

2014

Miami-Dade STEM Expo

Going at full **STEAM**

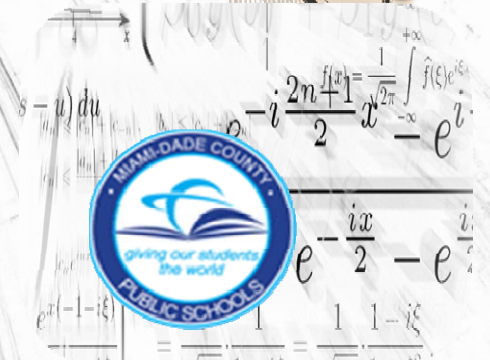
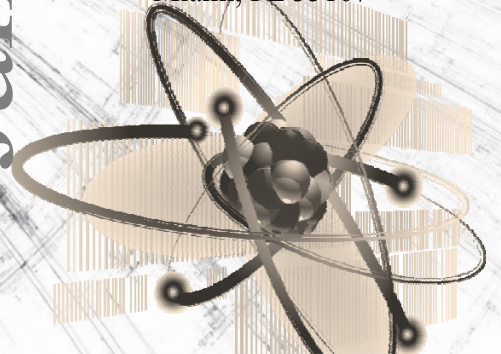
Science, Technology, Engineering, Art, Mathematics

ATTENDED

8000+

January 25, 2014

Miami Dade College, North Campus
Science Complex
11380 N.W. 27th Avenue
Miami, FL 33167



Division of Academics, Accountability, and School Improvement
Department of Mathematics and Science

THE SCHOOL BOARD OF MIAMI-DADE COUNTY, FLORIDA

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Miami-Dade County Public Schools

giving our students the world

Superintendent of Schools

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Dr. Wilbert "Tee" Holloway

Dr. Martin Karp

Dr. Marta Pérez

Raquel A. Regalado

January 13, 2014

Dear Miami-Dade STEM Expo participants:

Welcome to the 2014 Miami-Dade Science, Technology, Engineering, and Mathematics STEM Expo, a gathering of Dade County's most creative, intelligent, and resourceful students who will compete and demonstrate their prowess in STEM activities.

This event is an excellent opportunity for students to showcase the fruits of their hard work and provides a learning experience on the responsibility of communicating STEM research to the community. As we continue to educate our children and prepare them for the challenges of tomorrow, we are building a better future by encouraging our students to explore, discover, and solve problems through STEM.

Thanks to all the participating community members, teachers, administrators, and organizations that contribute to the success of this event. I also want to acknowledge the staff of both Miami-Dade County Public Schools and Miami Dade College-North Campus for their commitment to the education of our students and for making this event a reality.

On behalf of the School Board of Miami-Dade County, Florida and the Miami-Dade County Public Schools' community, I thank you for your participation in the Miami-Dade STEM Expo. Congratulations to all the student participants, and a special thank you to the parents, mentors, and teachers who encouraged and supported them in their projects. As partners in education, we are enabling our children to realize their hopes for the future and securing a better world for everyone.

Sincerely,

Alberto M. Carvalho
Superintendent of Schools

AMC:mf
L433

Miami-Dade STEM Expo

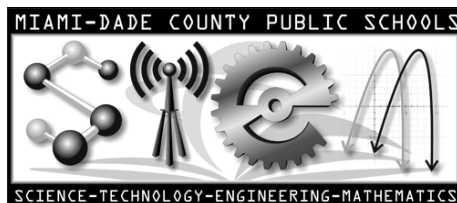
NOTES

Going at Full STEAM

Science, Technolgy, Engineering, Art, Mathematics

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<http://stem.dadeschools.net>

Miami-Dade STEM Expo
HONORS AND ACCOLADES
Going at Full STEAM

Science, Technolgy, Engineering, Art, Mathematics



Miami-Dade STEM Expo AGENDA Saturday, January 25, 2014

Building A – Science Complex

8:45 a.m. – 9:45 a.m. Opening Ceremony – Science Complex

Various locations on campus (see pages 4 – 7)

10:00 a.m. – 1:30 p.m. Elementary Science Fair Judging (closed event)

10:00 a.m. – 3:00 p.m. South Florida Regional Science and Engineering Fair Judging (closed event)

10:00 a.m. – 2:30 p.m. SECME Competitions (spectator and closed events)

10:00 a.m. – 1:00 p.m. Guest Presentations and Interactive Workshops

Building 5: Lehman Theatre

10:00 a.m. – 10:20 a.m. Captain Barrington Irving –Building 5, Lehman Theatre

10:00 a.m. – 11:00 a.m. Barrington Irving Super Car - Building 5, Lehman Theatre drop off

