



香港浸會大學

HONG KONG BAPTIST UNIVERSITY

ECO-ENVIRONMENTAL SCIENCE CAMP

3-6 July 2007

*Exclusively Designed for
Form 1 & 2 Students*



Message from Organizer

With the commitment to promote science to the public, our Faculty has organized many science-related events to different stratum of the society since our establishment in 1956. In recent years, environmental issues have become popular topics since they affect our daily lives. The *Eco-Environmental Science Camp 2007* has been designed for junior secondary school students with a main theme in the appreciation of our living environment. It aims at inspiring youngsters' consciousness in environmental protection in order to preserve the beautiful world and shape a better future for our next generation. Students can learn about how science interacts with their daily lives through a series of activities including lectures, hands-on experiments, field trips and small-group projects. I am sure this will be an enjoyable and invaluable experience to all participants. Do have fun with science!

*Prof. Rick W. K. Wong
Dean of Science
Hong Kong Baptist University
February 2007*

Organized by

Faculty of Science

Objectives

🍎 To prepare students to fully integrate into the future knowledge-based society, the camp is intended to nurture them with scientific thinking, independent investigative ability and team spirit.

🍌 Under the backdrop of Ecology, Environmental Protection and Fun Science as the three core areas of study, the camp will provide young students with a variety of inducible learning environments aimed at arousing their curiosity to the wonders of our world.

🍇 Under a pleasant and relaxed learning environment, through a variety of activities, participants would acquire ways to exercise stewardship to our natural environment.

🍐 Through discussion, small group activities and project presentations, participants can sharpen their communication skills and their ability to use information technology.

👉 To complement the focused activities mentioned above, musical and artistic activities will also be organized, providing participants with a well-rounded enjoyable five-day programme.



Features

🍌 **Focus on Five Major Themes:** all activities will centre around these five prime areas of environmental study -- Understanding the Natural World; Air Pollution; Water Pollution; Solid Waste Reduction; and Ecological Systems.

🍎 **Knowledgeable Lectures with Demonstration:** all related to the five main themes and delivered by university professors, using simple day-to-day examples and vocabulary.

🍐 **Abundant Hands-on Experiments:** extraction of colored ingredients from readily available natural materials; water analysis; monitoring of water quality; monitoring of air pollutants; recycling of plastic wastes... and more.

🍇 **Dedicated Field Trip:** visit to mangroves in the Sai Kung area which will serve as an ideal tool for enabling students to appreciate the environmental and ecological values of unique sub-tropical plants widely found in Hong Kong.

👉 **Extensive Investigative Studies:** students will work in groups on an assigned environmental/ecological/science topic, and then present the findings of their investigation; excellent training for teamwork and interpersonal skills.

🍎 **Engaging in Environmental Issues:** guided by facilitators, participants will be exposed to current environmental issues facing the Hong Kong community, through reading and discussion on newspaper/magazine cuttings.

🍇 **Integrated Language Training:** three language media i.e. English, Putonghua and Cantonese, to be used alternatively throughout the camp, the aim being to enhance the ability of students in communicating both in English and Chinese.

🍌 **Relaxing Fun Time:** plenty of fun time -- singing, games, role play and artistic appreciation -- throughout the four-day event to reinforce students the concept that Science is never boring.

Co-organized by:
Baptist Chemists (Association of HKBU Chemistry Alumni)

Steering Committee

Prof. Chan Wing Hong (Chair)

Prof. Albert W. M. Lee

Prof. Ricky N. S. Wong

Dr. Martin M. F. Choi

Dr. Kelvin S. Y. Leung

Ms Agatha L. S. Siu

Mr. Chan King Wai

Ms Mok Sin Hing

Head, Department of Chemistry

Chair Professor, Department of Chemistry

Head, Department of Biology

Associate Professor, Department of Chemistry

Lecturer, Department of Chemistry

Senior Scientific Officer, Department of Chemistry

Scientific Officer, Department of Biology

Chairperson, Baptist Chemists

Natural Pigment Workshop

We all like to see colorful things and enjoy colorful food. This is especially true for children. As people's demand for natural products grows, natural colorants will hopefully replace synthetic colorants.

