



Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

February 2008

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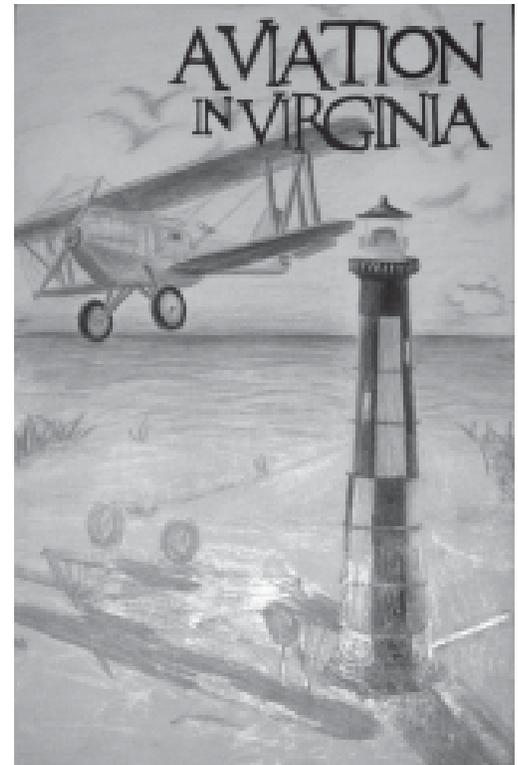
2008 Aviation Art Contest Winners

The theme of the 2008 art contest was "Aviation in Virginia." Over two hundred students from across the Commonwealth participated in this year's competition.

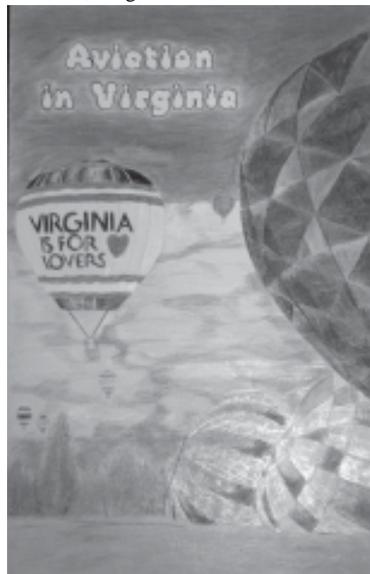
The winners in Category III are:

First Place, Category I
Lindsey Herdman, Age 17
Virginia Beach, Virginia

Second Place, Category III
Jade Albert, Age 17
Norfolk, Virginia



Third Place, Category III
Kelly Barnum, Age 16
Virginia Beach, Virginia



cont'd on page 4

PRESIDENT'S NOTES

The President's Notes have been preempted this month so we could include some extra educational opportunities:

Michelin Aircraft Tire - Careers in Aviation \$1,000 Scholarship

Careers in Aviation is pleased to announce a partnership with Michelin Aircraft Tire in offering a \$1,000 scholarship award to a qualified applicant to complete their education in the field of aerospace.

Michelin Global Marketing Communications Manager, David Barraco, states, "Our dedication toward education within the industry is demonstrated through our continued support of Careers in Aviation."

The scholarship is open to students enrolled in an aviation-related degree program. The student must maintain a grade-average of 3.0 or higher.

Careers in Aviation advances aerospace education and employment by fostering scholarships, by connecting students with available assistance, and by encouraging the aviation industry, professional associations, government agencies, and the educational community to work together effectively supporting aviation and space career development programs. If you wish to make a tax deductible contribution or receive further details regarding scholarship information, please contact Judy Rice at jrice@careersinaviation.org or 386-586-6574.

Michelin Aircraft Tire is a global manufacturer of tires and tubes for all aviation markets. With numerous technological advancements including the first aviation radial tire in 1981, and continuous quality innovations, Michelin is known throughout the industry as a leader in tire technology. Michelin supports the aviation industry through on-going training and support materials to its customers and owner-operators.

For complete scholarship eligibility requirements and application; visit www.careersinaviation.org.

Aerospace Industries Association Launches DVD Video and Web Site

The Aerospace Industries Association (AIA) has developed a DVD Video entitled "Ride the Leading Edge" which features young engineers working in the aerospace industry. The fast-paced video allows its subjects to describe their careers in their own words. The young men and women profiled talk about their backgrounds, jobs, hobbies, and by doing so, end up dispelling a lot of common myths about becoming an engineer.

AIA has also developed a supporting website, "Launch into Aerospace," which describes the aerospace industry.

For more information contact the Aerospace Industries Association at 703-358-1000 or visit www.LaunchIntoAerospace.org.