10:30 a.m. – 11:00 a.m. Miami Dade College - Building 5, Lehman Theatre

11:15 a.m. – 11:45 a.m. Mr. Philippe Cousteau –Building 5, Lehman Theatre

Gymnasium

10:00 a.m. – 11:30 p.m. Mousetrap Car - Gymnasium

Water-bottle Rocket Launch - Gymnasium Parking Lot 9

11:30 a.m. – 12:30 p.m. Egg Drop Container testing – Gymnasium Parking Lot 9

Building 1

10:00 a.m. – 1:00 p.m. WaterVentures Mobile STEM Lab – Building 1 (North-side) drop-off

Building 3

10:00 a.m. – 1:00 p.m. Miami Dade College Interactive STEM Tables, Building 5, Courtyard

Weather on Wheels – Building 3, grassy area

Science with a Twist (SWAT) – Building 3, Courtyard

11:00 a.m. – 2:00 p.m. Lunch available - Food trucks (Science Complex) and cafeteria (Bldg. 4)

Science Fair Gallery of Projects – Open to the Public

1:30 p.m. – 2:30 p.m. Elementary Science Fair Projects – Building 3

3:00 p.m. – 4:00 p.m. South Florida Regional science and Engineering Fair Projects – Building A

Building 5: Lehman Theatre

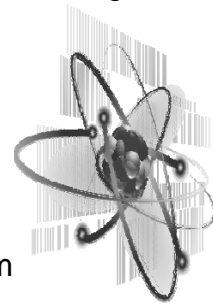
2:00 p.m. – 2:40 p.m. SECME Elementary Award Presentation

2:45 p.m. – 3:20 p.m. SECME Middle School Award Presentation

3:25 p.m. – 4:00 p.m. SECME Senior High School Award Presentation

Building 4

2:30 p.m. – 3:30 p.m. Elementary Science Fair Awards Ceremony - Building 4, Atrium



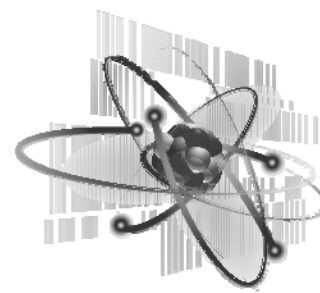
Opening Ceremony

Science Complex, Main Stage

8:45 a.m. – 9:45 a.m.

Mistress of Ceremony

Dr. Cyd Heyliger-Browne
Richmond Heights Middle School



Miami Carol City Senior High School Marching Band
Harold Hankerson, Director of Bands

Call to Colors & Pledge of Allegiance

Miami Carol City Senior High School Color Guard
Major Johnny Isaac

8:45 a.m. – 8:50 a.m.

National Anthem

Ms. Sara Saborido, Teacher
Cutler Ridge Middle School

8:51 a.m. – 8:55 a.m.

Welcome

Mr. Cristian Carranza, Administrative Director
Office of Academics, Accountability, and School Improvement

8:56 a.m. – 8:59 a.m.

Opening Remarks

Ms. Maria L. Izquierdo, Chief Academic Officer
Miami-Dade County Public Schools

9:00 a.m. – 9:04 a.m.

Ms. Malou C. Harrison, Interim Campus President
Miami Dade College, North Campus

9:05 a.m. – 9:09 a.m.

Honored Guests

Mr. Philippe Cousteau, Jr.
Captain Barrington Irving

9:10 a.m. – 9:15 a.m.

Closing Remarks

Dr. Ava D. Rosales, Executive Director
Department of Mathematics and Science

9:16 a.m. – 9:20 a.m.

Parade of SECME Banners




9:20 a.m. – 9:45 a.m.

Dismissal

March of the Competitors and Spectators



Miami-Dade STEM Expo at-a-Glance

Time	 Elementary Science Fair Page 4	 South Florida Regional Science & Engineering Fair Page 5	 SECME Page 6
8:00 a.m.	Judge's Check-in & Orientation		
8:45 a.m. – 9:45 a.m.	Opening Ceremony		
10:00 a.m. – 1:00 p.m.	Interactive Workshops		
10:00 a.m.	Judging	Judging Projects – Students Only Bridges – Open to the Public	Competitions
10:30 a.m.			
11:00 a.m.			
11:30 a.m.			
12:00 p.m.			
12:30 p.m.			
1:00 p.m.			
1:30 p.m.			
2:00 p.m.			Award Ceremony - Elementary
2:30 p.m.	Award Ceremony		Project Retrieval
3:00 p.m.	Project Retrieval	Gallery of Projects Open to Public	Award Ceremony – Secondary
3:30 p.m.			Project Retrieval
4:00 p.m.		Project Retrieval	



Lunch available from 11:00 a.m. – 2:00 p.m.



M-DCPS Elementary Science Fair



Buildings 3 and 4 8:00 a.m. – 3:30 p.m.

