SOUTH CAROLINA JUNIOR ACADEMY OF SCIENCE
SCHEDULE OF EVENTS

7:30 AM - 11:00 AM  SCJAS Registration  Wall Building (atrium)
7:30 AM – 9:00 AM  Continental Breakfast  Wall Building near registration table

8:30 AM – 10:30 AM  SCJAS Oral Session I  Wall Building
                   See SCJAS oral session listing for details & room numbers

10:30 AM – 10:45 AM  Break

10:45 AM – 12:30 PM  SCJAS Oral Session II  Wall Building
                  See SCJAS oral session listing for details & room numbers

[10:30 AM – 12:30 PM]  SCAS Poster Session
                Junior Academy members are encouraged to visit SCAS posters

12:00 PM – 1:30 PM  Lunch  Hicks Dining Hall
                   Ticket is in your badge holder

1:30 PM – 2:30 PM  Plenary Session  Jackson Student Union (in the Theater)

2:45 PM – 3:45 PM  Afternoon SCJAS Activities & Workshops
                   Meet in atrium - front of Wall Building
                   Wall 119  Interactive visual neuroscience: how neurons in the brain generate perception
                              Phillip O’Herron PhD (MUSC)
                   Wall 209  Journey to the center of the Atom
                              Bill Wabbersen and Jon Guy (Savannah River Site)
                   Atrium  Campus/Sciences tour with Coastal Students/Science Ambassadors

4:00 PM  SCJAS Awards Ceremony  Jackson Student Union (in the Theater)
SCJAS 2017 ANNUAL MEETING ORAL PRESENTATIONS

**Biochemistry / Mentored** Wall 118

8:30AM Nina Daneshvar, Dutch Fork High School
THE EFFECTS OF TENSION, CURVATURE, & LIPID DIFFUSION ON THE ENRICHMENT OF RAS PROTEINS IN THE CELL MEMBRANE

8:45AM Katrina Bynum, Governor's School for Science & Mathematics
TEMPORAL RELEASE DYNAMICS OF VARIOUS TEMPERATURE SENSITIVE LIPOSOME FORMULATION

9:00AM Harrison Howell, Governor's School for Science & Mathematics
GENERATION OF A YEAST OVEREXPRESSION PLASMID FOR PURIFICATION OF THE IRON TRANSCRIPTION FACTOR AFT2

9:15AM Sunjay Jayaram, Dutch Fork High School
THE EFFECTS OF POLYCYCLIC AROMATIC HYDROCARBONS ON THE PRODUCTION OF LACTATE DEHYDROGENASE IN MCF-7 CELLS

9:30AM Tyreek Jenkins, Governor's School for Science & Mathematics
SYNTHESIS AND EVALUATION OF D-AMINO ACID SUBSTITUTED CYCLIC PEPTIDE INHIBITORS OF LYSINE SPECIFIC DEMETHYLASE 1

9:45AM Eric Vo, Governor's School for Science & Mathematics
THE ROLE OF ALDEHYDE DEHYDROGENASE 2 IN LIVER SICHEMIA/REPERFUSION INJURY

10:00AM Sarah Davis, Home School
INHIBITION OF TBK1 AND IKKE BY AMLEXANOX SYNERGIZES WITH BORTEZOMIB TO REDUCE MYELOMA CELL GROWTH

**Biochemistry / Non-Mentored** Wall 118

10:45AM Kaouri Marie Alipio, Spring Valley High School
THE EFFECT OF DIFFERENT LIGHT CONDITIONS ON CHLORELLA SP. GROWTH AND LIPID PRODUCTION

11:00AM Ryan Trinter, Chapin High School
EFFECT OF LAKE DEPTH ON BIOELECTRICAL POTENTIAL OF SEDIMENTS IN MICROBIAL FUEL CELLS

11:15AM Vikram Kumar, Spring Valley High School
A COMPARISON OF THE TOTAL POLYPHENOLS IN DAUCUS CAROTA, CYANOCOCCUS, CITRUS SINENSIS, CITRUS LIMON, ACTINIDIA DELICIOSA, AND MANGIFERA INDICA

11:30AM Riley Haywood and Noah Schumacher, Heathwood Hall
THE DIFFERENCE IN AMOUNT OF ETHANOL PRODUCED BY PORTOBELLO AND SHIITAKE MUSHROOM CELLULOSE

11:45AM Kayla O'Grady, Spring Valley High School
THE EFFECT OF COPPER(II) SULFATE PENTAHYDRATE ON THE PRODUCTION OF THE ETHYLENE HORMONE ON CUCURBITA PEPER

12:00PM Noah Rowell, Center for Advanced Technical Studies
OPTIMIZATION THE PRODUCTION OF BIODIESEL

**Botany / Mentored** Wall 211

11:30AM Samantha Czwalina, Governor's School for Science & Mathematics
USING RACE PROTOCOL TO GET FULL LENGTH GENE FRAGMENTS OF CANDIDATE GENES SELECTED IN PASPALUM VAGINATUM AND ARABIDOPSIS THALIANA
### Botany / Non-Mentored Wall 211

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<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:45AM</td>
<td>Wenlan He, Heathwood Hall</td>
<td>THE EFFECT OF DIFFERENT COLOR LIGHT AFFECT THE GROWTH OF PLANTS.</td>
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<tr>
<td>12:00PM</td>
<td>Hailey Nicks, Heathwood Hall</td>
<td>THE EFFECT OF DIFFERENT LEVELS OF CAFFEINE ON THE GROWTH OF WISCONSIN FAST PLANTS</td>
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<tr>
<td>12:15PM</td>
<td>Isaac Lee, Spring Valley High School</td>
<td>THE EFFECTS OF SIMULATED ACID RAIN ON THE GROWTH OF <em>LEMNA MINOR</em></td>
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### Cell and Molecular Biology / Mentored Wall 209

