and mechanical R&D.

170. MERCURY COMMUNICATIONS 97
 730 Mission Street
 Santa Cruz, CA 95060
 Catherine Carmel, VP/Marketing (408) 425-8444

High-technology business publications and consulting.

171. MET ELECTRICAL TESTING CO., Inc. 12, 26, 40, 49, 111
 916 W. Patapsco Avenue
 Baltimore, MD 21230
 Leonard Frier, Pres. (301) 354-2200

Biomedical Sciences. Instrumentation Consultants. Electrical Engineering. Laboratory and Industrial Equipment. Electrical Testing.

172. METAL BELLOWS CORP. 6, 12, 28, 49, 70, 88, 108,
116
1075 Providence Highway
Sharon, MA 02067
Elton M. Tucker, Assistant Division Mgr.
(617) 668-3050, Ext. 118

Design, development and production of metal bellows components and systems for sealing, pumping, sensing and controlling in nuclear, medical, aerospace and industrial process applications. Application of advanced technology to precision forming, brazing and welding of foil thickness metals.

173. METEX CORPORATION 124
970 New Durham Road
Edison, NJ 08817
Bertram R. Rashkow (201) 287-0800

Designs, engineers, manufactures and sells knitted wire mesh products for a great many widely diverse industrial applications. Primary end use applications include EMI/RFI shielding, shock-mounts, flame arrestors, mist eliminators, filters, noise attenuators and many others.

174. MILMARK RESEARCH, INC. 9, 13, 17, 35, 66
P. O. Box 87
Bernville, PA 19506
Dr. Sheldon L. Clark (215) 488-6002

Industrial hygiene (laboratory services), toxicology, including drug screening and quantitation. Biological and biochemical research, including enzymes, lipids, steroids, proteins, immuno-chemical analysis, tissue cultures. Product formulation, testing and manufacturing for private labels.

175. MOLECULON RESEARCH CORP. 3, 9, 17, 23, 24, 35, 41,
47, 50, 51, 63, 65, 73, 74,
79, 93, 94, 99, 103, 105,
106, 109, 110, 113, 124
139 Main Street
Cambridge, MA 02142
Arthur S. Obermayer, President
(617) 547-2353

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176. MONA INDUSTRIES, INC. 9, 17, 18, 29, 51, 55, 66,
67, 68, 70, 75, 79, 91, 94,
95, 96, 99, 106, 110, 116
65 E. 23rd Street
Paterson, NJ 07524
Dr. Karl Heyman, VP/R&D
(201) 274-8221, Ext. 12

Manufacture of organic synthetic chemical specialties.

177. MORRIS & WARD 40, 47, 65, 75
 5817 Plainview Road
 Washington, DC 20034
 Dr. Alan D. Morris (301) 320-4900
 Technology assessment. Power Plant Siting. Mechanical, electrical and hydraulic systems. Science and law.
178. WILLIAM M. MOSCRIP 16, 47, 53, 72A, 74, 79,
 Route 2, Box 474 87, 94, 121, 123
 Fredericksburg, VA 22401
 (703) 775-7207
 Inventor. R&D in mechanical/electrical/materials science area. Naval science; Naval weapons; interior ballistics; guided projectiles. Hardware prototype development. Prestressing refractory brittle materials to be used in gun barrels; projective/missile control fin actuator. Wind energy conversion. Stirling engine design; gas turbine design; synthetic fuel processes; thermal energy storage; heat pipe technology; solar pond design. High temperature ceramics; amorphous metals. Machine design; automotive design; fluid power generation; ship design, high speed hydrofoils. Gun design technology; precision guided ordnance; high energy lasers.
179. MULTISYSTEMS, INC.
 1050 Massachusetts Avenue
 Cambridge, MA 02138
 Carole J. Berkson (617) 864-5810
 (No expertise submitted at time of printing)
180. NATIONAL TESTING SERVICES
 1905 Chapel Hill Road
 Durham, NC 27707
 Carol Hill
 (No expertise submitted at time of printing)
181. NAVAL AIR DEVELOPMENT CENTER
 Street & Jacksonville Roads
 Warminster, PA 18974
 Rose G. Mandrack
 (No expertise submitted at time of printing)
182. NORTHWEST RESEARCH AND 3, 24, 27, 96, 99, 108, 113,
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 Richland, WA 99352
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 (509) 967-3684
 Research and consultants specializing in roofing problems, epoxy floor problems and waterproofing problems. In-plant seminars. Seminars by invitation.
183. O'DONNELL & ASSOCIATES, INC. 1, 2, 19, 21, 24, 45, 47,
 5100 Centre Avenue 63, 79, 82, 88, 93, 96, 103,
 Pittsburgh, PA 15232 107, 112, 113
 William J. O'Donnell, President
 Ray G. Fasiczka, Vice President
 (412) 687-7715
 Engineering design and analysis services. Activities include stress analysis and certification of components, dynamic and seismic analysis, elastic and plastic analysis, nuclear fuel studies, reliability analysis, systems
 (continued)

analysis, fatigue and failure analysis. High pressure and high temperature component analysis and criteria development.

