

TITANIUM KNIGHTS

Engineering Boosters

Position	Name	Telephone	Email
Committee Chair	Jim Moldow	201-664-9246	jmoldow@aol.com
Secretary	Uma Santhanam		patabihome@optonline.net
Fundraising Coordinator	Open		
Competitions/ Trip Coordinator	Open		
Engineering Week Coordinator	Open		

Engineering Boosters is a group of Academy parents who support the Engineering and Science programs at Bergen County Academies specifically to promote engineering education. The booster committee encourages all parents of team members to get involved.

Click here for information about our Engineering Sports team, the "Titanium Knight's" <http://sites.bergen.org/battlebots/>

Highlights

- BattleBotsIQ National Championship 2008 – 3rd, 4th, 6th & 7th Place
- BattleBotsIQ National Championship 2008 – "Best Engineered BattleBot" & "Coolest BattleBot"
- BattleBotsIQ Rumble @the Rock2 March 2008 – 1st Place Regional Champions
- Panasonic Creative Design Challenge 2008 – 2nd & 4th Place
- North East Robot Conflict 2008 – 1st & 4th Place
- BattleBotsIQ Rumble @the Rock1 December 2007 – 1st Place Regional Champions
- BattleBotsIQ National Championship 2007 – 2nd Place
- BattleBotsIQ National Championship 2006 – 1st Place National Champions
- BattleBotsIQ National Championship 2006 – "Best Engineered BattleBot" & "Coolest BattleBot"

- West Point Bridge Building 2006 – 1st Place Regional Champions
- BattleBotsIQ National Championship 2005 – 2nd Place, 3rd Place & 4th Place
- Northeast Robot Conflict 2005 – 1st Place, 2nd Place & 3rd Place
- Panasonic Creative Design Challenge 2004 – 1st Place, “Best Documentation” three consecutive years
- Northeast Robot Conflict 2004 – 3rd Place & 5th Place
- Rumble @the Rock 2 results at <http://sites.bergen.org/BattleBots>
- 2007 results @ <http://sites.bergen.org/BattleBots/07results.html>
- 2006 results @ <http://sites.bergen.org/BattleBots/06results.html>
- 2005 results @ <http://sites.bergen.org/BattleBots/05results.html>

Recaps

2007 - 2008: The Titanium Knights had an awesome year. In competition with 135 other teams at the National BotsIQ event, our teams placed 3rd, 4th, 6th and 7th. Robot Knightrous, took 3rd Place in the Large Class event. Knightrous also won “Best Engineered” and “Coolest Robot” awards for a second time and had the honor of being the only robot to ever eject an opponent out of the arena. Unfortunately Knightrous retires now, BattleBots style, after suffering heavy damage in the final rounds. Other large class robots performed well including 7th Place for our newly designed Mighty Knight scoring 4-2 and robot Overlord scoring 1-2. Our Mini Class robots were outrageous in 08! Robots Good Knight and Mini Knightrous both won 1st Place at the Regional BotsIQ Competitions and later finished 4th and 7th at the Nationals. Mini Knightrous, like its big brother Knightrous, also ejected 2 bots out of the Mini Class BattleBox and gave some of the best matches of the year. Also in the Mini Class, new robot UKnight won 6th Place and was “Rumble Champion.” In the return of the Panasonic Creative Design Challenge, our students performed spectacularly winning 2nd and 4th place and bringing home nearly 20k in scholarships and prizes. Furthermore, the group and individuals produced exceptional results at North East Robot Conflict events winning a 1st and 4th place, and at other regional and national science fairs including honorable mentions in the Dimension Extreme Redesign competition. Students also continued with the West Point Bridge Building Competition and made a visit to the George Washington Bridge. Our group was once again the highlighted attraction at our 5th Annual Engineering Week Luncheon and they were spotlighted in the media, most notably, in a video presentation for our school's “Intel School of the Year” winning presentation. Members also worked to produce Adaptive Technology products to help handicapped students in our district. A SWE chapter was also created on campus.

“Mini Knightrous” Regional Championship Match – Rumble @the Rock2

Video Clip #1 <http://www.youtube.com/watch?v=2dmHKSeMuJO>
Video Clip #2 <http://www.youtube.com/watch?v=wtK8zsM90Gw>

2006 – 2007: The Titanium Knights finished this year with high marks. In competition with 117 other teams at the national BotsIQ event, our robot, E2V2, took 2nd Place in the Large Class event. E2V2 retires now as a 3-time champ with two 2nd Place wins complementing its 2006 1st Place win. Our other 120 pound robot Knightrous, and new robot Overlord, also fought well. In addition Mini Knightrous, Good Knight and Knighteen, three 15 pound robots, were victorious in several of their matches in the Mini Class. Furthermore, the group and individuals produced exceptional results at North East Robot Conflict events, and at other regional and national science fairs including three robotic combat events sponsored by our group and held on campus. Also, students involved in the West Point Bridge Building Competition, Civil Engineering and Architecture courses and the Bridge Building project were treated to a tour of the George Washington Bridge. Additionally, our group was the highlighted attraction at the 4th Annual Engineering Week Luncheon and at the 2nd Annual BCA Expo.