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<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>9:00AM</td>
<td>Maegan Albert, Governor's School for Science &amp; Mathematics</td>
<td>MODULATION OF LYMPHOMA CELL SURVIVAL AND ANTIGEN PRESENTATION BY INORGANIC ARSENIC</td>
</tr>
<tr>
<td>9:15AM</td>
<td>Julia Altman, Governor's School for Science &amp; Mathematics</td>
<td>EPGENETIC CHANGE EFFECTS ON DIFFERENTIATED EMBRYONIC STEM CELLS <em>IN VITRO</em> AND <em>IN VIVO</em> IN MICE</td>
</tr>
<tr>
<td>9:30AM</td>
<td>Claire Benson, Governor's School for Science &amp; Mathematics</td>
<td>CLONING OF LPAR2 VARIANT (CHEST973J21) FOR FUNCTIONAL ANALYSIS</td>
</tr>
<tr>
<td>9:45AM</td>
<td>Abbie Bowman, Governor's School for Science &amp; Mathematics</td>
<td>IDENTIFYING MARKERS OF STEM CELL DIFFERENTIATION THROUGH QPCR QUANTIFICATION</td>
</tr>
<tr>
<td>10:00AM</td>
<td>Pierce Carrouth, Governor's School for Science &amp; Mathematics</td>
<td>EFFECTS OF LONG-TERM LIF EXPOSURE ON MYOTUBE DIAMETER AND PROTEIN SYNTHESIS</td>
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<tr>
<td>10:15AM</td>
<td>Eric Chen, Dutch Fork High School</td>
<td>THE EFFECT OF STROMAL CELLS ON TUMOR CELL GROWTH UNDER HYPOXIA</td>
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<tr>
<td>10:45AM</td>
<td>Alexander Giep, Dorman High School</td>
<td>EFFECTS OF <em>GANODERMA LUCIDUM</em> ON CELL MIGRATION</td>
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<tr>
<td>11:00AM</td>
<td>David Kindervater, Governor's School for Science &amp; Mathematics</td>
<td>THE EFFECT OF POLYINOSINIC:POLYCYTIDILIC ACID ON THE HEMATOPOIETIC STEM CELL CYCLE</td>
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<tr>
<td>11:15AM</td>
<td>Danielle McLaughlin, Governor's School for Science &amp; Mathematics</td>
<td>E4 DOMAINS AND THEIR ANTI-FIBROTIC NATURE</td>
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<tr>
<td>11:30AM</td>
<td>Shakthika Saravanan, Spring Valley High School</td>
<td>EXPLORING THE ANTIOXIDANT PROPERTIES OF <em>PANAX QUINQUEFOLIUS</em> AND ITS COMPONENTS</td>
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<tr>
<td>11:45AM</td>
<td>Dola Thota, Governor's School for Science &amp; Mathematics</td>
<td>STUDY OF THE AGGREGATION OF AMYLOID-BETA 40 &amp; 42 IN ALZHEIMER'S DISEASE</td>
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<tr>
<td>12:00PM</td>
<td>Paige Swanson, Governor's School for Science &amp; Mathematics</td>
<td>THE GENETIC AND DEVELOPMENTAL ROLES OF DZIP1 ON MITRAL VALVE PROLAPSE</td>
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<tr>
<td>12:15PM</td>
<td>Winter Widdifield, Governor's School for Science &amp; Mathematics</td>
<td>IDENTIFYING REGIONS OF THE CXCR3 PROMOTOR REQUIRED FOR ACTIVATION BY FLI1 IN STIMULATED T-CELLS</td>
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### Chemistry / Mentored Wall 226

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<th>Time</th>
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<tr>
<td>9:00AM</td>
<td>Natalie Duprez, Governor's School for Science &amp; Mathematics</td>
<td>COMPARING INTERACTION ENERGIES OF WATER AND NH&lt;sub&gt;2&lt;/sub&gt; ADSORBATE ACROSS VARYING COVERAGE</td>
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<tr>
<td>9:15AM</td>
<td>Benjamin Gray, Governor's School for Science &amp; Mathematics</td>
<td>CONDUCTIVITY OF SOLID OXIDE FUEL CELL CATHODE MATERIALS</td>
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<tr>
<td>9:30AM</td>
<td>Jamaal Jacobs, Governor's School for Science &amp; Mathematics</td>
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</table>
9:45AM Julia Ladson, Governor's School for Science & Mathematics
HIERARCHICAL STRUCTURE WITH PERSISTENT MICELLE TEMPLATE (PMT)

THE POLYMERIZATION OF N-VINYLPYRROLIDONE IN PHENYLETHYLENE BIS-UREA MACROCYCLES

10:00AM Aryana Mattmann, Governor's School for Science & Mathematics
NOX EMISSION REDUCTION IN POWER PLANTS

10:15AM Lam Nguyen, Governor's School for Science & Mathematics
MEASUREMENT OF THE FLORY HUGGINS INTERACTION PARAMETER OF PHA-PS AND PHA-PLA

10:45AM Jack Orlandi, Governor's School for Science & Mathematics
SYNTHESIS AND INVESTIGATION OF THE NAPHTHALENE BIS-UREA MACROCYCLE

11:00AM MaryGrace Rainsford, Governor's School for Science & Mathematics
THE SYNTHESIS AND CHARACTERIZATION OF CORANNULENE-BASED METAL-ORGANIC FRAMEWORKS

11:15AM Caleb Simpson, Governor's School for Science & Mathematics
DETERMINING THE DEGRADATION ALONG THE LENGTH OF QUARTER INCH POLYESTER URETHANE MAGNETIC TAPES USING ATR FT-IR SPECTROSCOPY

11:30AM Hosam Arammash, Spring Valley High School
COMPARING DIFFERENT METHODS OF OBTAINING GRAPHENE FROM GRAPHITE

11:45AM Top Lee, Governor's School for Science & Mathematics
VERIFYING HIGH-THROUGHPUT METHODS FOR DETERMINING MECHANICAL PROPERTIES OF UV CURED POLYMERS

Chemistry / Non-Mentored Wall 226

12:00PM Elizabeth Dillon, Spring Valley High School
THE EFFECT OF TEMPERATURE ON ZINC LEACHING FROM RUBBER TIRE MULCH

12:15PM Christopher Kong, Spring Valley High School
THE EFFECT OF ZEOLITES ON THE PERCENT TRANSMITTANCE OF LEAD CONTAMINATED WATER

Computer Science / Mentored Wall 119

9:00AM Brennora Cameron, Governor's School for Science & Mathematics
EXPLORING VIRTUAL BRANCHING STORIES FOR VR HEADSET GAMING USING UNITY ASSETS AND C# SCRIPTS

9:15AM Steven McDade, Governor's School for Science & Mathematics
CONVERTING A JAVA ASG TO A GENERAL ASG

9:30AM Hailey Mollica, Governor's School for Science & Mathematics
DIGITAL VILLAGES DISCOVERABLE: CONCEPTUALIZING, DESIGNING, AND IMPLEMENTING THE USER-INTERFACE OF A CROWD-SOURCED, MEDIA-UPLOAD,IOS APPLICATION

9:45AM Jeffrey Russell, Governor's School for Science & Mathematics
FILE COMPRESSION USING HUFFMAN CODING WITH VARIOUS BIT LENGTHS

10:00AM Jacob Sargent, Governor's School for Science & Mathematics
DIGITAL VILLAGES: CREATING A STABLE BACK-END PROGRAM FOR A CROWDSOURCED IMAGE APPLICATION

10:15AM Victoria Young, Governor's School for Science & Mathematics
USING AN EYE TRACKER TO DETERMINE WHETHER INSTRUCTIONS ARE UNDERSTOOD BY THE USER

