

WELCOME!

We look forward to your school's participation at the NJAAPT sponsored "NJ Physics Olympics" to be held on Saturday, January 16th, 2010 at Monmouth Regional High School. The competition is a lot of fun and your students will meet, share experiences, and compete with other students from various parts of New Jersey.

In order to participate you must complete the attached **registration form** and mail your check within the deadline prescribed. Rules & directions can be obtained by visiting the NJAAPT web site at www.njaapt.org. You can also request that your team be mailed the complete rules for the competition and directions to the event. The **fee of \$35.00 per team** helps defray the cost of postage, supplies, trophies and donuts. IOU's will be accepted in the case where school checks cannot be sent in time. No purchase orders can be accepted. The fee will be reduced to **\$25.00 per team** if the team registers by **December 15, 2009**. Each team may have up to six members.

Each high school must have **at least one faculty member** accompanying the team who will be asked to help judge one of the events. More than one faculty member will be welcomed. **We could really use the help.**

On the day of the Olympics, plan on arriving for the final registration between 8:00 am and 9:00 am. **The first event begins at 9:00am.** The day's activities should **conclude around 2:30pm.**

You may bring your own **box lunches**. The cafeteria will not be open. Morning refreshments will be served.

Since there is a maximum number of teams that we will be able to handle, we may have to ask for a multiple team school to only send one team. Should this happen we will notify you by January 7, 2010. Fees for eliminated teams will be refunded.

EVENT GOALS

PLEASE NOTE: *The following are only brief descriptions of each event. Full rules, competition scoring procedures, and the scoring formula can be obtained at WWW.NJAAPT.ORG.*

- **FERMI QUESTION** - To estimate the order of magnitude of a quantity that is difficult or impossible to measure.
- **The Cantilever** - Design and build the longest cantilever segment using only straws and masking tape.
- **Bernoulli Ball** - To guide a ping-pong ball through loops using a hairdryer.
- **THE CATAPULT** - Design and build a catapult that will launch a penny.
- **THE WINDMILL** - Design and build a windmill that can lift a weight of paper clips a vertical distance of 50 centimeters.
- **SPAGHETTI GUMDROP TOWER** - Design and build the tallest freestanding tower using only spaghetti and gumdrops.

Updates to the rules as well as questions and answers concerning the rules will be posted on the NJAAPT web site at

www.njaapt.org

It is your responsibility to check this web site so that your team is updated about changes and clarifications to the rules.

Awards

Six First Place Trophies

One for the highest score in each of the six events.

One Third Place Overall Trophy

To the team with the third highest overall score in all six events.

One Second Place Overall Trophy

To the team with the second highest overall score in all six events.

One First Place Overall Trophy

To the team with the highest overall score in all six events.

The NJ PHYSICS OLYMPICS SILVER SERIAL BOWL

The first place trophy team will also receive the NJ Physics Olympics Serial Bowl. The name of the winning team's school will be engraved on the bowl and that school will proudly display it in their school's trophy case until the 2011 Physics Olympics.

REGISTRATION FORM

To register, complete and return this form with a \$25.00 check for each team entered (6 members per team). Rules & directions can be obtained by visiting the NJAAPT web site @ www.njaapt.org. You can also request that your team be mailed the rules for the competition and directions to the event.

School Name: _____

School Address: _____

Teacher's Name(s): _____

School Phone: _____

Home Phone: _____

FAX: _____

Email: _____

Number of Teams: _____

Total Value of check: _____

Do you want a copy of the rules & directions mailed to you (you may obtain them by visiting the NJAAPT web site at www.njaapt.org)?

YES NO

Make checks payable to the "NJAAPT" and include \$25.00 for each team entered. Send registration form and check by **January 1, 2010** to:

John Valente
M.A.S.T.
BLDG. 305
Sandy Hook, NJ 07732

FOR FURTHER INFO

If you need further information on the NJ Physics Olympics, please contact John Valente in one of the following ways:

MAIL: M.A.S.T.
BLDG. 305
Sandy Hook, NJ 07732

PHONE: (732) 291- 0995

EMAIL: John_Valente@mast.mcvsd.org

COMMITTEE

Fred Pregger
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The New Jersey Section
of the

**AMERICAN
ASSOCIATION
OF
PHYSICS TEACHERS**

Invites you and your school to the

**2010 NEW JERSEY
PHYSICS OLYMPICS**

on

**Saturday
January 16th, 2010**

at

**Monmouth Regional
High School
Tinton Falls
New Jersey**

Outline of this year's events with registration form and deadlines are inside.