2005 – 2006: Thanks to the continued support of the BCA community, the Titanium Knights finished last year as the National BattleBotsIQ Champions! Veteran robot E2V2 was undefeated receiving 1st Place. Rookie robot Knightrous scored 2 wins and 2 losses. Knightrous won the awesome "Coolest Robot Award" and the prestigious "Best Engineered BattleBot." In the 15 pound class, robot MiniTK and robot Hunter also produced several wins. BattleBotsIQ chooses to use a photo of our Titanium Knight robot for the cover of their event pamphlet. Additionally, students involved in the North East Robotic Conflict (NERC) events produced over 20 (1 pound) robots individually and in small groups. These students attended up to 3 local and 3 regional events producing more wins and honorable mentions than we could record. Members of our group also participated in the Boston University Design Challenge, the West Point Bridge Building Competition and other science fairs producing impressive results. Academy students attended the 3rd annual Engineering Week Luncheon and were highlighted at the Inaugural BCA Expo. The Titanium Knights hosted three robot events.

2004 – 2005: The Titanium Knights returned home with 2nd, 3rd and 4th place wins at the BBIQV Competition in Orlando, Florida. Over a hundred robots from high schools across the country were present. Large class robot "E2V2," was undefeated until the final match taking 2nd Place away from our long time NJ rival Delbarton. Mini class robot "Mini-E" scored third in its class plus was awarded "Coolest Robot." Also large class veteran robot "Titanium Knight," scored 4th Place and "Rumble Champion". Both large class robots were victorious in all matches except against the now two time champion Falcon. Other wins included "Outstanding Sportsmanship" in the task-based division, and "Best Use of IFI Control System." Additionally, students won 1st, 2nd and 3rd Place at the North East Robotic Conflict Events. Sadly, the Panasonic competition was discontinued. Academy students attended the 2nd annual Engineering Week Luncheon. The Titanium Knights also hosted our first in-house robot event.

2003 – 2004: The Titanium Knight once again received 9th place. However we entered it in the robot rumble against 7 other robots simultaneously and won "Rumble Champion." Newcomer E2V2 makes its debut at the BBIQIII. E2V2 took 7th place out of the 32 competitors. Also, table top robot, TBD, was a finalist. Members of the group also participated in the Panasonic Creative Design Challenge winning "1st Place," "Best Documentation" and the T-Shirt Contest. Additionally, students won 3rd and 5th Place at the North East Robotic Conflict Events. Engineering students hosted the 5th annual Engineering Fair and Academy students attended the first annual Engineering Week Luncheon.

2002 - 2003: The robot design was named Titanium Knight so the team was renamed to the "Titanium Knights." TK took 9th place at BBIQII, winning half its matches. Members of the group also participated in the Panasonic Creative Design Challenge winning "Fifth Place" and "Best Documentation." Engineering students hosted the 4th annual Engineering Fair.

2001- 2002: At the Inaugural BattleBots IQ national event, the Bergen Academy's first robotic sports team "Electronic Emphasis" designed and built a 120 lb combat robot called "E2." The robot took 7th place in the competition with 6 wins against Metal Fury, Reaver, Wut, Joan of Arc, Checkmate, and Defenestrator and 2 losses against Evil Eagle, and Botsy. A legacy was born! Members of the group also participated in the Panasonic Creative Design Challenge winning "4th Place," "Most Creative Design," and "Best Documentation." Engineering students hosted the 3rd annual Engineering Fair. The Titanium Knights hosted a Robot Exhibition for local teams and appeared on Good Day New York.

2008-2009 Calendar of Events

(TBD)

Organization/Competition	Event Type	Dates

TITANIUM KNIGHTS

September 2008

Dear Contributor,

Made popular by the TV show "BattleBots," BotsIQ is a competitive-physics robotic sport. Each team follows the design process and specialized curriculum to generate a unique offensive and defensive mobile creation. The project culminates in the "BattleBox" at regional and national events where each group hopes their robotic inventions will survive combat and score highest. The ultimate goal of this program is to help create more and better future engineers.

BotsIQ challenges high school and college students to use the methods of math, science and physics in a fun, real-world engineering project. The process of applying this theoretical classroom knowledge to building an actual working robot is an invaluable lesson for our kids. Students benefit by developing skills in critical thinking, problem solving, team work, and business, plus the achievement of rigorous technical objectives, all of which are highly regarded in industry today. These new skills and experiences will give our students a competitive edge as they enter college, the workforce, and throughout their careers, with outreaching benefits to society.

Bergen County Academies and the Engineering Booster Committee are proud of our award-winning, Titanium Knights BattleBots program. Bergen Academies was the only NY-NJ area high school which competed in the 2008 BattleBots IQ National Championship, early last May, in Miami Beach, FL. Fifteen students and six robots competed against 138 robot teams from 15 states, and the Titanium Knights returned home as the 3rd, 4th, 6th and 7th place teams. For more info, go to <http://www.botsiq.org>.

