

SOMETHING NEW ON THE HORIZON



Winter Edition Issue 2011



Parent's UBMS Newsletter

Greeting Parents!

Happy Holidays! This is our first newsletter of the school year. We will be sending the E-News Letter regularly for you to use each time. It is filled with information to keep you informed as a parent. We hope this newsletter helps you to prepare your student for future college endeavors and ensures your awareness of the many things we are doing at the Upward Bound Math & Science Center.

The Upward Bound Math & Science Center consists of two programs:

Local Program (consisting of students from Ennis, Grand Prairie, Granbury, and Venus high schools).

State Program (consisting of students from schools located statewide).

We are currently accepting new participants for both programs until early Spring.

Let us know how to improve E-News by emailing us at ubms@uta.edu. We want to be a great resource for you!

Program News

ACADEMIC: The Fall semester has just come to a close and this brings an opportunity for your child to get a fresh start for the Spring semester. Make time each day for studies and homework. Please ensure that a copy of their report card each six weeks is provided so we can recognize improvement and continue to assist them academically. They should complete, attend, and return all activities by the deadlines.

COUNSELING: All seniors should continue to apply for scholarships, review financial resources, finalize a list of college choices and send college applications by the specific deadlines. Use *Peterson's Studentedge* (<http://www.mystudentedge.com>), an online college & career system, to help with college review & scholarship searches.

ADVISING: We are currently recruiting new participants. If you know any eligible students who may be interested in the program, they can retrieve the application online by going to: <http://www.uta.edu/ubmathsci/applications.php>.

SIX HOURS OF COLLEGE CREDIT

You can earn six hours of college credits free this summer through our Bridge program. In order to be eligible, you must stay involved with program activities throughout the year. The 2011 Bridge application is available on the UBMS websites.

Competition Results News

Trio Quest Gold Award Recipients [receive digital camera, memory card, certificate & medal]

DigiSite: "For you, a Thousand Times Over"

- Merry Dimanh, Ronnika Baugh, Melina Rodriguez, Lorena Torres

Trio Quest Team Finalist Recipients [receive certificate and medal]

- Austin Mullins (leader), Ana Cardona, Robert Hernandez, Benny Guevara
- Cristian Morales (leader), Luis Cortez, Matias Perez
- Samantha Afonso (leader), Austin Amodio, Jebidiah Harper
- Mireya Arzola-Mendoza (leader), Peter Thottathil, Karla Martinez, Karen Hernandez

2011 Siemens Competition in Math, Science & Technology | Research Reports

Student Results: not selected as finalists, but research noted to have strengths in STEM. [received recognition and letter]

Student - Projects:

- Kevin Carrasco - *Raman Spectroscopy in Bone*
- Steve Lamas - *A Study of Effective Piping Strategies*
- Lorena Torres - *Effect of Stress on Quantity and Quality of Plant Leaf RNA*

PROGRAM DATES & ACTIVITIES

Local Program Dates

December dates

- 3rd: E³ Saturday Activity
- 6-8th: Weekly Tutorials

January dates

- 7th: Parent meeting at UT Arlington
- 10-12th: Weekly Tutorials
- 20th: College Tour Day (Central Texas)
- 24-26th: Weekly Tutorials

State Program Dates:

December dates

- 6-8th: OTA, Attend tutoring at School
- 16th: ICCP Part A Due

January dates

- 6th: Dec ICCP/Optional Activities Part B Due
- 10-12th: OTA, Attend tutoring at school
- 18th: BNSF/ACT Poster Projects Due
- 23-26th: 1-on-1 Session (on phone)
- 26th: Video Conferencing Session - *Financial Aid Forum at 6:30 pm*
- 27th: ICCP Part A & B Due

Entrance Exams Upcoming Testing:

- SAT Testing – January 28th (Late Register by December 30th)
- ACT Testing – February 12th (Late Register by January 7th)

Career Discovery

Engineering and Physics Careers



Above: Scientists use astronomy and astrophysics to develop space technology



Above: Video game developers use physics and engineering to develop new video games

Have you ever thought, “There should be a machine for this?” Careers in Physics and Engineering use instruments and machines to solve the problems of everyday life. Currently, biomedical engineers are using chemical particles to find an alternative to chemotherapy for cancer patients. The applications of Physics and Engineering range from the treatment of cancer and other diseases to commanding a military aircraft or submarine. Furthermore, job opportunities are available after the completion of an undergraduate degree in physics or engineering.

Graduate degrees may be required for some positions, however, many universities and companies offer research opportunities and internships to help students gain field experience for jobs and graduate schools. Some specific jobs in *Physics and Engineering* are: *agricultural engineer, astronomer, biomedical engineer, civil engineer, physicist, researcher, teacher/ professor, and software engineer.*

For more on these careers, go to: <http://www.careercornerstone.org/>

Parent’s Action Tip

“DEVELOP A PLAN to pay for your education”

1. Determine College Costs:

- College costs are an important factor in the planning process. It’s good to have a method to estimate costs
- Determine DIRECT COSTS: Tuition and fees, room and board – you can get this information from the college website or directly from admission office
- Determine INDIRECT COSTS: Books and supplies, transportation costs and other expenses
- Add up the totals, but don’t panic

2. Know the types of Financial Assistance:

- Scholarships: Do not have to be repaid and based on merit or merit plus financial need
- Grants: Do not have to be repaid and based on need
- Loans: Available through government or private sources. Must be repaid after finishing school
- Work Study: Earn money through jobs while in school

3. Investigate all sources of Aid:

- Ask for others help in paying costs or finding financial aid sources
- Analyze all of your resources for aid to estimate funds available

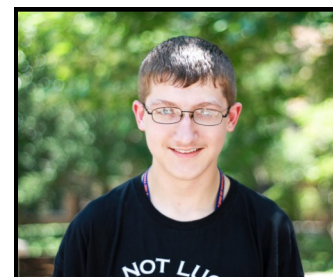
WORDS OF WISDOM

“The **Future of Knowledge** is set by the limitations of your imagination.” ~ Unknown

GETTING TO KNOW



Leila Subia is a junior at *Bel-Air High School* in El Paso, Texas. She is the president of the jazz band as well as the marching band historian. Leila enjoys sports and volunteering in her free time and plans on pursuing a career in the Biomedical Engineering field. She is School Captain for the El Paso region. She has attended the UBMS Sumer Residential Institute and academic year the last two years.



Austin Mullins is a sophomore at *Granbury High School*, Granbury, Texas. He started an anti-bullying cause called B.E.N. (Bullying Ends Now) to help victims of bullying in schools. President Obama wrote a letter to Austin thanking him for his efforts to help victims of bullying. He started participating in the UBMS Summer Residential Institute last summer.

Upward Bound Math & Science Center Staff:

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