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**MINUTES OF THE 149TH MEETING OF THE
ARKANSAS SCIENCE & TECHNOLOGY AUTHORITY
BOARD OF DIRECTORS
MARCH 18, 2011**

CALL TO ORDER

The meeting was called to order by Mr. Heartsill Ragon, III, Chairman of the Board, in the Bessie Moore Board Room, located in the 900 West Capitol Building in Little Rock.

A quorum of Board members was present and included: Mr. Bradford Caldwell (via phone), Mr. Gary Campbell, Dr. Cesar Compadre, Dr. Carl Frederickson, Dr. Collis Geren, Mr. Lawrence Graves, Mr. Joel Harrison, Dr. Beverly Lyn-Cook, Mr. Paul Mastro and Mr. George Williams.

Visitors: Miss Anna Massanelli.

APPROVAL OF MINUTES

Mr. Ragon presented the minutes from the January 21, 2011 Board meeting for approval. Dr. Geren made a motion for the approval of the minutes. Mr. Mastro seconded the motion; the Board gave its unanimous approval.

PRESIDENT'S REPORT

Dr. Blake Perry introduced new staff member, Marta Collier. Ms. Collier is the Educational Outreach Coordinator for the ASSET Initiative project.

Dr. Perry introduced Miss Anna Massanelli, who was shadowing Dr. Ahlen for the day as part of a class assignment. Miss Massanelli is an eighth grader at Dunbar Middle School in Little Rock.

FY11 Operating Report

Dr. Perry presented the FY11 Operating Report as of March 1, 2011. Dr. Geren moved acceptance of the Operating Report as presented. Mr. Harrison seconded the motion; the Board gave its unanimous approval.

FY11 Investment Update

Dr. Perry presented the FY11 Investment Update. The update was moved, seconded and approved by the Board.

Transition Update

Dr. Ahlen updated the Board about the coming transition plans. He stated that the Chairman is considering appointing a committee before the next Board meeting to help with issues relate to the transition. He asked if Board members were interested in serving in this capacity to contact him or Mr. Ragon.

Legislative Update

Dr. Ahlen briefed the Board on the Legislative session and what will impact the Authority.

INDUSTRY COMMITTEE REPORT

Mr. Mastro presented the Industry Committee Report.

AMS Projects from NIST CAR

AMS is currently working on two projects.

AMS is seeking certification in the Innovation Black Belt Program. This project is estimated to last 12 months.

The CAR project for NAICS Code Matching will involve AMS contacting clients from a list of "Hot Technologies" with appropriate NAICS codes.

Innovation Engineering Institute

The next Innovation Engineering Institute is scheduled for September 12-14, 2011.

As part of this effort, AMS proposes to enter into an agreement with the Eureka Ranch that would provide a speaking fee, in an amount not to exceed \$10,000, for Doug Hall.

The proposal was moved and seconded by the committee. The Board gave its unanimous approval.

The American Wind Energy Association conference is scheduled for March 24th.

NIST Funding Update

Right now, the 2011 federal funding for MEP is intact. The FY2012 funding proposal shows an increase, but that is not expected to stand.

PR Funding Request

MEP Centers have been approached about providing funds for a public relations effort that speaks to the proven value of the MEP system. Centers have been asked to contribute \$10,000 and to date 20 centers have committed to that amount. AMS staff proposes providing funds in two phases: \$5,000 immediately and \$5,000 after the staff has reviewed the entire PR program. The committee concurred with this proposal.

Advisory Committee Administrative Procedures

Mr. Mastro presented the revised Advisory Committee Administrative Procedures for approval. The revisions were moved and seconded by the committee. The Board gave its unanimous approval.