184. OPTELECOM, INC. 20, 25, 45, 74, 86, 90, 93,
15940 Shady Grove Road 103, 105, 106, 121
Gaithersburg, MD 20760
William H. Culver, Pres. (301) 948-4232
Manufactures and designs modulators, semiconductor lasers, laser arrays, high brightness illuminators, optical fibers, fiber optic cables, solar concentrators, and communications systems.
185. OTISCA INDUSTRIES, LTD. 45
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LaFayette, NY 13084
Clay D. Smith, Pres. (315) 475-5543
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186. PACIFIC SIERRA RESEARCH CORP.
1456 Cloverfield Blvd.
Santa Monica, CA 90404
Richard J. Boberg (213) 828-7461
(No expertise submitted at time of printing)
187. PANDALAI COATINGS CO. 17
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Monroeville, PA 15146
Krish Pandalai (412) 373-7493
Research, development and manufacture of organic coatings for the coil coating, transportation and maintenance industries.
188. PAYNE, INC. 5, 6, 7, 24, 27, 34, 45, 46,
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Annapolis, MD 21401 114, 119, 123
Peter R. Payne, Chmn. (301) 268-6150
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190. PENETRADAR CORP. 6, 40, 42, 44, 70, 80, 86,
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Ground-Penetrating-Radar Technology. High-Resolution Radar. Radar Propagation and Scattering. Target Identification. Radar Systems Analysis and Design. Electronic Warfare Analysis.
191. PENN STATE ENGINEERING 47
P.O. Box 177
State College, PA 16801
Norman A. Katz, Pres. (814) 238-5013
Civil engineering.

192. JAMES L. PLUMMER 14, 37, 45
8913 Footstep Court
Annandale, VA 22003
(703) 978-2911

Economic modeling; benefit cost analysis; risk-benefit analysis; energy economics; environmental economics.
193. POLYSCIENCES, INC. 12, 13, 17, 24, 33, 43, 81, 94
Paul Valley Industrial Park
Warrington, PA 18976
Dr. B. David Halpern, Pres.
(215) 343-6484

Consultant and sponsored research in polymers, monomers, production, market development, formulations, applications and evaluation for all areas of plastics use. Specialties in medical and dental polymers, contact lenses, enzyme substrates, implant polymers, FDA materials, acrylics, PVC, polyvinyl alcohol, water-soluble polymers, thermosets, adhesives, latices, forest products, coatings, textiles and new monomers. 20,000 sq. ft. laboratories with full synthetic and pilot capability. Current confidential client relationships with major and small companies.
194. PRESEARCH, INC. 2, 21, 22, 23, 25, 32, 40, 45, 47, 48, 58, 64, 65, 68, 71, 77, 80, 81, 87, 88, 89, 93, 99, 103, 108, 121
2361 S. Jefferson Davis Hwy.
Arlington, VA 22202
Leonard P. Gollobin, President
(703) 920-5740

Performs studies and analyses and provides inputs for management decision-making; largely for the Department of Defense. Specific areas include naval warfare; strategic studies and projections; resource management (manpower, personnel and training, costing); and data processing support including systems analysis and programming.
195. PRODUCT RESOURCES INTERNATIONAL 3, 10, 17, 18, 35, 69, 109
90 Park Avenue
New York, NY 10016
Eugene F. Whelan (212) 682-2966

Represent selected inventors on a no-fee, share-of-the-action basis. Also conducts invention-searches on behalf of companies in return for a fee paid by the company(s). (The inventor or technology owner pays nothing.)
196. PRODUCTION COMPONENTS, INC. 45, 46, 47, 76, 103, 118, 123
Building I, El Tesoro Road
P.O. Box 7
Ranchita, CA 92066
E. S. Christensen, Pres. (714) 782-3339

Precision Machining—Tool and Die work. Thirty-two years in business of designing and building specialized machines-dies-equipment and processes. Holder of patent on thermal engine. Others pending.
197. PYROMET INDUSTRIES 3, 6, 7, 9, 15, 16, 19, 24, 45, 46, 47, 49, 74, 76, 79, 82, 88, 99, 103, 113, 119, 121
595 Industrial Road
San Carlos, CA 94070
Tom Hikido, Vice President
(415) 591-7161, Ext. 35

Brazing and heat treating. Metallurgical research & development. Production of aerospace hardware. Refurbishment of jet aircraft engine parts.

