

Dr. Karim Hossain, Professor of Physics,  
Edinboro University of Pennsylvania:



"Taking Flight"

Students of all grades enjoy making origami (folded paper), especially paper airplanes when they actually work. This project combines the fun of making a piece of paper fly with the science of aeronautical engineering. Students will have a hands-on opportunity to make paper airplanes using various designs, from the basic dart to a replica of the NASA space shuttle. These models are fun and will challenge and inspire beginner students as well as experts alike. For a final project, each student will design their own paper airplane to be judged against students in their age group. Family and friends are invited on the last day to celebrate and watch the competitions.

Mr. Gary Magorien, McDowell High School:

"Engineering for Efficiency"

Have you ever wanted to know how the things we put into our environment affect how we live? In this class, students will make eco-towers and examine the impact positive changes have on the environment. Each class will be creating a separate eco-system to study, and monitor the progress throughout the week. Students will also be studying the principles of buoyancy by conducting multiple hands-on experiments. Through trial and error, students will discover how to engineer a boat for carrying its maximum amount of weight. As a final project, students will be using their knowledge of engineering to create a boat that will hold the most weight.

Mr. Todd Burchanowski, Fort LeBoeuf High School:

"Healthy Habits"

Do you want to be able to use your talents to the best of your ability? If so, this class is for you! Students will discover how properly taking care of your body and eating different foods can influence their energy level. Uncover the link between daily exercise and the overall success of brain activity, and whether cleanliness equals a germ free environment. Join us as we get ready to investigate your "Healthy Habits!"

Mr. John Campbell, Fort LeBoeuf High School:

"Squids to Seeds"

Have you ever looked inside a squid? Do squids really squirt ink at their predators? Students will be dissecting squids to learn more about a squid's anatomy. In addition to dissecting squids, students will be taking an in-depth look at seeds, and what it takes for a seed to germinate. Students will unearth seeds located on the campus of Edinboro University, and, as an on "growing" activity, each student will be starting their own classroom garden to take home and watch grow!

Mr. Tom Brady, Corry Area Middle School:

"3-21 BLAST OFF!"

Ever wonder how NASA calculates a rocket launch? In this class, students will be completing activities using science and technology developed by NASA, as well as exploring Newton's Laws of Motion and applying these laws to rocket science. By using experiments involving propulsion, pitch, and balance, students will develop their own rocket ideas by exploring these principles and making their own rockets of various scales. At the end of the week, students will launch their rockets to see how high they go, and calculate the outcomes.



It is the policy of Northwest Tri-County Intermediate Unit not to discriminate on the basis of age, religion, sex, race, color, national origin, ancestry, disability, or non-job related disability in the admission or access to, or in the provision of services, programs, or employment in the compliance with Title VI, Title IX, Section 504 of the Rehabilitation Act of 1973 as amended, the Americans With Disabilities Act of 1990, and the Pennsylvania Human Relations Act. For information relevant to this policy, contact Dr. Dennis Valone, 504 Coordinator and ADA Coordinator, or Dr. Marjorie A. Wallace, Title IX Coordinator, 252 Waterford Street, Edinboro, PA, 16412. Phone: 814.734.5610 or TDD 814.734.1098.

## 2010 MASTERS Summer Program

### Student Application

Program Dates: June 21-25, 2010

8:20 a.m. - 3:00 p.m.

Edinboro University



*Are you in grade 2, 3, 4, 5, or 6? Do you love learning about math and science? If so, then this academic camp is for you!*

The **MASTERS** (Multifaceted Advanced Summer Training for Excelling Rural Students) **Summer Program** is a five day hands-on, high level, intensive science and math laboratory experience for students in grades 2-6 who have maintained a grade point average of 95% or higher in math and science. High ability, motivation, a serious attitude, and a favorable teacher recommendation are necessary for consideration for participation in this program. Total tuition cost is \$200 (\$50 acceptance fee + \$150 program fee). Transportation and lunch are not included. Please see the back of this form for class descriptions.

The **MASTERS Summer Program** is an independent learning experience for your child. This opportunity is sponsored by the Northwest Tri-County Intermediate Unit and is a voluntary option that is independent of any specific school participation.