Solution Selling Affiliate Partner Agreement

AMS proposes to enter into a licensing agreement with NEPIRC, becoming an affiliate partner and having a staff member certified to deliver Solution Selling to clients. NEPIRC is the Sales Performance International (SPI) Solution National Account Manager for the MEP Network. Through NEPIRC's agreement with SPI, Arkansas Manufacturing Solutions would be able to market and sell the Solution Selling brand as an Authorized Affiliate Partner including the use of registered and trademark protected Solution Selling logos, sales marks, etc. NEPIRC will support AMS in its efforts become an authorized Affiliate Partner and have a certified instructor/facilitator on staff.

The one time affiliate partner fee is \$7,500. The request was moved and seconded by the committee. The Board gave its unanimous approval.

RESEARCH & COMMERCIALIZATION COMMITTEE REPORT

Mr. Gary Campbell presented the Research & Commercialization Committee report.

TTAG Activity Report

Mr. Campbell presented the TTAG Activity Report. The report was moved and seconded by the committee. The Board gave its unanimous approval.

Seed Capital Quarterly Report

Mr. Campbell presented the Seed Capital Quarterly Report. The report was moved and seconded by the committee. The Board gave its unanimous approval.

Draft Resolution 11-22

Draft Resolution 11-22 certifies 11 "In House Research by a Targeted Business Tax Credits" for the following projects:

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by Arkansas Power Electronics International, Inc. in the amount of \$1,120,212.76 in expenses eligible for \$369,670.21 in tax credits (AEDC Project No. 10323);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by BioDetection Instruments, LLC in the amount of \$186,146.67 in expenses eligible for \$61,428.40 in tax credits (AEDC Project No. 10300);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by BlueInGreen, LLC in the amount of \$128,333.31 in expenses eligible for \$42,349.99 in tax credits (AEDC Project No. 10545);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by First Orion Corp. in the amount of \$526,849.52 in expenses eligible for \$173,860.34 in tax credits (AEDC Project No. 10792);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by Minotaur Technologies, LLC in the amount of \$141,170.28 in expenses eligible for \$46,586.19 in tax credits (AEDC Project No. 11300);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by InvoTek, Inc. in the amount of \$233,415.00 in expenses eligible for \$77,026.95 in tax credits (AEDC Project No. 10541);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by Nutraceutical Innovations, LLC in the amount of \$81,941.92 in expenses eligible for \$27,040.83 in tax credits (AEDC Project No. 11569);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by SFC Fluidics, LLC in the amount of \$231,134.33 in expenses eligible for \$76,274.33 in tax credits (AEDC Project No. 10304);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by Vegrandis, LLC in the amount of \$104,212.94 in expenses eligible for \$34,390.27 in tax credits (AEDC Project No. 10302);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by Insight Ecosystems, LLC in the amount of \$221,262.00 in expenses eligible for \$73,016.46 in tax credits (AEDC Project No. 10324);

“Tax Credit for In House Research by a Targeted Business,” submitted for tax year 2010 by Merchant View, LLC in the amount of \$130,066.50 in expenses eligible for \$42,921.95 in tax credits (AEDC Project No. 10792);

Draft Resolution 11-22 was moved and seconded by the committee. The Board gave its unanimous approval.

Mr. Campbell updated the Board on ABFIT, which was approved for funding through the Seed Capital Investment program. During negotiations for their funding agreement, ABFIT came back to the Authority with a counter proposal. After review, the committee decided that they could not agree to their counter offer. ABFIT decided not to take the Authority's funding and the proposal was withdrawn.

SPONSORED PROJECTS COMMITTEE REPORT

Dr. Collis Geren presented the Sponsored Projects Committee Report.

Draft Resolution 11-23

Draft Resolution 11-23 would provide for the following grants:

Classroom Enhancement

11-STEM-CE01, "Look at This!!," submitted by Tracey Ball of Judsonia Elementary School, Judsonia, in an amount not to exceed \$2,000.00.

11-STEM-CE02, "Flip Out Over Science," submitted by Lisa Barber of Newark Elementary, Newark, in an amount not to exceed \$2,000.00.

