

Thank-you  
To the judges of our science fair:

Dr. Mark Abood  
Dr. John Crump  
Mrs. Denise Holmquist  
Dr. Julie Kellogg  
Mr. Fred Lind  
Dr. James Sylvester  
Dr. Walter Wood

Dr. Julie Banks  
Ms. Gwen Gallagher  
Dr. Madeline Joseph  
Mrs. Patti Lamell  
Mr. Oren Reedy  
Ms. Tammy Wind

## Episcopal School of Jacksonville Science Fair



### Future Fairs:

Northeast Florida Regional Science Fair	Feb. 12-14
State Science Fair of Florida	April 3-5
ISWEEEP, Houston	May 3-7
International Science Fair, Pittsburgh	May 13-18

Munnerlyn Center for Worship and Fine Arts  
Berg Gallery

January 25- 27, 2012

## Middle School Projects

Project number	Students	Biological Sciences
J101	Megan Altman	Equine reactions to human behaviors
J102	Grace Egan	The effects of artificial food coloring on the hyperactivity of <i>Drosophila melanogaster</i>
J103	Caitlin Limbaugh	Paw preference in domestic cats
J104	Kimberly Van	The inhibitory effect of spices on food spoilage bacteria
J105	Francesca Walton	The effect of water temperature on the reproduction and growth of <i>Arabcia puntulata</i>
J106	Isabel Wothe	The effect of hypervitaminosis A on <i>Gallus gallus</i> fetus



Project number	Students	Physical Sciences
J107	Arabella Carvalho	What is the effect of soap on oiled turkey feathers?
J108	Neely Egan	The effect of yeast on the efficiency of biofuel
J109	Hunter Fishback	Water electrolysis with sodium sulfate
J110	Zachary Heaton	Maximizing the damping of sound using different methods of constrained layer damping
J111	Maria Wothe	The effect of carbon dioxide on pH levels of seawater

## Upper School Projects

Project number	Students	Biological Sciences
S201	Emily Abood & Shelby Booker	Did you forget to take your meditation?
S202	Alexander Forsyth	DNA methyltransferase 1 inhibitors as a therapeutic agent for various DNMT1 related tumors
S203	Andrew Joseph	Improving the Oryza abiotic stress tolerance based on the genetic engineering of the osmoregulate trehalose synthesis A gene: Year 3
S204	Katie Mackoul & Monica Wilson	Controlling nematodes: Enhancing the effectiveness of ivermectin by altering the RNAi strains in <i>Escherichia coli</i>
S205	Elizabeth Smithwick	The Effect of the nervous system of <i>Periplaneta americana</i> on various bacteria
S206	Siddharth Yarlagadda	Electrophysiological expression of neuronal activity in <i>Hirudo medicinalis</i>

Project number	Students	Physical Sciences
S207	Joseph Balbona	Synthesis and characterization of the physical properties of intermediate compositions in the $\text{Bi}_2\text{Al}_{(4-x)}\text{Mn}_{(x)}\text{O}_{(10-d)}$ system
S208	William Crump & Matthew Engel	Controlled electromagnetic suspension and propulsion along the vertical axis
S209	Kathryn Huyghue	Study of occurrence & fate of estrogen compounds in treated & untreated water sources impacting Florida's drinking water and the environment
S210	William Sadowski	Developing a low cost localized GPS alternative

