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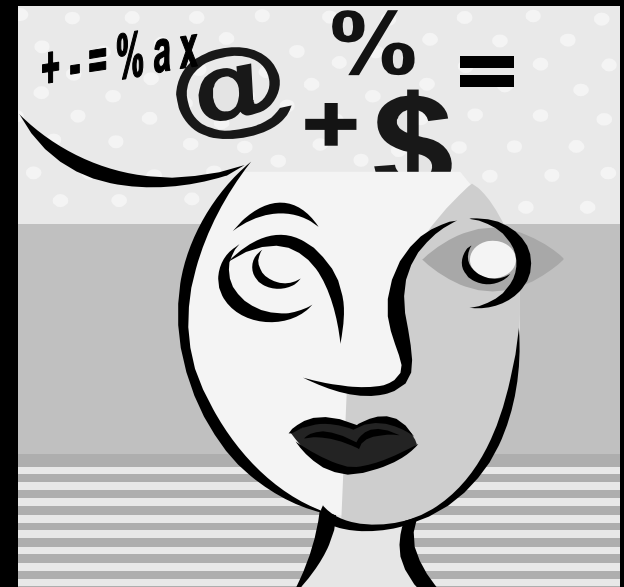


Virginia
Society of
Professional
Engineers



Got a problem?

MATHCOUNTS



2009 Virginia Competition

Saturday, March 28, 2009

Hosted By

Dominion Virginia Power

Innsbrook Facility, Richmond, Virginia

Dear "Mathletes",

On behalf of the Virginia Society of Professional Engineers (VSPE), welcome to the Virginia **MATHCOUNTS** State Competition.

VSPE is proud to help sponsor the **MATHCOUNTS** program because of our belief that the future rests in the young people of today. In order for our nation to remain a leader and maintain the pace of the high-tech world, we must produce graduates who have a firm foundation in mathematics and science and the ability to solve problems. In **MATHCOUNTS**, we have a program for strengthening the math skills of students your age and for helping you in deciding your future. The fact that you have made it to the state competition is an indication of your skills and your potential to become a professional in a field that is grounded upon mathematics such as engineering. We in VSPE hope that your involvement in **MATHCOUNTS** has been a positive and rewarding experience, and we compliment you upon your achievements.

Additionally, we extend our thanks to your coaches and parents for devoting the time, energy and encouragement that helped you get here today. We hope that you realize that your involvement in this program has already made you a **WINNER!**

Sincerely,

Ed

Edward C. Westerman, P.E.
President
Virginia Society of Professional Engineers

Engineering as a Profession

Engineering training deals with the exact sciences. That sort of exactness makes for truth and conscience. It might be good for the world if more men had that sort of mental start in life even if they did not pursue the profession...

It is a great profession. There is the fascination of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings jobs and homes to men. Then it elevates the standards of living and adds to the comforts of life. That is the engineer's high privilege...

...The engineer...looks back at the unending stream of goodness which flows from his success with satisfactions that few professions may know. And the verdict of his fellow professionals is all the accolade he wants.

The engineer performs many public functions from which he gets only philosophical satisfactions. Most people do not know it, but he is an economic and social force. Every time he discovers a new application of science, thereby creating a new industry, providing new jobs, adding to the standards of living, he also disturbs everything that is. New laws and regulations have to be made and new sorts of wickedness curbed. He is also the person who really corrects monopolies and redistributes national wealth.

— By Herbert Hoover

SCHEDULE OF EVENTS

**Restricted Access to those on Approved List*

| | |
|--------------------|---|
| 8:30 - 9:30 a.m. | Registration of Teams & Individuals* |
| 9:30 - 9:45 a.m. | Opening of Competition* <i>(Introductions & Instructions—Competitors Only)</i> |
| 9:45 - 10:35 a.m. | 40/40 Sprint Round Competition <i>(Competitors Only)</i> |
| 10:35 - 10:50 a.m. | Break |
| 10:50 - 11:20 a.m. | Target Round Competition <i>(Competitors Only)</i> |
| 11:20 - 11:35 a.m. | Break |
| 11:35 - 11:55 a.m. | Team Round Competition <i>(Competitors Only)</i> |
| 11:55 - 12:30 p.m. | Lunch Served to Mathletes, Coaches & Volunteers* |
| 12:30 - 1:30 p.m. | Countdown Round Competition* |
| 1:30 - 2:00 p.m. | Awards Ceremony & Photos* |
| 2:00 - 2:30 p.m. | Instructions to VA Team Advancing to the 2009 Raytheon MATHCOUNTS National Competition*, <i>Orlando, FL, May 7-10</i> |

RAYTHEON

Dominion Virginia Power

VA Society of Professional Engineers

CORPRINT of Virginia, Inc.