198. QUALITY BAKERS OF AMERICA CORP. 54
 1515 Broadway
 New York, NY 10036
 Dr. Simon S. Jackel, Vice President
 (212) 790-9225
- Full service laboratory and consulting facilities for bakery foods and for application of ingredients, processes and products in the baking industry.
199. QUEST RESEARCH INTERNATIONAL, Inc. 9, 17, 19, 45, 48, 53, 55,
 (formerly Howe-Baker Engineers) 66, 92, 95, 99, 106, 110
 P. O. Box 478
 Tyler, TX 75710
 Tom H. Cheavens, Research Director
 (214) 597-4174
- Process research, refining and petrochemicals; combustion analytical services; industrial hygiene; waste water; petroleum products.
200. RAD SERVICES, INC. 26, 48, 66, 70, 95
 9381 "C" Davis Avenue
 Laurel, MD 20810
 Edward Wellner, Operational Manager
 (301) 953-9583
- Transportation, packaging, storage and disposal of radioactive and chemical waste. Maintenance, calibration, repair, leasing, purchasing and sales of radiation instrumentation. Radioactive laundry service and environmental monitoring services including consultation, instrumentation and TLD, film badge dosimetry.
201. RADIATION MANAGEMENT
 Science Center Building Two
 3508 Market Street—Suite 30
 Philadelphia, PA 19104
 Bernard T. Geehan
- (No expertise submitted at time of printing)
202. E. RAU ENTERPRISES 14, 15, 17, 18, 45, 61, 103
 40 Salisbury Avenue, Stewart Manor
 Garden City, NY 11530
 (Mailing address: P.O. Box 443
 Floral Park, NY 11001
 Dr. Emil D. Rau, President
 (201) 440-3277 or (516) 488-2796
- Saline chemicals. Fermentation. Wood chemistry. Coal chemistry. Agricultural systems. Solar energy.
203. REMTECH, INC. 2, 5, 6, 7, 27, 32, 40, 45,
 2603 Artie Street, Suite 21 47, 57, 63, 74, 80, 90, 93,
 Huntsville, AL 35805 95, 101, 103, 108, 114, 123
 Charles E. Fuller, VP (205) 536-8581
- Firm is qualified to conduct programs in Energy Transfer, Fluid Mechanics, Environmental Control, and System Analysis. Experience includes Combustion, Gaseous Radiation, and Aerodynamic Heating Analyses; Laser Doppler Velocimetry, Ground Test Support and Instrumentation Design; Building Noise Surveys conducted for the government, universities and industry. The company has amplified its technical capabilities for Solar Energy System Design, Building Heat Load Analysis, and Energy Resource/Conservation Studies.

204. RESEARCH DYNAMICS, INC. 12, 41, 44, 93, 106
P.O. Box 65, Village Station
New York, NY 10014
Dr. Raymond DiMartini, Director

Electrochemistry, spectroscopy and biomedical instrumentation. Multi-disciplined research services are offered within these fields by utilizing contemporary microelectronics technology with novel interpretations of fundamental physical principles. Physical and chemical parameters of problems are investigated and interpreted in terms of up to date technological literature available and in terms of the development required to attain a specific goal or produce a specific device. Traditional approaches are critically reviewed and evaluated in relation to the interpretation developed.

205. ROCKVILLE CONSULTING GROUP, Inc. 14, 37, 69, 72, 78, 102,
505 Second Street, N. E. 109, 117
Washington, DC 20002
Stuart A. Lichtman, President
(202) 543-1040

Support to venture capitalists and other investors dealing with high technology firms.

206. ROOT DEVELOPMENT CORP. 9, 12, 17, 81
Orentreich Medical Group
909 Fifth Avenue
New York, NY 10021
Dr. Joseph H. Vogelman (212) 794-0835

Biomedical instruments and processes in endocrinology, heart measurements, thyroid responses, chemical responses. Measure blood levels, hormone levels, analysis of dermatological effects of household remedies on skin. Analysis of products for allergy potential. Computerized electrocardiograms.

207. GEORGE KNOX ROTH
P.O. Box 811
Claremont, CA 91711
(714) 624-4801

(No expertise submitted at time of printing)

208. ROTHENBUHLER ENGINEERING CO. 20, 28, 40, 47, 77, 101,
Rhodes Road 103, 112, 123
P.O. Box 192
Sedro Woolley, WA 98284
Howard Rothenbuhler, Pres. (206) 856-0836

Originally founded to build radio control systems for the Forest Products Industry, company has grown to manufacture bank alarm systems, intrusion detection, scanning and monitoring equipment and single side band radios as well as the Talkie Tooter remote 2-way radio. Engineering testing, consulting, and custom engineering and manufacturing in the electronics field are also offered with recent emphasis on wind generators and energy conservation.

209. SGL INDUSTRIES, INC.
76 Euclid Avenue
Haddonfield, NJ 08033
Jonathan R. Lax, Vice President
(609) 429-7400

10, 44, 45, 76, 104

Manufacturers of electrical and electronic, metal and plastic products.
Providers of industrial services. Divisions include:

SGL Batteries Manufacturing
14650 Dequindre
Detroit, MI 48212
(313) 868-6410

Specializes in producing lead-acid batteries for "high-drain" applications
such as in-plant equipment, electric-powered golf carts, electric auto-
mobiles, and trucks and buses—SGL Deep Cycle TM batteries.

SGL Auburn Spark Plug Co.
89 York Street
Auburn, NY 13021
(315) 252-9501

Manufactures Auburn TM line of engineered, specialty igniters, liquid
level control electrodes, electric feed-throughs, motor terminals, and
observation ports.

SGL WABER Electric
300 Harvard Avenue
Westville, NJ 08093
(609) 456-5400

Manufactures SGL Waber ^R electric power outlet boxes, SGL Power
Master TM multiple outlet strips, and instrument transports.

SGL Electronics
300 Harvard Avenue
Westville, NJ 08093
(609) 456-7300

Manufactures high-performance magnetic components, magnetic lamina-
tions and cores.

SGL Printed Circuits
827 Black Oak Ridge Road
Wayne, NJ 07479
(201) 835-2765

Produces custom electronic circuitry.

SGL Abrasives
North Pitt Street Extended
Carlisle, PA 17013
(717) 243-3471

Manufactures grinding wheels and abrasive shapes, "super-speed" grinding
wheels, and abrasive segments.

SGL Piping Systems
302 Falco Drive
Newport, DE 19804
(302) 995-6136

Manufactures Galaxie TM line of piping components (stub ends, coils and pipe
elbows) used in petrochemical plants; integrated piping systems.

