

This is the PowerPoint presentation from  
the Coach's Workshop held at FAU on  
November 16, 2019



# Florida Science Olympiad Southeast Regional at FAU

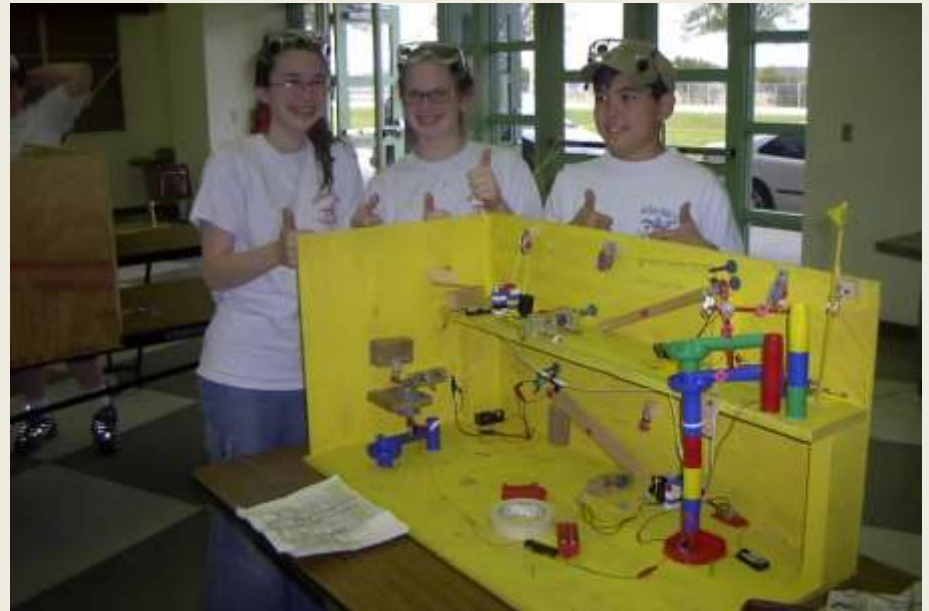


February 29, 2020



# History of Science Olympiad

- First Science Olympiad held in Michigan in 1983
- In 2019:
  - ~ 7,800 schools
  - over 300,000 students
  - all 50 states
- FAU started in 2008 with 3 teams
- In 2019:
  - 51 teams
  - 750 students
  - 68 teacher coaches
  - 250 volunteers



# Team Makeup

- Middle School = Division B
  - grades 6 - 9 \*
- High School = Division C
  - grades 9 - 12 \*
- Elementary Science Olympiad (ESO)= Division A
  - grades K - 6 \*

\* see first page of rules manual for more complete grade rules, exceptions, special circumstances, and links to more detailed eligibility information



# Advancement (B and C only)

- 8 Florida regional tournaments
- 42 regional teams from each division (B & C) advance to the state tournament
- 2 teams from each state tournament advance to national tournament
- Elementary Science Olympiad (Div A) is separate—there is no advancement structure



# 2020 Tournament Dates

- Southeast Regional Tournament at FAU: Feb 29, 2020
  - Division B and C
  - other Florida regionals on other dates
- State Tournament: March 21, 2020
  - Division B and C teams that advance from regional tournaments
  - University of Florida
- National Tournament: May 15-16, 2020
  - Division B and C teams that advance from state tournaments
  - North Carolina State University, Raleigh, NC
- Elementary Science Olympiad at FAU: April 25, 2020
  - Division A
  - No Advance Tournaments





# Division B and C Team Makeup

- 1 team = up to 15 students + 1 teacher coach  
– plus 1 or 2 alternates (optional)
- All students must be registered in the school
- Schools can have more than 1 team  
– but you must have a separate coach and a separate registration for each team
- If you have multiple teams from your school  
– members can't switch between them on the day of competition

# Alternates

- Alternates are used to take the place of a "no-show" at the start of the day
  - alternates can't come on or off the team once competition begins...once activated they become a permanent member of the team
- Once an alternate takes a place on a team
  - the original cannot show up later and take their place
- If a team member is for whatever reason unable to finish the day
  - the alternate cannot step in