10:45AM Andrew Zheng, Governor's School for Science & Mathematics
DETERMINING THE COMPLEXITY OF A PROGRAM TO AID PROGRAMMING
11:00AM Thomas McLean, Spring Valley High School
THE MODELLING OF INDUSTRIAL CONTAMINANT SPILLAGE USING HYDRODYNAMICS IN CONJUNCTION WITH STEREOPHOTOGRAMMETRY

11:15AM David Schmitt, Governor's School for Science & Mathematics
SIZE MINIMIZING STRATEGIES FOR REMOVING OF REDUNDANT EXPRESSIONS FROM A SUPerset

11:30AM Elaine Patterson, Spring Valley High School
MODELLING HUMAN ACTIVITY THROUGH STRUCTURAL VIBRATIONS WITH ALTERNATE COMPUTATIONAL DEVICES TO INCREASE COST EFFICIENCY

**Computer Science / Non-Mentored  Wall 119**

11:45AM Elizabeth Bickel, Spring Valley High School
THE EFFECT OF A MOBILE APPLICATION ON FIRE SAFETY EDUCATION

12:00PM Chris Lou, Heathwood Hall
THE EFFECT OF DIFFERENT MATERIALS ON BLOCKING CELL PHONE SIGNAL

12:15PM Parker Davis, Chapin High School
THE CREATION OF AN APPLICATION ON THE UNDERSTANDING OF SENSORY OVERLOAD OCCURRENCES

**Consumer Science / Mentored  Wall 210**

8:30AM Matthew Beymer and Graycen Hensley, Governor's School for Science & Mathematics
CHALLENGES FACED BY CYBER SECURITY ASSETS IN THE UNIVERSITY OF SOUTH CAROLINA

8:45AM Wells Carter, Governor's School for Science & Mathematics
EVALUATING THE IMPACT OF PUBLIC ART IN CULTURAL DISTRICTS: RESULTS OF A SURVEY IN THE CONGAREE-VISTA

9:00AM Ethan Chan, Governor's School for Science & Mathematics
AN ANALYSIS OF THE EDUCATIONAL POTENTIAL OF THE BIG SHORT

9:15AM Samuel Floyd, Governor's School for Science & Mathematics
VARIABLE TOLLING FOR EXTERNALITY REDUCTION IN COLUMBIA, SOUTH CAROLINA TRAFFIC

9:30AM Daniel Morris, Governor's School for Science & Mathematics
INCREASING AFRICAN AMERICAN TOURISM IN SOUTH CAROLINA

9:45AM Dennis Perea, Governor's School for Science & Mathematics
COMPARISON OF AUTOMATIC VERSUS HAND CODING TECHNIQUES IN EYE TRACKING SOFTWARE

10:00AM Caleb Rummel, Governor's School for Science & Mathematics
TRANSFER ENTORPY WITHIN THE NASDAQ STOCK EXCHANGE

10:15AM Casey Carter, Spring Valley High School
ENHANCING THE BIOMECHANICAL DESIGN OF THE FOOTBALL HELMET (CONCUSSION PREVENTION) PT. 2

**Consumer Science / Non-Mentored  Wall 210**

10:45AM Mary Martha Beard and Julia Faulds, Heathwood Hall
THE EFFECT OF DIFFERENT FLAVORS OF ICE CREAM HAVE ON THEIR MELTING RATE

11:00AM Moji Awe, Spring Valley High School
THE EFFECTS OF DIFFERING PROMOTIONAL METHODS ON RECYCLING BEHAVIOR

11:15AM Allison Hall, Heathwood Hall
THE EFFECT OF THE NUMBER OF TIMES THE BATTERY IS CHARGED ON HOW LONG THE CHARGE LASTS
11:30AM Jasmine Marie Flora, Spring Valley High School
THE EFFECT OF LED LIGHTING ON THE DETERIORATION OF OIL PAINT

11:45AM Ava Rosenbaum and Molly Caballero, Heathwood Hall
HOW DO TRAITS DIFFER BETWEEN GMO AND ORGANIC APPLES, POTATOES, AND CORN

12:00PM Katie Chin, Center for Advanced Technical Studies
DISASTER READY KIT

12:15PM Hayden Spencer, Center for Advanced Technical Studies
MITIGATING THE URBAN HEAT ISLAND EFFECT BY UTILIZING COOL ROOFING

12:30PM Kate Nassab, Heathwood Hall
THE EFFECT OF CALORIC LABELING ON CONSUMERS CALORIE INTAKE

**Engineering / Mentored Wall 223**

8:30AM Saulo Arias Hernández, Governor's School for Science & Mathematics
PROCESSING OF MISCELLLE THERMOSET BLEND WITH IMPROVED MECHANICAL AND WEAR BEHAVIOR

8:45AM Audrey Wang, Dutch Fork High School
THE DEVELOPMENT OF A PHOTON-BASED VELOCIMETER TO STUDY TRANSPORT PHENOMENA OF TUMOR CELLS

9:00AM Chris Bodkin, Governor's School for Science & Mathematics
USING ULTRASONIC WAVES TO DETERMINE BOND QUALITY BETWEEN ALUMINUM PLATES

9:15AM Nikki Bregman, Governor's School for Science & Mathematics
AUTONOMOUS COURSE NAVIGATION BY HIGH-SPEED 1/10 SCALE RACECARS USING LIDAR AND PASSIVE STEREO CAMERA

9:30AM Dennis Daly, Governor's School for Science & Mathematics
USING NON-TRADITIONAL RESOURCES TO BUILD TEMPORARY HOUSING FOR THE HOMELESS

9:45AM Chloe Harris, Governor's School for Science & Mathematics
IROBOT ROOMBA AND ARDUINO AS AN ACCELERATED LEARNING PLATFORM FOR INTERDISCIPLINARY PRINCIPLES

10:00AM Faisal Lachab, Governor's School for Science & Mathematics
RAPID PROTOTYPING OF COMPACT BONE OSTEOSES

10:15AM Weston Light, Governor's School for Science & Mathematics
CAPABILITY OF COLLABORATIVE ROBOTS IN AN INDUSTRIAL PROCESS

10:45AM Evan Livingston, Governor's School for Science & Mathematics
SYNTHESIS OF WEAR RESISTANT POLYMERS WITH ENHANCED MECHANICAL PROPERTIES

11:00AM Vanessa Madrid, Governor's School for Science & Mathematics
CO₂ SEPARATION AND DRY METHANE REFORMING FOR SYNTHESIS SYNGAS BY A MECC MEMBRANE REACTOR

11:15AM Abson Madola, Governor's School for Science & Mathematics
3D BIOFABRICATION OF CANCER CELLS AND THE CHARACTERIZATION OF THE FISNAR I&J7100