B & S Screw Machine Products
a division of SGL Industries, Inc.
204 North Chester Pike
Glenolden, PA 19036
(215) 724-4366

Manufactures metal and plastic screw machined parts.

SGL Plastics
Route 248
Nazareth, PA 18064
(215) 759-0280

Produces custom components parts, through the injection molding, profile, and sheet extrusion processes.

SGL Graphics
John Fitch Industrial Park
Warminster, PA 18974
(215) 672-3600

Produces fiberglass signs and displays through the proprietary Modulite^R and Modulac^R processes which offer superior resistance to vandalism, sunlight, chemical fumes and weather.

SGL Homalite
11 Brookside Drive
Wilmington, DE 19804
(302) 652-3686

Produces crystal-clear and colored plastic sheets, tubes, and rods. HomaliteTM plastics exhibit superior resistance to abrasion, impact and radiation. Produces Homalite-LR (low-glare) instrument panels and faceplates.

SGL Modern Creative
35 Market Street
Elmwood Park, NJ 07407
(201) 791-7700

Provides services to coat, frost and print glass and plastic containers.

SGL Modern Hard Chrome Service
Cover & River Roads
Pennsauken, NJ 08110
(609) 665-8600

Provides hard chromium, electroless nickel and copper plating.

SGL LUBE/systems
280 Midland Avenue
Saddle Brook, NJ 07662
(201) 791-6200

Manufacturer of automatic grease feeders used in industrial applications.

210. STD RESEARCH CORPORATION 5, 6, 7, 17, 19, 21, 23, 24,
150 E. Foothill Blvd. 27, 34, 40, 42, 44, 45, 46,
P. O. Box "C" 47, 48, 49, 52, 57, 58, 63,
Arcadia, CA 91005 68, 70, 74, 78, 79, 80, 93,
Dr. John C. Cutting, VP 95, 103, 108, 111, 112, 113,
(213) 445-7000 114, 119, 122, 123

Analytical modeling and systems analysis of open cycle MHD. Detailed thermodynamics analysis of combustion liquefaction and gasification of coal. Interests: Conservation, oil, coal, gas utilization, solar energy.

211. SACHS/FREEMAN ASSOCIATES, INC. 20, 21, 22, 25, 32, 40, 42,
5809 Annapolis Rd. --- Suite 512 44, 47, 61, 68, 71, 74, 80,
Bladensburg, MD 20710 86, 90, 93, 100, 108, 121
Ernest Freeman, President
(301) 927-4980

COMMUNICATION SYSTEMS: Public Safety; Emergency Medical; 911; Radio Common Carrier. ENGINEERING SERVICES: EMC; Specifications and Standards Development; ECM; Communication and Radar Systems Analysis; Electro-Mechanical Design; Laser/Optics; Design/Drafting. MANAGEMENT SCIENCES: ILS/CM/Training. COMPUTER SCIENCES: Systems Design and Specifications; ADP; Simulation/Modeling/Displays/Analysis.

212. SAMANIE, INC.
P.O. Box 694
Alexandria, VA 22303
Anne B. Bryan

(No expertise submitted at time of printing)

213. SCIENTIFIC ASSOCIATES, INC. 23, 45, 47, 114, 123
1639 - 12th Street
Santa Monica, CA 90404
Dr. Eugene B. Nebeker, President
(213) 451-1344

Performs R&D and consulting services within the general field of chemical and mechanical engineering. Typical activities involve both theoretical and experimental work in fluid mechanics, heat and mass transport, and thermodynamics. Primary ongoing activities are in development of original concepts for oil spill skimming in high seas, rock excavation with water jets; and wind-energy conversion. The company has also been engaged in industrial consulting on environmental impact studies.

214. SEAWARD INTERNATIONAL, INC. 48, 63, 77, 87, 89, 95
6269 Leesburg Pike
Falls Church, VA 22090
E. F. Daly, VP (703) 534-3500

Development of equipment for control of marine pollution, particularly that due to oil and hazardous materials. Search and recovery of lost underwater objects. General ocean engineering.

215. SERVICE ENGINEERING ASSOCIATES 27, 45, 65, 81
3960 Peachtree Road, N.E.
Atlanta, GA 30319
Clyde H. Gordon, Sr. Consultant
(404) 261-2050

Consultants, energy conservation and management; industrial operation and maintenance; evaluation and field testing of products, methods and equipment relating to institutional sanitation.

216. SHAKER RESEARCH CORP. 2, 6, 21, 26, 27, 40, 44,
Northway 10 Executive Park 45, 47, 51, 70 112, 115
Ballston Lake, NY 12019
John M. McGrew, Pres. (518) 877-8581

Structure and airborne vibration data processing; machinery and structural dynamics; high performance bearing design and analysis; lubrication; seal design and analysis; acoustic and mechanical vibration analysis; machinery design reviews; machinery failure protection.