# The Nitty Gritty

# Team Organization

- Most events allow teams of up to 2 students
  - a few allow up to either 2 or 3, check the rules
  - it is OK to have a team with only 1 student
    - but not recommended
- Most students compete in 2 or 3 events
  - but there is no minimum or maximum
- Students do not need to have the same teammate for every event
- Try to place students in favorite events
  - but try to challenge them as well
- Be sure to check for event conflicts



# How to Read The Schedule

2020 DIVISION B (Middle School) SCHEDULE OF EVENTS--FAU Southeast Regional Feb 29, 2020

EVENT	LOCATION	OPEN TO PUBLIC ?	8:00 - 8:50 am	9:00 - 9:50 am	10:00 - 10:50 am	11:00 - 11:50 am	12:00 - 12:50 pm	1:00 - 1:50 pm	2:00 - 2:50 pm
B - Anatomy & Physiology	SC 115			29-35	36-42	01-07	08-14	15-21	22-28
B - Boomilever	SE 319B	YES		SELF SCHEDULE					
B - Circuit Lab	PS 152			01-07	08-14	15-21	22-28	29-35	36-42
B - Crime Busters	PS 206			15-21	22-28	29-35	36-42	01-07	08-14
B - Density Lab	PS 204			36-42	01-07	08-14	15-21	22-28	29-35
B - Disease Detectives	SO 250			ALL TEAMS					
B - Dynamic Planet	SE 319A			29-35	36-42	01-07	08-14	15-21	22-28
B - Elastic Launched Glider	MAC Gym	YES		SELF SCHEDULE					
B - Experimental Design	PS 337			01-07	08-14	15-21	22-28	29-35	36-42
B - Food Science	PS 239			22-28	29-35	36-42	01-07	08-14	15-21
B - Fossils	SE 421			08-14	15-21	22-28	29-35	36-42	01-07
B - Game On	SE 314			08-14	15-21	22-28	29-35	36-42	01-07
B - Heredity	SC 107			22-28	29-35	36-42	01-07	08-14	15-21
B - Machines	PS 150		IMPOUND	SELF SCHEDULE					
B - Meteorology	SE 457			15-21	22-28	29-35	36-42	01-07	08-14
B - Mission Possible	SC 141	YES	IMPOUND	SELF SCHEDULE					
B - Mousetrap Vehicle	MAC Gym	YES	IMPOUND	SELF SCHEDULE					
B - Ornithology	SC 143			22-28	29-35	36-42	01-07	08-14	15-21
B - Ping Pong Parachute	SC Lawn	YES		SELF SCHEDULE					
B - Reach for the Stars	PS 227			36-42	01-07	08-14	15-21	22-28	29-35
B - Road Scholar	SC 119			01-07	08-14	15-21	22-28	29-35	36-42
B - Water Quality	SC 145			08-14	15-21	22-28	29-35	36-42	01-07
B - Write It Do It	BS105/108			15-21	22-28	29-35	36-42	01-07	08-14

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# The Events



# Types of Events



Lab Events



Research Events



Prebuild Events



# Division B

Anatomy and Physiology

Boomilever

Circuit Lab

Crime Busters

Density Lab

Disease Detectives

Dynamic Planet

Elastic Launched Gliders

Experimental Design

Food Science

Fossils

Game On

Heredity

Machines

Meteorology

Mission Possible

Mousetrap Vehicle

Ornithology

Ping-Pong Parachute

Reach for the Stars

Road Scholar

Water Quality

Write It Do It



# Division C

Anatomy and Physiology

Astronomy

Boomilever

Chem Lab

Circuit Lab

Codebusters

Designer Genes

Detector Building

Disease Detectives

Dynamic Planet

Experimental Design

Forensics

Fossils

GeoLogic Mapping

Gravity Vehicle

Machines

Ornithology

Ping-Pong Parachute

Protein Modeling

Sounds of Music

Water Quality

Wright Stuff

Write It Do It



# Understanding the Events

- Review the rules *carefully*
  - make sure your students read and understand the rules
- Check the scoring carefully
  - pay attention to how different elements are scored and weighted
  - pay attention to “penalties”
  - notice if binders or notes are allowed
    - and the rules governing these notes

