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ASME Office of Breakthrough Innovation Project Activity Report

Name ASME Angel Fund Feasibility
Idea Generator Christopher Starr
Status Phase I: Concept Exploration (initiated July 2009)
Investment \$25K for Phase I

Purpose

To explore the feasibility of organizing an ASME affiliated angel fund which would be composed of ASME members and would target investments in engineering oriented innovative startup technology companies with high growth prospects.

Status

- Key meetings and calls have taken place between the idea generator and key ASME employees in marketing, membership, legal, and other relevant areas which would need to be coordinated with. Input has been recorded and analyzed
- All research and analytics have taken place regarding market, competition, legal structure, finance, management, etc.
- Reviewed alternative solutions for ASME funding programs
- A final document including conclusions and recommendations is being prepared.

Milestones

July-Oct -Meet key ASME team members
-Research market, competition, and legal structure issues
-Begin drafting final document

Nov-Dec -Complete final document and present to ASME stakeholders

Staff Project Manager
Reese Meisinger

Date submitted 11/6/09



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Name	Automotive Innovation Network (AIN)
Idea Generator	Dr. David Bodde, Clemson University
Status	Phase I: Concept Exploration (initiated July 2009)
Investment	\$50K for Phase I (budget attached)
Resources Leveraged	additional funding of \$836K via US DOE grant to Clemson University and in-kind support from USCAR

Purpose

To explore the application of a Network Innovation, a breakthrough innovation process, in an arena of intense public scrutiny and private interest – the U.S. auto industry. Success will have national significance by enabling an innovation process that offers lower cost, faster cycle time, and wider access to technology.

Status

- The domain name www.automotiveinnovationnetwork.org has been secured for three years and is being developed as a hub for information exchange and discussion for the AIN initiative and related industry/manufacturing information.
- A stakeholder's workshop has been scheduled for January 20-21 in Detroit at USCar headquarters to discuss technology focus and desired outcomes of an AutoVenture Forum in spring 2010. Ford, BMW, Chrysler, USCar, and Adelphi have confirmed their support of the January meeting. Additional outreach continues to engage SAE, US Department of Transportation, the Center for Automotive Research, and other stakeholders in this process.
- Initial attendee invite letters have been sent for the January meeting in Detroit.

Milestones

July-Dec	-Research current environment and participants in automotive technology innovation process -Build relationships and alliances with principal groups engaged -Plan program for January 2010 stakeholder workshop in Detroit -Build AIN website
Jan-Mar	-Conduct January stakeholder workshop -Assess workshop outcome and develop action plan for spring 2010 AutoVenture Forum
Apr-June	-Hold first AutoVenture Forum

Staff Project Manager
Patti Jo Snyder

Date submitted 11/6/09



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Name Engineering Solutions for the Base of the Pyramid (BoP) Workshop
Idea Generator Dr. Win Phillips, Chair, Strategic Issues Committee
Status Phase I: Concept Exploration (initiated September 2009)
Investment \$50K for Phase I (budget attached)
Resources Leveraged additional funding of \$50K via Strategic Issues Committee

Purpose

The recent environmental scan report identifies numerous opportunities for ASME to serve the BoP community. The workshop of internal and external stakeholders would analyze and prioritize them, ultimately creating a path forward for ASME in this arena.

Status

- A staff project team has been officially registered with the ASME Project Office. One conference call has been held and a planning meeting is scheduled to take place during IMECE in Orlando. To build synergy among other ASME initiatives in this area, the project team includes leads engaged in Engineering for Change, Center for Public Awareness, and Engineers Without Borders.
- Staff leads have held a planning meeting and subsequent conference calls with AndSpace Consulting, researchers of the original environmental scan. A contract has been drafted with AndSpace to support the planning and post event reporting of the workshop.
- Tentative dates of the workshop are March 3-5. Staff is currently working to secure meeting space at the National Academy of Sciences.
- Outreach efforts continue with various external stakeholders.

Milestones

Sept-Nov -register staff Project Team
-contract with AndSpace Consulting

Dec-Jan -speakers and attendees identified
-program outline complete
-speaker and attendee invites sent
-finalize program

Feb -onsite/meeting packet developed
-advance information sent to attendees

Mar -Hold workshop on March 3-5, 2010.

Staff Project Manager
Allian Pratt

Date submitted 11/6/09



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Name Long-Term Operation of Existing Nuclear Plants: Assessment of Feasibility
Idea Generator EPRI
Status Phase I: Concept Exploration (initiated August 2009)
Investment \$50K for Phase I (budget attached)
Resources Leveraged additional funding of \$75K via Alfred P. Sloan grant to ASME-ITI, LLC and \$50K in-kind support from EPRI

Purpose

Industry studies suggest that it may be possible to safely extend the life of existing nuclear plants, which currently supply 20% of U.S. electrical power needs. If this proves feasible, the potential would be to meet rising demand for power with minimal carbon emissions.

Status

- A grant for \$75K from the Alfred P. Sloan Foundation was awarded in September, with funds available in October.
- The workshop is scheduled for February 17-18, at the Doubletree Hotel in Crystal City, VA. Letters of invitation to prospective attendees are scheduled to be sent on November 13th. The Project Team is currently working on a plan for targeted solicitation of White Papers which will be delivered at one of six sessions scheduled for the workshop.

Milestones

Oct-Dec -Attendee and White Paper solicitation.
-Identify and confirm session moderators.

Jan -White Papers reviewed, selected and announced for presentation.
-Advance material (White Papers and collateral information) sent to attendees for pre-workshop review/idea generation.
-Develop onsite material/packet.

Feb -Hold workshop on February 17-18, 2010.

Staff Project Manager

James Creel/Gretchen Crutchfield