11:30AM Shelby Rader, Governor's School for Science & Mathematics
THE DEVELOPMENT OF A PGG LOADED POLYMER BASED VESSEL GRAFT

11:45AM Jacob Rains, Governor's School for Science & Mathematics
DISPARITY BETWEEN BUILD TIME ESTIMATION AND ACTUAL PRINT TIME IN THE PROJET MJP 3600 PRINTER SERIES

12:00PM Wes Robinson, Governor's School for Science & Mathematics
EFFECTS OF VARIABLE PRESSURE ON NEWTONIAN AND NON-NEWTONIAN MICROFLUIDIC FLOW
12:15PM  William Schmidt, Governor's School for Science & Mathematics
USING FIBER BRAGG GRATINGS TO DETECT DAMAGE IN METAL PLATES

12:30PM  LUNCH BREAK

1:30PM  Alexander Spitzer, Governor's School for Science & Mathematics
THE EFFECTS OF JOULE HEATING ON ELECTRIC-DRIVEN MICROFLUIDIC FLOW

1:45PM  Janelle Taliaferro, Governor's School for Science & Mathematics
CHARACTERIZATION OF PROXPA, HST, AND TPU FOR USE IN 3D PRINTING WITH SELECTIVE LASER SINTERING (SLS) MACHINES

2:00PM  Nathan Ulmer, Governor's School for Science & Mathematics
THE EFFECTS OF ETHANOL CONCENTRATION ON CONTACT ANGLE

2:15PM  Anjali Mohan and Ian Wilde, Governor's School for Science & Mathematics
CHARACTERIZING THE MECHANICAL PROPERTIES OF JSC MARS-1A MARTIAN SOIL SIMULANTS

Engineering / Non-Mentored Wall 225

9:00AM  Nithin Saravanapandian, Spring Valley High School
THE EFFECT OF COMPOUND AND METALLIC COATINGS OF GRAPHITE, SILVER, TIN OXIDEM AND COPPER ON THE ABILITY OF A PIEZOELECTRIC DISC TO BOOST ITS PRODUCTION OF PIEZOELECTRICITY AFTER TENSILE FAILURE

9:15AM  Paul Dubberly, Spring Valley High School
THE DEVELOPMENT OF LIQUID ELECTRODE BATTERIES WITH AQUEOUS LITHIUM CARBONATE

9:30AM  Evan Barker, Luke Gabel, and DeBose Tyler, Heathwood Hall
THE EFFECT OF THE BICYCLE SAFETY DEVICE ON HOW FAR AWAY A CYCLIST CAN DETECT A CAR BEHIND THEM.

9:45AM  Christopher Bristow, Center for Advanced Technical Studies
DEVELOPING A HUMAN POWERED ELECTRIC BICYCLE

10:00AM  Cody Foster, Spring Valley High School
THE EFFECT OF AEROBIC EXERCISE ON THE ELECTRICAL OUTPUT OF A THERMOELECTRIC ARMBAND

10:15AM  Clay Mitchell, Heathwood Hall
THE EFFECT OF TEMPERATURE, PRESSURE, AND HUMIDITY ON EMF SIGNALS

10:30AM  BREAK

10:45AM  Royce Frye, Spring Valley High School
TESTING THE ABILITY OF A PROSTHETIC TO RESIST CHANGE IN POSITION AND HANDLE WEIGHT

11:00AM  Joshua Keller, Center for Advanced Technical Studies
THERMOELECTRIC GENERATORS UTILIZING A COOLER

11:15AM  Ishita Kapoor, Spring Valley High School
EXPLORING POSSIBILITIES OF AN ADAPTIVE NEBULIZER SYSTEM FOR IMPROVED AND EFFICIENT AEROSOL THERAPY: A COMPREHENSIVE EXPERIMENTAL STUDY

11:30AM  Brogan Brown, Center for Advanced Technical Studies
BREAST CANCER RADIATION BRA

Environmental Science / Mentored Wall 205

9:30AM  Ivey Li, Governor's School for Science & Mathematics
FECAL SOURCE TRACKING AT LITTLE CANE CREEK AND CANE CREEK