- 8:00 a.m. Judge's Check-in & Orientation (Building 3, Room 3238 and 3239)
Student Check-in Science Complex, Outside A-104
- 8:45 a.m. – 9:45 a.m. Opening Ceremony, Science Complex
- 10:00 a.m. – 1:00 p.m. *Interactive Workshops and Mobile STEM Labs*
Weather on Wheels (Building 3, grassy area)
SWAT: Science with a Twist (Building 3, Courtyard)
WaterVentures Mobile Laboratory (Building 1 North side drop-off)
- 10:00 a.m. – 1:30 p.m. Elementary Science Fair Judging, Building 3 (Room 3249)
- 12:00 p.m. – 1:30 p.m. LUNCH – Cafeteria, Science Complex and Food Trucks
- 1:30 p.m. – 2:30 p.m. *Gallery of Projects* – Open to the Public, Building 3 (Room 3249)
- 2:30 p.m. – 3:30 p.m. Elementary Science Fair Award Ceremony (Building 4 Atrium)**
- Mistress of Ceremony Ms. Glenda Moton, Science Coach
Nathan B. Young Elementary School
- Remarks Dr. Ava D. Rosales, Executive Director
Department of Mathematics and Science
- Presentation of Awards Dr. Millard Lightburn, District Supervisor
Department of Mathematics and Science

Elementary projects available for pick-up from 3:30 p.m. to 4:30 p.m.
Projects left behind will be discarded





South Florida Regional Science and Engineering Fair



Science Complex 8:00 a.m. – 6:00 p.m.

7:30 a.m. Judge’s Check-in & Orientation, Building 3, Room 3201 and 3202
 8:00 a.m. Student Check-in Science Complex, Exhibit Rooms
 8:45 a.m. – 9:45 a.m. Opening Ceremony, Science Complex
 10:00 a.m. – 12:00 p.m. Judging of Projects Student Exhibitors only, Science Complex

- Animal Sciences.....A315
- Behavioral and Social Science.....A311
- BiochemistryA116
- Cellular and Molecular BiologyA116
- Chemistry.....A104
- Computer Science.....A315
- Earth ScienceA104
- Engineering: Electrical and Mechanical.....A301
- Engineering: Materials and Bioengineering.....A315
- Energy and Transportation A117-118
- Environmental ManagementA104
- Environmental SciencesA104
- Medicine and HealthA114
- Microbiology.....A116
- Physics and Astronomy A117-118
- Plant Sciences A102-103
- Research Paper (Judges Only)..... Building 3 (3201 and 3202)
- Bridges (Open to the Public)..... Main Stage

10:00 a.m. – 1:00 p.m. *Interactive Workshops*
 12:00 p.m. – 1:00 p.m. LUNCH, Cafeteria, Science Complex and Food Trucks
 1:00 p.m. – 3:00 p.m. Judging, Continued
 3:00 p.m. – 4:00 p.m. *Gallery of Projects* – Open to the Public, Science Complex

*Projects available for pick-up from 4:00 p.m. to 5:00 p.m.
 Projects left behind will be discarded*



19th Annual SECME Olympiad and Festival

SECME: Going Out on a STEM



Various Locations 8:00 a.m. – 4:00 p.m.

- 8:00 a.m. Judges and SECME Teacher Coordinators Check-in & Orientation
 SECME Coordinators/School Teacher Representative: Science Complex Hallway – behind stage
 SECME Judges: Gymnasium
- 8:30 a.m. Banner Check-in & Line-up Science Complex Hallway -North side of building (behind stage)
- 8:45 a.m. – 9:45 a.m. Opening Ceremony and Parade of Banners - Science Complex

*Spectator Events Public invited to observe		**Closed Events Registered competitors only
Bionic Hand Competition	Mousetrap Car	Banners
Brain Bowl Semi-Finals	Vex Robotics	Brain Bowl Preliminary
Bridges	Water-Bottle Rockets	Mathematics
Egg Drop	Bionic Hand Competition	

Elementary School (ES), Middle School (MS), Senior High School (SHS)

- 10:00 a.m. Phase I Competitions
 SECME Competitors retrieve pre-constructed projects from Gymnasium
- Banner^{**}: Gymnasium
 - Brain Bowl Preliminary^{**}: ES, Building 4 – Quiet Dining; SHS, Building 2 (2151)
 - Mathematics^{**}: SHS, Building 4, M/J Taylor Lounge 4207-1
 - Mousetrap Car^{*}: Gymnasium
 - Water-Bottle Rockets^{*}: Lot 9 behind Gymnasium
 - The Yaeger Foundation, Inc., 11th Annual Bionic Hand Competition^{*}: SHS, Building 2 (2158)
- 10:00 a.m. – 1:00 p.m. Interactive Workshops
- 11:00 a.m. Phase II Competition ^{**}
- Brain Bowl Preliminary^{**}: MS, Building 2 (2151)
 - Mathematics^{**}: ES Building 4 – Quiet Dining and MS, Building 4 M/J Taylor Lounge 4207-1
- 11:30 a.m. Phase III Competition
- Egg Drop^{*}: Lot 9, behind Gymnasium
 - Bionic Hand Competition^{*}: MS, Building 2 (2158)
- 11:00 a.m. – 2:00 p.m. LUNCH– Building 4 – Cafeteria, Science Complex and Food Trucks