11-STEM-CE03, "Mashing Up Jonesboro," submitted by Anita Belew of Nettleton Junior High School, Jonesboro, in an amount not to exceed \$1,976.00.

11-STEM-CE04, "Utilizing Analytical Probes in the Science Laboratory," submitted by Jonna Bradley of Smackover High School, Smackover, in an amount not to exceed \$1,920.39.

11-STEM-CE05, "Acceleration of Science," submitted by Tammy Bray of North Pulaski High School, Jacksonville, in an amount not to exceed \$2,000.00.

11-STEM-CE06, "Teaching with Technology," submitted by Karen Brewer of IZARD COUNTY CONSOLIDATED HIGH SCHOOL, BROCKWELL, in an amount not to exceed \$2,000.00.

11-STEM-CE07, "Microscopic Investigations and Comparisons of Plant and Animal Cells," submitted by Kathryn Brunetti of Hector Elementary School, Hector, in an amount not to exceed \$2,000.00.

11-STEM-CE08, "The Horror of Wrapping and Filling 3-D and Walking In Graphing Brought to Life," submitted by Donna Chastain of Smackover High School, Smackover, in an amount not to exceed \$2,000.00.

11-STEM-CE09, "PODCASTS: Promoting or Developing Connections for all Students in Technology & Science," submitted by Kelli Cochran of Nettleton Middle School, Jonesboro, in an amount not to exceed \$2,000.00.

11-STEM-CE10, "Robotics in the Real World," submitted by Karen Coomer of Piggott High School, Piggott, in an amount not to exceed \$2,000.00.

11-STEM-CE11, "Using Simulations to Power Understanding in Science," submitted by Melissa Cureton of Westside Consolidated High School, Jonesboro, in an amount not to exceed \$1,840.00.

11-STEM-CE12, "Enhancing Lab Activities with Technology," submitted by Dwight Daugherty of Cabot High School, Cabot, in an amount not to exceed \$2,000.00.

11-STEM-CE13, "Under Construction," submitted by Samantha Dooley of Alma Middle School, Alma, in an amount not to exceed \$2,000.00.

11-STEM-CE14, "Future Cell Challenge," submitted by Tina Foster of Cedar Ridge Jr. High School, Newark, in an amount not to exceed \$2,000.00.

11-STEM-CE15, "How's My Health & What Happened!!," submitted by Sylvia Grady of Southeast Middle School, Pine Bluff, in an amount not to exceed \$1,900.00.

11-STEM-CE16, "Gaming to Learn," submitted by Victoria Greene of Instructional Center, West Memphis, in an amount not to exceed \$2,000.00.

11-STEM-CE17, "Cultivating Gardens Growing Futures," submitted by Sharon Hamilton of Blytheville Charter/ALE High School, Blytheville, in an amount not to exceed \$2,000.00.

11-STEM-CE18, "Acceleration of Science," submitted by Craig Hammaker of North Pulaski High School, Jacksonville, in an amount not to exceed \$2,000.00.

11-STEM-CE19, "Motion In Action," submitted by Jackie Hill of North Pulaski, Jacksonville, in an amount not to exceed \$1,774.69.

11-STEM-CE20, "My Place in Space," submitted by Michele Ikenberry of Monticello Intermediate, Monticello, in an amount not to exceed \$2,000.00.

11-STEM-CE21, "It's in the Air," submitted by Janet Kanady of Dover Upper Middle School, Dover, in an amount not to exceed \$1,996.70.

11-STEM-CE22, "A Weighty Matter," submitted by Lynn Kelsh of Pinkston Middle School, Mountain Home, in an amount not to exceed \$2,000.00.

11-STEM-CE23, "The Electricity & Electronics Challenge," submitted by Lindsey King of Cedar Ridge Jr. High School, Newark, in an amount not to exceed \$2,000.00.

11-STEM-CE24, "Fair/Foe Weather Forecast!," submitted by Marla Kreider of Hellstern Middle School, Springdale, in an amount not to exceed \$2,000.00.