VASEF AVIATION EDUCATION NEWS is published quarterly in support of aviation education in the Commonwealth of Virginia by the Virginia Department of Aviation.

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<http://www.doav.virginia.gov> (Web site)



VASEF PURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

AOPA Becomes First Major Sponsor of Leading 2008 Aviation & Space Education Conference for Educators

The National Coalition for Aviation Education (NCAE) proudly announces that the Aircraft Owners and Pilots Association (AOPA) has become the first major sponsor of the 2008 National Conference on Aviation and Space Education (NCASE), "Today's Students: Tomorrow's Aerospace Workforce". The 39th biennial conference for educators across North America will be held in the nation's capital, October 16-18, 2008, at the Crystal Gateway Marriott Hotel in Arlington, Virginia.



"AOPA enthusiastically supports NCAE and NCASE 2008," said AOPA President Phil Boyer. "AOPA and its members are committed to expanding the pilot population, and to do that, we recognize how important it is for educators to develop and share strategies to include aerospace concepts and issues in today's mainstream curricula."

NCASE brings together more than 2000 educators from across North America for a two-day forum focusing on the integration of aviation and space concepts into core curriculum subject areas, with an emphasis on "hands-on, minds-on" sessions applied to National Standards and Standards of Learning. Representatives from aviation and space industry associations, technology developers and government organizations will also participate.

The NCASE agenda will include several tracks, including science of aviation and space, teaching and learning methodologies and technologies using aerospace education as the theme, outreach in aviation education, and importance of Educating Youth for Aerospace Careers. Participating educators will be eligible to earn 30 contact hours.

"We are thrilled that AOPA, the leading organization of pilots and aircraft owners, has partnered with us to enhance aviation and space education across the country," said Ken Cook, President of NCAE, which organizes NCASE. "Their support of NCASE represents how critical the inclusion of aviation and space education in our nation's curricula is to the future of aviation and its role in America's economy."

For more information regarding NCASE 2008, visit the conference web site at www.ncase.info.

About NCAE

The National Coalition for Aviation Education (NCAE) represents government, industry, and labor; united to promote aviation education activities and resources; increase public understanding of aviation; and support educational initiatives at the local, state, and national levels. NCAE carries out its mission through the activities of each coalition member, as well as its flagship events; the National Conference on Aviation and Space Education (NCASE) and the Leadership Conference on Aviation and Space Education (LCASE).

About AOPA

With more than 414,000 members, AOPA is the world's largest civil aviation association. Some 70% of all U.S. pilots are members of the association, which is dedicated to protecting the interests of general aviation.

National Air and Space Museum Calendar

Saturday, March 15, 2008

Family Day

Kites of Asia
(National Mall Building) *Smithsonian Kite Festival held later this month
10:00 a.m.-3 p.m.

Thursday, March 27, 2008

General Electric Aviation Lecture

An Evening with America's First Female Thunderbird Pilot

Maj. Nicole Malachowski

(National Mall Building-Lockheed Martin IMAX® Theater)
8:00 p.m.

Admission: Free, Tickets Required

Saturday, April 12, 2008

Family Day

Celebrating 400 years of the Telescope
(Steven F. Udvar-Hazy Center)
10 a.m.-3 p.m.
Admission: Free

Saturday, May 3, 2008

Family Day

Space Day
(Throughout the National Mall Building)
10:00 a.m.-3 p.m.
Admission: Free

Tuesday, May 13, 2008 through Saturday, May 17, 2008

National Children's Book Week

Flights of Fancy - Stories for Children ages 3-7

(Steven F. Udvar-Hazy Center)
10:00 a.m.-3:00 p.m.
Admission: Free

Saturday, April 12, 2008

Family Day

Celebrating 400 years of the Telescope
(Steven F. Udvar-Hazy Center)

Museum Tours

Docent-led tours highlight the museum's collection and trace the history of air and space travel. Daily at 10:30 a.m. and 1:00 p.m. at both Museum locations.

