

SPS Brings Physics to the Solid Foundation

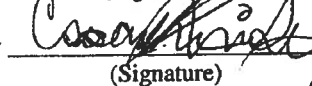
SPS Chapter at Stephen F. Austin State University in Nacogdoches, TX

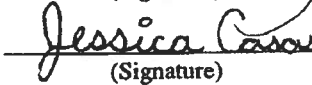
Funds Requested - \$295.50

10/15/2012

Thomas Frenzel - President  e-mail: [frenzeltj89@gmail.com](mailto:frenzeltj89@gmail.com)  
(Signature)

Jeffin James – V.P.  e-mail: [jamesj1@titan.sfasu.edu](mailto:jamesj1@titan.sfasu.edu)  
(Signature)

Cassandra Lindsey - Secretary  e-mail: [superca1328@gmail.com](mailto:superca1328@gmail.com)  
(Signature)

Jessica Casas – Member  e-mail: [casasjm@titan.sfasu.edu](mailto:casasjm@titan.sfasu.edu)  
(Signature)

Ali Piran - Advisor  e-mail: [apiran@sfasu.edu](mailto:apiran@sfasu.edu)  
(Signature)

## Abstract

The SPS Chapter at Stephen F. Austin State University will provide a lecture series to the Solid Foundation Association of Nacogdoches. The Solid Foundation Association is a place for at risk students to come after school. Our SPS group will visit the Foundation once a month, starting in November, and present in house demos and explanations of all demos.

## Future Faces of Physics Award

Solid Foundation Association was developed to empower at-risk children and young adult learners. Solid Foundation actively recruits volunteers to prepare meals, tell stories, arts and crafts and community lecture series. Our SPS chapter would host a community lecture series once a month beginning in November 2012 for these at risk children in honor of the Future Faces of Physics Award. Our series would include physics demonstrations and hands on projects that have been made available in booklet form by Forfas, Physics on Stage and the Institute of Physics in Ireland as well as demonstration put together by our department of physics and astronomy at Stephen F. Austin State University. Our lecture series will span a total of eight months. Topics of physics that would be covered would include pressure, forces, density, heat, waves and sound, light, electricity and magnetism. Pairs of students within our SPS chapter would work together to present these topics to the children. Each month a new topic would be presented to the children. The funds awarded to our chapter would be used for demonstration equipment as well as hands on projects the children can take home. I have listed below the supplies needed as well as their price and the total sum. By providing take home projects, the children can often remember their experience with physics as well as spark their sibling or parents' interest in science.

A description of the demonstrations can be found at this website.

<http://astro.sfasu.edu/news/uploads/Physics%20Demo%20Booklet.pdf>

Budget:

Supplies	Quantity	Price per quantity (\$)	Total (\$)
egg (PACK OF 12)	1	3	3
conical flask	1	8	8
camping stove	1	25	25
propane (PACK OF 2)	2	5	5
ping pong (PACK OF 6)	1	8	8
Funnel	1	5	5
balloons (PACK OF 25)	1	3	3
Newspaper	1	0.5	0.5
Ruler	1	1	1
straw (PACK OF 400)	1	5	5
String	7	5	5
Vinegar	1	4	4
baking soda	1	1	1
rubber stopper	1	3	3
plastic bottle	4	2	8
wooden rod	1	2	2
Candle	3	2	6
paper clip package	1	1	1
Pencil package	1	1	1
Teacup	4	3	12
6mm glass tubing	150mm	5	5
lamp oil	1	6	6
sugar syrup	1	4	4
beaker set	1	20	20
Salt	1	1	1
Dropper	2	2	4
water color	1	4	4
plastic tubing	1	6	6
blu-tak	1	9	9
trough for water	1	12	12
drink can	1	1	1
Dominoes	2	8	16
Cheese	1	3	3
rubber bands	1	2	2
diffraction grating (PACK OF 25)	4	20	80
Dettol	1	10	10
Prism	1	6	6
TOTAL			\$295.5

