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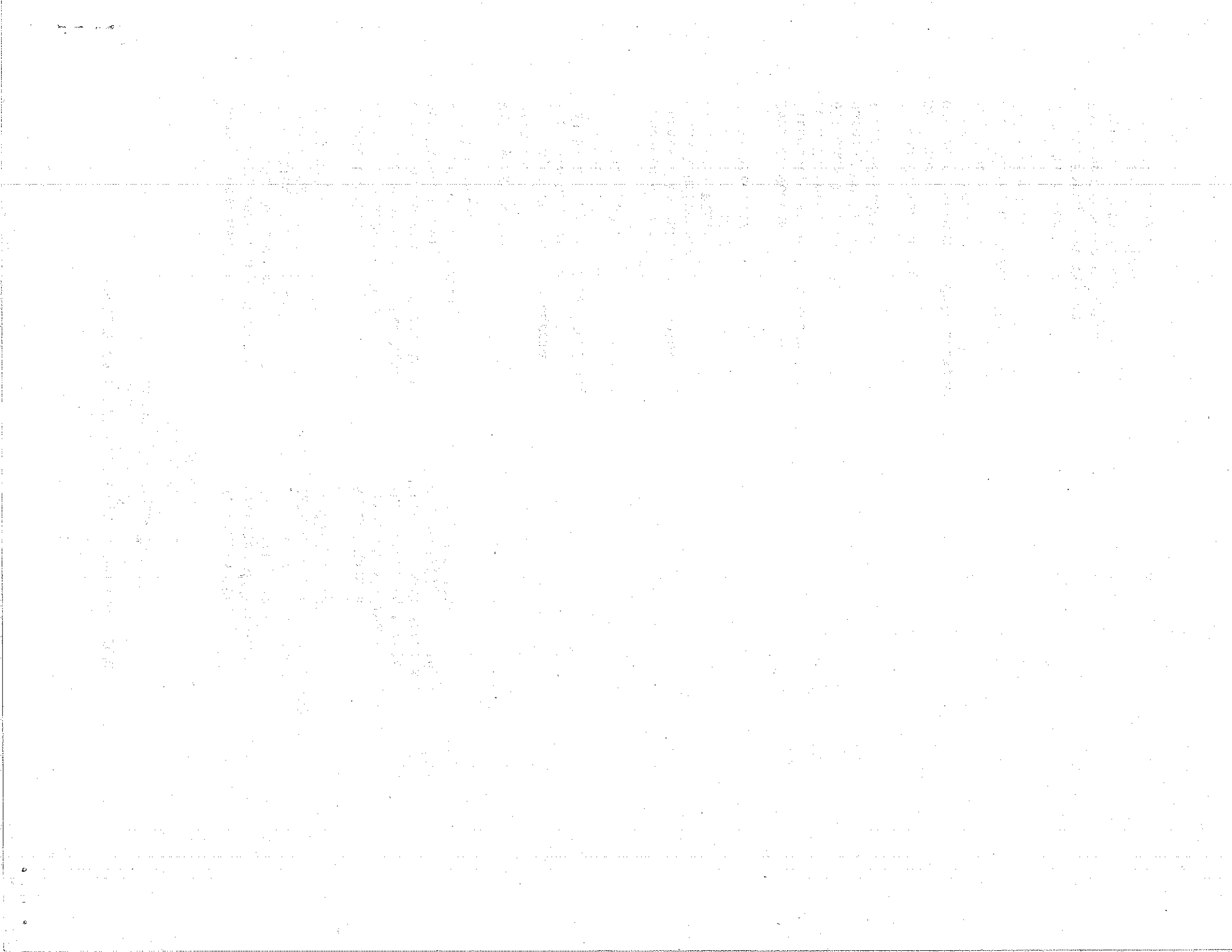
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### TASK FORCE ON TECHNOLOGICAL INNOVATION

WORK SESSION  
Sunday, February 26, 1984  
9:30 - 11:00 a.m.

**GOVERNOR JAMES B. HUNT, JR.**  
Chairman

**GOVERNOR DICK THORNBURGH**  
Vice-Chairman

#### Roundtable discussion of Governors and task force guests:

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Chairman  
Subcommittee on Telecommunications,  
Consumer Protection and Finance  
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95, 98, 99, 103, 105, 106,  
109, 110, 113, 116, 117,  
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Norman C. Witbeck, President 63, 64, 71, 77, 79, 87, 89,  
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108, 109, 112, 114, 119,  
123, 124

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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, environment (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, environmental engineering, technology transfer, regulatory analysis, and technology management. Current assignments for clients in the public and private sectors 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

Applied Mechanics: dynamics, vibrations, stress analysis, fluid dynamics, heat transfer, bearings and lubrication. Computer programs. Large scale programs on ship vibrations using STARDYNE and NASTRAN programs. Engineers with long and varied experience. Ship vibration and noise control. Cryogenic Design. Armor design using statistical procedures.