11-STEM-CE25, "Newton's Laws Inquiry: Math and Science in Action," submitted by Kim Krueger of Hellstern Middle School, Springdale, in an amount not to exceed \$2,000.00.

11-STEM-CE26, "Science Kits for inquiring minds," submitted by Velda Langley of Piggott Elementary, Piggott, in an amount not to exceed \$1,900.00.

11-STEM-CE27, "Labquest technology -Enhancing scientific and mathematical understanding," submitted by Tammie Lee of Hazen Middle School, Hazen, in an amount not to exceed \$2,000.00.

11-STEM-CE28, "'Growing Scientists'," submitted by Rebecca McGee of Kingsland Elementary School, Kingsland, in an amount not to exceed \$1,400.00.

11-STEM-CE29, "Solar Energy House," submitted by Jim Miller of Cedar Ridge High School, Newark, in an amount not to exceed \$2,000.00.

11-STEM-CE30, "Physical Follies," submitted by Holly Montgomery of Monticello Intermediate School, Monticello, in an amount not to exceed \$2,000.00.

11-STEM-CE31, "Forces & Motion - How are They Related?," submitted by Kathy Prislowsky of Stuttgart High School, Stuttgart, in an amount not to exceed \$2,000.00.

11-STEM-CE32, "Meteorology Comes Alive with Technology," submitted by Kathy Prophet of Hellstern Middle School, Springdale, in an amount not to exceed \$2,000.00.

11-STEM-CE33, "My students respond, and I monitor and adjust.," submitted by Dana Pyron of Smackover Elementary School, Smackover, in an amount not to exceed \$1,800.00.

11-STEM-CE34, "Under A Microscope," submitted by Leslie Ragan of Smackover Elementary, Smackover, in an amount not to exceed \$1,900.00.

11-STEM-CE35, "The changing Earth: Incorporating Physics, Biology, Environmental Science, and Ecology to understand the globe," submitted by Benjamin Schurhamer of Dumas Junior High School, Dumas, in an amount not to exceed \$1,900.00.

11-STEM-CE36, "EXCELLING WITH ROBOTICS," submitted by Nicole Shaffer of LAVACA MIDDLE SCHOOL, Lavaca, in an amount not to exceed \$2,000.00.

11-STEM-CE37, "Encouraging Cooperative Learning and Assessing Classroom Learning," submitted by Ronnie Simmons of Vilonia High School, Vilonia, in an amount not to exceed \$1,600.00.

11-STEM-CE38, "Digitally Investigating Science in the Microscopic World," submitted by Kristi Smith of Hellstern Middle School, Springdale, in an amount not to exceed \$2,000.00.

11-STEM-CE39, "Probing Students' Minds," submitted by Kolby Snellenberger of Russellville Middle School, Russellville, in an amount not to exceed \$2,000.00.

11-STEM-CE40, "'Quest' for Knowledge," submitted by Kelli Swaim of Melbourne Elementary School, Melbourne, in an amount not to exceed \$1,700.00.

11-STEM-CE41, "Podcasts: Listeners to Creators," submitted by Tiffany Taylor of Nettleton Middle School, Jonesboro, in an amount not to exceed \$2,000.00.

11-STEM-CE42, "Mashing Up Jonesboro," submitted by Sandra Taylor of Nettleton High School, Jonesboro, in an amount not to exceed \$1,855.00.

11-STEM-CE43, "Solar Homes," submitted by Gae Thornton of Smackover High School, Smackover, in an amount not to exceed \$2,000.00.

11-STEM-CE44, "Hot Springs Solar Vehicle Project," submitted by Michael Vincent of Hot Springs High School, Hot Springs, in an amount not to exceed \$1,900.00.

11-STEM-CE45, "Collecting and Analyzing Scientific Data with LabQuest," submitted by Greg Wertenberger of Bryant Middle School, Bryant, in an amount not to exceed \$2,000.00.

