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**MINUTES OF THE 169TH MEETING OF THE
ARKANSAS SCIENCE & TECHNOLOGY AUTHORITY
BOARD OF DIRECTORS
SEPTEMBER 19, 2014
LITTLE ROCK, AR**

CALL TO ORDER

The meeting was called to order by Dr. Cesar Compadre, Chair of the Board, in the large conference room of the Arkansas Science & Technology Authority.

Board members present: Mr. Bradford Caldwell, Mr. Gary Campbell, Dr. Carl Frederickson, Mr. Joel Harrison (via phone), Mr. John Miller, Mr. Michael Nauman, Mr. Heartsill Ragon, Dr. Jim Rankin, Dr. Robert Sproles, Dr. Andy Sustich and Mr. Rod Sweetman.

Staff members present: Dr. Tim Atkinson, Ms. Melissa Adams, Mr. Dan Curtis, Ms. Stephanie Johnson, Dr. Steve Stanley, Dr. Gail McClure, Ms. Julianne Gonzalez, Ms. Shirley Vanderslice, Mr. James Downs, Dr. Blake Perry, Ms. Jennifer Shelton and Mr. Chris Snider.

APPROVAL OF MINUTES

Dr. Compadre presented for approval the minutes from the July 25, 2014 Board meeting. Dr. Sustich made a motion to approve the minutes as presented. Mr. Nauman seconded the motion; the Board gave its unanimous approval.

PRESIDENT'S REPORT

Dr. Atkinson formally welcomed Dr. Jim Rankin to the Board. Dr. Rankin is the Vice Provost for Research and Economic Development at the University of Arkansas.

Dr. Atkinson also recognized Ms. Jennifer Shelton, who has filled the position of Vice President STEM Education. Ms. Shelton is currently working with the Arkansas Department of Education on broadband.

COMMERCIALIZATION COMMITTEE REPORT

Mr. Campbell presented the Commercialization Committee report.

Quarterly TTAG Report

Mr. Campbell presented the Quarterly TTAG 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.

INDUSTRY COMMITTEE REPORT

Dr. Robert Sproles presented the Industry Committee Report.

In August, AMS conducted an all day workshop that included members of the Industry Committee and advisory board. This was held on the heels of a staff retreat. A facilitator was brought in to help the committee and advisory board walk through how they could better help AMS and the staff achieve their goals. During the meeting, a template was developed on how to flesh out ideas on how to move forward.

Dan Curtis reported that the staff talked about a strategic direction for AMS. Some of the discussion centered on AMS' goals, vision and core values. Five goal areas were identified and will be further developed.

Dr. Sproles said that there were notes developed from the meeting and the staff would distribute them to the Board, if they were interested.

RESEARCH AND SPONSORED PROJECTS COMMITTEE REPORT

Dr. Frederickson presented the Research and Sponsored Projects Committee report.

The ASSET Track 1 submission has been completed and submitted to NSF. Dr. Frederickson commended Dr. McClure for her hard work on the proposal.

The ASSET annual meeting was held in September. Dr. McClure reported that the meeting was extremely productive. At the meeting, rooms were set up so that track 2 and track 3 participants could meet. There was a special session covering the topic of diversity, there was also a workshop on professional development and a report from the external advisory board. The report from the external advisory board was extremely positive.

Draft Resolution 15-05

Draft Resolution 15-05 would provide funding for the following proposal:

15-EPS2-0006 “The Position of the Educational Outreach Coordinator and Professional Development Supervisor”, submitted by University of Arkansas at Little Rock, in an amount not to exceed \$80,400. This award is effective September 19, 2014 through September 30, 2015.

Draft Resolution 15-05 was moved and seconded by the committee. The Board gave its unanimous approval.

Draft Resolution 15-06

Draft Resolution 15-06 would approve funding in an amount not to exceed \$96,000 to fund proposals approved for the ASSET Initiative Undergraduate Research Experience and Internship Program. It was pointed out that this funding proposal was being presented earlier than usual because the grant funding this initiative ends July 1, 2015 and all the research needs to be completed and final reports back to ASTA before the end of the grant.

Board members asked if there was any other money available to fund this program once the grant ends; the staff said they would look into that to see what could be found.

Draft Resolution 15-06 was moved and seconded by the committee. The Board gave its unanimous approval.

Draft Resolution 15-07

Draft Resolution 15-07 would provide funding for ASSET Initiative projects at the following five universities:

University of Arkansas, Fayetteville (Project No. 15-EPS2-0001) in support of personnel salaries/benefits, equipment, direct and indirect cost for the P3 Project, GREEN Project and the VICTER Project, in the amount of \$1,816,876.

