

2001 ANNUAL REPORT

Dear Governor Huckabee & Distinguished Legislators:

The Board of Directors and staff of the Arkansas Science & Technology Authority are pleased to submit to you the Authority's "Fiscal Year 2001 Annual Report." The report summarizes the scientific and technological projects by which the Authority carries out its statutory mission to bring the benefits of science and advanced technology to the people and State of Arkansas.

The Authority has broad and flexible statutory authority, which allows the Board to keep abreast of changes in science and technology. Reliance on the private-sector dominated Board for decision making gives the Authority credibility in delivering economic benefits from thoughtful, long-term investments in research, development, and commercialization of technology. The Authority's mission is a continuous one, because of the nature and pace of scientific discovery, and is essential to the state's continued economic well being.

The Board reviewed and adopted seven goals for Fiscal Year 2001 (FY01) and the Authority carried out these corresponding activities during the fiscal year.

Goal 1 - Increase per capita research and development (R&D) funding at colleges and universities by increasing the national competitiveness of Arkansas scientists in basic research. The Authority approved a total investment of \$619,988 for 14 [Basic Research](#) projects.

Goal 2 - Increase per capita R&D funding at colleges and universities by building a critical mass of research strength in research centers in the state. The Board approved nine [Arkansas Research Matching Fund](#) projects, representing a total investment of \$2,077,569.00. Co-Sponsorship funding totaled \$7,187,044.00. Data concerning the projects submitted to the Arkansas Research Matching Fund show that Arkansas scientists and engineers are competitive for federal awards. The continuing challenge is to find the increasingly required research matching dollars from non-federal sources.

Goal 3 - Provide extension services to customers. The Authority continued to provide extension services through funding of applied research, the Arkansas Manufacturing Extension Network (Network) and technology transfer assistance grants. It invested \$211,886 in [Applied Research Program](#) projects, \$112,453 in [Technology Transfer Assistance Grant Program](#) projects and \$193,728 in [Network Technology Transfer Assistance Grant Program](#) projects, for a total investment of \$518,067. Board approved investments attracted matching funds from the private sector totaling \$346,712. The Authority received federal funds totaling \$928,528 in fiscal year 2001 to support Network operations.

The most recent results provided by the [National Institute of Standards and Technology Manufacturing Extension Partnership](#) indicate that Network services impacted Arkansas industry by \$4.0 million (savings + 15% of increased and retained sales) over the 4 quarter period surveyed. Also, clients indicated that Network services resulted in increased investments (equipment, software, employee skills, etc.) of \$7.8 million.

Providing extension services included a unique combining of Applied Research Grant Program Guidelines and Network funds, with matching corporate funding, to make possible the testing of bridge pads developed by [Garlock Rubber Technologies](#) of Paragould.

The Authority developed a special solicitation for knowledge and data engineering, database systems, distributed systems software development, and other technologies in the software and database industries. The Board approved four projects representing a total investment of \$119,990. Co-sponsorship funding totaled \$164,990 from [Acxiom Corporation](#). This joint effort between the Authority and Acxiom is an economic development model for developing industry-specific innovations and expertise within the state.

Goal 4 – Develop innovative technology-based businesses while stimulating economic growth and global competition. The Authority continued to identify new and interesting technologies, nurture them, move them to the marketplace, and create new businesses and jobs in the process through two of its programs: [Seed Capital Investment Program](#) (SCIP) and the [Technology Development Program](#) (TDP). The Board approved \$1,300,000 and \$50,000 for SCIP and TDP projects, respectively, for a total investment of \$1,350,000.

One example was the award of \$2,500 in TTAG funds to three former students at the Arkansas School for Mathematics and Sciences who used the finances to assist in establishing a utility software development company, [ECHO](#). Currently students at the University of Arkansas at Little Rock, the owners attracted enough capital to continue their entrepreneurial venture.

A second example would be the \$50,000 Technology Development Program investment made to University of Arkansas, Fayetteville researcher Darin Nutter, Ph.D., to develop a unique refrigerant reversing valve that would help reduce manufacturing costs and reduce energy consumption with all types of heat pumps.