9:45AM  Jillian Marlowe, Governor's School for Science & Mathematics
EXAMINING THE EFFECTS OF TRAFFIC ON THE VOCALIZATION OF LITHOBATES CATESBEIANUS AND LITHOBATES CLAMITANS
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<tr>
<td>10:00AM</td>
<td>Brandon Marrone, Governor's School for Science &amp; Mathematics</td>
<td>EFFECTS OF CYSTEINE ON THE AGGREGATION AND DISSOLUTION OF SILVER NANOPIRCELs</td>
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<tr>
<td>8:30AM</td>
<td>Isaac Vardi, Center for Advanced Technical Studies</td>
<td>DIESEL EMISSIONS</td>
</tr>
<tr>
<td>8:45AM</td>
<td>Madeline Ashcraft, Heathwood Hall</td>
<td>THE EFFECT OF THE LOVES TRUCK STOP ON THE TEMPERATURE, PH, MERCURY, DISSOLVED OXYGEN, AND TURBIDITY ON THE NEARBY WETLANDS</td>
</tr>
<tr>
<td>9:00AM</td>
<td>Sreya Varanasi, Spring Valley High School</td>
<td>THE EFFECT OF COPPER (II) SULFATE AND IRON (II) SULFATE ON GAS PRODUCTION, ABSORBANCE, AND PH OF CHLAMYDOMONAS REINHARDTII</td>
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<tr>
<td>9:15AM</td>
<td>Matt Hooker, Chapin High School</td>
<td>IMPACT OF ENVIRONMENTAL EDUCATION ON COMPOST LEVELS AND LANDFILL WASTE REDUCTION AT CHAPIN HIGH SCHOOL</td>
</tr>
<tr>
<td>9:30AM</td>
<td>Townsend Christian and Audrey Osborne, Heathwood Hall</td>
<td>THE EFFECTS OF SOIL CONTENT ON THE DECOMPOSITION OF A NAPKIN</td>
</tr>
<tr>
<td>9:45AM</td>
<td>Sarayu Das, Spring Valley High School</td>
<td>A NOVEL TECHNIQUE TO PURIFY WATER USING THE COAGULANT PROPERTIES OF MORINGA OLEIFERA TO FILTER PHARMACEUTICALS, HEAVY METALS, AND HERBICIDES FROM CONTAMINATED WATER SOURCES.</td>
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<tr>
<td>10:00AM</td>
<td>Kathleen Powers, Heathwood Hall</td>
<td>THE EFFECT OF GREYWATER ON THE GROWTH OF LEPIDIUM SATIVUM AND SOIL QUALITY</td>
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<tr>
<td>10:15AM</td>
<td>Anne Lobitz, Spring Valley High School</td>
<td>THE EFFECT OF NASTUTIUM OFFICINALE ON THE PREVENTION OF UNOXIDIZED SHEET STEEL CORROSION</td>
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<td>10:45AM</td>
<td>Pranav Bellukutty, Spring Valley High School</td>
<td>THE EFFECT OF ULTRAVIOLET RADIATION ON THE GROWTH OF THE PHYTOPLANKTON AMPHIDINIUM</td>
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<td>11:00AM</td>
<td>Keshav Nair, Spring Valley High School</td>
<td>THE EFFECT OF CLINOTITLITE VS. DICYIANDIAMIDE ON NITRATE LEACHING FROM SILT LOAM SOIL</td>
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<tr>
<td>11:15AM</td>
<td>Maeghan Ainsworth, Center for Advanced Technical Studies</td>
<td>IMPROVING EVACUATED TUBES</td>
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<tr>
<td>11:30AM</td>
<td>Zachary Kochert, Center for Advanced Technical Studies</td>
<td>METHANE PRODUCTION FROM MICROBIAL FUEL CELLS</td>
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<tr>
<td>11:45AM</td>
<td>Jasdeep Singh, Spring Valley High School</td>
<td>THE BIODEGRADATION OF POLYETHYLENE FOAM VIA TENEBRIO</td>
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<tr>
<td>12:00PM</td>
<td>Bryan Tran, Center for Advanced Technical Studies</td>
<td>WATER FILTRATION SYSTEM</td>
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<tr>
<td>12:15PM</td>
<td>Kierson Sutton, Spring Valley High School</td>
<td>THE EFFECT OF PETROLEUM BASED OILS ON THE AMOUNT OF DISSOLVED OXYGEN IN WATER</td>
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<tr>
<td>12:30PM</td>
<td><strong>LUNCH BREAK</strong></td>
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<tr>
<td>1:30PM</td>
<td>Kristina Trifonova, Spring Valley High School</td>
<td>ASSESSING THE ADSORPTION CAPACITIES OF HYPERACCUMULATOR BIOCHARS COMPARED TO WOOD WASTE BIOCHAR</td>
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<tr>
<td>1:45PM</td>
<td>Sreeja Varanasi, Spring Valley High School</td>
<td>AN ACUTE TOXICITY TEST ON THE EFFECT OF VARYING CONCENTRATIONS OF TITANIUM DIOXIDE NANOPIRCELs ON DAPHNIA MAGNA AND ARTEMIA SALINA</td>
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<td>School</td>
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<tr>
<td>2:00PM</td>
<td>Vinita Cheepurupalli, Spring Valley High School</td>
<td>NOVEL MOSQUITO CONTROL: A NATURAL APPROACH TO REDUCING AND REPELLING MOSQUITO POPULATIONS</td>
</tr>
<tr>
<td>2:15PM</td>
<td>Mikaila Widener, Spring Valley High School</td>
<td>THE EFFECTS OF GLYPHOSATE VERSUS SPINOSAD ON THE NITRATE CONCENTRATION IN THE SOIL</td>
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**Mathematics / Mentored Wall 205**

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<th>Time</th>
<th>Speaker</th>
<th>School</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45AM</td>
<td>Max Land, Dutch Fork High School</td>
<td>UPPER BOUND ON THE BURNING NUMBER OF GRAPHS</td>
<td></td>
</tr>
<tr>
<td>11:00AM</td>
<td>Jacob Folks, Governor's School for Science &amp; Mathematics</td>
<td>FINDING THE SPLITTING NUMBERS OF TILES</td>
<td></td>
</tr>
<tr>
<td>11:15AM</td>
<td>Sydney Miyasaki, Governor's School for Science &amp; Mathematics</td>
<td>SPLITTABLE COVERINGS OF THE INTEGERS</td>
<td></td>
</tr>
</tbody>
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**Mathematics / Non-Mentored Wall 205**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>School</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30AM</td>
<td>Caleb Taylor, Chapin High School</td>
<td>THE IMPACT OF ARITHMETIC SKILLS ON THE ABILITY TO SOLVE SIMPLE ALGEBRAIC EQUATIONS</td>
<td></td>
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</tbody>
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**Microbiology / Mentored Wall 224**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>School</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>11:00AM</td>
<td>Timothy Christie, Governor's School for Science &amp; Mathematics</td>
<td>CHARACTERIZATION AND LOCALIZATION OF TRAB AND TRAJ THROUGH FLUORESCENCE STUDIES</td>
<td></td>
</tr>
<tr>
<td>11:15AM</td>
<td>Gabriel Paradise, Governor's School for Science &amp; Mathematics</td>
<td>ANALYSIS OF THE HYPERACTIVITY OF A MUTANT MPING TRANSPOSABLE ELEMENT</td>
<td></td>
</tr>
<tr>
<td>11:30AM</td>
<td>Samah Malik, Governor's School for Science &amp; Mathematics</td>
<td>OPTIMIZATION OF BIVECTOR SYSTEMS FOR EXPORT OF ISOPRENOIDS IN BIOFUEL APPLICATIONS</td>
<td></td>
</tr>
<tr>
<td>11:45AM</td>
<td>Nitya Muppala, Governor's School for Science &amp; Mathematics</td>
<td>MINIMAL INHIBITORY CONCENTRATION OF CHITOSAN</td>
<td></td>
</tr>
<tr>
<td>12:00PM</td>
<td>Jacob Stokes, Governor's School for Science &amp; Mathematics</td>
<td>CHANGES IN MAGNETIC NANOPARTICLE SIZE IN DIFFERENT CELL GROWTH MEDIA</td>
<td></td>
</tr>
<tr>
<td>12:15PM</td>
<td>Aman Pitalia, Spring Valley High School</td>
<td>THE EFFECT OF PHENOLIC COMPOUNDS (BENZOIC ACID) ON THE SUSCEPTIBILITY OF GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA EXPOSED TO ANTIBIOTICS</td>
<td></td>
</tr>
</tbody>
</table>

**Microbiology / Non-Mentored Wall 224**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>School</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30AM</td>
<td>Adam Abdulrahman, Chapin High School</td>
<td>EFFECT OF THICKNESS OF COPPER PLATING ON ANTIMICROBIAL PROPERTIES AGAINST S. AUREUS</td>
<td></td>
</tr>
<tr>
<td>8:45AM</td>
<td>Roann Abdeladl, Greenville Technical Charter High School</td>
<td>DETERMINING THE AMOUNTS OF BACTERIA PRESENT IN MEAT POST VARIOUS FORMS OF COOKING AND THAWING</td>
<td></td>
</tr>
<tr>
<td>9:00AM</td>
<td>Erin Blalock, Spring Valley High School</td>
<td>THE EFFECT OF CORTICOSTERIOIDS AND ANTIHISTAMINES ON THE GROWTH RATE OF THE FUNGUS ALTERNARIA ALTERNATA</td>
<td></td>
</tr>
</tbody>
</table>
9:15AM  Isak Jatoi, Spring Valley High School  
A NOVEL APPROACH IN THE EXTRACT OF *MELALEUCA ALTERNIFOLIA* AS A POTENTIAL TOPICAL TREATMENT OF CUTANEOUS *ASPERGILLUS USTUS* INFECTIONS

