



THE COMMONWEALTH GOVERNOR'S SCHOOL CGS Summer Enrichment 2006

1. Mary Washington College Program (5 Days)

- ◆ **Topics:** Leonardos' Model: The Unity of Art, Science and Mathematics
Islamic Civilization & Middle East History

- ◆ **Professors:** Dr. Bulent Atalay, Professor of Physics, UMW
Dr. Nabil Al-Tikriti, Professor of History, UMW

- ◆ **Grades:** Rising 10th - 12th Grade Students

- ◆ **Dates:** Monday – Friday, July 10-14, 2006

- ◆ **Time:** 9:00am – 3:00pm

- ◆ **Location:** University of Mary Washington, Fredericksburg Campus

- ◆ **Application:** Yes

- ◆ **# of Participants:** 30

- ◆ **Costs to students:** None

- ◆ **Workshop Description:**

AM SESSION: "Bulent Atalay presents science through art, and art through science, and approaches the larger goal of achieving a synthesis of the two fields. He invokes the modus operandi of Leonardo da Vinci - part-time artist, consummate scientist, prescient inventor. The qualities of timelessness and universality in Leonardo's miraculous paintings speak eloquently for themselves.

"With Leonardo's model providing the unifying thread, however, it becomes possible, first, to glimpse Leonardo's restless intellect, that extraordinary psyche; second, to see whence the ideas for his works of art came; and ultimately to appreciate his art at a different level.

"What also emerges is a timeless message: Leonardo's model can assist in bridging the cultural divide prevailing in our age of specialization, and it can help make us all more creative.

The class includes a field trip to the National Gallery of Art in Washington, DC, in order to view a dozen or so key masterpieces of Western Art, works by Raphael, Rembrandt, Vermeer, Dali, and the only work in the Western Hemisphere by Leonardo."

PM SESSION: This workshop provides a general overview of Islamic Civilization and Middle East History, spanning from the life of the Prophet Muhammad to today's Middle East. Sessions will include Medieval Islamic History, Islamic Religion & Civilization, Ottoman History, Modern Middle East History, and History of Modern Iraq.

2. Fredericksburg George Washington Foundation Ferry Farms Archaeology Workshop: (4 days)

- ◆ **Topic:** Exploring the World of Archaeology through Inductive and Deductive Reasoning

- ◆ **Facilitator:** Ms. Sara Muller, Mr. Dave Muraca - Ferry Farms Archaeologists

- ◆ **Grades:** Rising 10-12th

- ◆ **Dates:** Tuesday-Friday, July 18-21, 2006

- ◆ **Time:** 9:00am - 3:00pm

- ◆ **Location:** Ferry Farms, Fredericksburg

- ◆ **Application:** Yes

- ◆ **# of Participants:** 20 Limit

- ◆ **Cost to students:** None

- ◆ **Workshop Description:** This hands-on workshop experience will focus on colonial and civil war history, architecture, deductive and inductive reasoning, problem solving, and technology. Students will participate in actual archaeology digs at Ferry Farms and other current Virginia sites. This interdisciplinary workshop will engage students in investigation, analysis, career exploration, real-world problem solving, and interactive technology simulations.

3. Mentorship Program through Fredericksburg Area Summer Governor's School Program (10 Days)

- ◆ **Topic:** Work on the job with mentor in area of career interest
- ◆ **Mentors:** Area professionals to be determined based on student interest
- ◆ **Grades:** Rising 11th or 12th Grade Students
- ◆ **Dates:** 10 days late June and early July
- ◆ **Time:** Mentor work hours
- ◆ **Location:** Fredericksburg, Dahlgren, King George, Spotsylvania, Stafford area
- ◆ **Application:** Yes (Use application of Fredericksburg Area Summer Governor's School)
- ◆ **# of Participants:** Estimate 30
- ◆ **Costs to Students:** None
- ◆ **Program Description:** Students will be paired with professionals at an on-the-job site for ten days. They will be provided with career awareness and learning opportunities in the career area of their choice.

4. Chesapeake Bay Foundation Environmental Research (5 Days)

- ◆ **Topic:** CGS Student Bay Savers Trip: Exploring the Chesapeake Bay Watershed
- ◆ **Mentors:** Environmentalists from the Chesapeake Bay Foundation
- ◆ **Grades:** Rising 11th [10th and 12th if spaces available]
- ◆ **Dates:** Monday – Friday, July 24-28, 2006
- ◆ **Time:** 24 hour a day camping experience
- ◆ **Location:** Central Virginia Region
- ◆ **Application:** Yes
- ◆ **# of Participants:** 16 Limit
- ◆ **Cost to Students:** None
- ◆ **Program Description:** Students and teachers will participate in a five-day camping experience where they will work with professional environmentalists to conduct environmental field research. Participants will experience the Chesapeake Bay's watershed starting just above one of the Bay's fall-line tributaries, all the way to the Bay itself. The main goal of the trip is to realize how sensitive the Bay is to human influence and to develop caretakers of the Bay's watersheds.

Post-Bay-Saver trip activities: participants will be active in local environmental concerns.