Goal 5 - Help build the education infrastructure for the future. The Authority does this primarily through its research programs, which continue to build research infrastructure at colleges and universities. The Authority is also represented, in an ex officio capacity, on the Board of Trustees of the [Arkansas School for Mathematics and Sciences](#), the state supported residential math and science high school in Hot Springs. The Authority's Board has a continuing interest in the health of the educational infrastructure because it has such an important role in supporting the innovation and human resource development that is necessary to realize fully the benefits of the new information-age economy.

Goal 6 - Become more of an information organization. The Authority continues its effort to improve the management of information and development of its Web site: <http://www.state.ar.us/asta/>. During the year, the Authority continued to improve on the design and use of both the Authority's project database and the Network's database.

During the year, the Authority collaborated with its counterpart organizations in Mississippi and Louisiana on the [TEAM Delta](#) project, Technology-based Economic Development Alliance in the Mississippi River Delta. The project conducted community technology assessments – including Dumas, Helena, and Monticello in Arkansas – and developed learning modules based on the content of workshops and the Delta Region Accessing Technology Conference.

Goal 7 - Contribute to the preparation of a coherent research and development road map. The Authority continued to use the Arkansas Research Matching Fund (ARMF) in Fiscal Year 2001. ARMF was created during the 1999 legislative session, in close cooperation with the Arkansas Department of Economic Development, to help the state's colleges and universities compete for federal funds. ARMF funds have been targeted to the research and support areas identified in the 1996 Arkansas R&D Plan. The areas that are important to the state's economic future include (1) Advanced Materials, (2) Agriculture, Food and Life Sciences, (3) Biotechnology and Bioengineering (4) Environment, (5) Manufacturing Systems, and (6) Transportation and Logistics and the two support areas of (1) Human Resources and Communications and (2) Information Technology.

As you can see from the seven goals and the associated activities, the Authority explored significant opportunities for Arkansas during fiscal year 2001. The remainder of this report highlights specific investments and shows how researchers, universities and enterprises are able to strengthen Arkansas' economy through basic and applied research grants, technology development, manufacturing extension and technology transfer assistance, and seed capital investments.

With your ongoing support, the Authority will continue to meet the challenges of the new economy and efficiently and effectively carry out its mission. We are proud of our achievements and thank you for the opportunity to serve our state. We appreciate your support of the Arkansas Science & Technology Authority.

Sincerely,
 Joel E. Anderson, Ph.D., Chair Board of Directors
 John W. Ahlen, Ph.D., President

RESEARCH

- [Applied Research Grant Program](#)
- [Basic Research Grant Program](#)
- [Arkansas Research Matching Fund](#)

Applied Research Grant Program

Purpose:

The Program provides incentives to Arkansas industry to participate in applied research. A goal is to encourage investment by industry in the transfer of science and technology from Arkansas colleges and universities.

Program Description:

The Authority's Applied Research Grant Program is a (50:50) cash-matching effort to support applied research in science and engineering. (A match of \$2 from the state is available for every \$1 from an Arkansas business with 50 or fewer employees.) The goal of the Applied Research Grant Program is to stimulate the transfer of science and technology in Arkansas by enhancing opportunities for research partnerships between Arkansas colleges and universities and private industries.

Awards:

The Board approved six Applied Research projects for FY01, representing a total investment of \$211,886. Private industry match totaled \$232,346.

Proposal	Institution		Project Title		Amount
	P.I.	Co-Sponsor		Match	
01-A-01	ASUJ		* Cotton Duck Elastomeric Pad Study		\$66,896.00

	Parsons	Garlock Rubber Technologies		\$42,356.00	
01-A-02	UAF		The Acxiom Cluster Test Bed		
	Apon				\$45,000.00
		Acxiom Corporation		\$45,000.00	
01-A-04	UALR		Script, Semi-Script, and Feature based HTML Document Filtering		\$67,590.00
	Hashemi			\$67,590.00	
01-A-05	UALR	Acxiom Corporation	** Acxiom Data Engineering Laboratory (ADEL)		\$0.00
	Chan			\$45,000.00	
		Acxiom Corporation			
01-A-08	UAF		Development of Common-Mode Chokes and Transformers		\$25,000.00
	Balda			\$25,000.00	
		Baldor Motors & Drives			
01-A-09	UALR		Structured and Semi-structured Data Extraction from HTML Documents		\$7,400.00
	Bayrak			\$7,400.00	
		Acxiom Corporation			
			Subtotal:	\$232,346.00	
			Subtotal:		\$211,886.00
			Total:		\$444,232.00

* One-half of the funds awarded amount will be returned to the Authority's MEP by NIST upon completion of project.