9:30AM  Olivia Antonetti and Olivia Merritt, Heathwood Hall  
WHAT IS THE RELATION BETWEEN SCHOOL DIVISION AND THE AMOUNT OF BACTERIA IN EVERYDAY PLACES

9:45AM  Garrett Kaufman, Spring Valley High School  
THE EFFECT OF CORROSION ON THE ANTI-BACTERIAL ABILITY OF COPPER, BRASS, ALUMINUM, AND STAINLESS, STEEL

10:00AM  Austen Money, Spring Valley High School  
THE EFFECT OF THE T4 BACTERIOPHAGE, SUBLETHAL CONCENTRATIONS OF CIPROFLOXACIN AND METRONIDAZOLE, AND COMBINED PHAGE-ANTIBIOTIC USE ON *ESCHERICHIA COLI* B COLONY DENSITY

10:15AM  Ben Mathews, Heathwood Hall  
THE EFFECT OF ANTIBIOTICS ON THE PROTEIN CHANGES IN *E. COLI*.

10:45AM  Alejandra Ramirez, Spring Valley High School  
THE EFFECT OF OMEGA-3 PUFA'S ON *ENTEROBACTER AEROGENES*

**Physics / Mentored Wall 307**

8:30AM  Anish Chaluvadi, Governor's School for Science & Mathematics  
QUANTIFYING THE EFFECT OF CATIONS ON TRIPLET EXCITED STATES IN G-QUADRUPLEXES IN HUMAN TELOMERIC DNA

8:45AM  Matthew Siden, Governor's School for Science & Mathematics  
COMPOSITION OF STAINLESS STEEL BY AUGER ELECTRON SPECTROSCOPY

9:00AM  David Madden, Governor's School for Science & Mathematics  
USING MOTION CAPTURE CAMERA TECHNOLOGY TO UNDERSTAND THE MECHANICS OF BUTTERFLY FLIGHT AT VARYING PRESSURES

9:15AM  Yohan Moon, Governor's School for Science & Mathematics  
SINGLE-STRANDED DNA INVESTIGATION USING FLUORESCENCE ANALYSIS AND COMPUTER SIMULATION

9:30AM  Nikhil Gottipaty, Spring Valley High School  
THE CORRELATION BETWEEN THE DISTANCE OF THE OBJECT FROM THE PLATE TO THE RESOLUTION AND DEPTH OF THE HOLOGRAM PRODUCED BY A HELIUM NEON LASER

9:45AM  Juliet O'Riordan, Governor's School for Science & Mathematics  
EFFECT OF ETHANOL ON THE MAGNETIC PROPERTIES OF GOLD AND COBALT BILAYER FILM

**Physics / Non-Mentored Wall 307**

10:00AM  John Heaton, Heathwood Hall  
THE EFFECTS OF ADDING DIVOTS TO THE HULL OF A BOAT ON ITS DRAG

10:15AM  BREAK

10:45AM  Parker Dixon, Chapin High School  
EFFECTS OF CARBON NANOTUBES ON THE BALLISTIC APPLICATION OF SPIDER SILK

11:00AM  Davis Buchanan, Heathwood Hall  
EXPANSION OF A HELMET'S EFFECTIVE DENSITY EFFECT ON AMOUNT OF LINEAR ACCELERATION EXPERIENCED INTERNALLY
11:15 AM  Noah Swingle, Chapin High School
THE EFFECT OF VIDEO ANALYSIS ON INITIAL DISCUS LEARNING CURVE FOR NOVICE THROWERS

11:30 AM  Spears Goodlett and Jackson Pringle, Heathwood Hall
THE EFFECT OF VARIOUS GOLF BALL TYPE ON DISTANCE TRAVELED

11:45 AM  Presentation Withdrawn

12:00 PM  Bangjie Xue, Heathwood Hall
THE EFFECT OF DIFFERENT KINDS AND AMOUNT OF GRANULAR MATERIAL ON THE STABILITY OF A BALL ROLLING DOWN AN INCLINED RAMP.

12:15 PM  Lee Sightler, Center for Advanced Technical Studies
REAL VS. ADVERTISED CAPACITY AND CAPACITY FADE IN LITHIUM ION 18650 BATTERIES

Physiology and Health / Mentored  Wall 318

8:30 AM  Priya Chokshi, Governor's School for Science & Mathematics
ADIPOSE-DERIVED STEM CELLS SUPPRESSING INFLAMMATION IN PANCREATIC STELLATE CELLS TREATED WITH ETHANOL AND CERULEIN

8:45 AM  Emily Pope, Governor's School for Science & Mathematics
A LITERATURE REVIEW OF PHYSICAL THERAPY FOLLOWING NECK DISSECTION IN HEAD AND NECK CANCER PATIENTS

9:00 AM  Gayle Cunningham, Governor's School for Science & Mathematics
FLUSHED AND FROZEN: DEVELOPING OPTIMIZED METHODS FOR WHOLE BODY PERFUSION OF A MOUSE PRIOR TO CRYOPRESERVATION

9:15 AM  Samuel Helms, Governor's School for Science & Mathematics
IDENTIFICATION OF ZEBRAFISH CARRYING THE ZMYM2 AND ZMYM3 MUTANT ALLELES

9:30 AM  Brantley Leaphart, Governor's School for Science & Mathematics
A NEW MOUSE MODEL OF HUMAN PROSTATE CANCER DRIVEN BY MYC OVEREXPRESSION AND PTEN LOSS

9:45 AM  Emily Lowther, Governor's School for Science & Mathematics
ASSESSMENT OF TRAUMATIC BRAIN INJURY IN INFANTS USING DIFFUSIONAL KURTOSIS IMAGING

10:00 AM  Claire Moore, Governor's School for Science & Mathematics
G418 TREATMENT FOR THE SUPPRESSION OF A NONSENSE MUTATION IN THE X-LINKED INTELLECTUAL DISABILITY GENE CUL4B

10:15 AM  Emily Giep and Aliyah Jamison, Dorman High School
THE EFFECTS OF ESTROGEN AND PHYTOESTROGEN ON MCF-7 HUMAN BREAST CANCER CELLS

10:45 AM  Daniel Patino, Governor's School for Science & Mathematics
IMPACT OF ALCOHOL CONSUMPTION ON BODY MASS INDEX

11:00 AM  Matthew Re, Governor's School for Science & Mathematics
RELATIONSHIP BETWEEN THE EXPRESSION OF PGC-1A AND MUSCLE FATIGUE IN APCMIN/+ MICE.