The Engineering Booster Committee seeks contributor support for the Titanium Knights BattleBots robotics program. Contributor donations help fund 2008-2009 projects, cover equipment and material expenses, and help fund multi-day trips to the regional championship in Plymouth, MA and the National Championship in Miami Beach, FL.

For information on the Titanium Knights, please go to <http://sites.bergen.org/BattleBots>.

Thank you for considering a contributor donation or sponsorship of our award-winning Titanium Knights BattleBots team.

Sincerely,

Jim Moldow

Committee Chair, Engineering Booster Committee
Titanium Knights BattleBots
(201) 664-9246 or (201) 519-3075 cell
jmoldow@aol.com

TITANIUM KNIGHTS

Contributor Information

___ Yes, I am interested in supporting the Titanium Knights BattleBots team.

\$10,000	Diamond Contributor
\$7,500	Platinum Contributor
\$5,000	Gold Contributor
\$2,500	Silver Contributor
\$1,000	Titanium Contributor
\$250-\$999	Bronze Contributor
\$50-\$250	Family or Individual Contributor

Corporate and Business Contributors

Whether a Diamond or Platinum Contributor, Co-Contributor, family or individual contributor, the Engineering Boosters committee will work with you to offer maximum exposure prior, during and after Diamond and Platinum events. Please note that all contributor "sponsorships" or event opportunities are subject to review and approval by BCA Group Advisors and/or the Bergen County Academies administration.

Possible Contributor Benefits

- Prominent promotional signage, flyers, materials and placement of your corporate logo on the Titanium Knights website.
- Videos posted to YouTube and other social/viral media websites.
- Video link to contributor website.
- Press release promoting an n event (i.e. Engineering Week, contributor sponsored competition, event, etc.)
- Promotional T-shirts (at contributor expense) may include Titanium Knights team logo, company/contributor logo, and event (event logo printed with permission).
- Event highlights listing on BCA electronic board in front of school; and possible contributor notification in school newsletter.
- Contributor and contributor listing on Titanium Knights BattleBots website.

Engineering Boosters Contact:

Jim Moldow
Committee Chair
(201) 664-9246
jmoldow@aol.com

Titanium Knights Group Advisors:

Joe DeFalco, Technology Teacher
jdefalco@bergen.org
Michael Liva, Physics Teacher
micliv@bergen.org
(201) 343-6000 x2211

TITANIUM KNIGHTS

Contributor Form

Company Name: _____

Contact Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: _____ Fax: _____

Email (1): _____ Email (2): _____

Contribution Amount: \$ _____ Contributor Level: _____

\$10,000	Diamond Contributor
\$7,500	Platinum Contributor
\$5,000	Gold Contributor
\$2,500	Silver Contributor
\$1,000	Titanium Contributor
\$250-\$999	Bronze Contributor
\$50-\$250	Family or Individual Contributor

How To Donate

Make checks payable to "BCA Student Activities Account - BattleBots"

c/o BattleBots, Bergen County Academies, 200 Hackensack Ave., Hackensack NJ 07601

Federal & State Tax-Exempt Status (ID # available upon request)

**Contributor "sponsorships" subject to approval by Bergen County Academies*

Titanium Knights Engineering Boosters Come Join US

**We are a group of Bergen County Academies parents
supporting and promoting Engineering Education**

MISSION:

- **To support the TITANIUM KNIGHTS BattleBots team**
 - **Fundraising and sponsorships**
 - **Assist with Engineering Week activities**
 - **Assist with competitions and trips**

Is your child involved / would like to get involved in

TITANIUM KNIGHTS?

**Did you hear about BCA's recent wins and
BattleBots IQ Regional Championship?
Check out the BCA or PPO website!**

Or log onto: <http://sites.bergen.org/BattleBots>



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Over→

Recent Highlights

- **BattleBotsIQ Rumble @the Rock2 March 2008
1st Place Regional Champions**
 - **BattleBotsIQ Rumble @the Rock1 December 2007
1st Place Regional Champions**
 - **BattleBotsIQ 2007 National Championship
2nd Place**
 - **BattleBots IQ 2006 National Championship
1st Place National Champions**
-

If interested, please mail our booster form below to: Jim Moldow,
Committee Chair, Titanium Knights Engineering Boosters, 21
Overbrook Place, Hillsdale NJ 07642, or email jmoldow@aol.com

- Yes, I would like to join the Engineering Boosters
- I can donate \$ _____ to the BattleBots Engineering Boosters
(Please make checks out to "Student Activities Account- BattleBots)
- I can help with obtaining Corporate Sponsorship
(Please email _____ or call _____ to receive a package)
- Here's my contact info for the Engineering Booster directory
Name: _____
Telephone: _____ Cell : _____
Email: _____