For more information visit:

www.nasm.si.edu

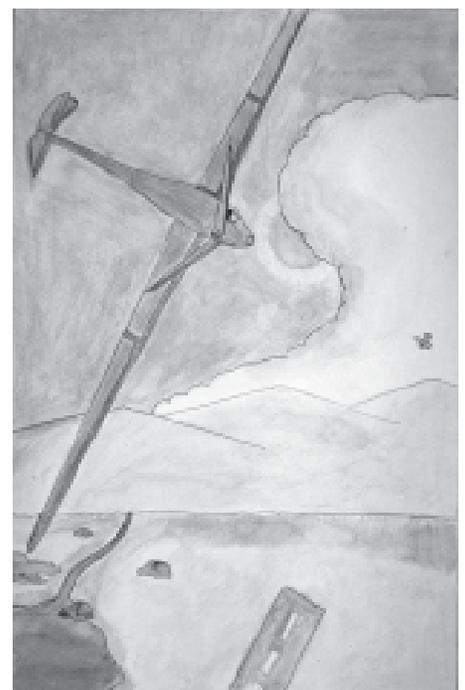
2008 Aviation Art Contest Winners, cont'd



First Place, Category II
Dylan Bozic, Age 13
Crimora, Virginia



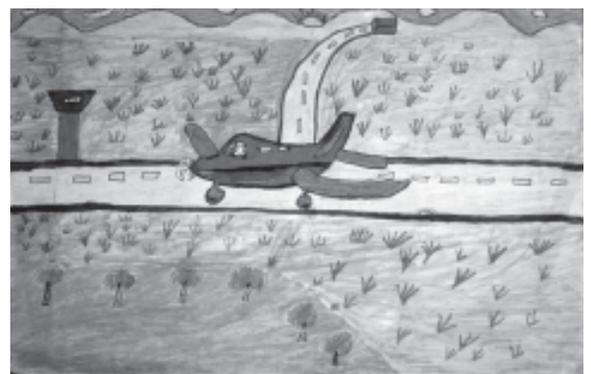
Second Place, Category II
Rosie Duvic, Age 13
Vienna, Virginia



Third Place, Category II
Matthew Severance, Age 12
Clifton, Virginia



First Place, Category I
Derek Yancey, Jr., Age 9
Mineral, Virginia



Third Place, Category I
Roshan George, Age 8
Charlottesville, Virginia



Second Place, Category I
Lacey M. Bristow, Age 8
King & Queen C.H., Virginia

Thanks go out to all who participated in this year's contest.

A special thanks go out to this year's judges: Luther Gore, Dick Carpenter, and Bill Kluge, all Virginia members of the American Society of Aviation Artists (ASAA) - <http://www.asaa-avart.org>.



ANNOUNCING

Virginia Aerospace Science and Technology Scholars - 2008



A NASA-based science, technology, engineering and mathematics (STEM) educational program for high school juniors in Virginia

Become a Virginia Aerospace Science and Technology Scholar!
Explore where science, math and technology can take you.

Virginia Space Grant Consortium and NASA Langley Research Center, with the assistance of the Virginia Department of Education, are partnering to provide an exciting new pilot opportunity for high school students in Virginia.



Virginia Aerospace Science and Technology Scholars is a competitive program that allows high school juniors to apply to take an engaging online NASA-developed course using a Space Exploration theme to teach a broad range of science, technology, engineering and mathematics (STEM) skills aligned with Virginia's Standards of Learning. After successfully completing the course, Scholars participate in an all expense paid, six-day residential academy at NASA Langley Research Center.

Aerospace Scholar Coursework – offered online from April through June 2008, this graded course consists of ten lessons and a final project that allow students to build their knowledge of NASA and space exploration and key STEM skills. Master Educators will work with students online throughout the course.

Residential NASA Summer Academy – Students selected for the Summer Academy spend six days with science, engineering and technology mentors and master educators at NASA Langley Research Center in Hampton from July 27 – August 1, 2008. They will undertake a mentored team aerospace mission and will be immersed in hands-on, experimental STEM activities.

To apply you must:

- Be a high school junior with an interest in science, technology, engineering or math
- Be a Virginia resident and a US citizen
- Have a minimum GPA of 2.7
- Be at least 16 years old
- Have internet access and e-mail to complete online assignments (home, school or library)

Additional background and application forms can be found at
www.vasts.spacegrant.org

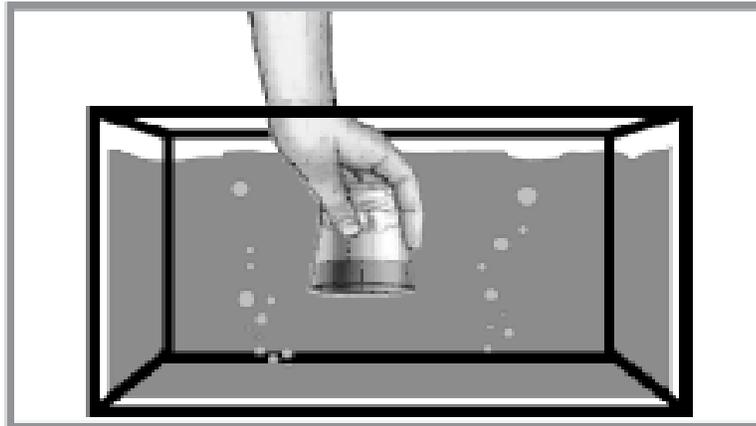
Application deadline is March 14, 2008.