* Board has approved this project, with funds provided by Acxiom Corporation.

Arkansas Research Matching Fund

Purpose:

To raise the national ranking of Arkansas' research performance and to be competitive in our economic and educational endeavors by investing in research and research infrastructure.

Program Description:

The Authority's Arkansas Research Matching Fund provides state funds to match federal awards for research and research equipment. The goal of the Arkansas Research Matching Fund is to improve the state's federal research and development ranking by investing in research infrastructure. The Arkansas Research Matching Fund administers the state's cost sharing match responsibilities that were previously made through the EPSCoR program.

Awards:

The Board approved nine Arkansas Research Matching Fund projects for FY01, representing a total investment of \$2,077,569.00. Co-Sponsorship funding totaled \$7,187,044.00.

Proposal	Institution	Project Title	Amount
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	P.I.	Co-Sponsor		Match	
00-ARMF-01	UAMS Owens	NSF	Molecular and Biological Engineering of Plant-derived Antibodies		\$317,858.00
				\$487,858.00	
00-ARMF-02	UAF Hehr	NSF	* Arkansas EPSCoR Cooperative Agreement		\$1,000,000.00
				\$3,000,000.00	
00-ARMF-03	UAF Schaper	NSF	IGERT Formal Proposal: A New Era in Electronics Education		\$55,287.00
				\$1,260,531.00	
00-ARMF-05	UAMS Kennedy		Developing Competitive Environmental Research in Arkansas		\$250,000.00
00-ARMF-06	UAF Wilkins	EPA	Establishment of a Center for Advanced Sensing Technology	\$500,000.00	\$206,517.00
		NSF		\$499,993.00	
00-ARMF-08	UAF Malshe	NSF	Science and Engineering Research Center (SERC) for Durable Miniaturized Systems		\$91,657.00
				\$749,302.00	
00-ARMF-13	UAF Salamo	ARO	* Nanostructures for Normal Incident Uncooled Infrared Detectors	\$318,356.00	\$44,539.00
00-ARMF-14	UAF Vyas	ONR	* Coherence and Noise Properties of Microcavity Lasers	\$114,754.00	\$17,961.00
00-ARMF-16	UALR Hudson	ONR	* Arkansas Space Grant Consortium	\$114,754.00	<u>\$93,750.00</u>
		NASA		\$256,250.00	
			Subtotal:	\$7,187,044.00	
			Subtotal:		\$2,077,569.00
			Total:		\$9,264,613.00

* Funds from sources other than the Arkansas Research Matching Fund.

Basic Research Grant Program

Purpose:

The Program encourages, establishes and supports basic research in science and engineering at Arkansas colleges and universities.

Program Description:

The Authority's Basic Research Grant Program is a competitive, (60 percent state: 40 percent institution) matching grant effort to support basic research in science and engineering. The goals of the Basic Research Grant Program are to promote and support the growth and development of Arkansas scientists and to enhance the status of science and engineering in Arkansas colleges and universities.

Awards:

The Board approved 14 Basic Research projects for FY01, representing a total investment of \$619,988.