Thank you Sponsors!

| | |
|---|---------------------------|
| <i>Jim Kelly, P.E. Master of Ceremonies VSPE Past President</i> | |
| <i>Bill Horton, P.E. State MATHCOUNTS Volunteer Coordinator</i> | |
| <i>Leigh M. Dicks, CAE VSPE Executive Director & MATHCOUNTS Administrator</i> | |
| Volunteers for the 2009 State Competition* | |
| <i>Dick Ball, P.E.</i> | <i>Ray Powell, P.E.</i> |
| <i>Georg Dahl, P.E.</i> | <i>Javid Refai, P.E.</i> |
| <i>Divakar Bhargava, P.E.</i> | <i>Michael Sheehan</i> |
| <i>Tim Fortune, P.E.</i> | <i>Sarah Sheehan</i> |
| <i>Becky Golden, P.E.</i> | <i>Tom Snow, P.E.</i> |
| <i>Mel Goss, P.E.</i> | <i>Don Swygert, P.E.</i> |
| <i>Lynne Hamrick</i> | <i>Stephen Swygert</i> |
| <i>Dingchen Hou</i> | <i>Trent Warner, P.E.</i> |
| <i>William LaBelle, Jr.</i> | <i>Ed Watling, P.E.</i> |
| <i>Stanley Levinson, P.E.</i> | <i>Karlton Wirsing</i> |
| <i>Jim Malady</i> | <i>Roger Zearth, P.E.</i> |
| <i>Mark Mildorf</i> | <i>Xiaolan Zhuang</i> |
| <i>Judy Powell</i> | <i>*As of press time.</i> |

BLUE RIDGE

Team—Powhatan School Coach: Harry Holloway

- | | |
|-------------------|---------------------|
| 1. Jessica Nolan | 3. Ashley deMey |
| 2. Catherine Legg | 4. Nicholas Leonard |

Individual Participants & Coach

1. Simon Vogler-Daniel Morgan Middle School (Robert Sciegaj)
2. Sam Rho-Daniel Morgan Middle School (Robert Sciegaj)

BULL RUN

Team—Marsteller Middle School Coach: Cami Craig

- | | |
|-------------------|-----------------|
| 1. Tarun Kalakoti | 3. Elijah Reese |
| 2. JiSu Park | 4. Andrew Yank |

Individual Participants & Coach

1. Annapurna Pelletti-Stone Hill Middle School (Krishna Pelletti)
2. Jason Lee-Life Home School (Jean Lee)

FAIRFAX

Team—Joyce Kilmer Middle School Coach: John Pang

- | | |
|-----------------|-----------------|
| 1. Nalini Singh | 3. Kun Liu |
| 2. Katherine Wu | 4. Brandon Pang |

Individual Participants & Coach

1. Alexander DiLauro-Edlin School (Abdellatif Sabih)
2. Patrick Dinh-Lake Braddock Secondary School (Erin Clark)

GEORGE WASHINGTON

Team—Mark Twain Middle School Coach: Taylor Powell

- | | |
|-----------------|-------------------|
| 1. Carrie Sun | 3. David Anderegg |
| 2. Hassan Almas | 4. Quark Wei |

Individual Participants & Coach

1. Sean Waterton-Mark Twain Middle School (Taylor Powell)
2. Cody Silverman-Carl Sandburg Middle School (Dan Terwilliger)

Virginia — Engineering The Future

The **Virginia Society of Professional Engineers (VSPE)** represents more than 1,100 engineers of all disciplines in the state of Virginia. As a professional membership organization, one of our missions is to enhance the awareness and understanding of the engineering profession for all Virginians. We want the public to know that our professional ethic charges us with the “health, safety and well-being of the public.” We also want to attract bright, responsible and curious minds to the profession. **VSPE** members believe that the education and involvement of school children is a critical part of our professional and civic responsibility. **VSPE** supports programs making quality education in math, science and technology available to all educators and students in Virginia, whether they are public or private schools.

Many member volunteers state-wide make this program possible, along with contributions from corporations, schools and private individuals. The **Virginia Society of Professional Engineers** is helping today’s students — tomorrow’s employees — develop the mental skills required in a quality work force. We are helping to engineer Virginia’s future.



