

# High School Essay & Poster Competition 2010

**1st Place:**  
\$20,000.00

**2nd Place:**  
\$15,000.00

**3rd Place:**  
\$10,000.00

**Categories: Grades 10-13**

**Each category will have three winners**

## Essays:

### **A. Biology**

“Human Genetics Engineering may hold the solution to Jamaica’s Crime problem.” Discuss the preceding statement outlining the pros and cons associated with Human Genetic Engineering.

### **B. Chemistry**

Conviction rates in Jamaica’s criminal justice system are very low. Make a case for the Jamaican government to invest in Forensic Chemistry to improve the criminal justice system.

### **C. Energy**

Fossil fuels supply almost 90% of Jamaica’s energy. With the world’s current supply of fossil fuels predicted to run out in about 50 years, examine the feasibility of nuclear energy becoming Jamaica’s main source of energy.

### **D. Environmental Science**

The Kingston Harbour is the 3rd largest port in the Caribbean & Latin America and is also the 7th largest natural harbour in the world. With pollution posing a major threat to this natural resource, state your views as a case to remedy this situation.

### **E. Information Technology**

“Healthcare Information Technology (HIT) will solve all Jamaica’s Healthcare problems.” Support or refute the preceding statement outlining the benefits and drawbacks of HIT.

### **F. Standardization**

Global climate change can be successfully tackled through the use of Standards. Explore several initiatives including the reduction of greenhouse gas emissions, increased energy efficiency, sustainable development and others to demonstrate how Standards will impact on this global concern.

## Essay Rules

- Essays should be:
  - \* 1,500-2,000 words in length.
  - \* Typewritten, double-spaced on letter-sized paper
  - \* With clear margins (at least 1 inch) should be left on both sides of the text.
  - \* Identified in the following manner:
    - ⇒ Name of student at top right hand corner of the first sheet
    - ⇒ Below name, student’s form/grade
    - ⇒ On next line, name of school followed by school’s address
    - ⇒ Date, name, signature and contact number of teacher who guided the student
    - ⇒ Chosen category and topic should be placed at the centre of the paper and underlined or bolded.
- Each student is allowed a maximum of two (2) entries from different categories.
- A bibliography **must** be included. Please see overleaf for bibliography information.
- A declaration of proof of work must be signed and accompany the essay(s).

## Criteria:

• Adequate Coverage of Topic	- 10 Marks	(20%)
• Effective Use of Language	- 10 Marks	(20%)
• Organization and Presentation	- 10 Marks	(20%)
• Accuracy of Information	- 10 Marks	(20%)
• Relevance to Jamaica	- 5 Marks	(10%)
• Bibliography	- 5 Marks	(10%)

## Posters:

**A. Human Genetic Engineering: A breakthrough in crime solving**

**B. Chemistry Crime Fighters**

**C. Nuclear Energy Potentials**

**D. Kingston Harbour - Opportunities for remediation**

**E. Information Technology in Healthcare**

**F. Tackling Climate Change through Standards**

## Poster Rules

Each student is allowed a maximum of two (2) entries from different categories.

SIZE: 66 cm x 51 cm

MEDIUM: Any of the following:

Water Colours, Pen & Ink, Crayons, Poster Paint, Powder Paint

Posters packaged for mailing should be done according to the following procedure:

Roll posters, place in cardboard tubing, place SRC’s address on the outside of the tubing or submit as hand held poster holder.

A declaration of proof of work must be signed and accompany poster (s).

## Criteria

Visual Impact & Effectiveness in portrayal of the theme	-	10	(40%)
Use of Colour	-	7	(28%)
Lettering	-	3	(12%)
Originality	-	5	(20%)

**Deadline** - February 26, 2010

**Awards Ceremony** : April 2010 (Only winners will be contacted)

All entries must be sent to:

**The Scientific Research Council**

**C/o The Science & Technology Education Unit**

**P.O. Box 350, Hope Gardens**

**Kingston 6**

**E-mail essays to: [garfieldk@src-jamaica.org](mailto:garfieldk@src-jamaica.org)**

For further information, please call 927-1771-4 or fax to 927-0806



## SAMPLE BIBLIOGRAPHICAL ENTRIES/REFERENCES

**STUDENTS:** Please use these samples as guidelines for your references at the end of your essays

- **A book with a single author.**

Hawthorne, Edward P. The Management of Technology. London: McGraw-Hill, 1978.

- **A book with 2 authors.**

Minor, Theodore E. and Elmer H. Marth. Staphylococci and their Significance in Foods. Amsterdam: Elsevier, 1976.

- **A book with 3 authors.**

Cusumano, James A., Ralph A. Dalla Betta and Ricardo B. Levy. Catalysis in Coal Conversion. New York: Academic Press, 1978.

- **A book with more than 3 authors.**

Holland, F.A., et al. Heat Transfer. London: Heinemann Educational Books, c 1970.

- **A book with a corporate author.**

UNESCO. Energy Scholarships: Grant Possibilities Offered by International, National and Regional Organizations. Paris: UNESCO, 1985.

- **Articles in reference books.**

"Energy" McGraw-Hill Encyclopedia of Science and Technology. 1960 Ed.

- **A book without place of publication, publisher, date of publication.**

The abbreviations given below can be used.

n.p. No place of publication given

n.p. no publisher given

n.d. no date of publication given

E.g. Darrow, Ken. Appropriate Technology Source book. n.p: n.p, n.d.

- **A work by an editor.**

Shepherd, H.R. Ed. Aerosols: Science and Technology. New York: Interscience Publishers, 1961.

- **The published proceedings of a conference, workshop, etc.**

Photovoltaic Solar Energy. Proceedings of the International Conference held in London, U.K. 15-19 April 1985. Dordrecht, Holland: D.Reidel Pub. Co., 1985.

- **No author given.**

A new Prosperity: Building a Sustainable Energy Future. Andover, Mass.: Brick House Publishing, 1981.

- **Edition other than the first edition.**

Moncrieffe, R. W. ed. Man-made Fibres 6th ed. London: Newmans-Butterworths, 1975.

- **Article in a journal**

Mootoo, A. "Effect of Post-harvest Calcium Chloride Dips on Ripening Changes in 'Julie' Mangoes." Tropical Science, 31, no.3 (1991), 243-248.

- **Article from a daily newspaper.**

Wade, Barry. "Energy and National Conservation Strategy". The Daily Gleaner, 7 May 1990, p.1.

- **Article from the internet (Stand-alone document, no author identified, no date.)**

GVU's 8th WWW User Survey. (n.d). Retrieved August 8, 2000 from [http://www.cc.gatech.edu/gvu/user\\_sureys/survey-1997-10/](http://www.cc.gatech.edu/gvu/user_sureys/survey-1997-10/)