- 216A. ALBERT SHAPERO 14, 37, 39, 78, 102
Ohio State University
Columbus, OH 43210

As of May 1978, William H. Davis Professor of American Free Enterprise System, Ohio State University, Columbus, Ohio. Formerly, Professor of Management at the University of Texas at Austin, Austin, Texas since December 1966 and a member of the Graduate Faculty of the School of Library and Information Science. He has been Chairman of the University of Texas' Department of Management, visiting faculty member of the International Institute for the Management of Technology in Milano, Italy (IIMT), and Director of the Technology Management Division at Stanford Research Institute. At Stanford, he was principal investigator and project leader or participant in a large number of research projects. As Director of Technology Management Programs, he developed and headed a multidisciplinary research organization that was concerned with the application of systems approaches to the solution of complex problems.

217. SHEPARD LABORATORIES 20, 21, 26, 28, 32, 40, 44,
19 Morris Court 46, 68, 69, 101, 108
Summit, NJ 07901
F. H. Shepard, Jr., Consulting Engineer
(201) 273-5255

Electronic-Electro-Mechanical Systems developed; computer peripherals; instrumentation & control; prototype construction.

218. RALPH L. SHERMAN 12, 17, 80, 81, 93
1019 Coronado, #25
Imperial Beach, CA 92032
(714) 429-7966
d/b/a J. M. Richards Laboratory
15133 Kercheval Avenue
Grosse Point Park, MI 48230

Biophysics. Biochemistry. Bioengineering. In abstracto modeling of hormonal, biochemical and bioelectrical factors associated with nonperiodic oscillations of CNS excitability; they serve as a foundation for continuing research in quantifying brain function in health/disease. Mathematical analysis of longitudinal EEG studies in clinical patients.

219. SHRADER ANALYTICAL LABORATORIES 9, 17, 18, 55, 92, 95, 110
3450 Lovett Avenue
Detroit, MI 48210
Dr. Stephen Shrader, Pres. (313) 894-4440

Analytical chemistry consultants. Specializing in identification of unknown materials—pollutants, drugs, contaminants in industrial products; experts in mass spectrometry and gas chromatography.

220. SIERRACIN CORPORATION 5, 17, 44, 45, 48, 93, 94
 12780 San Fernando Road
 Sylmar, CA 91342
 B. P. Levin (213) 367-6184
- Applied research directed toward heatable, anti-reflective coatings applied directly on plastic or glass substrates usable in heatable transparencies. Additional efforts fall into the areas of solar energy research, life cycle testing, environmental testing and flight environment simulation.
221. SIGNATRON, INC. 20, 23, 40, 80
 12 Hartwell Avenue
 Lexington, MA 02173
 Dr. Julian J. Busgang, Pres.
 (617) 861-1500
- Consulting, research, development and system studies in electronic communications, radar, signal transmission and reception, mathematical modeling, performance test and evaluation, special purpose electronic instrumentation, digital interfaces, expert review and testimony.
222. ANATOLE J. SIPIN CO., INC. 2, 26, 40, 47, 48, 49, 66,
 425 Park Avenue South 70, 95
 New York, NY 10016
 Anatole J. Sipin, President
 (212) 689-2550
- Instruments to monitor organic solvents, vinyl chloride, and other toxic gases and vapors, personal pumps, charcoal and other sorbent tubes, gas collection bags, and direct reading colorimetric dosimeter tubes. R&D on medical devices, energy conversion devices, non-destructive testing, ultrasonics.
223. C. BRANSON SMITH 60
 Planning & Analysis
 U.S. DEPARTMENT OF ENERGY
 20 Massachusetts Ave., N.W.
 Washington, DC 20545
224. SOL ENERGY CORPORATION 45
 761 Rohde
 Hillside, IL 60162
 Joseph Kelly, Pres. (312) LI 7-5912
- Solar energy research & development. Facility at Rutland, Illinois to use solar energy to manufacture photovoltaic cells and a general education facility open to the public.
225. SOLAR INVESTORS ASSOCIATES 45, 103, 117
 325 Prospect Avenue
 Mamaroneck, NY 10523
 A. W. Adler, President (212) 952-9400
- Management and financial consulting. Venture capital with emphasis on alternative energy firms.
226. SOUTHWESTERN LABORATORIES 9, 15, 17, 19, 24, 43, 48,
 222 Cavalcade Blvd. 51, 54, 55, 59, 79, 82, 95,
 P.O. Box 8768 99, 103, 106, 110, 112, 113
 Houston, TX 77009
 Joe W. Jeanes, P.E., President
 (713) 692-9151
- Materials, Environmental, and Geotechnical Consultation and Contract Research; Fundamental Testing and Analytical Services.

227. SPACE VECTOR CORPORATION 5, 6, 28, 32, 44, 63, 70,
19631 Prairie Street 103, 116, 118
Northridge, CA 91324
Richard O. Rasmussen, President
(213) 886-6500

Research rocket systems including analysis, structures, recovery, flight control, attitude control and separation systems. Exoatmospheric attitude control for spinning and non-spinning payloads. Gyro and gyroscopic platforms. Pneumatic actuators. Pulse irrigation systems for agriculture.

228. SPECTRA RESEARCH SYSTEMS 6, 20, 32, 42, 44, 45, 47,
2212 DuPont Drive 68, 70, 80, 86, 90, 93, 100,
Irvine, CA 92664 101, 102
M. S. Sandhu, Pres. (714) 833-9088

Independently owned high technology R&D organization with expertise in information processing, remote sensing, advanced sensors and processors, phenomenology studies, field measurements planning and data acquisition, processing and analysis. Primary areas of business include advanced systems studies, system synthesis, field measurements and image processing.