- 12:30 p.m. Phase IV Competition
- Bridges*: Science Complex Stage
 - Vex Robotics*: Gymnasium
 - Brain Bowl Semi-Final*: SHS, Building 2 (2151)

- 1:30 p.m. Phase V Competition
- Brain Bowl Semi-Finals*: ES, Lehman Theatre, Building 5
 - Display of Banners*: Gymnasium
 - Brain Bowl Semi-Finals*: MS, Building 2 (2151)

*SECME projects available for pick-up from 2:00 p.m. to 3:30 p.m.
Projects left behind will be discarded*

2:00 p.m. – 4:00 p.m. SECME Olympiad & Festival Awards Ceremony
Lehman Theatre, Building 5

- 2:00 p.m. – 2:40 p.m. SECME Elementary Award Presentation
2:45 p.m. – 3:20 p.m. SECME Middle School Award Presentation
3:25 p.m. – 4:00 p.m. SECME Senior High School Award Presentation

Mistress of Ceremony
Dr. Cyd Heyliger-Browne, Science Coach
Richmond Heights Middle

Officiates
Dr. Heather Belmont, Dean of the School of Science
Miami Dade College, North Campus

Mr. Cristian Carranza, Administrative Director
Office of Academics and Transformation

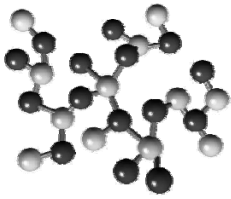
Dr. Ava D. Rosales, Executive Director
Department of Mathematics and Science

Presentation of Awards Department of Mathematics and Science

Mrs. Yoly McCarthy, Instructional Supervisor
Dane Jaber, Curriculum Support Specialist
Nestor Marcia, Curriculum Support Specialist - SECME Stars III
Mary Tweedy, Curriculum Support Specialist

Elementary School (ES), Middle School (MS), Senior High School (SHS)





Interactive Workshops

Below, please find a listing of *Interactive Workshops* providing students, parents, teachers, and other educational stakeholders with an opportunity to learn all about the STEM related resources in our community. Visit with representatives from a variety of areas who will address current research, post-secondary options, and educational strategies for teaching and learning.

- A. Captain Barrington Irving, Explorer Building 5, Lehman Theatre 10:00 a.m. – 10:20 a.m.**
This interactive dialogue showcases how a Miami-Dade County Public School graduate has used his talent and accomplishments to give back to his community and the next generation of prospective STEM graduates.
- B. Miami Dade College Building 5, Lehman Theatre 10:30 a.m. – 11:00 a.m.**
This workshop will be conducted by staff from the MDC North Campus, providing students and parents an opportunity to better understand the many options available to them for paying for college, including information about student aid opportunities from the federal government, state, postsecondary institutions, scholarships, and private sources.
- C. Mr. Philippe Cousteau, Jr., Naturalist Building 5, Lehman Theatre 11:15 a.m. – 11:45 a.m.**
This interactive dialogue delves into the world of the legendary Cousteau family and the most recent collaboration with Miami-Dade County Public Schools is the Toyota Earth Echo Expeditions.
- D. Miami Dade College STEM Information Tables Building 5, Courtyard 10:00 a.m. – 1:00 p.m.**
Miami Dade College staff at these tables will provide resources and information for students and parents seeking postsecondary studies, opportunities, and preparation.
- E. STEM Vehicles and Mobile Labs:**
These interactive, mobile learning vehicles feature enriching and engaging hands-on activities that offer experiential learning that will inspire critical thinking and empower students to make a difference in the world around them and advance their knowledge of the integration of science, technology, engineering and mathematics (STEM).
- WaterVentures STEM Lab Building 1, Drop off (North Side) 10:00 a.m. – 1:00 p.m.**
Discover Florida's diverse watersheds, water conservation and recycling.
- Weather on Wheels – MAST Academy Building 3, Grassy area 10:00 a.m. – 1:00 p.m.**
This interactive mobile lab experience focuses on weather and climate.
- Barrington Irving – Super Car Building 5 Lehman Theatre, drop-off 10:00 a.m. – 11:00 a.m.**
See the amazing car that was constructed by Miami-Dade County Public Schools students and was raced against an airplane.
- F. SWAT : Science With a Twist Building 3, Courtyard 10:00 a.m. – 1:00 p.m.**
Visit the interactive science hands-on activities for elementary students and experience the excitement of *science, technology, engineering and mathematics (STEM) in action..*

