

COW TOWN THROW DOWN

A SUMMER COMPETITION BASED UPON
FIRST ROBOTICS' OVERDRIVE

SATURDAY, JUNE 14, 2008

CERNER CORPORATION, ASSOCIATE CENTER

TEAM ORIENTATION PACKET

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COW TOWN THROWDOWN – ROBOTICS INVITATIONAL COMPETITION

Cerner Corporation and Lee Summit High School's *TeamDriven* are proud to announce Kansas City's first off season competitive robotics event. This one day event is open to all area high school robotics team who wish to compete with their robots in a friendly, fun atmosphere. Space is limited to 24 teams, so sign up fast!

The event will be held Saturday, June 14th on the Cerner Campus in North Kansas City. The competition will start at 8:30 a.m. and will offer both qualifying and elimination rounds. All 24 teams will qualify for elimination rounds, culminating in one alliance of three teams being crowned Cow Town champs. Teams will have an opportunity to play FIRST Overdrive on a sanctioned FIRST playing field against other local teams. Each team will also be given a 10' x 10' pit with electrical power.

Load in to the facility will be open to teams on Friday June 13th from 2:00 pm to 6:00 pm. Teams may set up pits then if they choose. Robots will be inspected, but for safety issues only. Those inspections can begin as early as Friday at 3:00 pm and should take no more than about 10 minutes. Size and weight of robots will not be inspected. It is our hope that teams will adhere to spirit of the rules of FIRST Overdrive (bring you gracious professionalism). We will make every effort to have the field ready to practice on before the 7pm window closes; but if not, please help your team members be understanding. In the event that there is practice time, a volunteer will be on hand near the field with a sign-up sheet. Robots will take the field in the order they appear on the sheet. Please don't sign up until your robot has passed the safety inspection.

Family, friends and interested community members are encouraged to come to cheer on their team and learn more about competitive high school robotics.

Assuming the field is ready Friday night, we will hold a rookie round. This round is for future members of your team so use this to recruit next year's all-stars. In addition, we will hold a mentor round where the robot will be piloted by sponsors, mentors, or parents on the team.

REGISTRATION INFO

Registration for the Cow Town ThrowDown is \$200 per team. Registration is open now through May 16th. Secure your teams place in the competition today as space is limited!

To register:

- 1) Complete the registration form found in this packet
- 2) Write a check made payable to Cerner Corporation (PO is also excepted)
- 3) Mail both the registration form and check to:

Cerner Corporation
Lindsey Patterson
2800 Rockcreek Parkway
Kansas City, Missouri 64117

CONTACT INFORMATION:

Initial Facilities questions:

Lindsey Patterson

AssociateServices@cerner.com

816-201-9334

Initial Game-related questions

John Faulkenberry

John.Faulkenberry@Leesummit.k12.mo.us

816-986-2006

Beyond this document, the primary source for information related to the Cow Town ThrowDown will be the website www.cerner.com/roboticsinvitational

EVENT SCHEDULE

FRIDAY, JUNE 13TH

2:00-6:00 p.m.	Team registration, pits open for set up
3:00 p.m.	Basic safety inspections begin
3:30-5:00 p.m.	Practice rounds (must sign up at the Registration Desk)
5:00 p.m.	Rookie rounds (must sign up at the Registration Desk)
5:30 p.m.	Mentor rounds (must sign up at the Registration Desk)
6:00 p.m.	Pits and competition field close

SATURDAY, JUNE 14TH

7:00-7:30 a.m.	Team registration, pits open, doors open to public
7:00-8:00 a.m.	Final safety inspections (if not completed on Friday)
8:00 a.m.	Coaches meeting
8:00 a.m.	Drivers meeting
8:00 a.m.	Game explanation for general public (optional)
8:30 a.m.	Opening ceremony (all participants required)
8:45 a.m.	Qualifying rounds begin
1:00 p.m.	Elimination rounds begin
5:00 p.m.	Estimated end of competition

DETAILED COMPETITION INFORMATION

A. EXPECTATIONS:

The Cow Town ThrowDown is being offered for Greater Kansas City high school students to have another opportunity to get excited about the possibilities related to science and technology. Pulling off an off-season production of this magnitude for the first time is overwhelming. While planning has been thorough, we should all expect some glitches. All team leaders and adult volunteers are expected to model gracious professionalism for the students we are attempting to serve.

If you have any questions on the day of the event, please look for a volunteer as designated by volunteer t-shirt.

B. ARRIVAL AND UNLOADING:

Cerner has provided detailed instructions to help teams successfully arrive, unload, and navigate the environment. For further details, please see the facilities section of this document.

C. RULES OF THE GAME:

All rules associated with *OverDrive*, designed by FIRST, will be observed and enforced by experienced officials. The officials have been trained by FIRST and have officiated actual FIRST competitions. *OverDrive* will be contested on an official FIRST competition field borrowed from a spring regional. Scoring will be electronic and will follow the same rules as used during the 2008 competition season. Qualifying rounds will determine the order in which the top eight teams will select alliance partners. Because the inaugural competition is being limited to 24 teams, each team will qualify for the elimination rounds.

D. THE PITS:

Each team will be provided a designated 10' x 10' pit located in the same space as the competition field. Pits will be equipped with a eight foot table, two chairs, and a single 110v outlet. Cordless hand tools are recommended as the total current available to each pit will be limited.

E. COURTESY PIT:

A machine shop will not be available. However, an easily found courtesy pit with a drill press and a band saw will be available in the same building as the competition. Some spare parts may be available. In the spirit of gracious professionalism, teams are encouraged to share parts as becomes necessary. Please make plans to limit tools used to cordless hand tools.