Proposal	Institution	Project Title	Amount
01-B-03	<u>P.I.</u> UAMS	Immunotherapy and immunologic mechanisms underlying resolution of warts using intralesional skin test antigens	\$38,100.00
01-B-04	<u>Johnson</u> ASUJ	New and Improved Methods for Measuring Disinfectants and Disinfection By-Products in Drinking Water	\$43,126.00
01-B-08	<u>Emmert</u> UAF	Object-Oriented Simulation of Supply Chain Networks	\$41,889.00
01-B-11	<u>Rossetti</u> UAMS	Molecular Classification of Chronic Lymphocytic Leukemia by Gene Expression Profiling	\$50,400.00
01-B-16	<u>Schichman</u> UALR	Acquisition of an HPLC System for Plant Science Research	\$52,844.00
01-B-18	<u>Grace</u> UAF	Subsurface Sensing of Objects Buried in Randomly Rough Multilayered Soil Using Electromagnetic Wave Scattering	\$42,917.00
01-B-20	<u>El-Shenawee</u> ASUJ	Monte Carlo Study of Relativistic Nuclear Reactions	\$32,017.00
01-B-23	<u>Zhang</u> UAMS	HPV-Specific T Cell Responses in Head and Neck Cancer Patients	\$61,401.00
01-B-27	<u>Hanna</u> UAF	A Photoneuroendocrine Circuit Regulating Reproductive Development and Function	\$51,052.00
01-B-29	Kuenzel UALR	Molecular and genomic identification of transfer cell specific genes	\$62,684.00
01-B-31	<u>Wang</u> UALR	An Investigation Into the Contributions from the Passive and Active Mechanisms of Postural Stabilization in the Human Body	\$40,962.00
01-B-32	<u>Iqbal</u> UALR	Host Resistance Against Aphis gossypii (Cotton-Melon Aphid): A Source for Engineered Aphid Resistance in Cotton	\$54,220.00
01-B-33	<u>Thompson</u> UCA	Neural mechanisms of navigation	\$28,305.00
01-B-37	<u>Murray</u> UAF	CRITICAL POINTS OF THE LEGENDRIAN ENERGY	
	<u>Capogna</u>		\$20,071.00
Total:			\$619,988.00

Institutions: UAF, [University of Arkansas, Fayetteville](#); UALR, [University of Arkansas at Little Rock](#); UAMS, [University of Arkansas for Medical Sciences](#); and ASUJ, [Arkansas State University-Jonesboro](#).

Co-Sponsors: ARO, [Army Research Office](#); EPA, [Environmental Protection Agency](#); NIH, [National Institutes of Health](#); NSF, [National Science Foundation](#); NASA, [National Aeronautics Space Administration](#); ONR, [Office of Naval Research](#).

P.I.: Principal Investigator.

TECHNOLOGY

[Technology Transfer Assistance Grant Program](#) [Arkansas Manufacturing Extension Network](#)

Technology Transfer Assistance Grant Program

Purpose:

The Technology Transfer Assistance Grant Program (TTAG) assists Arkansas' enterprises in developing or improving products or processes through the transfer of technical solutions to technology-based, industry-driven problems, thus enhancing that enterprise's market competitiveness.

Program Description:

The Authority provides limited financial support for the transfer and deployment of innovative technology. The Authority will fund up to \$3,750 of costs associated with transferring new or existing technology from a qualified applicant -- such as a public or private enterprise, laboratory, college or university -- to an enterprise based in Arkansas. Up to \$5,000 of total project costs will be considered, with the first \$2,500 funded by the Authority; the remaining \$2,500 is cost-shared equally (50:50) between the Authority and the enterprise. Each enterprise is eligible to receive assistance for two technology transfer projects per year. Projects are evaluated on a competitive basis.

Awards:

The Authority's Board of Directors authorized TTAG projects totaling \$112,453 through TTAG to help clients solve technical problems. The private sector invested an additional \$43,616 in these solutions. These investments assisted 33 separate companies, located in 10 counties representing the following Standard Industrial Classification (SIC) groups:

SIC Grouping	Number
Chemical and Allied Products	1
Commercial Physical and Biology Research	2
Commercial Printing	1
Computer Related Services	1
Direct Selling Establishments	1
Eating Places	1
Electrical Industrial Apparatus	1
Electric Lamps	1
Electronic Components	1
Electronic Computers	1
Employment Agencies	1
Fabricated Textile Products	2
Farm Machinery and Equipment	1
General Contractors, Single Family Houses	1
Hand and Edge Tools	1
Industrial Machinery	1