229. SPECTRIX CORPORATION 9, 12, 17, 21, 55, 70, 99,
7408 Famin 106, 110
Houston, TX 77054
Dr. Harris A. Lichtenstein, President
(713) 790-1800

Multidisciplinary consulting firm of scientists and technologists founded in Houston in 1969. Laboratory operations were established in 1972 and focused upon chemical analyses for research and services in geochemical, environmental, biomedical, petroleum and petrochemical applications. In particular, provides analytical services for trace organic and inorganic compounds in water, air and body fluids. Product quality control for manufacturers and hydrocarbon characterizations for geochemical exploration also highlight some of their services. Research efforts include the development of methods for the analysis of toxic chemicals in drinking water. Spectrix is one of the few commercial laboratories in the country possessing a computerized gas chromatograph-mass spectrometer, the most powerful analytical instrument for the analysis of complex organic compounds. This instrument is capable of the combined tasks of first separating and then identifying components in a complex mixture.

230. SPECTRO-SYSTEMS, INC. 9, 17, 41, 45, 47, 50, 55,
8000 Forbes Place 90, 93, 101, 105, 106, 114
Springfield, VA 22151
Dr. Joseph V. Gaven, Jr., Pres. & Technical Director
(703) 321-9240

Electro-Optics; Photochemistry; Liquid Crystals; Remote Sensing; Geothermal Energy; Energy-related R&D.

231. SPRINGBORN LABORATORIES, INC. 3, 9, 12, 13, 14, 15, 17, 18,
(formerly DeBell & Richardson, Inc.) 23, 24, 34, 35, 36, 47, 50,
Water Street 55, 78, 79, 81, 84, 94, 97,
Enfield, CT 06082 103, 110, 111, 113, 117, 119
Dr. Robert C. Springborn, Chairman & Pres.
(203) 749-8371, Ext. 217

Research, development and engineering, market studies in plastics, chemical, and related fields; physical, analytical and biological testing.

232. STANDARD LABORATORIES, INC. 9, 17, 19, 23, 49, 99, 113
3322 Pennsylvania Avenue
Charleston, WV 25302
Dick Kelly, Technical Director
(304) 343-5173

Provides expert water and coal testing capabilities as well as innovative coal testing capabilities. Complete coal testing services include: sampling, proximate analysis, ultimate analysis of coal and coal ash, fluidity studies, and washability and/or preparation plant performance studies.

233. STANFORD RESEARCH INSTITUTE
1611 N. Kent Street
Arlington, VA 22209
Dr. William D. Theriault
(703) 524-2053, Ext. 366

(No expertise submitted at time of printing)

234. STEWART-TODD ASSOCIATES, INC. 12, 65, 66, 81, 96
No. 10 Valley Forge Executive Mall
530 E. Swedesford Rd., Suite #344
Wayne, PA 19087
Dr. W. Wayne Stewart, Pres. (215) 687-2030

Plan, develop and implement environmental health programs, nationally and internationally, including occupational medical programs; industrial hygiene surveys by certified Industrial Hygienists; toxicological test design, monitoring and interpretation. Biological and environmental health research, product safety and product liability. Expertise in training of occupational physicians, industrial hygienists and monitoring staff; augment client professional capabilities as needed.

235. T. E. STIVERS ASSOCIATES 47, 49, 60A
P. O. Box 608
Decatur, GA 30031
T. E. Stivers, Pres. (404) 378-1392

Basically R&D for mechanical processing of agricultural and food products and by-products.

236. STRUCTURE PROBE, INC. 3, 4, 9, 12, 16, 17, 24, 33,
535 E. Gay Street 43, 82, 94, 96, 106, 115
P.O. Box 342
West Chester, PA 19380
Dr Charles A. Garber, President
(215) 436-5400

Analytical and consulting laboratory equipped with some of the most advanced electron optical equipment available for materials analysis—including a combination Auger/ESCA/Scanning Auger Microprobe system for Surface Analysis plus electron microscopy (scanning and transmission), x-ray diffraction, and many other peripheral capabilities for complete materials research. Applications in failure and contamination analyses, on-line production problems, quality control, patent support, product liability in areas such as ceramics, metals, microelectronics, foods, fibers, cosmetics, air and water pollution.

237. SUGHRUE, ROTHWELL, MION, 75
ZINN & MACPEAK
1776 K Street, N.W.
Washington, DC 20006
G. Franklin Rothwell (202) 293-7060

Law: Patents and Procurement.

