



ARKANSAS SCIENCE & TECHNOLOGY AUTHORITY

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**MINUTES OF THE 52ND MEETING OF THE
ARKANSAS SCIENCE & TECHNOLOGY AUTHORITY
BOARD OF DIRECTORS
LITTLE ROCK, ARKANSAS
MAY 15, 1992**

CALL TO ORDER

The meeting was called to order at 1:40 p.m. by Dr. William Willingham, Chairman of the Board, in the Bob Lamb Conference Center of the Arkansas State Chamber of Commerce.

A quorum of Board members were present and included: Mr. William Bridgeforth, Dr. James Hendren, Mr. James Kelley, Mr. H.T. Moore, Dr. Don Pederson, Dr. Phillip Rayford, Mr. John Troutt, and Mr. Jerry Webster.

Staff members present included: Melissa Adams, Jim Benham, Joe Gentry, Al Grijalva, Jacqui Klodt, Chuck Myers, Joyce Sadler and Ed Sartain.

APPROVAL OF MINUTES

Dr. Willingham presented the minutes from the March 27, 1992 Board meeting for approval. Mr. Troutt made a motion for the approval of the minutes. Dr. Hendren seconded the motion; the Board gave its unanimous approval.

PRESIDENT'S REPORT

In the absence of Dr. Ahlen, who was attending a Governor's cabinet meeting, Chuck Myers gave the president's report. Mr. Myers brought to the Board's attention the Authority Report that had been prepared by the staff. Mr. Myers pointed out that since the Authority has not been able to hire a communications manager because of the hiring freeze, the staff put together a scaled down version of the Authority newsletter for the Board's information.

Mr. Myers pointed out that ASTA has taken its deferment of \$430,682. This puts ASTA's operating budget at \$1,066,657. The program summary lists all of ASTA's programs and funding to date. Mr. Myers stated that the staff will use this format to keep the Board updated on ASTA activities.

Mr. Myers pointed out two letters for the Board's information. A letter from Governor Clinton concerning the EPSCoR match, and a letter from one of the recipients of the DOE/EPSCoR traineeship.

Mr. Myers stated that Jim Benham and Jacqui Klodt would attend the Arkansas Bankers Association meeting in Hot Springs and had put together a computer slide presentation. The Board was invited to view the presentation after the meeting.

INVESTMENT COMMITTEE

Mr. Moore called the Board's attention to the Investment Fund Report for the quarter ending March 31, 1992 and the FY92 General Fund Expenditure Report for the quarter ending March 31, 1992. There being no questions concerning the reports, Mr. Moore made a motion for the approval of the reports. Dr. Hendren seconded the motion; the Board gave its unanimous approval.

RESEARCH COMMITTEE

Dr. Pederson reported that the Research Committee met on May 6, 1992 and recommended for the Board's approval the following resolutions:

Draft Resolution 92-11 provides for the funding of two basic research proposals:

PROPOSAL NO. 93-B-02, "Disturbance Reduction Via Fuzzy Logic Control," by Dr. Terry W. Martin of the University of Arkansas, Fayetteville in the amount not to exceed \$33,869.00.

PROPOSAL NO. 93-B-06, "Reducing Large Training Sets for Neural Networks," by Dr. Susan Mengel of the University of Arkansas, Fayetteville, in the amount not to exceed \$30,997.00.

Dr. Pederson made a motion to approve Draft Resolution 92-11. Mr. Troutt seconded the motion. Dr. Pederson stated that UAF was the institution of his affiliation. The Board gave its unanimous approval.

Draft Resolution 92-12 provides for the funding of three basic research proposals:

PROPOSAL NO. 93-B-03, "Metabolism of Off-Flavor Chemicals in Catfish," by Dr. Daniel Schlenk of the University of Arkansas for Medical Sciences, in the amount not to exceed \$22,080.00.

PROPOSAL NO. 93-B-18, "Synthesis and Uses of Photoactive Anti-viral Nucleoside Drugs," by Dr. Richard R. Drake of the University of Arkansas for Medical Sciences, in the amount not to exceed \$29,172.00.

PROPOSAL NO. 93-B-23, "Studies of Larval Serum Protein Expression for Mosquito Control," by Dr. Helen Benes of the University of Arkansas for Medical Sciences, in the amount not to exceed \$37,315.

Dr. Pederson made a motion to approve Draft Resolution 92-12. Dr. Hendren seconded the motion. Dr. Rayford stated that UAMS was the institution of his affiliation. The Board gave its unanimous approval.

Draft Resolution 92-13 provides for the funding of one applied research proposal:

PROPOSAL NO. 93-A-02, "Understanding and Improving the Efficiency of Foliar Feeding Cotton with Potassium Nitrate to Improve Lint Yield and Quality," by Dr. Derrick M. Oosterhuis of the University of Arkansas, Fayetteville, in the amount not to exceed \$17,500.00. This project is cosponsored by the Alzheimer Foundation, in the amount of \$17,500.00.