Industrial Trucks and Tractors	1
Livestock	1
Management Consulting Services	2
Metalworking Machinery	1
Non-Commercial Research Organizations	1
Prepackaged Software	1
Radio, TV, Publisher Representatives	1
Real Estate Agents and Managers	1
Roasted Coffee	1
Scales and Balances, Exc. Laboratory	1
Structural Wood Members	1
Surgical Appliances and Supplies	1
Turbine and Turbine Generator Sets	2
Total:	33

Client Company Profile

Average Number of Employees	7.65
Average Year of Corporation Founded	1992
Most Active Counties	Pulaski (13) Washington (7)
Average Authority Investment	\$3,407.67
Average Client Investment	\$1,321.70

Services Rendered

	Number
Business Systems/Business Management	2
CAD/CAM/CAE	1
E-Commerce	13
Market Development	6
Material Engineering	1
Product Development and Design	3
Quality/Inspection	1
Small Business Innovation Research Assistance	6
Total:	33

Arkansas Manufacturing Extension Network

Purpose:

The Arkansas Manufacturing Extension Network (Network) is designed to improve Arkansas' manufacturing and industrial competitiveness through the delivery of comprehensive technical and business assistance services.

Network Description:

The Network is an affiliate of the National Institute of Standards and Technology Manufacturing Extension Partnership and is in year four of a six-year effort. It strives to improve the quality, productivity and global competitiveness of Arkansas' small and medium-sized manufacturers by providing technical and business management assistance services.

The Network's primary partners are: the Arkansas Department of Economic Development; the Arkansas Center for Technology Transfer at the University of Arkansas, Fayetteville; the Center for Competitive Manufacturing at Southern Arkansas University Tech, Camden; the Center for Economic Development at Arkansas State University, Jonesboro; the College of Science and Engineering Technology at the University of Arkansas at Little Rock; the Center for Economic Development at Henderson State University, Arkadelphia; and Winrock International, Morrilton.

Ten field engineers deliver services to manufacturers. Typical services include engineering and environmental assessments, as well as quality management systems implementation, cost/benefit analysis, information transfer and resource partnering.

Awards:

The Authority's Board of Directors authorized 57 Network TTAG projects totaling \$193,728 through Network TTAGs to help clients solve technical problems. The private sector invested an additional \$70,750 in these solutions. These investments assisted 56 separate companies, located in 17 counties representing the following 41 Standard Industrial Classification (SIC) groups:

SIC Grouping	Number
Advertising agencies	1
Adhesives and Sealants	1
Automotive and Apparel Trimmings	1
Automotive services	1
Blowers and Fans	1
Business Services	1
Commercial Lighting Equipment	1
Construction Machinery	1
Corrugated and Solid Fiber Boxes	1
Crushed and broken granite	1
Electrical Work	1
Electronic Components	2
Fish hatcheries and preserves	1
Furniture and Fixtures	2
Hand and Edge Tools	2
Hardware	1
Hardwood Veneer and Plywood	1
Household appliances	1
Insurance agents, brokers, & service	1
Metal Heat Treating	2
Metalworking Machinery	1
Millwork	3
Oil and Gas Field Services	1
Plastics Materials and Resins	1
Primary Copper	1
Refrigeration and Heating Equipment	1
Residential Care	1
Re-upholstery and furniture repair	1
Sanitary Paper Products	1
Service establishment equipment	1
Sheet Metal Work	1
Special Industry Machinery	1
Structural Wood Members	3
Sub-dividers and developers	1
Testing Laboratory	2
Top & body repair & paint shops	1
Unsupported Plastics Profile Shapes	1
Wood Household Furniture	4
Wood Kitchen Cabinets	2
Wood Partitions and Fixtures	1
Wood Products	4
Total:	57

Client Company Profile

Average Number of Employees	134
Average Year of Corporation Founded	1960
Most Active Counties	Pulaski (12) Sebastian (11)
Average Authority Investment	\$3,459.43
Average Client Investment	\$1,263.39

Services Rendered

Business Management	6
Business Systems	1
CAD/CAM/CAE	2
E-Commerce	2
Environmental	9
Human Resources	1
Market Development	12
Material Engineering	2
Plant Layout	2
Product Development	1
Process Improvement	3
Process	2
Quality	14
Total:	57

Awards:

In FY01, the Board approved funding in the amount of \$1,210,000 for FY01 to support 10 field engineers: four at the University of Arkansas, Fayetteville; two at the University of Arkansas at Little Rock; one at Arkansas State University; one at Southern Arkansas University Tech; one at Henderson State University; and one at Winrock International.

