

# The 13<sup>th</sup> Youth Math, Science, and Technology Festival



26-29 January 2010

Philippine Science High School  
Main Campus

Agham Road, Diliman, Quezon City



International Year of Biodiversity

## PRE-REGISTRATION FORM (Part 1)

Fax to (02) 924 0661 or email to

[dtcrisologo@pshs.edu.ph](mailto:dtcrisologo@pshs.edu.ph)

Kindly PRINT all responses.

Name of School: \_\_\_\_\_

Address: \_\_\_\_\_

Tel. No.: \_\_\_\_\_

Email: \_\_\_\_\_

Name of School Head: \_\_\_\_\_

### Student Participants & Workshop Codes:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

### Teacher Participants & Workshop Codes:

1. \_\_\_\_\_
2. \_\_\_\_\_

**NOTE:** Kindly limit the distribution of your students to two participants per workshop, so that the slots may be distributed to other participating schools.

## PRE-REGISTRATION FORM (Part 2)

### 1<sup>st</sup> Interschool Chempionship

#### ATOM FAMILY

Contact Person: Dr. Jose M. Andaya

Telefax: (02) 924 0661

Mobile No.: 0922 8676464

Email address: [pisayatomfamily@yahoo.com](mailto:pisayatomfamily@yahoo.com)

#### Members of Team 1:

1. \_\_\_\_\_
2. \_\_\_\_\_

#### Members of Team 2:

1. \_\_\_\_\_
2. \_\_\_\_\_

### Agribots in the City

#### PSHS BASIC ROBOTICS

Contact Person: Monica D. Xavier

Telefax: (02) 929 1603

Mobile No.: 0916 4834936

Email address: [mdxavier@gmail.com](mailto:mdxavier@gmail.com)

#### Members of the Team:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

Coach: \_\_\_\_\_

### Math Interscholastic Competition 2010

#### PSHS MATHEMATICS CLUB

Contact Person: Leo Andrei A. Crisologo

Telefax: (02) 924 0661

Email address: [leocrisologo@pshs.edu.ph](mailto:leocrisologo@pshs.edu.ph)

#### Members of the Team:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Alternate: \_\_\_\_\_

## Maligayang Pasko at Masaganang Bagong Taon!

The Society for the Advancement of Research in Science and Technology (SARS+) of the Philippine Science High School Main Campus (PSHS-MC) invites your school to be part of our annual **Interscholastic Science Congress (ISC)** on **27 January 2010 (Wednesday)**.

The ISC is part of the **13<sup>th</sup> Youth Math, Science, and Technology (YMSAT) Festival**, which is to be held on **26-29 January 2010**. The 13<sup>th</sup> YMSAT Festival shall celebrate 2010 as the International Year of Biodiversity with the theme **“Samu’t Saring Buhay, Lahat Magkakaugnay”**.

Through the ISC, PSHS students and teachers can interact with other schools in and around Metro Manila through exhibits, workshops, and competitions in science, math, and technology subjects.

Included in this brochure is a list of workshops for students and teachers, as well as a description of the interschool competitions. Kindly fill out the Pre-Registration Form to signify your intention to participate in any of these workshops/competitions. You may fax the accomplished forms to **(02) 924 0661**, or email your response to [dtcrisologo@pshs.edu.ph](mailto:dtcrisologo@pshs.edu.ph).

### REGISTRATION FEES

**Workshops.** A fee of one hundred pesos (PhP100) will be charged per participant to help defray the cost of materials for the workshops.

**Early Registration.** If a school sends its Reply Form by 8 January 2010 (Friday), workshop participants will be charged only eighty pesos (PhP80) each.

### EXTENDED INVITATION

If your school will not be able to participate in the ISC on January 27, you may still want to view our weeklong exhibits in biology, chemistry, computer science and technology, math, physics, and research. Please contact us at **(02) 924 09661** or [dtcrisologo@pshs.edu.ph](mailto:dtcrisologo@pshs.edu.ph) so we can prepare for your visit.