238. TACHISTO, INCORPORATED 44, 74
 13 Highland Circle
 Needham Heights, MA 02194
 Gabrielle Kovarna Raff
 Vice President/Marketing & Sales
 (617) 444-9360
- Design and manufacture TACII CO2 TEA and pulsed rare gas-halogen eximer lasers; custom high voltage Marx generators; pulsed high voltage power supplies for flashlamps and lasers; capacitor bank installations; trigger generators; high voltage spark gap switches; voltage dividers; current viewing resistors.
239. TALLEY INDUSTRIES, INC. 1, 6, 9, 12, 17, 24, 25, 26,
 3500 N. Greenfield Road 27, 32, 40, 45, 47, 58, 61,
 P. O. Box 849 64, 65, 66, 68, 70, 78, 79,
 Mesa, AZ 85201 80, 94, 95, 96, 98, 103, 107,
 R. A. Rockow, President 108, 111, 112, 113, 114
 Government & Technical Products Group
 (602) 832-3830, Ext. 201
- (No further expertise received at time of printing)
240. TECH DEVELOPMENT, INC. 5, 6, 7, 45, 46, 47, 76, 123
 2601 Timber Lane
 P. O. Box 1400-0
 Dayton, OH 45414
 Robert G. Graham, Mgr. of Marketing
 (513) 275-7426
- Concerned with the research, design, development and fabrication of precision aerodynamic and fluid dynamics derived apparatus for aerospace, nuclear, medical and commercial aviation applications, including: design and fabrication of aircraft models for wind tunnel testing; compressed gas powered, tip-turbine driven, ducted axial flow fans for V/STOL aircraft scale model testing; propulsion simulation devices for aircraft model testing; inflation devices; sub-scale propellers; fluid pumps, turbomachinery; steam and air driven turbine and vane-type motors.
241. TECHMEDIA CORPORATION 22, 27, 38, 45, 64, 71, 108
 (formerly Proposal Management, Inc.)
 121 North Orianna Street
 Philadelphia, PA 19106
 Charles A. Mirenda, Director of Marketing
 (215) 574-0308
- Proposal writing and management. WBS, LCC/DTUPC, C/SCS, systems engineering, management systems. Configuration management. Documentation. Editing and composition. Technical art. Printing.
242. TECHNI RESEARCH ASSOCIATES, INC. 17, 23, 29, 45, 109
 Professional Center Building
 37 Easton Road
 Willow Grove, PA 19090
 Dr. Louis F. Schiffman, President
 (215) 657-1753
- Technology transfer. Research planning and management. Licensing. Acquisitions. Product development.

243. TECHNOLOGICAL INNOVATORS CO. 15, 27, 34, 45, 48, 54, 64,
21, 441 Highvale Trail 103, 107, 123
Topanga, CA 90290
Robert L. Woodbury, Chief Scientist
(213) 455-1721

Performs research, development and consulting in the field of Appropriate Technology (technologies that are ecologically and sociologically compatible), and require no petrochemical fuels, pesticides or non-renewable resources to make economic development possible.

244. TECHNOLOGY CLEARING HOUSE, INC. 68
1105 Market Street—Suite 801
Wilmington, DE 19801
Ernest Breton, Pres. (302) 658-7831

Publishers of New Technology Index. Will index clients technology by function to permit retrieval of information on new technology on the basis of the needs that it satisfies.

245. TELEDYNE ENERGY SYSTEMS 41, 45, 53, 73
110 West Timonium Road
Timonium, MD 21093
William C. Kincaide (301) 252-8220, Ext. 278

Engaged in the research and development and manufacture of electrochemical and thermoelectrical energy conversion devices, including water electrolysis systems, fuel cell systems, space power systems, and related equipment.

246. TENSOR INDUSTRIES, INC. 2, 4, 6, 22, 23, 25, 32, 40,
8415 Arlington Blvd. 44, 47, 58, 59, 60, 61, 64,
Fairfax, VA 22030 65, 68, 74, 77, 78, 81, 88,
Gaylord Leonard, Contract Mgr. 89, 99, 100, 101, 108, 111,
(703) 573-1204 112, 114, 118, 121

R&D activities center around systems engineering, reliability and maintainability, and systems acquisition management. A wide variety of engineering, technical and management skills are represented on its staff. Company has no hardware products.

247. THERMOTRON CORPORATION 14, 40
Kollen Park Drive
Holland, MI 49423
John J. Sexton, Pres. (616) 392-1491

Business Administration. Electrical Engineering.

248. TRANS-TECH, INC. 9, 10, 16, 17, 20, 24, 40,
12 Meem Avenue 42, 43, 44, 79, 82, 93, 94,
P.O. Box 457 99, 100, 111, 113
Gaithersburg, MD 20760
A. C. Blankenship, VP/Engineering
(301) 948-3800, Ext. 73

Producers of Microwave Materials; Ferrites, Garnets, Ceramic Dielectrics; Custom Research and Development Facilities; Diamond Wheel Machine Shop.

249. TRANS-TECH, INC. 9, 10, 16, 17, 20, 24, 40
12 Meem Avenue 42, 43, 44, 79, 82, 93, 94,
P.O. Box 457 99, 100, 111, 113
Gaithersburg, MD 20760
R. G. West, Sr. Staff Engineer
(301) 948-3800

Producers of Microwave Materials; Ferrites, Garnets, Ceramic Dielectrics; Custom Research and Development Facilities; Diamond Wheel Machine Shop.