Honored Guests



Philippe Cousteau, Jr., Naturalist

Explorer, social entrepreneur and environmental advocate, Philippe Cousteau is the 33-year-old son of Jan and Philippe Cousteau Sr., and the grandson of Captain Jacques-Yves Cousteau. Philippe is a special correspondent for CNN International where he is the host of the Going Green series and reports on environmental and humanitarian stories worldwide. As a member of the legendary Cousteau family, Philippe is continuing the work of his father through EarthEcho International where his goal is to engage and empower people to take action for a brighter future. In addition to his work with EarthEcho, Philippe is co-founder of Azure Worldwide, a strategic environmental design, development and marketing company. Recently, Philippe and his multi-disciplinary team partnered with the U.S. Department of State to design and operate the USA Pavilion experience at Expo 2012 in Yeosu Korea. Philippe also served as the Chief Spokesperson for the USA Pavilion. Extending his social and environmental work to the financial realm, Philippe has partnered with AdvisorShares Investments to launch the Global Echo Exchange Traded Fund on the New York Stock Exchange as well as the formation of GlobalECHO Foundation, a 501 (c)(3) of which he serves as Co-founder and Chairman. The Global Echo Foundation leverages financial markets to provide resources that help solve challenges facing the world community from social issues impacting women and children to environmental conservation, as well as supporting micro-enterprise. Philippe also coauthored the award-winning book *Going Blue, A Teen Guide to Saving Our Oceans, Lakes, Rivers & Wetlands* as well as the recently published *Make a Splash: A Kid's Guide to Protecting Our Oceans, Lakes, Rivers, & Wetlands* and has just announced that he is authoring a children's book called *Lights out for Loggerheads* with Chronicle books.

Captain Barrington Irving, Explorer

Captain Barrington Irving, a Guinness World record holder secured his place in history as the youngest person at age 23 to fly solo around the globe in 2007. Barrington founded a nonprofit organization Experience Aviation to introduce youths to career paths in Science, Technology, Engineering and Math. In the summer of 2008, Experience Aviation launched a 10-week program entitled Build & Soar that gave 60 Miami Dade students the opportunity to construct an aircraft that was then piloted for the first time by Barrington.

In 2012, Captain Barrington Irving challenged 30 Miami Dade County Public School students to build something many adults only dream of: a Supercar. In constructing the car, students as young as eight learned to use advance Science, Technology, Engineering and Math (STEM) skills.

Barrington has received numerous awards such as a National Geographic Emerging Explorer, Congressional Resolution, Florida State Medallion of Excellence, Letter from President Obama and Former President Bush and other high honors. Barrington is preparing to make history again by transforming a jet into the World's First Flying classroom broadcasting learning from 41,000 ft. and conducting one of a kind expeditions with National Geographic.

Elementary Science Fair Schools



<p><i>Advantage Academy Santa Fe</i></p> <p><i>Agenoria S. Paschal/Olinda Air Base</i></p> <p><i>Amelia Earhart Arch Creek</i></p> <p><i>Archimedean Academy Arcola Lake</i></p> <p><i>Auburndale Barbara Hawkins</i></p> <p><i>Ben Sheppard Biscayne</i></p> <p><i>Blue Lakes Bob Graham Education Center</i></p> <p><i>Calusa Charles Hadley</i></p> <p><i>Charter School at Waterstone</i></p> <p><i>Christina M. Eve Citrus Grove</i></p> <p><i>Claude Pepper Coconut Grove</i></p> <p><i>Coral Reef Coral Terrace</i></p> <p><i>Crestview Cutler Ridge</i></p> <p><i>Cypress Dante Fascell</i></p> <p><i>Doral Academy Dr. Edward L. Whigham</i></p> <p><i>Dr. Gilbert L. Porter Dr. Henry Perrine</i></p>	<p><i>E.W.F Stirrup Emerson</i></p> <p><i>Fairlawn Elementary Community</i></p> <p><i>Florida International Academy</i></p> <p><i>Frances S. Tucker Greenglade</i></p> <p><i>Greynolds Park Gulfstream</i></p> <p><i>Henry M. Flagler Hialeah</i></p> <p><i>Howard Drive Imater Academy</i></p> <p><i>Irving and Beatrice Peskoe Jack D. Gordon</i></p> <p><i>Jesse J. McCrary Jr Joe Hall</i></p> <p><i>Kendale Kensington Park</i></p> <p><i>Kinloch Park Madie Ives</i></p> <p><i>Mae Walters Mater Academy (Miami Beach)</i></p> <p><i>Maya Angelou Miami Heights</i></p> <p><i>Miami Shores Miami Springs</i></p> <p><i>Myrtle Grove Norma Butler Bossard</i></p> <p><i>North Beach North Dade Center for Modern Languages</i></p>	<p><i>North Hialeah Norwood</i></p> <p><i>Ojus Oliver Hoover</i></p> <p><i>Orchard Villa Oxford Academy of Miami</i></p> <p><i>Palm Springs Palm Springs North</i></p> <p><i>Palmetto Pinecrest Cove Academy</i></p> <p><i>Pinecrest Rainbow Park</i></p> <p><i>Redland Redondo</i></p> <p><i>Rockway Scott Lake</i></p> <p><i>Shadowlawn Shenandoah</i></p> <p><i>Silver Bluff Southside</i></p> <p><i>Spanish Lake Sunset</i></p> <p><i>Sunset Park Sweetwater</i></p> <p><i>Sylvania Heights Tropical</i></p> <p><i>Village Green Wesley Mathews</i></p> <p><i>West Hialeah Gardens Whispering Pines</i></p> <p><i>Youth Co-op Charter School</i></p> <p><i>Zora Neale Hurston</i></p>
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K – 8 Centers