The following improvements were reported by clients during the NIST MEP Survey of Network projects completed from April 1999-March 2000: increased sales of \$5.3 million, retained sales of \$9.9 million, and cost reductions (labor and material) of \$1.8 million. In addition, they reported 682 jobs created and retained and \$7.8 million in increased investments.

In FY01, Network field engineers completed 53 Network projects less than 8 hours and 220 projects greater than 8 hours in the following manufacturing Standard Industrial Classification (SIC) groups.

SIC Grouping	Number
Apparel and Other Textile Products	2
Chemicals and Allied Products	10
Electronic and Other Electrical Equipment	32
Fabricated Metal Products	18
Food and Kindred Products	3
Furniture and Fixtures	4
Industrial Machinery	38
Instruments and Related Products	11
Lumber and Wood Products	20
Miscellaneous Manufacturing	4
Paper and Allied Products	14
Primary Metal Products	6
Printing and Publishing	1

Rubber and Miscellaneous Plastic Products	17
Stone, Clay, Glass and Concrete Products	3
Textile Mill Products	2
Transportation Equipment	35
Total:	220

Services Rendered	
Business Systems/Business Management	16
CAD/CAM/CAE	1
EDI/Communications/LAN	1
Environmental	27
General	2
Human Resources	3
Plant Layout/Manufacturing Cells	13
Process Improvement	137
Product Development and Design	5
Quality	15
Total:	220

DEVELOPMENT

[Seed Capital Investment Program](#) [Technology Development Program](#)

Seed Capital Investment Program

Purpose:

The Seed Capital Investment Program (SCIP) fosters the development of innovative technology-based businesses and projects that will stimulate economic growth and industrial competitiveness in Arkansas.

Program Description:

The Program assists in the initial capitalization or expansion of Arkansas-based businesses undertaking projects that are science or technology based and have a commercial or job creation potential. Each dollar invested by SCIP is leveraged by three dollars in matching funds from other sources. SCIP is limited to working capital and does not finance fixed assets.

Investment:

The Board approved three SCIP investments in FY01 for a total of \$1.3 million.

Proposal	Company	Description	Funds Approved	Amount Dispersed
01-SCIP-01	MedEvolve Inc.	Provide On-Line Physicians Practice Management Information System	\$400,000.00	\$400,000.00
01-SCIP-05	Integral Wave Technologies	Thin film passive computer components	\$500,000.00	\$250,000.00
01-SCIP-06	Art-Exchange.com	Provide on-line services to the art buyer and seller	<u>\$400,000.00</u>	* <u>\$0.00</u>

Total: \$1,300,000.00 \$650,000.00

* Approved but in negotiation at close of FY01.

Technology Development Program

Purpose:

The Technology Development Program (TDP) provides assistance in the development and commercialization of new technology-based products and processes through innovative technology development projects.

Program Description:

The Program may provide monies to qualified applicants if their proposed project possesses a well-defined and comprehensive project plan and promotes the purpose of the Authority. The maximum award is limited by law to \$50,000. Awards are considered investments with terms negotiated on a case-by-case basis with a maximum 5 percent royalty on net sales for a maximum period of 10 years.

Investments:

The Board approved one (TDP) investment of \$50,000 in FY01.

