USFStudentGreenEnergyFundCouncil

Friday, May 18, 2018-

RaymondMensah,NainanDesai,ChrisMarks(Alternate),KebreabGhebremichae(ChairSubstitute)

Absent: BarbaraBushnell, George Philippidis, Sujit Chemburkar Lynece Romelus, Robin Rives, Gviana Goldberg, Drew Templeton, Aladdin Hiba, Brian Mwaliko (Alternate) and Harold Bower (Chair)

Observer(s) Melody Raineyand Gidi Hendrix (Observers)

FirstOrder of Business:

The previous meeting minutes for the meeting held April 20, 2018 were noted. All meeting minutes are posted for the publicat http://www.usf.edu/student affairs/greenenergy fund/meetings/minutes.aspx

FinancialUpdate:

Cashbalanceasof 05/15/2018is \$2,436,531ActiveProjectsRSA prior year awards (\$1,294,796) Active ProjectsRSA FY17/18 awards (\$892,253) no projected operational expenses and the total projected expenses of (\$2,187,049) brings the projected available cash to \$249,482. The FY2018 remaining estimated fee collection is \$0. The 10% contingency (\$102,648) and a 5% reserve of (\$51,324) brings the projected available cash to award in FY2018 to \$95,511.

FoundationFundsbalance:

590077(StudentGreenEnergyOperatingfund) \$61 590082(CarbonOffsetFund) \$409

PublicComment

None.

*Due to a lackof quorum, those in attendanced ecided to proceed with business with the understanding that the proposal presented would be sent via email for email vote.

UnfinishedBusiness:

x None

New Business:

x BSEExhaustHoodRetrofitsProjectProposal(seeattachment)

The fume hoods and the mechanical ventilation systems operate at high constantair flow rates at all times resulting in a very large energy consumption and consequently very large carbon footprint. Per Occupationa Safety and Health Administration (OSHA) regulations, the exhaust hoodsmust exhaustair at a face velocity of 100 feet per minute across the face area of the sash opening. This air must be made up through mechanical ventilation system, where the air is cooled and dehumidified first and then reheated before introducing into the occupied space. In Tampa, this simultaneous heating and cooling of outdoor air and then eventually exhausting t through the exhausthoods goes on 24x7 and 365 days of the year. The potential to saveenergy, while complying with the regulatory and user comfort level standards, lies in controlling the air flow basedon demand. This project will address8 exhausthoods in two BSFlabs 357 and 363. It includes installation of one motion sensor for each exhausthood, automating the sash closure when there is no motion detected, and installation of a variable flow control and monitoring system to vary the exhaustair quantity based on the sashopening and for thermal comfort needs of the space. The system will comply with the regulatory requirements and user comfort level standards. The 8 fume hoods when retrofitted with the variableair flow controllers will result in about 80% energy saving sand a payback of 3 years. This project is modeled after a successful demonstration project completed on 2 exhaust hoods in BSFI 51 lab. In addition, the project will also include digital screendisplaysof room condition on the outside of the lab, at the exhaust hood, and a room purge control with pushbutton for a chemical spill inside the room.

- I. Electricitysavings387,162kWh/year
- II. NaturalGassavings13,211Therms/year
- III. AnnualeCO2reduction in Metric Tons:288
- IV. Equivalent number of trees planted: 7,467 seed ling grown for 10 years
- V. Annualsavings\$27,114

The fume hoods with these measures will result in about 80% energy savings through reduced in conditioned uctoods will 8 comply of 1 £ \$! Then in

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Page3 of 3

Activities Updates

x Arbor Day

Arbor Daytook placeApril 27th at 10:00am at the Johnand GraceAllen Building. Threetrees were planted and students were encouraged to participate. VP Duffy gave the opening comments, followed by a presentation from Robin Rivesand Adam Burrell regarding the SGEFTree Planting project and the NeutralizeBull Gasfoundation fund. The ceremonyended with AshelyDenslow and Justin Jimenez demonstrating their Tree Mapping project. Robin wrote an article about Arbor Day for USFNewsand Justin wrote an article for the Oracle.

Announcements

None.

Meeting adjourned at 2:05 pm.