<p><i>Ada Merritt K-8 Center</i></p> <p><i>Aventura Waterways</i></p> <p><i>Bowman Ashe/Doolin Academy</i></p> <p><i>Carrie Meek/Westview</i></p> <p><i>Coconut Palm Academy</i></p> <p><i>Coral Gables Preparatory Academy</i></p>	<p><i>Devon Aire Ernest R. Graham</i></p> <p><i>Eugenia B. Thomas Fienberg/Fisher</i></p> <p><i>John I. Smith Key Biscayne</i></p> <p><i>Leewood Leisure City</i></p>	<p><i>Linda Lentin Mandarin Lakes</i></p> <p><i>Norman S. Edelcup/Sunny Isles</i></p> <p><i>Ruth K. Broad/Bay Harbor</i></p> <p><i>South Miami Vineland</i></p>
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South Florida Regional Science and Engineering Fair Schools



Middle Schools

Arvida
Aventura City of Excellence
Bob Graham Education Ctr
Brownsville
Campbell Drive
Carol City
Centennial
Coral Gables Preparatory Academy
Cutler Ridge
George Washington Carver
Hammocks
Highland Oaks
Homestead
Horace Mann
Howard D. McMillan
John F. Kennedy
Jorge Mas Canosa
Jose Marti Mast 6-12 Academy
Kinloch Park

Lamar Louise Curry
Lawton Chiles
Miami Lakes
Miami Springs
Nautilus
North Dade
Palm Springs
Palmetto
Paul W. Bell
Ponce De Leon
Redland
Riviera
Rockway
Ruben Dario
Southwood
W. R. Thomas
Young Women'S Preparatory Academy
Zelda Glazer

K-8 Centers

Ada Merritt
Aventura Waterways
Bowman Ashe/Doolin K-8 Academy
Coconut Palm K-8 Academy
Coral Way
Devon Aire
Ernest R Graham
Eugenia B. Thomas
Fienberg/Fisher
Frank C. Martin
Gateway Environmental
Irving & Beatrice Peskoe

Jane Roberts
John I. Smith
Kenwood
Key Biscayne
Leewood
Linda Lentin
Mandarin Lakes
Miami Lakes
Winston Park
Ruth K Broad/Bay Harbor
South Miami
Norman S. Edelcup/Sunny Isles Beach



South Florida Regional Science and Engineering Fair Schools (continued)



Senior High Schools

American
Barbara Goleman
Booker T. Washington
Coral Gables
Coral Reef
Dorothy M Wallace Cope Center
Dr Michael M Krop
Felix Varela
G. Holmes Braddock
Hialeah Gardens
Hialeah
Homestead
Intl Studies Prep Academy
John A Ferguson
Law Enforcement Officers
MAST @ FIU BBC
Mast @ Virginia Key
Med Acad Science & Technology
Miami Beach
Miami Carol City

Miami Central
Miami Coral Park
Miami Edison
Miami Killian
Miami Lakes Technical
Miami Northwestern
Miami
Miami Southridge
Miami Springs
Miami Sunset
New World School Of The Arts
North Miami Beach
North Miami
Robert Morgan
Ronald W Reagan/Doral
South Dade
South Miami
Southwest Miami
Terra Environmental Research
Westland Hialeah

Charter Schools

Academy For Int'L Education Charter
Archimedean Conservatory
Doctors Charter/Miami Shores
Florida International Academy
Mater Academy Charter Middle
Mater Academy East Middle
Miami Arts Charter
Oxford Academy Of Miami

Youth Co-Op Charter School
Pinecrest Academy Charter Middle
Pinecrest Cove Academy
Archimedean Upper Conservatory
Mater Academy Charter High
Mater Academy Charter Performing Arts
Mater Academy East High School

Private Schools

Blessed Trinity
Columbus Senior High
Cushman School

St. John Newman Catholic School
Westminster Christian



SECME Olympiad and Festival Schools



Elementary Schools

Archimedean Academy
Barbra Hawkins
Ben Sheppard
Carol City
Comstock
Coral Reef
Dr Rolando Espinosa K-8
Earlington Heights
Florida International
Academy

George Washington Carver
Gulfstream
Howard Drive
Irving and Beatrice Peskoe
K-8
Joella C. Good
Mae Walters
Maya Angelou
Norman S. Edelcup/Sunny
Isles