# General Rules

- Who is allowed to help students?
  - nobody
- What is allowed into *any* event?
  - students registered for that event
- What is *not allowed* into any event?
  - an active cell phone
  - cell phones must be turned off (not just on silent) and out of sight
- Ways that you can be "disqualified"
  - bad behavior that continues after warning
  - blatant cheating
  - entire school may be disqualified

# Deconstructing Individual Event Rules

- Prebuild events—general considerations
  - what is the overall goal of the event?
  - what items/criteria are scored?
  - are there bolded words?
    - what do they mean, why are they bolded?
  - what safety equipment is required?
  - what will be provided by the event supervisor?
  - what **must** be supplied by you?
  - what **can** be supplied by you?
  - know the difference between “must” and “can”

# Deconstructing Individual Event Rules

- Prebuild events—construction parameters:
  - what are the minimum design requirements?
  - what are the maximum design requirements?
  - what materials / items are prohibited?



# Deconstructing Individual Event Rules

- Prebuild events—competition parameters:
  - know the design of competition space
  - is this an impounded event?
  - what will be evaluated during impound?
  - other than the device, what else is evaluated by the event supervisor?
  - how many trials are permitted?
  - how much time is permitted?
  - what if I need a "do over"; is it allowed?
  - are practice runs permitted?

# Deconstructing Individual Event Rules

- Lab and Research Based Events:
  - General considerations
    - what is the goal of the event?
    - what items/criteria are scored?
    - are there bolded words? what do they mean?
    - safety requirements? (e.g. goggles)

# Deconstructing Individual Event Rules

- Lab and Research Based Events:
  - Competition parameters:
    - understand what will be the setup of the lab
    - understand the content focus
    - how much time is permitted?
    - are notes allowed?
      - what are the note rules?
      - cards, single sheet, binder, etc.

# Some Tips For Student Preparation

- For build events - build, test, break, redesign
- For events that allow notes
  - have students organize their notes or binders in advance
  - they should practice being able to locate anything in their notes quickly
- For all events, have students take turns acting as the teacher
  - describe the device and how it works if it is a prebuild
  - explain the experimental setup and rationale if it is a lab
  - teach the topic if it is a research event

# Some Tips For Student Preparation

- Make sure you know who is taking devices to impound
  - does not have to be a member of event team, but must be a member of the school team
  - best if they are on event team in case minor infractions are noted; only event team members can make repairs
  - impound is in the same location as the competition
- Bring tool / repair kits
  - extra parts, extra goggles, etc.
- Lots of additional tips and info online
  - but be careful not to “overload” students
  - be careful following specific tips or build ideas
    - if the design is from an old event or an event from a different regional, it may not match our specs



# Understanding the Scoring

- Every team is scored using the same rules
  - at the end of the day, places are assigned for each event
- The “place” becomes your points for that event
  - 1<sup>st</sup> place = 1 pt, 2<sup>nd</sup> place = 2 pts, etc.
  - lowest overall score wins tournament
  - scores posted within 24 -48 hours



# Understanding the Scoring

- All teams are scored, but only the top 50% are *ranked*
  - the remaining 50% are scored, but all receive the same rank
- If there are 26 teams, we tie-break and assign ranks only up to 13
  - 1<sup>st</sup> place gets 1 pt
  - 2<sup>nd</sup> place gets 2 pts
  - 12<sup>th</sup> place gets 12 points
  - 13 - 26<sup>th</sup> place gets 13 points
  - A "did not compete" gets 14 pts

# Understanding the Scoring

- What does this mean?
- Try to put a team into every event !!!