Dr. Pederson made a motion to approve Draft Resolution 92-13. Mr. Bridgeforth seconded the motion. Dr. Pederson stated that UAF was the institution of his affiliation. The Board gave its unanimous approval.

Draft Resolution 92-14 provides for the funding of six Department of Energy/EPSCoR traineeships for graduate students. Dr. Pederson stated that traineeships were being funded by the Department of Energy and by ASTA with monies received from an oil overcharge funds. The proposals are:

PROPOSAL NO. 93-EB-19, "Process for Extracting Ethanol for Direct Blending into Gasoline with Recycle of the Fermentation Broth," by Mr. Sam F. Heintz, grant recipient, and Dr. Jim L. Turpin of the University of Arkansas, Fayetteville, in the amount not to exceed \$12,500.00; and

PROPOSAL NO. 93-EB-20, "The Harmonic Impact of Photovoltaic Inverter Systems Used for Bulk Power Generation in Electric Power Systems," by Mr. David G. Daniels, grant recipient, and Dr. Kraig J. Olejniczak of the University of Arkansas, Fayetteville, in the amount no to exceed \$12,500.00; and

PROPOSAL NO. 93-EB-22, "Optical Characterization of Diamond Films for Superconductor MCS's," by Ms. Diane Bootz, grant recipient, and Dr. Min Xiao of the University of Arkansas, Fayetteville, in the amount not to exceed \$12,500.00; and

PROPOSAL NO. 93-EB-23, "Study of Fluorinated Hydrogenated Amorphous Germanium Carbon (a-GeCx:H,F) Alloy for High Efficiency Multijunction Solar Cells," by Mr. Paul R. Moffitt, grant recipient, and Dr. Simon S. Ang of the University of Arkansas, Fayetteville, in the amount not to exceed \$12,500.00; and

PROPOSAL NO. 93-EB-25, "Heat Transfer Characteristics of Solar Siding," by Ms. Melinda J. Palmer, grant recipient, and Dr. Rick J. Couvillion of the University of Arkansas, Fayetteville, in the amount not to exceed \$12,500.00; and

PROPOSAL NO. 93-EB-29, "Advancement of Electrostatic Separation Process for Dry Cleaning of Coal," by Ms. Gina A. Jones, grant recipient, and Dr. Malay K. Mazumder of the University of Arkansas at Little Rock, in the amount not to exceed \$12,500.00.

Dr. Pederson made a motion to approve Draft Resolution 92-14. Mr. Troutt seconded the motion. Dr. Pederson stated UAF was the institution of his affiliation. The Board gave its unanimous approval.

Draft Resolution 92-15 provides for the funding of one basic research grant proposal:

PROPOSAL NO. 93-B-24, "Administration and Outreach Program for Arkansas NSF/EPSCoR," by Dr. Karl David Straub of the VA Medical Center, through the University of Arkansas, Fayetteville, in the amount not to exceed \$90,362.00.

Dr. Pederson stated that this resolution will fund the state portion of the EPSCoR program that was awarded by NSF. NSF will provide \$90,362 of the statewide budget, with ASTA providing the state match. It has been agreed that the two campuses which receive money from this program, UAF and UAMS, will match the funds that will be awarded by NSF to their respective campuses. The Fayetteville campus has set aside the funds for its match. Dr. Rayford stated that UAMS intends to do the same.

Dr. Pederson stated that the Research Committee discussed this proposal at its last meeting. The Research Committee agreed that in the event that both campuses are able to match the nsf funds, the committee would recommend to the entire board that ASTA provide the statewide match.

OLD BUSINESS

Dr. Willingham stated that the resolutions to Mr. Bowen and Mr. Ramsay had been done. Mr. Troutt moved that the resolutions be passed. Dr. Hendren seconded the motion; the Board gave its unanimous approval.

NEW BUSINESS

If needed, an executive committee meeting will be held on July 17, 1992. Dr. Willingham stated that members of that committee would be contacted if it was decided it was necessary to have the meeting.

Dr. Willingham appointed H.T. Moore and John Troutt to the nominating committee. They will present their recommendations at the September 18, 1992 Board meeting.

Dr. Willingham appointed James Kelley and William Bridgeforth to the Board's Investment Committee.

The next Board of Directors meeting will be September 18, 1992.

Dr. Pederson announced that the Genesis Incubator was named the outstanding incubator of the year by the National Business Incubation Association (NBIA). Sam Pruettt from Genesis and Neil Schmitt will accept the award at the Association's annual meeting being held in Austin, Texas.

ADJOURNMENT

With no further business to conduct, the meeting was adjourned at 1:58 p.m.

Respectfully submitted,



 Jerry Webster
 Secretary
 Board of Directors

APPROVED by the Board of Directors
 on this 18th day of September, 1992



 Jerry Webster
 Secretary
 Board of Directors