

2019 UPDATES

Dates (tentative):

SPRING COMPETITION, MAY 17, 2019

FALL COMPETITION, NOVEMBER 1, 2019

JANUARY 2019 MEETING

We will be instituting the BEST IN SHOW AWARD this Spring. Somers High School has graciously offered to coordinate the process. Please find the instructions in the Registration packet under Best in Show.

At least one adult will be assisting the CCSU students in the inspection process. With an independent adult helping, the burden of major decisions are alleviated.

Schools will be allowed to enter up to three cars for the Spring Event. We will have a limit of fifty cars. All teams entering two cars will have preference, then we will register a third car on a first come first serve basis.

We are not increasing our registration fee and our saving additional funds to purchase a transponder system.

Electrathon is proposing to lower the driving age to fourteen or fifteen. After discussions, WE WILL REMAIN AT THE CURRENT AGE OF SIXTEEN.

Should your vehicle incur a breakdown only TWO people will be allowed to assist in the repair.

During the driver change, two students will be allowed to assist in the process.

We will be trying something new this Spring. The tent, lap counters, and the Race Stewart will be on the infield.

IF ANYONE WOULD LIKE TO VOLUNTEER TO BRING AN ELECTRATHON VEHICLE TO THE CTEA CONFERENCE, PLEASE CONTACT DR FOSTER.

CT ELECTRATHON CHALLENGE



You are cordially invited to attend the **Eighteenth Spring** energy efficiency Electrathon Event in Connecticut. Come and view the streamlined designs and engineering ideas that students have incorporated into these one-of-a-kind vehicles

When: **May 17, 2019** (Rain Date: ???)
8:00 a.m. -???

Where: Lime Rock Park, Lakeville, CT.

::Major Sponsors::

-Lime Rock Park-

-The Wicks Group PLLC-

-Televersemedia-

-Central Connecticut State University-

***Please Note Address Change! (Pages 3 & 16)**

What to Expect when arriving at Lime Rock Park

- 1. Sign-in all students at the main gate and turn in the liability release forms.**
- 2. When turning off main road to the Autocross Course, stop and pick-up a parking map.**
- 3. Find a spot behind the yellow tape for your team. When you have unloaded and organized, proceed to the registration table. Teams that submit a complete registration package will be registered first.**
- 4. When proceeding to the table, please bring the following items:**
 - Electrathon Membership Card**
 - 2 drivers per vehicle, and an advisor.**
 - Ballast for each driver**
 - Competition Batteries**
 - Arm Bands – free for new teams, returning teams please bring last years armband.**
 - Any other forms not previously mailed in.**
- 5. The CCSU Inspection team will check ballast, administer expanded driver's test*, weigh-in driver, place batteries in holding area, and inspect your vehicle. Once inspected, they will place a sticker on your vehicle, and your team will be allowed to use the track for time trials.**

* Reminder to all new and returning teams! CCSU will administer a drivers test on the flag system and driving tools. Each driver must pass the test receiving a minimum of six (6) correct answers out of seven (7).

Registration Form

In an effort to defray the cost of insurance and materials needed to host such an event, it was decided that an entry fee be instituted.

For the 2019 season, the Entry fee will be \$75.00 per vehicle.

Registration and check is to be received **no later than April 18, 2019**
Late registration will incur an additional cost of **\$35.00 per vehicle**.

Please make checks payable to: **CT Electrathon Challenge**. Send the form below and your check to:

Mike Grella
76 Chestnut Hill
Litchfield, CT 06759

Name of School: _____ Advisor: _____

Number of Electrathon Vehicles: _____

***Please place each participating vehicle number in the proper block below.**

CLASS

<i>Novice</i>	<i>Classic(Metal+ Kits)</i>	<i>Composite</i>	<i>Solar</i>

Total amount of Money Enclosed: \$ _____

Enclosed in the registration Packet is a **Vehicle Inspection Form(PAGE)**. By having this Information in advance, you are giving yourself an advantage of making sure everything will go smoothly, allowing the vehicle inspection process to go more quickly and addressing any potential problems in advance. **The inspection form does not need to be returned.**