11:15 AM  Greylan Smoak, Governor's School for Science & Mathematics
MODELING OF HYDROGEL RHEOLOGY IN APPLICATIONS FOR LUNG MUCUS

11:30 AM  Jonathon Tate, Governor's School for Science & Mathematics
EMERGENCY DEPARTMENT UTILIZATION BY DIABETIC PATIENTS IN SOUTH CAROLINA

11:45 AM  Stewart Trask, Governor's School for Science & Mathematics
THE EFFECTIVENESS OF WORKSTATION ORGANIZATION OF MEDICAL ERRORS IN THE OPERATING ROOM
12:00PM  Chase Turner, Governor's School for Science & Mathematics  
FLUORESCENT LABELING TO GENERATE GREEN FLUORESCENT PROTEIN (GFP) POSITIVE NEURAL STEM CELLS

12:15PM  Nikhil Vallabhaneni, Governor's School for Science & Mathematics  
THE USE OF CANCER MICRO-TUMORS FOR ANTI-CANCER DRUG SCREENING

1:30PM  Delaney Walden, Governor's School for Science & Mathematics  
THE EFFECT OF HISTONE METHYLATION ON NOISE INDUCED HEARING LOSS

1:45PM  Wenxin Fan, Spring Valley High School  
ASSOCIATION BETWEEN DIETARY INTAKE OF ADVANCED GLYCATION END PRODUCTS AND PROSTATE CANCER AGGRESSIVENESS

2:00PM  Vincent Ylagan, Governor's School for Science & Mathematics  
CHARACTERIZATION OF THE INTERACTION BETWEEN SECRETED FRIZZLED-RELATED PROTEIN 2 (SFRP2) AND FRIZZLED-5 (FZD5) BY CO-IMMUNOPRECIPITATION

2:15PM  Dabriel Zimmerman, Governor's School for Science & Mathematics  
DIET AND DEPRESSION: A STATICAL ANALYSIS OF MAGNESIUM INTAKE AND DEPRESSIVE SYMPTOMS

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Physiology and Health / Non-Mentored  Wall 321

8:30AM  Olivia Fladung, Chapin High School  
THE CORRELATION OF PATIENT SELF ASSESSMENT OF SCAR TISSUE TO PHYSICAL THERAPIST EVALUATION

8:45AM  Alexander Dixon, Chapin High School  
A STUDY ON THE SEVERITY OF NARCOTIC DIVERSION IN HOSPITALS

9:00AM  Kate Willhide, Heathwood Hall  
THE EFFECT OF MUSIC GENRE AND VOLUME ON A PERSON'S HEART RATE AND REACTION TIME

9:15AM  Garrett Dean, Chapin High School  
OPTIMAL WEIGHT LOSS METHODS FOR PHYSICAL PERFORMANCE IN SOUTH CAROLINA ADOLESCENT WRESTLERS

9:30AM  Lily Richter, Heathwood Hall  
WHAT IS THE CORRELATION BETWEEN POOL CHEMISTRY AND A SWIMMER'S HEALTH?

9:45AM  Riana Shelly, Heathwood Hall  
THE EFFECT OF GLUCOSE ON THE LACTASE ENZYME

10:00AM  Hannah Guess, Chapin High School  
THE EFFECT OF OFF-SEASON TRAINING ON ONE MILE RACE TIMES

10:15AM  Trevor Squirewell, Heathwood Hall  
THE CORRELATION BETWEEN COMMON LIQUID CONDUCTIVITY, BLOOD CONDUCTIVITY, AND CRAMPS.

10:45M  Garrett Ringer, Chapin High School  
ANALYZING THE EFFECT OF WHEY PROTEIN TIMING ON BENCH PRESS MAX

11:00AM  Noah Hook, Spring Valley High School  
THE EFFECT OF ULTRASOUND ON E.COLI DECONTAMINATION

11:15AM  Alyssa Sheppard, Chapin High School  
ANALYSIS OF SNELLEN VISION TEST VERSUS PICTURE TEST DATA COMPARISON

11:30AM  Katie Dzoba, Center for Advanced Technical Studies  
BANDAGE TO DECREASE COAGULATION TIME

11:45AM  Beverly Whitesides, Chapin High School  
SLEEP LOSS AND MOTOR VEHICLE CRASH CORRELATION SURVEY IN ADOLESCENTS
| 12:00PM | Hillary Melton, Center for Advanced Technical Studies  
|         | EVALUATION OF SOLID MATERIAL MASS CASUALTY DECONTAMINATION |
| 12:15PM | Hayden Derrick and Sam Coleman, Center for Advanced Technical Studies  
|         | DESIGNING AN ATTACHABLE ACCESSORY TABLE FOR WHEELCHAIRS |

**Psychology and Sociology / Mentored Wall 322**

| 9:00AM  | Johnathan Kovarna, Governor's School for Science & Mathematics  
|         | GROWTH AND DEVELOPMENT IN THE RUSSIAN FEDERATION BETWEEN 1990 AND 2014 |
| 9:15AM  | Lauren Hawes, Governor's School for Science & Mathematics  
|         | THE IMPACT OF INCREASED LANE MILEAGE ON TRAFFIC FATALITIES |
| 9:30AM  | Samantha Wei, Dutch Fork High School  
|         | THE PREVALENCE OF EMOTIONAL AND BEHAVIORAL DISORDERS IN YOUTH |
| 9:45AM  | Haley Nolan, Governor's School for Science & Mathematics  
|         | THE RELATIONSHIP BETWEEN GENERAL ANXIETY AND LANGUAGE DYSFLUENCIES IN MOTHERS WITH THE FMR1 PREMUTATION |
| 10:00AM | Nancy Ou, Governor's School for Science & Mathematics  
|         | THE EFFECT OF PAST TRAUMA ON THE BODY'S RESPONSES TO STRESS |
| 10:15AM | Malik Sanders, Governor's School for Science & Mathematics  
|         | HOW DO ANXIETY AND DEPRESSION SYMPTOMS RELATE TO ACADEMIC SELF-EFFICACY AMONG ADOLESCENTS? |
| 11:00AM | Vivian Vork, Governor's School for Science & Mathematics  
|         | IS DEPRESSION RELATED TO HEALTH-RISK BEHAVIORS AMONG ADOLESCENTS? |