Proposal	Awardee	Description	Funds Approved
00-TDP-08	UAF/ Darin Nutter	Development of a New Commercially Viable 4-Way Refrigerant Reversing Valve	<u>\$50,000.00</u>
Total:			\$50,000.00

FINANCIALS

	Gen. Revenue	Appropriation		Y-T-D		Percentage
App/All	Character	Balances	Budget	Expense	Balance	of Budget
678/01	REGULAR SAL	488,231	456,358	453,325.87	3,032.13	99.34
	EXTRA HELP	12,000	12,000	9,266.46	2,733.64	77.22
	M & O	144,204	144,204	130,0433.95	13,770.05	90.45
	FRINGE	125,952	119,507	116,698.70	2,808.30	97.65
	RESEARCH	900,000	881,488	881,487.91	0.09	100.00
	CONFERENCE	27,223	17,223	16,191.71	1,031.29	94.01
	PROF FEES	16,800	11,000	7,548.41	3,451.59	68.62
	CAPITAL OUTLAY	17,000	4,250	3,701.43	548.57	87.09
	M&R		604.50	358.29	246.21	
	TECH DEV	375,000	164,978	164,978.00	0.00	100.00

	TOTAL ACT271 of 1999.	2,106,410	1,811,613	1,783,990.73	27,621.77	98.48
	Cash	Appropriation		Y-T-D		Percentage
App/All	Character	Balances	Budget	Expense	Balance	of Budget
A87/01	SEED CAPITAL	1,900,000	1,900,000	1,054,079.45	845,920.55	55.48
B16/02	NETWORK/ENERGY	60,366	0	0.00	0.00	0.00
B16/01	TECH DEV/ENERGY	147,126	0	0.00	0.00	0.00
	MEP Federal	Appropriation		Y-T-D		Percentage
App/All	Character	Balances	Budget	Expense	Balance	of Budget
919/02	REGULAR SAL	258,688	245,260	89,551.90	155,708.10	36.51
	M & O	357,587	101,357	64,356.74	37,000.26	63.50
	FRINGE	65,183	61,452	33,528.52	27,923.48	54.56
	GRANTS	272,502	200,000	199,928.00	72.00	99.96
	CONF FEES	64,383	37,928	19,783.22	18,144.78	52.16
	PROF FEES	4,281	4,281	0.00	4,281.00	0.00
	CAPITAL OUTLAY	40,920	36,250	5,875.00	30,375.00	16.21
	FIELD SERVICES	935,292	935,292	531,510.00	403,782.00	56.83
	MISC FEES	544,770	50,000	0.00	50,000.00	0.00
	TOTAL	2,543,606	1,671,820	944,533.38	727,286.62	
	Re-Appropriation	Appropriation		Y-T-D		Percentage
App/All	Character	Balances	Budget	Expense	Balance	of Budget
960/46	NETWORK	600,000	600,000	600,000	0.00	100.00
964/46	EPSCoR	1,000,000	1,000,000	1,000,000	0.00	100.00
961/46	NETWORK ENHANCEMENT	500,000	500,000	68,896	431,104.00	13.78
965/04	VIE PILOT PROJECT	35,000	6,893	0	6,893.31	0.00
	TOTAL ACT 155 OF 1999	2,135,000	2,106,893	1,668,896	437,997	
	Gen. Improvement	Appropriation		Y-T-D		Percentage
App/All	Character	Balances	Budget	Expense	Balance	of Budget
564/46	NETWORK	600,000	0	0	0.00	0.00

565/04	GRANTS/NASA	187,500	0	0	0.00	0.00
563/04	EPSCoR	1,000,000	0	0	0.00	0.00
566/46	ADVENTURES EXCELL	500,000	0	0	0.00	0.00
	TOTAL ACT 821 OF 1999	2,287,500	0	0	0	
	Gen. Improvement	Appropriation		Y-T-D		Percentage
App/All	Character	Balances	Budget	Expense	Balance	of Budget
749/04	FEDERAL RESEARCH	10,000,000	921,319	921,319	0.00	100.00
	TOTAL ACT 1207 OF 1999	10,000,000	0	0	0	
3JK/04	ASTA GRANT MATCHING	156,250	156,250	156,250	0.00	100.00

BOARD OF DIRECTORS

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University of Arkansas at Little Rock
Term Expires 2002

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Term Expires 2002

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Term Expires 2003

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University of Arkansas at Little Rock
Term Expires 2003

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