North Hialeah
Redondo
Scott Lake
Sunset
Wesley Matthews
West Hialeah Gardens
Youth Co-Op Charter

Middle Schools

Andover
Archimedean Conservatory
Aventura Waterways K-8
Center
Bowman Ashe/Doolin K-8
Academy
Brownsville
Country Club
Cutler Bay Academy
David Lawrence Jr. K-8
Center
Dr. Rolando Espinosa K-8
Eugenia B. Thomas K-8
Center
Florida International
Academy
George Washington Carver
Gibson Charter
Hialeah Gardens

Hialeah
Highland Oaks
Howard D. McMillan
John F. Kennedy
Jose Marti Mast 6-12
Academy
Lamar Louise Curry
Lawton Chiles
Leewood K-8 Center
Leisure City K-8
M.A. Milam K-8 Center
Mast @ Virginia Key
Mater Academy East
Miami Lakes K-8 Center
Nautilus
Norman S. Edelcup/Sunny
Isles
Palm Springs
Palmetto

Pinecrest Academy Charter
Pinecrest Academy
Charter, South Campus
Ponce De Leon
Riviera
Riviera Preparatory
Rockway
South Miami
Southwood
Thomas Jefferson
West Miami MS
Winston Park K-8 Center
Young Men's Preparatory
Academy
Young Women's
Preparatory Academy
Youth Co-Op Charter
Zelda Glazer

Senior High Schools

Academy for Advanced
Academics
Alonzo and Tracy Mourning
American
Archimedean Upper
Conservatory Char
Booker T. Washington Sr.
Coral Gables
Dr. Michael M Krop
G. Holmes Braddock
Hialeah Gardens
Hialeah
Hialeah-Miami Lakes

John A. Ferguson
Jose Marti Mast 6-12
Academy
Mast @ Virginia Key
Mater Academy East
Medical Academy Science &
Technology (Homestead)
Miami Carol City
Miami Coral Park
Miami Lakes Educational
Center
Miami Northwestern
Miami

Miami Sunset
Pinecrest Academy Charter
Robert Morgan Educational
Center
Ronald W Reagan/Doral
School For Advanced
Studies South
South Miami
Southwest Miami
Westland Hialeah
Youth Co-Op Prep

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Mr. Randel Carr, Director, Campus Services

Judges play a vital role in the success of the *Miami-Dade STEM Expo* and for that reason we want to also express our most sincere gratitude for their time and talent.

Elementary Science Fair Judges

Daniel Barreras, Scott Lake Elementary
Tonya Brown, Poinciana Park Elementary
Samantha Devenish, Norland/ North Glade
Janet Diaz, retired MDCPS teacher
Elena Escobar, Shenandoah Elementary School
Maritza Galceran, Kinloch Park Elementary
Lourdes Herrera, Education Transformation Office (ETO)
Natalie Hollifield, Kensington Park Elementary
Shiva Kangeyan, Archimedean Upper Conservatory
Tiffany Kinchens, ETO Elementary Science
Luis Labiste, Miami Dade College
Kellina Languaine, Barry University
Laura Lisowski, Bob Graham Education Center
James Mangum, Broadmoor Elementary
Monica Ochoa, Wesley Matthews Elementary

Gladys Pico, Silver Bluff Elementary
Jose Porras, Jesse J. McCrary Elementary
Lisa Robinson, Phyllis Wheatley Elementary and Morningside K-8
Maria Rodriguez, Science Coach for Shadowlawn Elementary
Patricia Rodriguez, Cypress Elementary School
Emma Romero, Dr. Robert B Ingram Elementary
Claudia Rubio, Dr. Gilbert L. Porter Elementary
Tameika Scott-Smith, Lakeview/Parkway Elementary
Ileana Sosa, ETO Elementary Science
Catherine Stewart, Miami Heights Elementary
Carol Warner, Barry University
Michelle Wexler, Shenandoah Elementary
Kara Zelenak, Sunset Park Elementary