**Psychology and Sociology/ Non-Mentored I Wall 305**

| 9:00AM  | Bianca Huet, Chapin High School  
|         | THE ASSOCIATION BETWEEN ADOLESCENT AMBLYOPIA AND THE PREDISPOSITION OF INTROVERSION OR EXTROVERSION IN A HIGH SCHOOL POPULATION |
| 9:15AM  | Jessica Cole, Chapin High School  
|         | OVERCOMING STEREOTYPES THAT HINDER ACADEMIC PERFORMANCE THROUGH PSYCHOLOGICAL PRIMING |
| 9:30AM  | Addison Blackmon, Chapin High School  
|         | THE COMPARISON OF VARYING MUSIC GENRES ON CONCENTRATION WITH ADOLESCENTS |
| 9:45AM  | Emily Franklin, Chapin High School  
|         | "ACADEMICALLY GIFTED": HOW DEFINING STUDENTS AFFECTS SELF-ESTEEM |
| 10:00AM | Wesley Hankinson, Spring Valley High School  
|         | THE EFFECT OF ANTIPHONE PSAS ON ADOLESCENTS’ PHONE USE AND ADDICTION |
| 10:15AM | Danielle Murrin, Spring Valley High School  
|         | THE EFFECT OF PHOTO FILTERS ON THE EMOTIONAL RESONANCE OF TEENAGERS |
| 10:45AM | Sarayu Parise, Spring Valley High School  
|         | A COMPARISON OF FORMATIVE AND SUMMATIVE ASSESSMENTS ON THE LEARNING RETENTION OF ADOLESCENTS |
| 11:00AM | Zachary Young, Spring Valley High School  
|         | THE EFFECTS OF SPECIFIC BACKGROUND VARIABLES ON THE AGGRESSION OF ADOLESCENTS PLAYING TETRIS |
| 11:15AM | Caroline Quan, Heathwood Hall  
|         | THE EFFECT OF ORGANIC LABELING ON TASTE PERCEPTION |
11:30AM  Lydia Comer, Heathwood Hall  THE EFFECT OF DIFFERENT PHOTO LINEUP DESCRIPTIONS OF AN EYEWITNESS TESTIMONY ON IDENTIFYING SUSPECTS IN A CRIMINAL INVESTIGATION

11:45AM  Skye Majka, Chapin High School  THE MOST EFFECTIVE WAY TO TEACH ENGLISH TERMINOLOGY

Psychology and Sociology/Non-Mentored II  Wall 308  
9:00AM  Clayton Bellinger, Chapin High School  WHAT FEATURES OF A NEWS POST ON SOCIAL MEDIA MAKE IT SEEM CREDIBLE?

9:15AM  Karsen Ward, Chapin High School  DOES A HANDS-ON, VISUAL PRESENTATION ABOUT WILDLIFE TO ELEMENTARY STUDENTS IMPACT LOCAL AWARENESS ABOUT WILDLIFE RESCUE?

9:30AM  Tyrell Fleshman, Spring Valley High School  THE EFFECT OF MARCHING BAND AND NON-MARCHING BAND ACTIVITIES ON A STUDENT'S ACADEMIC ACHIEVEMENT

9:45AM  Sydney Bertram, Center for Advanced Technical Studies  PARENTAL BASIS FOR HPV VACCINATION REFUSAL

10:00AM  Gabriel Corn, Spring Valley High School  THE APPLICATION OF THE PRISONER'S DILEMMA ON THE ABILITY OF DIFFERENT AGE GROUPS ON THE ABILITY TO TRUST OTHERS ONLINE

10:15AM  Gloria Kim, Spring Valley High School  THE EFFECT OF VARIOUS TYPES OF DISTRACTIONS IN A TESTING ENVIRONMENT ON THE PERFORMANCE OF ACADEMIC TASKS

10:45AM  Kelsey Pratt, Chapin High School  THE EFFECT OF PEER TUTORING ON THE NARRATIVE COMPOSITION SKILLS OF REMEDIAL LEVEL ENGLISH STUDENTS

11:00AM  Sara Taylor, Chapin High School  CORRELATION BETWEEN PERSONAL ORGANIZATION AND HIGH SCHOOL GRADE POINT AVERAGE

11:15AM  Ben Feldman, Heathwood Hall  HOW FURTHER INTERNET USE ACCELERATES FUTURE INTERNET USE

11:30AM  Faith Robertson, Heathwood Hall  THE RELATIONSHIP BETWEEN GRADE LEVEL AND THE STROOP EFFECT

11:45AM  Justin Feagin, Chapin High School  THE EFFECT OF SLEEP ON AVERAGE WEIGHTED GPA

12:00PM  Erin Siegfried and Anna Jowers, Chapin High School  DOES THE SPORT AND ATHLETE PLAY AFFECT THE WAY THEY THINK

Zoology/Mentored  
Wall 211  
8:30AM  Elizabeth DeLanghe, Governor's School for Science & Mathematics  GROWTH OF MANDUCA SEXTA FROM EGG TO PUPATION

8:45AM  Sydney Lykins, Governor's School for Science & Mathematics  THE GROWTH OF MANDUCA SEXTA

Zoology/Non-Mentored  
Wall 211  
9:00AM  Sydney Hannibal, Spring Valley High School  THE EFFECT OF DIFFERENT CONCENTRATIONS OF POLYETHYLENE MICROBEADS DAPHNIA MAGNA
9:15AM  Cynthia Leonard, Spring Valley High School
THE EFFECT OF PRODUCTS CONTAINING ENDOCRINE DISRUPTORS, COLGATE TOTAL®, MICROBEADS, AND BPA, ON THE REGENERATIVE ABILITIES OF Dugesia Iigrina

9:30AM  Rahithya Meda, Spring Valley High School
THE EFFECT OF SUCROSE AND ASPARTAME ON THE GROWTH OF Planaria

9:45AM  Shubhanjali Minhas, Spring Valley High School
THE EFFECT OF IRON(III) OXIDE ON Daphnia Magna Heart Rate and Mortality Rate

10:00AM  Gillian Patton, Spring Valley High School
THE EFFECT OF NONASSOCIATIVE LEARNING COGNITIVE PROCESSING ON ALZHEIMER'S DISEASE SEVERITY IN Caenorhabditis elegans

10:15AM  Matthew Payne, Spring Valley High School
THE EFFECT OF BISPHENOL-A SUBSTITUTES ON THE HEART RATE OF Daphnia Magna

10:45AM  Bridgette Ravindra, Spring Valley High School
THE EFFECT OF GLYPHOSATE AND GAMMA CYHALOTHRIN ON THE TOTAL NUMBER OF Viable Daphnia Magna AND THE AVERAGE NUMBER OF OFFSPRING PER Daphnia Specimen

11:00AM  Bethany Quinton, Center for Advanced Technical Studies
HANDS-FREE RELEASEABLE LEASH

11:15AM  Katherine Hayden, Center for Advanced Technical Studies
REDESIGNING THE CANINE WHEELCHAIR