Agenda Subject to Change

8:15 am - 10:00 am	Registration
8:15 am - 10:00 am	Inspections
10:00 am – 10:30 am	Track Time
10:45 am – 11:45 am	1st Heat
11:45 am – 12:30 pm	Lunch / Track Time
12:45 pm – 1:45 pm	2nd Heat
2:00 pm – 3:00 pm	3rd Heat
3:30 pm	Awards

Liability release forms are needed for each student under the age of eighteen. Students should complete both sides of the form and bring them to Lime Rock on event day. Please send Mike Grella the exact number of forms needed and mailing address, at least four weeks before the competition.

*Forms cannot be duplicated!

Number of Forms_____

Name_____

Street_____

Town_____

Zipcode_____

Rules and Regulations

- **Students are not to leave the track area until lunchtime.**
- **Students and staff are not permitted on the ends of the course or the far side of the track. All students, staff and advisors are to stay behind the yellow tape.**
- Each team must have at least one adult responsible for each 10 students.
- **The inspection team will not tolerate any type of harassment from the team or its leaders.** If this happens you will be asked to leave. Inspectors will make every effort to see that your team participates. Safety is their first priority if something is not to regulation, remember that they did not construct the vehicle.
- Each team is required to have at least 1 volunteer (if needed) to assist the race officials.
- Teams are required to **pick up after themselves.** Waste receptacles will be placed near the track.
- All the persons associated with an Electrathon event are expected to conduct themselves in a cordial manner. Confrontations or arguments will not be tolerated and participants are subject to disqualification.
- Once a decision has been rendered concerning a specific issue and your team disagrees, follow the grievance procedure. Don't go to another official and try to reverse the decision.
- Should your team vehicle experience trouble on the track, the driver is to pull off the track to a designated work area. **No competition car will be allowed back to the team area.**
- **The pit crew is not to cross the track!!** The pit crew(**Maximum 3 members**) may walk along the outside grass section, under the yellow flag, to make repairs. Should the vehicle experience trouble on the inside of the track the pit crew must wait for the yellow flag and for the race steward to allow them to cross the track. The pit crew is to have a maximum of three people.

I have read the rules and regulations to my team and agree to abide by all of the above.

Signature of advisor: _____

Please return this to the registration desk at the time of registration

Lime Rock Park has been generous and has allowed CT Electrathon the use of their facility; we respect and honor their rules.

House Keeping

- All teams participating in the spring competition must be registered with Electrathon America and hold a valid membership card. This card must be presented for each vehicle at the time of registration.
- Once your team enters the race area, NO STUDENTS will be allowed to leave until lunchtime.
- You must have at least one adult responsible for 10 students.
- Should you have a dispute with officials, check the grievance procedure.
- Once you have your vehicle inspected, the time trial will be open to test your vehicle.
- There is no electricity available at the track. Bring extra batteries.
- We anticipate teams from other states to participate. We can learn a lot by making these teams feel welcome.

Updates

::Limiting the Number of Vehicles::

The Electrathon program is gaining in my popularity and we are forced to limit the number of vehicles each participating school may enter, therefore each school may enter a MAXIMUM of THREE VEHICLES. We must operate within the time allotted us on the track.

::Selection of Vehicle Positions::

All cars must be pre-registered and are to be at the track ready to compete for the first heat. Selection of cars' positions in each heat will be completed by a lottery at 9a.m. Cars from different classes will run in the same heat with each car having a class designation placed on the car. A maximum of two vehicles from any school will compete in the same heat.

::Classes::

NOVICE CLASS- This class will be opened to first time or new teams that have just completed their first vehicle. They will remain in this class for the full season, but should they complete more than 100 laps in the spring competition they will be moved into the Classic Class.

CLASSIC CLASS- This class is designed for teams that have prior experience in Electrathon Competition. The Vehicle is limited to hand built metal cars and kit cars.

COMPOSITE CLASS- Cars that are constructed entirely of Composite material (no frame) will compete in this class. Should the composite vehicle be your first attempt at the Electrathon series your team will participate in this class.