SECME Olympiad and Festival Judges

Astrid Alvarez, FPL
Anthony, Armbrister, Madison Middle School
Michelle Ballinger, FP&L
Ralph Blose, Mandarin Lakes K-8 Academy
Angela Bown, M-DCPS, Department of Language Arts/Reading
Marcia L. Bosseler, M-DCPS, Primary Learning Center
Marta Brito-Villani, Miami Dade College
Helen Brown, Department of Mathematics and Science
Clive Campbell, Florida Power & Light Patricia Campbell, Belcan Corporation
Francisco Cantero, Florida Power & Light
Isis Casares, Department of Mathematics and Science
Jerome Cole, Hialeah Middle
Claudette Connor, SECME/NAACP
Tom Cummings, MDCPS CTE
Dontrell Davis, Florida Power and Light Samora Dorismond, NMMS
Samantha Dorismond, Barry University
Melanie Ervin, International Studies Preparatory Academy
Seren Evans, M-DCPS, Education Transformation Office
Mark Eyerman, School Board of Broward County-Blanche Ely High School
Melissa Fernandez, MAST Academy
Yvette Fernandez, PTSA
Francisco Fins, Florida International University
Jackea Gray, QQ research consultants
Calonie Gray, Q-Q Research Consultants
Jennifer Hoyte, Florida International University
Edwin Ibarra, Ludovici & Orange Consulting Engineers, Inc
Andrew Innerarity, 1000 Words
Patricia Innerarity, M-DCPS Retiree
Jong-Hoon Kim, Florida International University
Louise Loftman, Church of the Epiphany Miami Lakes
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Raquel McKinnon, Miami-Dade County Public Schools
Janice Mills, Coral Reef High school
Kora Morales, Southwest Miami High
Seyed Mostafa Batouli, Florida International University
Rosa Ochoa, M-DCPS Language Arts/Reading
Linus Osorio, Civil Air Patrol - Miami Beach Cadet Sqdn
Galo Pacheco, Miami-Dade County DERM
Gustavo Palacios, Gulliver Preparatory
Laurin Pacheco, University of Miami
Rosa Perez-Rubi, Zeldia Glazer Middle
Mary Plyler, Kinlock Elementary School
Nagarajan Prabakar, Florida International University
Betty Rackear, FPL
Ria Ramdath, M-DCPS, Education Transformation Office
Surey Rios, TERRA Environmental Research Institute
Wanda Roldan, Dade County Public School
Michael Robinson, Booker T. Washington Senior High
Nicole Salazar, University of Miami
Odalys Sanchez-Reyes, G. Holmes Braddock Senior High
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Michelle White, Miami Dade County Public Schools
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Silvia Aday, Department of Mathematics and Science

South Florida Regional Science and Engineering Fair Judges

Diana Alexis, FIU Agroecology Department
Noam Alperin, University of Miami
Stephany Alvarez-Ventura, FIU Agroecology Department
Marcia Anglin, Miami Dade College
William Arata, Naval Academy Alumni Assoc. Miami Chapter
Anthony Armbrister, Madison Middle School
Coleen Atkins, University of Miami
Caitlin Augustin, University of Miami
Jill Bartley, M-DCPS Office of Professional Development & Evaluation
Audrey Becnel, Florida International University
Mildred Berry, Florida Memorial University
Eric Betancourt, Florida International University
Bonnie Blomberg, University of Miami Miller School of Medicine
Henry Briceno, Florida International University
David Buncher, Michael Krop High School
Shannon Calay, NOAA Fisheries
Irene Calizo, Florida International University
Joseph Callaway, Winston Park K-8 Center
Isabelle Camille, Coral Reef Senior High
Manuel Carames, Miami Dade College
Ana Lissette Casanova, Gateway Environmental K-8 Center
Marcia Chisholm, Law Enforcement Officers' Memorial High School
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Jason Downing, FIU/Fairchild Tropical Botanic Garden
William Eleazer, Brown and Caldwell
Spencer Ellington, CPO Science
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Lisa Garrido, Westminster Christian School
Louis Gonzalez, University of Miami Miller School of Medicine
Varan Govind, University of Miami
Gail Grant, M-DCPS
Veronica Grant, Florida International Academy
James Haralambides, Barry University
William Harrington, Hialeah Senior High
Albert Hernandez, Miami Dade Transit
Andrew Innerarity,
Krish Jayachandran, Florida International University
Lee Ann Jones, Aventura Waterways K-8 Preparatory Academy
Mandy Karnauskas, NOAA Fisheries
Bohdan Khomtchouk, University of Miami Miller School of Medicine
Rajeshwari Koilkonda, University of Miami, BPEI
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Jiaju Liang, University of Miami
Javier Lira, Florida International University
Alessandra Manzon, Florida Memorial University
Luis Martin, Miami Dade College, North Campus
Barbara Martinez-Guerrero, Fairchild Tropical Botanic Garden
Jeremy May, Florida International University
Stephen Mayer, Coral Gables Senior High School
Kelly Mcavoy, University of Miami Miller School of Medicine
Julio Miguez, Highland Oaks Middle School
Rodolfo Montane, Hialeah Senior High
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Miami Carol City Senior High School Color Guard, Major Johnny Isaac

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Revised: (05-12)

Miami-Dade STEM Expo Map



Building A: Regional Science and Engineering Fair Projects, **Building 1 (north side drop-off)** WaterVentures Mobile Lab; **Building 2:** SECME; **Building 3:** Elementary Science Fair Regional Science and Engineering Fair Headquarters, SWAT Interactive Workshop; **Building 3 Grassy Area:** STEM Vehicles – Weather on Wheels, **Building 4:** SECME; Elementary Science Fair Awards; **Building 14:** SECME; **N9 (Parking lot):** SECME; **Building 5:** Interactive Workshops: Tables and Guest Speakers; STEM Vehicle: Super Car, SECME Awards

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