### Interscholastic Science Congress Schedule (27 January 2010, Wednesday):

**7:00 a.m. - 8:00 a.m.** – Registration at the Front Lobby

**8:00 a.m. – 10:00 a.m.** – Symposium at the Audiovisual Room of the Advanced Science and Technology Building

**8:00 a.m. – 12: 00 nn** – Interscholastic competitions in Chemistry and Basic Robotics at the Science and Humanities Building

**10:00 a.m. – 12:00 nn** – Simultaneous student and teacher workshops (venues to be announced upon registration)

**1:00 p.m. – 4:00 p.m.** – Interscholastic competition in Mathematics at the Science and Humanities Building

**4:00 p.m. – 5:00 p.m.** – Awarding of Prizes and Distribution of Certificates at the Science and Humanities Building Auditorium

### STUDENT WORKSHOPS (27 January 2010, 10:00 a.m. – 12:00 nn)

**[SW01] DNA Detectives: Solving mysteries using DNA technology.** This activity simulates DNA fingerprinting technology and how it is applied to forensics. Max 25 students.

**[SW02] Focus, see the word on a bigger scale; Staining alive; Can you clean what I see.** This three-part introduction to biological laboratory techniques includes an introduction to basic microscopy, staining of bacterial species, and basic aseptic techniques in culturing microbes. Max 15 students.

**[SW03] Crazy world.** This hands-on nature walk aims to promote environmental awareness and includes a tree-planting activity. Max 15 students.

**[SW04] Environmental awareness.** This lecture takes a holistic view of the many problems that plague our environment and provides concrete ideas for solving them. Max 30 students.

**[SW05] Computer-aided design and drawing.** A hands-on workshop covering basic technical drawing through the use of CADD software. Max 15 students.

**[SW06] Run. Eat. Solve. Laugh. Math.** With a little math, make that a lot of math, this virtual time travel showcases the different cultures and eras with the current mathematics of that period. Prepare to be amazed as mathematics comes alive in various shapes and sizes. Max 60 students.

**[SW07] Basic stargazing.** Explore the hidden wonders of the night sky in this practical activity. Max 30 students.

**[SW08] Conducting a science investigatory project.** Go through the steps of the scientific method and develop essential skills for producing competitive science fair entries. Max 25 students.

### TEACHER WORKSHOPS (27 January 2010, 10:00 a.m. – 12:00 nn)

**[TW01] Innerspace race.** Investigate the systems of the human body by using games and simulations to increase participation, comprehension, and recall. Max 30 teachers.

**[TW02] Using games and other techniques to teach chemistry.** This workshop presents some personal techniques used by the speaker in teaching chemistry. Its goals are to improve teaching methods, to generate lively classroom discussion, to increase student-teacher interaction, and to promote learning while having fun. Max 20 teachers.

**[TW03] E-Learning through MOODLE.** Creating and sharing resources online for classroom instruction. Max 15 teachers.

**[TW04] The role of mathematics in addressing global challenges.** This workshop explores global challenges the roles that math teachers and students face in overcoming these. Max 30 teachers.

**[TW05] The LIGHTer side of physics.** Learn about the properties of light and learn easy to perform optics experiments that will enhance student understanding and appreciation. Max 30 teachers.

**[TW06] Investigating your students’ science investigatory projects.** Ensure the soundness of your students’ research design by creating your own rubrics and evaluating samples of research projects in various stages of completion. Max 30 teachers.

### INTER-SCHOOL COMPETITIONS (27 January 2010)

**1<sup>st</sup> Interscholastic Championship.** The competition includes questions from both general and advanced chemistry (organic chemistry, acids and bases, chemical equilibrium, and qualitative chemistry).

**Agribots in the City.** Take the Agribots challenge! Design two robots and a strategy to harvest, plant, and irrigate a farm. Robots can be made from any kit or materials and may be pre-made and pre-programmed. Scoring will be based on the 2009 National Robotics Competition Game Rules at <http://www.pinoyrobotgames.org>.

**PSHS Math Interscholastic Competition 2010.** The competition will contain topics on basic and advanced algebra, geometry, trigonometry, combinatorics, and number theory.