The MASTERS Summer Program is sponsored by:

Northwest Tri-County Intermediate Unit

252 Waterford Street, Edinboro, PA 16412

Questions? Please contact Dr. Carol Bagley at 814-734-8484

**Parents and Students:**

Please complete all items on this brochure and forward to your child's teacher by April 16, 2010. This will allow time for your student's teacher to submit to IUS by April 23<sup>rd</sup>. All information is entered into a database and scored by computer. The math and science percentages, as well as values assigned to the student paragraph, extra curriculars (i.e. the Science Expo), and Part III (teacher-generated information), are combined to achieve a total score. Selections are based upon the student's total score and the number of slots available. Any student currently in grades 2-6 meeting the criteria may apply for admission.

**Part I (Must be typed or printed neatly)**

Student's Name: \_\_\_\_\_

Grade Level, 2009-10 yr.: \_\_\_\_\_

Address: \_\_\_\_\_

City, State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Boy \_\_\_ Girl \_\_\_

Home School District: \_\_\_\_\_

Building: \_\_\_\_\_

Parent(s) or Guardian(s) Name (Please Print): \_\_\_\_\_

Daytime phone where parent can be reached: ( ) \_\_\_\_\_

Home Phone: ( ) \_\_\_\_\_

If your child is selected, are you interested in carpooling with others from your area?

Yes \_\_\_\_\_ No \_\_\_\_\_

List any extracurricular interests & honors received by this child in regards to

Math/Science (Science Expo, etc.) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Student:** In the space provided, print or type a paragraph on why you want to attend this program.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Students will be notified, by mail, during the week of May 10 - 14, 2010, if they have been selected for participation in this year's MASTERS Summer Program. Upon receipt of the acceptance letter, all students are requested to submit the \$200 tuition fee. If you are requesting a partial scholarship, a \$50 acceptance fee must be submitted by the parent as well as 1/2 of the tuition (\$100). If you are requesting a full scholarship, only the acceptance fee is due, unless otherwise notified. ALL tuition fees must be paid by May 28, 2010. \*\*\*Cancellation Policy: \$125 of the tuition fee will be refunded if the intermediate unit is notified by June 1, 2010. No tuition fee will be refunded if the cancellation is after June 1, 2010.

**DO NOT SEND ANY MONEY WITH THIS APPLICATION.**

I give my permission for \_\_\_\_\_ to apply for the 2010 MASTERS Summer Program. I understand that I am responsible for the lunches and transportation for this student.

Signed: \_\_\_\_\_

Parent/Guardian

Date: \_\_\_\_\_

An Equal Rights and Opportunities Employer

**Part II - Financial Aid Request**  
**(Must be completed by parent or guardian)**  
**\*\*\*Note: Income proof is required\*\*\***

Student's Name (Please Print): \_\_\_\_\_

Grade Level 2009-10 yr.: \_\_\_\_\_

**FINANCIAL AID (Parents/Guardians: Please read)**

There are a limited number of scholarships available for students with a financial need. If you are requesting financial assistance, you must provide proof of your household income when submitting this application. Financial aid is determined based on the income guidelines set for the free and reduced rate lunch programs. Forms that will be accepted as proof of income include a copy of your lunch program form indicating your eligibility, or a copy of your most recent income tax form indicating the number of dependents and your household income.

**Please check the appropriate line:**

\_\_\_\_\_ No Aid Needed

\_\_\_\_\_ Yes, Full Program Fee Scholarship (student pays acceptance fee, \$50.00, only) A copy of your lunch program form indicating your eligibility or your most recent copy of your income tax form must be submitted.

\_\_\_\_\_ Yes, Half Program Fee Scholarship (student pays \$50 acceptance fee + 1/2 program fee, \$100) A copy of your lunch program form indicating your eligibility or your most recent copy of your income tax form must be submitted.

**\*\*\*Applications requesting aid without proof will be disqualified for financial aid consideration\*\*\***

**The MASTERS Summer Program is sponsored by:**  
Northwest Tri-County Intermediate Unit  
252 Waterford Street, Edinboro, PA 16412  
Questions? Please contact Dr. Carol Bagley at 814-734-8484