Aviation Education Corner: Dunked Napkin Experiment

Gas, solid, and liquid are states of matter found on Earth. One of the basic characteristics of matter is that it occupies space. An observer can “see” a glass of milk sitting on a table. The milk and table are objects that occupy a measurable part of the total volume or space in the room.

Although air is present in the room with other matter, a visual aid is necessary for an observer to “see” that air occupies a portion of space as well. In this experiment a plastic cup containing air and a crumpled napkin are turned upside down and placed into a container of water. Air and water cannot occupy the same space at the same time, therefore the napkin remains dry.



When conducting scientific inquiry, scientists begin by asking questions about why something is a certain way. In this case, “does air take up space?” Based on the question, they predict what the answer is. This is called forming a *hypothesis*. The next step is to test the hypothesis with an experiment. Scientists draw *conclusions* from the results of their experiment, which leads them to either accept or reject their hypothesis.

The Experiment

This experiment will help answer the question “Does air take up space?”

Materials: Clear plastic cup, napkin, water, basin or small aquarium, and newspaper or drop cloth.

1. Place a drop cloth or newspaper on your work surface. Fill a basin with water.
2. Crumple a napkin and put it at the bottom of the cup. The napkin should fit tightly, and not fall out when the cup is inverted.
3. Predict what will happen to the water and napkin when you turn the cup so that the mouth faces downward and place it in the basin of water.

I predict:

4. Place the inverted cup into the basin of water. Hold it under water for two minutes and observe what happens.

5. Write or draw what you saw happen to the napkin.

6. Carefully pull the cup out of the water and remove the napkin. Is the napkin wet or dry?

7. Can you explain the results of your experiment?

8. Use the results of your experiment to answer this question: Does air take up space?



The Virginia Aviation Museum

March 25, 2008

Introduction to Aviation

This is an intensive, day-long study of aerodynamics, navigation, instrumentation and the basics of flight. This class is designed for ages 10-17 and meets all of the requirements for the Boy Scout Aviation Merit Badge. Classes meet 9:30 a.m.-4:30 p.m. with a break for lunch. Fee is \$35 for non-members (\$25 for museum members.) Pre-registration is required.

March 29- 30, 2008

Wings ‘n’ Rails

Join us from 9:30- a.m.-5 p.m. at the 9th annual model railroad extravaganza featuring scale layouts including LEGO-sized Richmond sights and hands-on workshops and activities for children and adults.

The Virginia Aviation Museum is located at the entrance to the Richmond International Airport. For additional information on museum hours and programs call (804) 236-3622.

2008 A. Scott Crossfield Aerospace Education Teacher of the Year Award

A Message to the Classroom Teachers of America:

"It is again time to announce that nominations for the A. Scott Crossfield Aerospace Education Teacher of the Year Award are open. This award for a classroom teacher is in memory of the public school teachers who so wondrously influenced my whole life. It is dedicated to the past recipients, who in addition to having proven their dedication and worth to aerospace education, have all gone on to greater contributions of major significance. The objective is to recognize and reward aerospace education teachers for outstanding achievement in aerospace education and to encourage further achievement in teaching aerospace."

"Our aerospace future in today's classrooms is in your hands. This we honor."

"With warmest regards and respect,"

A. Scott Crossfield

1921-2006

(The words above are those of A. Scott Crossfield, Record Setter and Test pilot --he was the first person to exceed Mach 2 and to surpass Mach 3. They were used to announce this award, presented in his name, each year.)

Purpose, Award, and Qualifications

Purpose: The A. Scott Crossfield Aerospace Education Teacher of the Year Award (the Crossfield Award) is presented to recognize and reward aerospace education classroom teachers for outstanding accomplishments in aerospace education and for possessing those honorable attributes we expect from American Teachers.

Award Elements: Recipients receive 2 seats at the National Aviation Hall of Fame (NAHF) President's Reception & Dinner where the winner will receive a \$1,000 cash stipend, 2 seats at the NAHF Enshrinement Dinner & Ceremony the following night, 2 nights lodging and prior approved roundtrip transportation costs to Dayton, Ohio for the winner and guest. The winner and guest also receive invitation to attend several private NAHF events held in conjunction with the enshrinement weekend.