# Awards

- For individual events, each 2 or 3 person team member receives a medal for 1<sup>st</sup>- 6<sup>th</sup> place
- For overall performance, top 3 school teams receive a trophy
  - plus each member of the team receives a medal
  - and the school / coach receives a plaque
- Top 6 or 7 teams from FAU will advance to State



# Parents and Other Engaged Spectators

- Observe -
  - open events, yes
  - closed events, no
- Cheer - yes
- Do - no
- Help or Coach - no
- Walk into rooms - no
- Arbitrate - no



# The Code of Conduct

Student participants are expected to compete in tournament events with an honest effort to follow the rules and the spirit of that competition. The goal of competition is to give one's best effort while displaying honest, integrity, and sportsmanship.

Students, coaches, parents, and guests are expected to display courtesy and respect toward Olympiad officials, other teams, and guests of the Olympiad.

Failure to show honesty and/or courtesy by a participant, coach or guest of the team may result in disqualification of the team from that event, the entire tournament or future tournaments.



# Conflict Resolution

- The official rules “rule”
- Arbitration procedures





# Competition Day Information

- Try to arrive early
- Registration opens at 7:00 am
  - impound 8:00 am - 8:50 am for all devices
  - div C disease detectives 8:00 am for all C teams
  - div B disease detectives 9:00 am for all B teams
  - all other events 9:00 am
- Make sure you have required forms
  - available on the FAU Olympiad website
    - final team registration form...***signed by principal***
    - signed code of conduct for each student
    - emergency contact form for each team
    - signed media release form for each student
      - optional





# Competition Day Information

- Check your packet before you leave registration
  - 15 student wristbands with team number
  - 1 coach wristband
  - lunch tickets for coach and parent volunteer
  - certificates of appreciation
  - 16 maps and schedules
  - coach and parent volunteer name tags



# Competition Day Information

- You will be assigned a "homeroom"
  - shared with other teams, so this will not be a "secure" location for storing valuables
  - OK to have an adult other than the coach remain in this room with your belongings
- Distribute the wrist bands and make sure they are snug and won't come off
  - we cannot / will not issue replacements
  - no wristband, no compete

# Food Service

- Coaches and parent volunteers:
  - complimentary bagels, fruit, pastries, bottled water beginning at 6:30 am and lasting until it runs out (no ticket required)
  - complimentary lunch buffet 11:00 am - 2:00 pm (ticket required)
  - coffee and tea all day—available to everyone

# Food Service

- Students / parents are "on their own"
  - can bring any kind of food and beverages they want...pizza, sandwiches, sodas, etc.
  - no alcohol
  - can set up anywhere around open lawn area except where ping pong parachute is being run
  - pop up tents, tables, blankets, coolers, etc. are all OK
- Several on campus food venues will also be open
  - Chick-fil-A, Dunkin Donuts, Starbucks
  - Subway (located in stadium)
  - other foodservice may also be open, TBD
  - hours of operation also TBD

# Awards Ceremony

- Awards ceremony will start as soon as we have about 50% of scoring done, usually around 4:00 pm
- Ceremony will be on lawn in front of the Admin Bldg
- Expect to be finished around 6:00 pm
- If you cannot stay for the awards ceremony, e-mail me after the tournament with your address and I will mail the medals to your school



# Research Showcase

- Sanson Patio 10 am - 2 pm (ish)
- Undergraduate research poster presentation
- Departmental research displays
- Lab tours
- Program information

# Websites

FAU Regional Website:

[www.science.fau.edu/science\\_olympiad/](http://www.science.fau.edu/science_olympiad/)

State of Florida Website:

[www.floridascienceolympiad.org/](http://www.floridascienceolympiad.org/)

National Website: [www.soinc.org/](http://www.soinc.org/)

Make sure you are not on any other sites

Make sure you are seeing 2020 info





# Questions

Questions regarding  
FAU regional:  
Tim Theisen  
[ttheisen@fau.edu](mailto:ttheisen@fau.edu)



Questions regarding registration or  
other state level issues:  
Valerie Ledford  
[valerie@floridascienceolympiad.org](mailto:valerie@floridascienceolympiad.org)