250. TRANTECH CORPORATION 97, 109
P. O. Box 310
Newton, MA 02160
Martin Himmelfarb (617) 964-0699
Publishers. Technology Transfer.
251. TREADWELL CORPORATION 41, 45, 47, 48, 119
1700 Broadway
New York, NY 10019
J. A. Johnson, Sr. Vice President
(212) 262-3120
Integrated engineering-construction firm with expertise in the ferrous and non-ferrous metals industries. Also has unique qualifications in electro-chemistry and is the only producer of electrolytic oxygen equipment for nuclear submarines.
252. TREADWELL CORPORATION 41, 45, 47, 48, 119
1700 Broadway
New York, NY 10019
John M. Schreiner (212) 262-3120
Integrated engineering-construction firm with expertise in the ferrous and non-ferrous metals industries. Also has unique qualifications in electro-chemistry and is the only producer of electrolytic oxygen equipment for nuclear submarines.
253. UNIFIED INDUSTRIES, INC. 25, 48, 99, 107, 108, 112, 118
205 S. Whiting St. — Suite 201
Alexandria, VA 22304
Walter L. Ambrose, Procurement Mgr.
(703) 751-2200, Ext. 69 or 79
A minority-owned, small business corporation furnishing competent and reliable systems engineering and technical support services to government and industry. Structured with no proprietary interest in hardware, providing an environment for objectivity through an unbiased approach. Application of specialized disciplines in the electrical, electronic and mechanical fields provides for support services in a wide range of technologies.
254. UTILITY RESEARCH CO. 3, 17, 24, 94
98 Greenwood Avenue
P.O. Box 107
Montclair, NJ 07042
Harry S. Katz (201) 744-8259
Consulting and R&D on plastic materials, advanced composites, adhesives, elastomers; formulation, prototype and shortrun molding and production liaison.
255. VAN ALLYN, INC. 45, 72A, 122
310 East 44th Street
New York, NY 10017
Wayne P. LeVan, Pres. (212) 986-0550
Franchisor of inventions, U.S. and foreign, involving the use of vehicular traffic to generate electricity without the use of energy fuel using only the weight of vehicles.
256. VENCON MANAGEMENT, INC. 14, 23, 37, 53, 60, 64, 78, 92, 94, 117
730 Fifth Avenue — Room 918
New York, NY 10019
Irvin Barash, Pres. (212) 581-8787
Evaluates entrepreneurs, technology, markets, businesses, and arranges for equity and debt capital. Analyzes plant site locations and identifies and studies acquisition candidates.

257. **VERSAR, INC.** 9, 13, 15, 17, 19, 23, 24,
6621 Electronic Drive 25, 26, 30, 36, 37, 42, 47,
P.O. Box 1549 48, 55, 59, 66, 70, 74, 79,
Springfield, VA 22151 80, 82, 84, 89, 90, 93, 95,
Dr. Michael Markels, Jr., Pres. 106, 110, 112, 113, 119
(703) 354-3350
- High technology firm dealing in studies relating to environmental quality, resource recovery, energy research, materials research, applied physics, and life sciences.
258. **VERTREX CORPORATION** 27, 28, 44, 45
808 - 106th Ave., N.E.
Bellevue, WA 98004
Albert H. Rooks, Pres. (206) 455-4718
- Manufactures an electronic control device whose purpose is to reduce energy and cost consumption in building HVAC systems.
259. **VETERINARY RESOURCES AMERICAS** 8, 12, 13, 27, 32, 36, 45,
12930 North A1A 47, 48, 49, 51, 81, 84, 89,
Vero Beach, FL 32960 94, 103, 119, 123
Dr. M. L. Simmons, Pres.
- Consulting firm specializing in biomedical aspects of energy conservation and experimental animal facility design and program management. Veterinarians, designers, and engineers working together.
260. **VIRGINIA ENERGY OFFICE** 19, 45, 56, 103
823 E. Main St. —Room 300
Richmond, VA 23219
Louis R. Lawson, Jr., Director
(804) 786-8451
- Created by Governor Mills E. Godwin, Jr. in 1974 to serve as a focal point for energy related information, programs and planning for the State. **RESPONSIBLE FOR:** Keeping the Secretary of Commerce and Resources informed on energy developments and measures to minimize energy shortages in Virginia; Coordinating the flow of information between the various agencies of State government and working with the Federal and local governments and the private sector in implementing energy associated projects; Coordinating the development of energy plans and their strategies for implementation; Conducting action-oriented studies of alternative energy projects and programs; Developing and coordinating energy conservation programs for industry, commerce and private citizens; Cooperating with specific requests for the development of energy information, studies, projects, programs, or surveys; Maintaining continuous liaison with energy suppliers and distributors, agencies of other States and Federal agencies concerned with energy matters; Working closely with volunteer groups; and, Providing energy information to the public through the Virginia Energy Information and Conservation Center.
261. **WVS ENGINEERS** 19, 28, 34, 40, 45, 47, 56,
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William V. Susel, Pres. (213) 344-9936
- Engineering management.
262. **WESTERN SCIENTIFIC SERVICES** 70, 83, 108, 123
328 Airpark Drive
P.O. Box 1965
Ft. Collins, CO 80522
James F. Hedrick, VP (303) 482-3364
- Weather science, remote sensing, meteorological and environmental data monitoring system interfaced to satellite.

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- Independent dental research lab servicing clients in oral hygiene, chemical, drug and food industry. Specializes in developing models for dental disease, devise testing conditions which parallel those occurring in the mouth. Sets up screening programs which increase the chances for successful clinical investigation. Dental materials research, development and testing including specification testing. Specializing in polymeric materials.
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(202) 659-1867.
- Involved in advance research and development planning in support of naval ship systems, underwater systems, and energy and environmental protection systems. Specializes in oceanographic and environmental research, as well as systems engineering for ship, air, electronic, mariculture and deep ocean systems.
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Merion Station, PA 19066
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- Aero architecture. Marine engineering.
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269. WIND ENERGY RESOURCE DEVELOPMENT 4, 5, 16, 29, 30, 42, 44,
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