Qualifications: Nominees must be current classroom teachers from grades kindergarten through twelfth from any public, private, or parochial school. Nominees must either teach aerospace education* as a subject or use aerospace education to enrich the teaching of traditional subjects. Although the Crossfield Award is an award presented to a teacher, the accomplishments of the nominee need not be limited to the year for which the award is given. The award recognizes dedicated and talented aerospace education teachers who:

1. Set high standards for students and demand excellence in student performance.
2. Strive to improve their personal academic competence and teaching ability.
3. Perform their teaching duties in an exemplary manner, resulting in true learning by students.
4. Demonstrate creativity in developing and utilizing materials to enhance the teaching of aerospace.
5. Maximize student involvement and classroom activities to improve student learning or create and develop a one-time project or program of such significance that it has a major impact on the teaching of aerospace education.

Nomination packages may be submitted January 1, 2008 - May 1, 2008.

To download a nomination package please visit the National Aviation Hall of Fame's website and select 2008 Crossfield Award.

<http://nationalaviation.blade6.donet.com>

SCIENCE MUSEUM OF VIRGINIA

CALENDAR

IMAX Films:

Sea Monsters: A Prehistoric Adventure (thru April 18th)

The Human Body: (thru May 4th)

Carpenter Science Theatre Company

Genius in the Attic: the Restless Curiosity of Alexander Graham Bell (March 29th-April 25, 2008 Wednesdays-Fridays at 11 a.m. and 12:30 p.m., Saturdays at 1 and 3 p.m. \$8.50)

Traveling Exhibit: Zap! Surgery Beyond the Cutting Edge (thru May 4)

Planetarium Show: What's Up? Night Sky Observations (thru Fall 2008)

LiveSky: If you are fascinated by the ever-changing night sky, this interactive planetarium show is for you. 6 p.m. Free. (March 21, 2008)

SkyWatch: Join members of the Richmond Astronomical Society on the front lawn as they share their telescopes for a look at the night sky (weather permitting). 8 p.m. Free. (March 21, 2008)

24-Hour Information: (804) 367-0000

Box Office: (804) 367-1080

24-Hour Skywatch Information: (804) 367-8277

24-Hour TDD Information: (804) 367-9760

General Information - TDD: (804) 367-6552

Group Scheduling: (804) 367-6552

Home Page: <http://www.smv.org>

VIRGINIA AIR AND SPACE CENTER

CALENDAR

EXHIBITS:

Adventures in Flight Gallery

Air & Space Craft

Ham Radio Exhibit

Traveling Exhibits:

Candy Unwrapped! (Now through September 1, 2008)

Spring Break Camp (March 24 - 28, 2008 or April 7 - 11, 2008)

Candy, Confections and Chocolate Chips

9 a.m. to 3 p.m.

Grades K-2, 3-5, 6-7

\$150 non-members/\$145 members

IMAX Films:

IMAX U2 in 3D

Call (804) 727-0900 for showtimes.

Visit the Center's Home Page:

<http://www.vasc.org>

June 1, 2008

New London Fly-In will take place from 8:00 a.m. - 4:00 p.m. Down home fly-in with fun for all ages! Country Style breakfast from 8:00 a.m. - 10:00 a.m.. All American lunch at noon with refreshments all day. Kid friendly activities including "Bomb Drop," and static aircraft and car display. Raindate: June 8, 2008. For more information contact David Miller, Airport Manager, at 540-874-7776 or millerrv6@verizon.net or visit www.newlondonairport.com.

June 14-15, 2008

Virginia Regional Festival of Flight will take place at the Suffolk Executive Airport. Includes a full range of fly-in activities, including forums, workshops, aviation vendor displays, aircraft demonstration flights, activities for young people and acres of parking for attendees either flying or driving in. For more information visit VirginiaFlyIn.org.

June 14, 2008

Become A Pilot! will take place from 10:00 AM to 3:00 PM at the Steven F. Udvar-Hazy Center . Admission: Free, Parking \$12

October 16-18, 2008

National Conference on Aviation and Space Education will take place at the Crystal Gateway Marriott Hotel in Arlington, Virginia. The theme for 2008 is "Today's Students: Tomorrow's Aerospace Workforce." For more information visit: www.ncase.info

For more event information visit www.doav.virginia.gov.

Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.

- _____ Regular Membership \$25.00 annually (July - Dec. \$12.50)
- _____ Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)
- _____ Corporate Membership \$100.00 annually (July - Dec. \$50.00)
- _____ New Member _____ Renewal

Date: _____

Name: _____

Name of Organization: _____

Occupation: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____

Please Return To: Tom Tyndall, VASEF Treasurer
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Art Contest Results

*VA Aerospace Science
& Technology Scholars*

NCASE

Please Post for Teachers