University of Arkansas at Little Rock (Project No. 15-EPS2-0002) in support of personnel salaries/benefits, equipment, direct and indirect cost for the P3 Project, GREEN Project and the VICTER Project, in the amount of \$1,000,190.

Arkansas State University (Project No. 15-EPS2-0003) in support of personnel salaries/benefits, equipment, direct and indirect cost for the P3 Project, and the VICTER Project, in the amount of \$923,604.

University of Arkansas at Pine Bluff (Project No. 15-EPS2-0004) in support of personnel salaries/benefits, equipment, direct and indirect cost for the P3 Project, GREEN project and the VICTER Project, in the amount of \$184,902.

University of Central Arkansas (Project No. 15-EPS2-0005) in support of personnel salaries/benefits, equipment, direct and indirect cost for the P3 Project, in the amount of \$74,428.

Draft Resolution 15-07 was moved and seconded by the committee. The Board gave its unanimous approval.

FY2015 Science Advisory Committee Nominations

The FY2015 nominations for the Science Advisory committee were presented.

Nominees & Year of Appointment	Alternates
Dr. Thomas J. Flammang (FY15) National Center for Toxicological Research (Representative from federal research laboratories)	Dr. Bradley Schnackenberg National Center for Toxicological Research
Dr. Bobby McGehee (FY15) University of Arkansas for Medical Sciences (Representative from UAMS)	Dr. Lee Ann McMillan-Crow University of Arkansas for Medical Sciences
Paula Casey (FY15) Interim Vice Provost for Research (FY14) University of Arkansas at Little Rock (Representative from UALR)	Dr. Abhijit Bhattacharyya University of Arkansas at Little Rock
Dr. Andy Sustich (FY15) Arkansas State University (Representative from ASU)	Dr. John Pratte Arkansas State University
Dr. Mary Benjamin (FY15) University of Arkansas at Pine Bluff (Representative from UAPB)	Dr. Anissa Buckner University of Arkansas at Pine Bluff
Dr. James Rankin (FY15) University of Arkansas, Fayetteville (Representative from UAF)	Dr. Cynthia Sagers University of Arkansas, Fayetteville
Dr. Stephen R. Addison (FY15) University of Central Arkansas (Representative from 4-year colleges)	Dr. Pat Desrochers University of Central Arkansas
Dr. Phil Tappe (FY15) University of Arkansas - Monticello (Representative from 4-year colleges)	Vacant

Dr. Tim Atkinson (FY15) Arkansas Science & Technology Authority (Representative from the Authority)	Dr. Blake Perry Arkansas Science & Technology Authority
John Chamberlin (FY15) Chamberlin Research (Industry representative)	Dr. James Hendren
Dr. George Ransford (FY15) Evonik Foams, Inc. (Industry representative)	Vacant
Dr. Robyn Goforth (FY15) Virtual Incubation Company (Industry representative)	Dr. Calvin Goforth Virtual Incubation Company
Sarah Ross (FY15) Georgia- Pacific LLC (Industry representative)	Vacant

The nominations were moved and seconded by the committee. The Board gave its unanimous approval.

ASSET Track 2 Subawards

The budget for the ASSET Track 2 project provides year one sub awards for the following investigators:

- Dr. Argelia Lorence (Arkansas State University), in the amount of \$417,340.
- Dr. Fiona Goggin (University of Arkansas), in the amount of \$389,799.
- Dr. Jessie Walker (University of Arkansas at Pine Bluff), in the amount of \$54,782.

Dr. Frederickson stated that the award also provides funds in the Authority's budget for management of the grant and is included in the approval request.

The committee moved and seconded the approval of the year one sub awards. The Board gave its unanimous approval.

NEW BUSINESS

Draft Resolution 15-08

Draft Resolution 15-08 would reauthorize the investment originally approved in Resolution 14-23, using fiscal year 2015 funding sources and providing an additional 90 days to complete the investment agreement for the following project:

Application No. 14-TDP-05, "Develop Clinical Prototype Of In-Vivo Photoacoustic (PA) Flow Cytometry (PAFC) For Real-Time Detection Of Circulating Clots" by Zharov /UAMS, in an amount not to exceed \$75,000.00.

It was pointed out that there is no change in funding; this approval allows another 90 days to complete the investment.

Dr. Frederickson made a motion to approve Draft Resolution 15-08. Dr. Sustich seconded the motion; the Board gave its unanimous approval.