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.

5-11-74  
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

Specializes in research, development and consulting in chemistry polymers and allied fields. These services, performed for private industrial clients and for government agencies, range from feasibility studies and product development, to problem solving, chemical engineering investigations, and process development. Facilities include well-equipped laboratories for conducting chemical and physical experiments as well as facilities for pilot scale unit operations including film casting, fabric coating, extraction processes, emulsification, spray drying, mixing, filtration, sifting, extrusion, purification, grinding, etc. Manufactures POROPLASTIC<sup>®</sup> film and SUSTRELLE<sup>™</sup> powder. These polymeric materials are best described as a solid composed mostly of liquid or alternatively, as a molecular sponge. Amounts ranging from 70% to 98% of almost any liquid can be held within the cellulose triacetate matrix of which Poroplastic or Sustrelle is composed. A variety of procedures can be used to control the rate of mechanism by which a liquid or precipitated solid can be released from this polymeric matrix. Product applications are in a variety of consumer, industrial and technical product applications such as controlled release of fragrances, flavors, medicinals and pesticides; and the separation of biological fluids and industrial liquids.

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,  
 COUNSELING SERVICE 114  
 P. O. Box 461  
 Richland, WA 99352  
 Amos F. Warren, General Manager  
 (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  
P. O. Box 186  
LaFayette, NY 13084  
Clay D. Smith, Pres. (315) 475-5543  
Fossil fuel mining, extraction, and upgrading research and development and process construction.
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  
618 Dahlia Drive  
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,  
1933 Lincoln Drive 47, 51, 57, 63, 77, 87, 103,  
Annapolis, MD 21401 114, 119, 123  
Peter R. Payne, Chmn. (301) 268-6150  
In business since 1964, Payne, Inc. is a high technology R&D company with rather complete design and manufacturing capabilities. Worked for all three armed services, and ERDA, as well as many private companies. Especially strong in developing innovative hardware to solve a customer's problem. Recent developments include the Sea Knife, a low cost planning hull with the ride of a hydrofoil, the water pulsejet pump and propulsor (a heat engine with no moving parts), lightweight concrete solar collectors, and the Sosolese shore erosion protection system.
190. PENETRADAR CORP. 6, 40, 42, 44, 70, 80, 86,  
6865 Walmore Road 100, 101  
Niagara Falls, NY 14304  
Anthony V. Alongi, Pres. (716) 731-5937  
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 automobiles, and trucks and buses—SGL Deep Cycle <sup>TM</sup> batteries.

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

Manufactures Auburn <sup>TM</sup> 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 <sup>R</sup> electric power outlet boxes, SGL Power Master <sup>TM</sup> multiple outlet strips, and instrument transports.

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

Manufactures high-performance magnetic components, magnetic laminations 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 <sup>TM</sup> 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<sup>R</sup> and Modulac<sup>R</sup> 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. Homalite<sup>TM</sup> 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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Lakeview Terrace, CA 91342 114  
William V. Susel, Pres. (213) 344-9936
- Engineering management.
262. **WESTERN SCIENTIFIC SERVICES** 70, 83, 108, 123  
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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.

263. WESTWOOD RESEARCH LABORATORY 9, 12, 23, 24, 33, 78, 81,  
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Westwood, MA 02090  
John Cornell (617) 326-3965
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264. WHEELER INDUSTRIES, INC. 2, 12, 13, 22, 23, 25, 27,  
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Washington, DC 20036 108, 109, 110, 112, 119  
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- 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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267. GLEN W. WILTROUT (Consultant) 14, 27, 39, 60, 69  
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268. WIND-DE-GO, INC. 28, 44, 45, 72A, 78, 81,  
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E. K. Hillman, Pres. (602) 943-0439
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269. WIND ENERGY RESOURCE DEVELOPMENT 4, 5, 16, 29, 30, 42, 44,  
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Leslie J. Mathis, Pres. (303) 644-3710
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270. WOLCHUK AND MAYRBAURL 47, 107  
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Presently working for a State Task Force on economic development in  
Massachusetts of high technology companies.

272. DR. STANLEY W. ZEHR  
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79, 103, 108

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