F. INSPECTIONS AND WEIGH-IN:

The only inspection that will occur is a basic safety inspection of your robot. The honor system (that gracious professionalism thing again) is in effect.

G. PRACTICE ROUNDS:

Facilities permitting; practice rounds are available on the main competition field Friday beginning at 3:30.

H. QUALIFICATION ROUNDS:

Once positive check-in of teams is completed on Saturday morning, a qualification round schedule will be developed and published. One hard copy of the schedule will be distributed to each team at their pit. The schedule will also be posted on screens in the competition building. Staff will be devoted helping teams queue for each round, however it is each individual team's responsibility to be present for their match. If a team fails to arrive at the playing field on time, the match will begin without them.

I. ALLIANCE SELECTION:

Selection of teams to form alliances will occur after the qualification rounds have been completed. Eight alliances will be created, consisting of three robots per alliance. The top eight seeded teams will choose partners. The top eight seeds cannot choose among themselves. The top eight seeds will each select a partner proceeding from seed #1 to seed #8. The second round of choices will begin with seed #8 and will

proceed to seed #1 who will make the final choice. If there are not at least eight teams remaining after the top seeds have each chosen one alliance partner, the remaining teams will be randomly assigned among the alliances.

J. ELIMINATION ROUNDS:

Once alliances have formed, an elimination round schedule will be developed and published. Again, one hard copy will be brought to each team's pit while the schedule will also be posted on screens in the competition building. These rounds will follow the structure developed by FIRST. Each round, beginning with the quarter finals will be the best two out of three matches. The event will culminate with the final round. The winning alliance will be crowned Cow Town champs.

K. AWARDS:

Awards will be scaled down from what occurs at a typical FIRST regional. Cow Town champions and runners-up will be recognized with trophies. There will also be four-six other awards that will be decided ballot of all students team members present at the event. These will be made known on the website in the near future.

L. SAFETY

First Aid- Should First Aid become necessary, please seek a Cerner volunteer or report to the registration/Information desk

Pit Safety- As with FIRST competitions, safety glasses must be worn in and around the pits by everybody at all times. Extra safety glasses will not be available at the site. Each team should bring at least 10 extra safety glasses for parents and other spectators to put on when they visit your pit area.

General Conduct- All participants and supporters are expected to exhibit gracious professionalism during the entire competition. Any behavior that leads to a potential safety concern may result in a warning to the individual(s). Extreme behaviors will not be tolerated and could lead to removal from the event and site.

Safety Communication- If you have any safety concerns during the event, please notify a designated volunteer.

FACILITY INFORMATION

Driving/ Parking Instructions

Note that there will be construction on the Paseo Bridge and surrounding areas during the time of the competition. Please read the directions listed below carefully as they are updated with the most current detour information.

**CERNER CORPORATION
2901 ROCKCREEK PARKWAY
KANSAS CITY, MISSOURI 64117**

The Cerner campus is easily accessible from both I-70 and I-35. Once on the Cerner campus, follow the signs and attendants for parking and unloading directions.

FROM I-70 WEST

I-70 East (to Kansas City) to I-35 North
Take the Armour Road East (HWY 210) Exit
Left on Walker Road off Armour
Immediate right onto Rockcreek Parkway

FROM I-70 EAST or 435 SOUTH

I-70 West (to Kansas City) to I-435 North
Take 210 West (Armour Road)
Right on Walker Road off Armour
Immediate right onto Rockcreek Parkway

FROM I-35 NORTH

I-35 South to Armour Road East
Left on Walker Road off Armour
Immediate right onto Rockcreek Parkway

FROM I-35 SOUTH

I-35 North to Armour Road East (HWY 210)
Left on Walker Road off Armour
Immediate Right onto Rockcreek Parkway

A. PIT DESCRIPTION

Each team will be allotted a 10 ft x 10 ft pit located in the same building as the field. Pits will be equipped with a six foot table, two chairs and a single 110v outlet. Cordless hand tools are recommended as the total current available to each pit will be limited.

B. MACHINE SHOP

A machine shop **will not** be available; however a courtesy pit with a drill press and band saw will be available onsite. Please make arrangements and plan on not having other tools available.

C. LOADING AND UNLOADING

- The facility will be available for pit set up from 2-7 pm on Friday June 13th and 7- 8:30 am on Saturday June 14th. Please make arrangements to unload your materials by 8:30 am on Saturday morning.
- Please note that dollies, forklift or raised dock will NOT be available. Please make appropriate arrangements.
- Please note that while a security guard will be present when the gym is open, Cerner or LSHS does not hold any liability for items left in a team's pit overnight.

D. SITE RESTRICTIONS

Please read the following restrictions and adhere to them in order to promote an orderly, safe and pleasant competition.

Please...

- Do not bring food onsite.
- Do not use noisy devices
- Do not save seats
- Do not ship robots directly to the site
- Do not arrange for internet access
- Do not sell any products
- Do not give our free food products
- Do not use helium tanks
- Do not bring live bands
- Do not play loud music in the Pit
- Do not run in the venue
- Do not wear open toed shoes

E. DINING OPTIONS

- Cerner's Connections café will be available all day beginning at 7:30 am. Guest will be able to enjoy various breakfast and snack items.
- A Grill Lunch will be available from 11:00 – 1:00. During the lunch, grilled hamburger and hot dogs will be available on the Connections Patio. Lunch tickets can be purchased in the Associate Center during the morning of the competition for \$X.

REGISTRATION FORM

[Download and complete the registration form](#)