TROPHIES WILL ONLY BE GIVEN IN CLASSES WITH SIX OR MORE VEHICLES!!!

::Best In Show::

The Best in Show award will only be given at the SPRING event. This award is open to new vehicles, from any High school, in any state, so long as they meet judging criteria.

Again, your representative CANNOT VOTE FOR YOUR OWN SCHOOL'S VEHICLE.

Part of the award includes the 50 copies of the Information Fact Sheet as well as the voting Ballot. The fact sheet is attached, please feel free to use our template, or create your own with similar information.

::Process::

New vehicles meeting the above criteria will be requested to be moved into the PIT area during the lunch break. At 12:00 we are asking for one representative from each school to come forward to receive a voting form, view each vehicle and then cast a vote for the one they feel should receive the "Best In Show" award.

Remember - you cannot vote for your own school.

Only one representative from each school shall be provided the opportunity to vote.

In the case of a tie - A representative from CCSU will be requested to view the two tied vehicles and select the one to receive the honor of Best In Show.

Note - Should there only be one vehicle eligible for the Best In Show - no award will be given.

::Driver Exit Time::

When changing drivers during the competition, the first driver must pull into the pit area, exit the vehicle with ALL THE BALLAST and get weighed. The second driver is to secure THEIR Ballast and enter the vehicle. Should the two drivers be the same weight, the first driver must remove the entire ballast, get weighed while the second driver installs THEIR NEW BALLAST

NOTE Each driver is to their own ballast. Should a team have only one driver, they must remove ballast, get weighed, reinstall ballast before entering the vehicle. The team vehicle will be penalized one lap.

::Batteries::

We will remain with the 67lb rule for the 2019 season.

Any commercially produced agm/gel cell battery combination will be acceptable up to 67 lbs.

NO HEATING OR CHARGING of batteries will be allowed at the track.

Batteries will be subject to a temperature inspection.

The competition batteries are to be placed in a holding area with the batteries from other teams.

Ten minutes before your scheduled heat your team may remove the batteries from the holding area.

::Slow Vehicles::

While we encourage each team to do their individual best, slow vehicles have become a safety problem. Driving a vehicle at a slow speed when the batteries are low harms the battery life, and causes a potentially dangerous situation on the track. It has been decided that when a vehicle takes 60 seconds or longer to complete a lap on the course, it will be required to pit and will not be allowed back onto the track.

::Passing::

Slow cars are to stay to the INSIDE of the track. The Race Steward will explain the proper passing procedure at the drivers meeting. Should you have any questions, this will be the time to ask. If your drivers fail to follow the rules, they will be black flagged immediately. YOUR WARNING IS THE EXPLANATION AT THE DRIVERS MEETING. We cannot sacrifice safety on the track. Any additional questions concerning the passing/no passing areas can be discussed with the race steward.

:: Unsafe Passing ::

When passing another vehicle, you must pass in the DESIGNATED AREA ONLY.
Remember that the slow cars will be flagged to the inside of the track.

:: End of Competition Inspection ::

At the end of each heat, each driver is to pull into the pit area and remain in the vehicle until the vehicle is inspected or you are told to take the vehicle to your team's area. We will be mixing classes together so several vehicles may need to be inspected at the end of each heat. **TEAM MEMBERS WILL NOT BE ALLOWED TO ASSIST THE DRIVER. The Adviser will be the only person to assist the driver.**

***Below is the new Liability release and medical authorization form (3 pages). Please complete the form for EACH driver, and mail in 2 copies of each completed form.**

CT ELECTRATHON CHALLENGE

Liability Release/Medical Authorization

You must read this form and sign it before participating in any **CT ELECTRATHON CHALLENGE** event during the year 2005-2006. To participate as a driver in the event, you and a parent or legal guardian must read and sign this form. To drive you must be at least 16 years old and hold a valid driver's license.