Natural pigments are principally used for foodstuff colorants and toners. For example monoskus red is used for ham sausage. These natural pigments are totally safe to eat and have no side effects.



In our workshop, natural pigments will be prepared by the participants. They will learn how to extract natural pigments from natural herbs, food and flowers using different techniques.

HIGHLIGHTS

Hands-on Experiments :

- ⌚ Pigments extraction from natural materials eg. herbs; tomatoes and flowers



Interactive Activities :

- 📄 Group discussion
- 📄 Ways to design a product from the color extracts



Artistic Competition :

- 🖌️ Drawings
- 🖌️ Hand-made souvenirs



Event Specifics

- Target Participants : F.1 and F.2 students
 Date : 3 – 6 July 2007 (+ 1-day field trip on 10 July 2007)
 Venue : Hong Kong Baptist University, Kowloon Tong
 Accommodation : Hong Kong Baptist University Student Hostel
 Fee : HK\$2,850 per person (schools with more than 5 students enrolling are eligible to HK\$200 reduction per pax)
Early-Bird Offer: schools which register before 1 May 2007 can enjoy the preferential fee of \$2,600 per pax
 Maximum In-take : 150 students; applications will be processed on a first-come first-serve basis. Schools are advised to register early.
 Certificate : All participants who have completed the full 5-day programme will receive a certificate.

Preliminary Programme

Day 1 (3 July)

- ⇒ Registration
- ⇒ Opening Ceremony
- ⇒ Grouping & Briefing
- ⇒ Familiarization Game
- ⇒ Theme Activities by Group
- ⇒ English for Science
- ⇒ Sharing & Fun Night

Day 2 (4 July)

- ⇒ Morning Exercise
- ⇒ Theme Activities
- ⇒ Talk: Mangroves
- ⇒ Group Project: Assigning Topic & Reading Materials
- ⇒ Dialogue with Professors
- ⇒ Sing Along & Learn Your Putonghua

Day 3 (5 July)

- ⇒ Morning Exercise
- ⇒ Theme Activities by Group
- ⇒ Artistic Competition
- ⇒ More Dialogue with Professors
- ⇒ Talent Show

Day 4 (6 July)

- ⇒ Morning Exercise
- ⇒ Project Work on Assigned Topic
- ⇒ Oral Presentation of Group Project
- ⇒ Closing Ceremony & Award Presentation

Day 5 (10 July)

Field Trip:

- ⇒ Discovery of Mangroves will be arranged on July 10, 2007 (Tuesday) in two sessions (morning & afternoon).
- ⇒ Due to the tidal situation, the whole week starting from July 2 is not suitable for investigation of mangroves.

Enquiries: Call ☎ 3411 7077 Miss Siu
 Or Email ✉ sc2007@hkbu.edu.hk
 Website: www.hkbu.edu.hk/~sc2007



Remarks

1. **Actual contents** subject to final programme scheduling.
2. **Theme Activities:** Colorful World; Cleaning up the Air; Why Polluted Water; Managing Solid Waste
3. **Group Presentation:** A topic on ecology/environment/ general science will be assigned to each of the groups. Under the facilitation of the group leader (an undergraduate/postgraduate in Chemistry or Biology discipline from HKBU), the group will prepare a 20-min Power-Point presentation and deliver this on the last day of the camp.

REPLY FORM

Please return by fax to 3411 7348 on or before March 23, 2007

To: Prof. Chan Wing Hong
 Chair of Steering Committee
 Eco-Environmental Science Camp, HKBU

From: _____

 (Please state name of school here)

Please tick the appropriate box.

- Our School is interested in promoting the “Eco-Environmental Science Camp” to our F.1 and F.2 students, please
- send us the application forms and promotional leaflets, a total of _____ copies is needed.
 - arrange for a representative to present the programme to the school principal/teachers.
 - arrange for a representative to present the programme to parents of the students.
 - Others (Please specify : _____)
- Our School is not interested in promoting the “Eco-Environmental Science Camp” to our students.

Name of contact person : _____

Contact telephone no. : _____ Contact email : _____