



MathScience Innovation Center

Imagine. Create. Lead.

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A Consortium of 8 Public School Divisions
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94 Students Attend Inaugural *Let's Innovate Conference* for High School Students

On Saturday, November 21st, the MathScience Innovation Center debuted one of 3 Student Conferences for middle and high school students. The audience for the November 21st event was high school students from Central Virginia.

The keynote speaker was Dr. Gerald Miller, Chairman of the Biomedical Department at Virginia Commonwealth University. He talked about the innovative projects his team is working on, including designing new tissues, arteries and bone; using lasers for cancer diagnosis and treatment; and developing man-machine interfaces that utilize eye tracking, voice recognition and brain wave controls to control surgical robots and remote diagnostic systems.

Students then moved through 3 of 9 session of their choice. The 9 session topics and their speakers included:

- *Designing Accessibility for the Blind*
 - Dr. Dianne Pawluk
Assistant Professor, Biomedical Engineering, Virginia Commonwealth University
- *Forensic Pathology*
 - Dr. Kevin Whaley, Virginia Department of Health
 - Keshia Strouse,
Forensic Autopsy Technician, Office of the Chief Medical Examiner
- *Fractal Application in Science and MathScience Innovation Center*
 - Steve Oden, Faculty, MathScience Innovation Center
- *I'm Stuffed! Energy Storage in the Age of Nanotech*
 - Jim Lehman, Faculty, MathScience Innovation Center
- *Innovation in Architecture and the Environment*
 - Roberto Ventura, LEED AP,
Department of Interior Design, Virginia Commonwealth University
- *My Perspective*
 - Gayle Bynum, Faculty, MathScience Innovation Center
- *Molecular Diagnostics: A Key to Detecting Disease*
 - Dr. Patricia Hentosh and Sterling Thomas
School of Medical Laboratory and Radiation Sciences, Old Dominion University
- *Size Matters! Gold and Nanoparticles Explored*
 - Mary Frances Hobbs, Faculty, MathScience Innovation Center
- *Take a Geo Field Trip with Google Earth*
 - Dr. Patricia Miller, Faculty, MathScience Innovation Center

Students came from 7 school divisions: 11 were from Chesterfield; 17 were from Hanover; 19 were from Henrico; 3 were from King William; 2 were from Powhatan; 39 were from Richmond, and 3 from Maggie Walker Governor's School.

Chesterfield students included 3 from James River (Arius Aibara, Alana Burton and Adrienne Erbesti); 4 from LC Bird (Jaz Harnal, Daniel Jackson, Amanda Landry and Latane Mason); 1 from Matoaca (Daniel DeLozier); 1 from Midlothian Middle (Charles Richards); and 2 from Monacan (Caleb Dalton and Enrique Gonzalez).

Hanover students included 4 from Atlee (Andrew Dearhart, Kit Guncheon, Daniel Lehmann and Allison Wilmouth); 2 from Lee-Davis (Courtney Hostetler and Ann Lewsi); and 11 from Patrick Henry (Emily Agliano, Benjamin Anderson, Margaret Gravely, Miranda Hechler, Cole Marks, Mckennah Penatzer, Claire Schrunk, Joseph Sicola, Jihad Taylor, Malik White and Kimberly Wilmouth).

Henrico students included 5 from Deep Run (Aiza Humayun, Curtis Kapsak, Avi Samloff, Evan Truman and Michael Van Sickle); 3 from Freeman (Layla Abi-Falah and Jennifer Doggett); 7 from Henrico High (Shahroze Abbas, Gina Vuu, Jenna West, Alexandra Lee, Valerie Ngoh, Lakshmi Ravindra and Roberta Solomonova); 4 from Highland Springs (Timothy Fogg, Katrin Rombach, Zachary Soulier and Cameron Williams); and 1 from Varina (Matthew Harvey).

King William students included 3 from King William High School (Ryan Miccio, Nicholas Page and Katelyn Sterlacci).

Powhatan students included 2 from Powhatan High School (Hudson Burgess and Nathan Horn).

Richmond students included 24 from Franklin Military Academy (Larry Barham, Diamond Blathers, Ryan Bonner, Shakkari Briggs, Toneisha Brown, Isaiah Davis, Guy Delamar, Paige Dockery, Michelle Eaddy, Adjoa Henderson, Kwame Henderson, Daiquan Johnson, Victoria Lawhorne, Dontavious Lewis, Indigo McDonnough, Brandon Osborne, Arsaiah Robinson, Brianna Rodriguez, Anthony Thomas, Taurean Thomas, Xavier Thompson, Jenn'Asia Wheeler, Promise Wheeler and Jason Whitehead); 2 from Huguenot (Cierra Gray and Xavier Slayton); 10 from Open High (Nuasia Baker, Kyle Blanchette, Beth Hosick, Stephanie Hunter, Ervin McBride, Tavieo Miles, Brittany Nelson, Elizabeth Samardge, Brianna Walls and Jasmine Witcher); and 3 from Richmond Community (Mary Allen; Mezel Square-Smith and Jamie Vidal-Pons).

Maggie Walker Governors School students include Daniel Chen, Monique Dibich and Sarah Goggin.



The MathScience Innovation Center is proud to be the leader of K-12 math and science education for the eight Central Virginia school divisions within our forty-three year old Consortium (Chesterfield, Colonial Heights, Hanover, Henrico, King William, Petersburg, Powhatan and Richmond Public Schools) and the capacity building workforce program for K-12 educators and students that provides expanded opportunities to learn about emerging fields (fractal geometry, engineering, nanotechnology, environmental modeling) and effective ways to integrate within the curriculum.