I the undersigned, voluntarily agree to the following:

- I agree to assume all costs related to any medical treatment; I authorize my insurance company to pay benefits for the costs of such treatment; I also authorize the disclosure of medical information to my insurance for the purpose of any claim.
- I understand each parent must provide his/her own medical insurance; I also understand that I am responsible for any medical or other charges related to participation in the **CT ELECTRATHON CHALLENGE**.
- I give my consent for medical treatment, and permission to event personnel to supervise or perform on-site first aid to minor injuries and to a licensed physician to hospitalize and secure proper treatment (including injections, anesthesia, surgery, or other reasonable and necessary procedures) for the participant **(If you wish to limit medical treatment, draw a line through it or add your comment and initial the changes)**;

To facilitate a medical situation, please complete the attached medical card.

School (if student): _____

Attach copy of driver's license, or other legal photo ID.

The participant is participating in each **CT ELECTRATHON CHALLENGE EVENT** under their own free will, and the parent/guardian (if participant is under 18) approves of such participation:

- I am personally responsible for my actions, and I shall conduct myself with sportsmanship
- I shall abide by the rules, conditions, guidelines and decisions of Electrathon America and race/event officials; I understand that this is a non-professional program/event, and changes, delays and/or errors may occur

- I understand that the activities of the day involve risk; I accept the conditions under which each of the events is held; and I accept and assume all risks inherent in each of these competition events.
- I hereby release, hold harmless and indemnify Electrathon America, Lime Rock Park, the CT Electrathon Challenge, Central Connecticut State University, track owner(s), track employees, event sponsors, organizers, officials, volunteers and other persons, organizations or entities associated with the event (**RELEASEES**) from any and all liability, whether injury is caused by my negligence, the negligence of **RELEASEES** or the negligence of any third party, and agree to settle any and all disputes through established event rules and procedures.

I HAVE READ THIS ENTIRE MEDICAL AUTHORIZATION, RELEASE & LIABILITY WAIVER, I FULLY UNDERSTAND IT, AND I AGREE TO BE LEGALLY BOUND BY IT.

READ CAREFULLY BEFORE SIGNING.

THIS IS A RELEASE OF YOUR RIGHTS.

Name of Participant _____

Participant Signature (Date) _____ (_____)

IF PARTICIPANT IS UNDER 18 YEARS OF AGE:

Name of Parent/Legal Guardian _____

Parent/Legal Guardian
Signature (Date) _____ (_____)

**:: Medical Form::
Complete BOTH Sections**

DRIVER

Name _____
School _____
Adviser _____
School Phone# _____

Allergies to
medicine _____

Emergency
contact _____
Phone# _____

Health Insurance Info.

Carrier _____
Card # _____

Medical History

Serious illnesses _____
Recent surgery _____
Head injury _____
Neck injury _____
Back injury _____

Allergies to
medication, List _____

Adviser Sign Off:

DRIVER

Name _____
School _____
Adviser _____
School Phone# _____

Allergies to
medicine _____

Emergency
contact _____
Phone# _____

Health Insurance Info.

Carrier _____
Card # _____

Medical History

Serious illnesses _____
Recent surgery _____
Head injury _____
Neck injury _____
Back injury _____

Allergies to
medication, List _____

Adviser Sign Off:

VEHICLE INSPECTION FORM

Name (car owner or team leader) _____

School or Team Name (if applicable) _____

Address (This is where awards and race information will be sent) _____

City _____ State _____ ZIP _____

Phone Number _____ E-Mail Address _____

Car Number	State	INSPECTION COMPLETED <small>(Initialed by Inspector)</small>

Class:

- Standard Experimental
All classes must meet Electrathon America Rules

Division:

- High School College Open
 Entry Fees Paid
 Liability Form Signed
 Electrathon America Competitor Membership

DRIVER INSPECTION:

Driver Name _____
Driver's License Number _____ State _____ Expires _____

- Long-Sleeve Shirt, long pants, and shoes Driver weight _____ lbs.
 Helmet (DOT approved motorcycle style) Ballast weight _____ lbs.
 Gloves (not required with full canopy) Total weight _____ lbs. (180 lbs. minimum to compete)
 Eye Protection (safety glasses, goggles)
List items used for ballast _____

VEHICLE INSPECTION:

- Vehicle number properly displayed and easily visible (min. 6" high)
- Structure or body shell protects driver from harm
- Bottom pan protects driver from contact with track
- No exposed sharp edges or components
- Axle diameter is 1/2" or 12mm min. unless supported both ends
- Safety wire or cotter pins on all cantilevered axle nuts
- Frame and shell adequately protect driver
- No for loose fittings and fasteners
- All tires are pneumatic (inflated)
- Tire tread is in acceptable condition
- Roll bar or bulkhead can support driver's weight
- Roll bar or bulkhead is braced forward or rearward
- Power kill switch outside the vehicle in a 4" red triangle
- Correct size fuse or circuit breaker between battery and motor
- Wiring is safely installed - terminals tight, insulation good, etc.
- Auto shut-off throttle
- Batteries are securely mounted to the frame and/or body
- Batteries are enclosed or covered

VEHICLE INSPECTION WITH DRIVER INSIDE:

- Guards (if necessary to protect driver from moving parts)
- Ballast (if required) mounted securely
- Good visibility and field of vision
- Rear view mirrors, 8 square inches
- Top of roll bar or bulkhead is above driver's helmet
- Inside kill switch is driver accessible
- Brake inspection - car will not roll when pushed
- Steering inspection- appears tight and stable at speed, will turn 25' radius
- Vehicle stability test
- 5-point (minimum) lap and shoulder belt hold driver securely in position
- Vehicle exit test in 20 seconds (includes canopy and seat belts)

System voltage _____ V AGM Gel Cell Battery quantity _____ Battery Weight _____ lbs,
Battery Manufacturer _____ Brand _____ Group Size _____

INFORMATION FACT SHEET

Car Pics Here...

(Place pictures of car in the boxes above)

High School:

Car#:

Description of Materials

Frame

Type of Material:

Thickness:

Vendor:

Diameter:

Tires

Brand Name:

Size:

Front Wheels

Wheel Diameter:

MFG of Hub:

Size of Spokes:

MFG of Rim:

Model:

Number of Spokes:

Model:

Rear Wheels

Wheel Diameter:

MFG of Hub:

Size of Spokes:

MFG of Rim:

Chain Size:

Model:

Number of Spokes:

Model:

Sprockets

Motor Sprocket # of Teeth:

Wheel # of Teeth:

Motor

MFG: _

Model #:

Fuse

MFG:

Size:

Controller

MFG:

Model:

Spindle Assembly

MFG:

Model:

Tie Rod End

MFG:

Diameter of Stud/Hole:

Circuit Breaker

MFG:

Model #:

Pot Box

MFG: _

Model #:

Voltage/Amp Meter

MFG:

Model:

Steering Wheel

MFG:

Diameter:

Canopy/Windshield

Type of Glass Material:

Thickness of Material:

Mirrors

Area of Mirror Glass:

of Mirrors:

Batteries

MFG:

Model:

Weight of Battery:

Floor Pan

Type of Material: ___

Thickness:

Weight of Car without Battery (no driver):

Paint

Type of Finish:

WHAT TO SEND IN:

- **Completed Registration Form.** (Page 3). Please include the Number of your vehicle!
- **Complete Liability Release Form Information** (Page 4).
- **Signed Rules and Regulations Form.** (Page 5).
- **Completed Liability Release Form and Medical Authorization Form.** (2 copies!)(Pages 9, 10, 11).
- **Payment for Vehicles.** Please make checks payable to:

CT Electrathon Challenge.

- **Please send ALL forms and check under one cover to:**

**Mike Grella
76 Chestnut Hill
Litchfield, CT 06759**

WHAT NOT TO SEND IN:

- **Vehicle Inspection Form.** (Page 12). This is for you reference to make sure your vehicle will pass inspection even before you get to the event. This will help you solve any problems ahead of time.
- **Information Fact Sheet.** (Pages 13, 14, 15). This is a fact sheet that you can complete and hand out at the event. We encourage that you take the time to complete this form, since it is required to enter the Best in Show event. Also, please print out roughly 50 copies, to distribute to other teams.