



# INSTITUTE OF PHYSICS, SRI LANKA

Vidya Mandiraya, 120/10, Wijerama Mawatha, Colombo 7, Sri Lanka.

(Incorporated by an Act of Parliament, Act No. 12 of 1986)

Email: [ipsl@kln.ac.lk](mailto:ipsl@kln.ac.lk) Web: <http://www.ip-sl.org> and <http://www.ipsl.lk>

## National competition on computer simulation of Physics concepts

### ORGANIZER OF THE COMPETITION

This competition is organized by the Institute of Physics, Sri Lanka (IPSL), Ministry of Education and National Institute of Education.

### GOAL AND OBJECTIVE OF THE COMPETITION

- The objective of the competition is to strengthen the conceptual understanding of Physics and to encourage the students to incorporate IT skills for learning process.
- The goal of the competition is to develop the simulations that can be used as resource material for Physics education.

### ELIGIBILITY

- Secondary level school children (both state and private) are eligible for the competition.

### LANGUAGE

The text of simulation may be prepared in Sinhala, Tamil or in English. However, bi-lingual and tri-lingual applications are encouraged.

### PRIZES

Three (3) best competition submissions shall receive prizes and certificates set out as below. Next 10 submissions are awarded only certificates.

- First Prize - Cash Award of Rs 25,000 and a plaque
- Second Prize - Cash Award of Rs 15,000 and a plaque
- Third Prize - Cash Award of Rs 10,000 and a plaque

### METHOD OF COMPETITION SUBMISSIONS PREPARATION

- A contestant may be a single or a group (not more than 3) of eligible students.
- A contestant can submit up to maximum of three (3) simulations.
- Contestants are free to use any popular software (Java, Flash, Director etc.) to develop the simulation.
- The simulation should be able to play without installing any specific programme in a computer and should be web enabled.
- Simulation embed in a web page must be copied to a CD with all required plug-inns (if necessary) and fonts.
- Each simulation must be accompanied with a detailed text document explaining equations and theories used.

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## DEADLINES

- Calling for applications for the competition – 1 March 2013
- Submission of competition Application Forms – 30 April 2013
- Submission of simulations – 15 July 2013
- Short listing of submissions – (two weeks) July 2013
- Adjudication of originality - (two weeks) July 2013
- Adjudication of Winners - (two weeks) July 2013
- Prize Awarding – August 2013

## EVALUATION

- Winning entries will be selected by panels of judges appointed by the IPSL.
- All submitted entries are evaluated by two panels of judges-appointed by the IPSL. The first panel comprising Physicists will evaluate all entries based on accuracy, interactivity and designed and will select best 15 entries.
- Contestants of the above selected entries are informed to present their simulations to the second panel comprising both Physicists and Computer professionals. This panel will examine the originality and the IT competency of contestants to develop the submitted simulations.
- The first panel will select the winners based on the recommendations of second panel.

## COPYRIGHTS

- Contestants are entitled to the copyrights of their submitted works.
- The organizer of the competition (IPSL) has the right to reproduce the finalists' simulations and distribute free of charge as teaching materials.

## MISCELLANEOUS

- Contestants must obey the Organizer's arrangements.
- IPSL has the right to recall the eligibility of the award at any stage if it reveals plagiarism of others' works.
- The decisions of the Panels of Judges will be final, and no appeals will be entertained.
- IPSL has the ultimate authority to interpret the Rules and Regulations and has the right to make any changes to them as necessary.

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## MEDIA PARTNERS

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