11-STEM-CE46, "Windows to the World around Us," submitted by Jeff Zachry of Smackover Schools, Smackover, in an amount not to exceed \$1,900.00.

Supplemental Mini-Grants

11-STEM-SM-01, "Let Your Science Project Explode with Knowledge!!," submitted by Glenita Anderson of Central Math and Science Magnet Elementary, Batesville, in an amount not to exceed \$600.00.

11-STEM-SM-02, "U of A Physics Day Competitions," submitted by Angie Bogle of Valley Springs High School, Valley Springs, in an amount not to exceed \$570.00.

11-STEM-SM-03, "Quiz Bowl Buzzer System," submitted by April Burroughs of Vilonia Jr. High, Vilonia, in an amount not to exceed \$600.00.

11-STEM-SM-04, "Physics is Phun," submitted by Chuck Campbell of Russellville High School, Russellville, in an amount not to exceed \$580.00.

11-STEM-SM-05, "Science Fair -- It's Not Just an Elementary Thing!," submitted by Jane Conley of Morrilton Intermediate School, Morrilton, in an amount not to exceed \$600.00.

11-STEM-SM-06, "Science Fair 2011," submitted by Anita Cook of Norfolk High School, Norfolk, in an amount not to exceed \$600.00.

11-STEM-SM-07, "BEST Robotics Competition, 2010," submitted by Doyle DeWoody of Lead Hill School, Lead Hill, in an amount not to exceed \$600.00.

11-STEM-SM-08, "Quiz Bowl Travel and Recognition," submitted by Michael Finch of Greene County Tech High School, Paragould, in an amount not to exceed \$600.00.

11-STEM-SM-09, "Alpena Pre-Collegiate Science Research Program," submitted by David Good of Alpena, Alpena, in an amount not to exceed \$600.00.

11-STEM-SM-10, "Science Survivor Style," submitted by Eva Griffin of Wilson Middle School, Wilson, in an amount not to exceed \$550.00.

11-STEM-SM-11, "Middle School Rocket Club," submitted by Karen Hankins of Bismarck Middle School, Bismarck, in an amount not to exceed \$600.00.

11-STEM-SM-12, "Mountain Home Junior High Quiz Bowl Team," submitted by Louise Hickey of Mountain Home Junior High, Mountain Home, in an amount not to exceed \$550.00.

11-STEM-SM-13, "2011 Quiz Bowl Competition," submitted by Michelle Gughes of Timbo Elementary, Timbo, in an amount not to exceed \$600.00.

11-STEM-SM-14, "BEST (Boosting Engineering Science and Technology) Robotics - Team Robot Building Competition - Poyen Robotics," submitted by Amanda Jones of Poyen High School, Poyen, in an amount not to exceed \$600.00.

11-STEM-SM-15, "BEST in East," submitted by Randy Lane of Alpena High School, Alpena, in an amount not to exceed \$600.00.

11-STEM-SM-16, "Calico Rock BEST Robotics Team," submitted by Mike Mason of Calico Rock High School, Calico Rock, in an amount not to exceed \$600.00.

11-STEM-SM-17, "eStem High Robotics Team: BEST Robotics Competition," submitted by Andrea Sadler of eStem High Public Charter School, Little Rock, in an amount not to exceed \$600.00.

11-STEM-SM-18, "Dumas Junior High Science Fair," submitted by Ben Schurhamer of Dumas Junior High School, Dumas, in an amount not to exceed \$600.00.

11-STEM-SM-19, "Offseason BEST Robotics," submitted by Nicholas Seward of ASMSA, Hot Springs, in an amount not to exceed \$600.00.

11-STEM-SM-20, "Quiz Bowl Buzzers Needed," submitted by Sally Stuart of Mayflower Elementary, Mayflower, in an amount not to exceed \$600.00.

11-STEM-SM-21, "Ricebird Robotics Team (BEST Robotics)," submitted by Jonathan Watson of Stuttgart High School, Stuttgart, in an amount not to exceed \$600.00.