Draft Resolution 15-09

Draft Resolution 15-09 would provide funding for the following research proposals:

PROPOSAL NO. 15-B-06, "Voltammetric Detection of Pharmaceutical Drugs as Environmental Contaminants Using Pencil Lead Electrodes," by Dr. Anahita Izadyar of Arkansas State University, in an amount not to exceed \$21,461;

PROPOSAL NO. 15-B-07, "Formation of Nodule-Like Structures in Rice," by Dr. Arijit Mukherjee of the University of Central Arkansas in an amount not to exceed \$46,831;

PROPOSAL NO. 15-B-08, "Novel Glycopeptides as Molecular Carriers for Engineering Plant Cell Wall," by Dr. Jay Xu of Arkansas State University, in an amount not to exceed \$50,000;

PROPOSAL NO. 15-B-09, "Biologically Supported New Stochastic Models of Skin Cancer," by Dr. Hong Zhou of Arkansas State University, in an amount not to exceed \$42,372;

PROPOSAL NO. 15-B-11, "Use of $\alpha 3$ NKA-ZsGreen1 Transgenic Mice to Determine Distribution of $\alpha 3$ Na,K-ATPase-Expressing Neurons in Nervous System: Understanding of Human Movement Disorders," by Dr. Maxim Dobretsov of University of Arkansas for Medical Sciences, in an amount not to exceed \$43,374;

PROPOSAL NO. 15-B-12, "Neural Synaptic Communication for Regeneration," by Dr. Malathi Srivatsan of Arkansas State University, in an amount not to exceed \$50,000;

PROPOSAL NO. 15-B-15, "Environmental Effects of Mining the Mississippi Valley-Type Deposits in Arkansas and the Tri-State District as Inferred from Isotope Data," by Dr. Adiana Portra and Dr. Laura Ruhl of the University of Arkansas, Fayetteville, in an amount not to exceed \$46,058;

PROPOSAL NO. 15-B-17, "A Step-Economical Ireland-Type Claisen Rearrangement," by Dr. Matthias McIntosh of the University of Arkansas, Fayetteville, in an amount not to exceed \$50,000;

PROPOSAL NO. 15-B-18, "Activation of C-H Bond by Binuclear Transition Metal Complexes with Nitrous Oxide," by Dr. Lei Yang of the University of Central Arkansas, in an amount not to exceed \$25,448;

PROPOSAL NO. 15-B-19, "The Role of Mitochondrial Reactive Oxygen Species and Sirtuin3 in Radiation-Induced Liver Damage," by Dr. Nukhet Aykin-Burns of the University of Arkansas for Medical Sciences, in an amount not to exceed \$50,000;

PROPOSAL NO. 15-B-21, "Pincer Metal Complexes for Carbon Halogen and Carbon Hydrogen Bond Activations for Synthesis of Synthetically and Pharmaceutically Important Molecules," by Dr. Anindya Ghosh of the University of Arkansas at Little Rock, in an amount not to exceed \$17,280;

PROPOSAL NO. 15-B-23, "Developing Integrative Approaches for Identifying Network-Based Cancer Biomarkers Utilizing Multi-Layer Whole-Genome Scale Data," by Dr. Mary Yang of the University of Arkansas at Little Rock, in an amount not to exceed \$49,464; and

PROPOSAL NO. 15-A-13, "Evaluating Ways to Balance Timber Production and Stream Biodiversity Conservation in the Ouachita Mountains Ecoregion of Arkansas," by Dr. John Wilson of the University of Arkansas, Fayetteville, in an amount not to exceed \$30,102;

PROPOSAL NO. 15-B-14," Non-Specific IL-12-Chitosan Bioconjugates for immunotherapy of Solid Tumors," by Dr. David Zaharoff of the University of Arkansas, Fayetteville, in an amount not to exceed \$38,726.

Draft Resolution 15-09 was moved and seconded by the committee. Drs. Compadre, Frederickson, Rankin and Sustich declared their affiliations with universities receiving funding. The Board gave its unanimous approval.

Nominating Committee Report

Dr. Compadre presented for consideration the slate of officers for the upcoming year: Mr. Michael Nauman, Chair; Mr. Gary Campbell, Vice Chair; Dr. Carl Frederickson, Secretary.

Mr. Ragon moved approval of the nominations. Mr. Campbell seconded the motion; the Board gave its unanimous approval.

Next Meeting Date

The next Board meeting is scheduled for November 21, 2014.

ADJOURNMENT

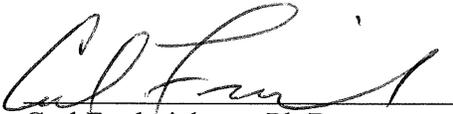
There being no further business to conduct, the meeting was adjourned.

Respectfully submitted,



Carl Frederickson, Ph.D.
Secretary
Board of Directors

Approved by the Board of Directors
on this 21st day of November, 2014.



Carl Frederickson, Ph.D.
Secretary
Board of Directors