Visit us on the web—www.VSPE.org

MATHCOUNTS in Virginia

Developed in 1982 as the first nationwide program of its kind, **MATHCOUNTS** combines the efforts of education, business, government and the technological community to promote math excellence among 6th, 7th and 8th grade students.

MATHCOUNTS was developed as a positive and rewarding solution to reversing the problem of math illiteracy — and as a way to make parents, educators and the general public aware of career opportunities in math.

The program builds skills, promotes strategic problem-solving, and exposes students to complex problems and hard-to-handle numbers — all a critical part of our technological society. And it provides an opportunity to bring 6th, 7th and 8th graders together to prompt the lively exchange of mathematical ideas.

MATHCOUNTS impacts these student “**MATHLETES®**” at an age when they are formulating attitudes about math and technology — when they can still elect to take upper-level math courses in high school to prepare them for future careers in math and science.

The program begins in the schools with coaching sessions using free materials provided by **MATHCOUNTS**. Students sharpen their skills in everything from algebra to math logic, probability and statistics. Starting in September, students and teachers work together to develop teamwork and problem-solving skills. In February, students challenge other “**MATHLETES®**” in their area at one of the thirteen chapter competitions. In March, the top teams then progress to the Virginia State Competition in Richmond, with the top four individuals advancing to the national finals.

At all levels — local, state and national — the **MATHCOUNTS** program relies on business and industry sponsors to reach over 500,000 6th, 7th and 8th grade students each year.

By supporting **MATHCOUNTS** in your community, you will be helping to tackle a vital national issue — improving the math and science abilities of our youth — on the local level. At the same time, you will have the opportunity to:

- Demonstrate your concern for quality education
- Help prepare young people for productive careers
- Ensure the technological future of our nation

For more information, contact the VSPE office at 804/364-0505, Info@VSPE.org, www.VSPE.org or visit the **MATHCOUNTS** website at <http://mathcounts.org>.

The Competitors and Their Coaches

LYNCHBURG

Team—Linkhorne Middle School Coach: Laurie Bishop

1. Katie Gray Brammer
2. Sam Fedeler
3. Lia Greene
4. Lindsay Riordan

Individual Participants & Coach

1. Samuel Know-Forest Middle School (Hien Van Eaton)

NORTHERN VIRGINIA

Team—Longfellow Middle School Coach: Mary Jo Clark

1. Kristina Hu
2. Victoria Xia
3. Seung Young Park
4. Kevin Au

Individual Participants & Coach

1. Alex Dalzell-Longfellow Middle School (Mary Jo Clark)
2. Seung-Ho Na-Longfellow Middle School (Mary Jo Clark)

PENINSULA

Team—Tabb Middle School Coach: Brian Xu

1. Joey Hsu
2. Chi-Wei Chang
3. Alex Jamilk
4. Correy Xu

Individual Participants & Coach

1. Dmitry Zamkov-James Blair Middle School (Michael Contakes)
2. Abigail Chen-Grafton Middle School (Prakriti Verma)

RICHMOND

Team—George Moody Middle School Coach: Rebecca Sievert

1. Kevin Yuan
2. Katherine Baumann
3. Sarah Boegner
4. Conan Zhao

Individual Participants & Coach

1. Seth Bright-Manchester Middle School (Barbara Mottas)
2. Michael Chen-Manchester Middle School (Barbara Mottas)

THANK YOU
TO OUR
CHAPTER and REGIONAL
COORDINATORS

Roger Zearth, P.E.—Blue Ridge
Karl Schwartz, P.E.—Bull Run
Ray Powell, P.E.—Northern Virginia
John Wyatt, P.E.—Northern Virginia
Donald R. Swygert, P.E.—Northern Virginia
Trent Warner, P.E.—Lynchburg
Dr. Shane Parson, P.E.—Southwest
Dr. Arun K. Verma —Peninsula
Becky Golden, P.E.—Richmond
Cindy King, P.E. —Skyline
Michael Keeve—Tidewater

*Without the active support and thousands of hours donated by our coordinators and volunteers at the local level, **MATHCOUNTS** would not happen.*



1st Place Team

1st Place Team Coach: (represents VA at National Competition)

2nd Place Team

3rd Place Team

4th Place Team

(Top 4 Individuals represent VA at National Competition)

1st Place Individual

2nd Place Individual

3rd Place Individual

4th Place Individual

5th Place Individual (Alternate)

2009 Raytheon
MATHCOUNTS National Competition
May 7-10, 2009
Walt Disney World Swan & Dolphin Resort
Orlando, Florida