11-STEM-SM-22, "Quizamania," submitted by Rhonda Williams of Thomas C. Brunson Elementary, Warren, in an amount not to exceed \$600.00.

Draft Resolution 11-23 was moved and seconded by the committee. The Board gave its unanimous approval.

NEW BUSINESS

Draft Resolution 11-24

Draft Resolution 11-24 would provide funding in an amount not to exceed \$1,000,000 for the Arkansas Research Alliance. Dr. Perry stated that this resolution was being presented as a result of a release of funds from the Governor's Office.

Dr. Frederickson made a motion for the approval of Draft Resolution 11-24. Dr. Geren seconded the motion; the Board gave its unanimous approval.

Draft Resolution 11-25

Draft Resolution 11-25 would provide funding for the following Center for Applied Technology:

“The Cyberinfrastructure Center of Arkansas,” 11-CAT-01, submitted by Amy Apon of the University of Arkansas, Fayetteville in an amount not to exceed \$465,460.

Mr. Mastro made a motion for the approval of Draft Resolution 11-25. Mr. Campbell seconded the motion; the Board gave its unanimous approval.

P3 Biotech-in-a-Box Education and Outreach Proposal

Board members reviewed a funding request, in the amount of \$25,000, for the P3 Biotech-in-a-Box Education and Outreach project.

The proposed project is a collaboration between the two P3 (Plant-Powered Production) campus centers located at Arkansas State University and University of Arkansas at Pine Bluff (UAPB). Funding provided by the AR NSF EPSCoR ASSET II Grant for Education and Outreach and Diversity will be used to 1) establish P3 Biotech in a Box (BTNB) program at ASU to UAPB; 2) mechanism to actively integrate underrepresented minority students into P3 which includes research opportunities internships; and 3) provide professional development training to certify STEM teachers for BTNB use in their classrooms. This project will serve as a pilot study to evaluate the undergraduate “science mentor” concept proposed and to provide feasibility data for expanding this mini-grant concept through Federal funding opportunities.

Dr. Frederickson made a motion for the approval of the proposal. Dr. Geren seconded the motion; the Board gave its unanimous approval.

GREEN Mobile-Laboratory on Wheels Education Outreach Proposal

Board members reviewed a proposal for the GREEN Mobile-Laboratory on Wheels Education Outreach.

The Authority’s ASSET II project will work with the Arkansas Center for Generating Renewable Energy with Efficient Nanoplasmonic Solar Cells (GREEN Center) to create the GREEN Mobile—Laboratory on Wheels (GREEN Mobile). Funding provided by the Arkansas Economic Development Commission’s (AEDC) Energy Efficiency Outreach (EEO) Grant will be received by the Authority who will in turn develop a cooperative agreement with the GREEN Center to 1) develop one solar-themed mobile laboratory on wheels; 2) equip the mobile laboratory with training materials and consumables to provide hands-on experience with solar technologies to Arkansans; 3) expose teachers, students and other interested parties to the science and concepts behind solar technologies they may encounter in the commercial market. This project will serve as a prototype for creating hands-on demonstration unit that can be physically moved around the state providing a high quality laboratory experience for many Arkansas schools that would not otherwise have access to these technologies.

The grant request will be \$163,000, which will help with acquiring the hardware needed for the GREEN mobile development phase.

After review, Dr. Frederickson made a motion that the Board concur with the submission of the proposal. Dr. Jones seconded the motion; the Board gave its unanimous approval.

Next Meeting Date

The next meeting is scheduled for May 20, 2011.

ADJOURNMENT

There being no further business to conduct, the meeting was adjourned.

Respectfully submitted,



Glen Jones, Jr., J.D.
Secretary
Board of Directors

Approved by the Board of Directors
on this 21st day of May, 2011.



Glen Jones, Jr., J.D.
Secretary
Board of Directors