



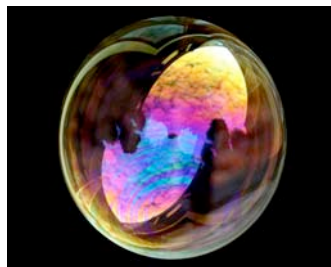
# EXPERIENCING MATHEMATICS

An International Exhibition supported by UNESCO

April-May, 2008



Islamabad, Lahore & Peshawar



A Soap Bubble assumes spherical shape to minimize its potential energy

## INTRODUCTION

Mathematics is central to daily life in the 21<sup>st</sup> century but how many people realize, each time they use a telephone or credit card, listen to a compact disk, drive a car or board a plane, that it is mathematics that makes these apparatus work? Similarly, when people invest in the stock market, check the weather report or admire a work of art, are they conscious of an association between these actions and mathematics. In order to show that mathematics is not only indispensable to daily life but can also be fun, and not a burden to learn but fascinating and easy to understand if taught properly team led by UNESCO has designed a travelling exhibition entitled "Experiencing Mathematics", which began its world tour in July 2004.

This student and public oriented exhibition has already been held in France, Spain, Thailand, Laos, Vietnam, Cambodia, Singapore, South Africa, Namibia, Mozambique and lately in India. It is due to arrive in Pakistan in April from where it will fly off to Philippines at the end of May.

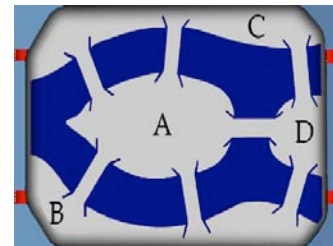
## PAKISTAN SCIENCE FOUNDATION

Pakistan Science Foundation, which is arranging the exhibition, was established in 1973 by an Act of Parliament for promotion and popularization of Science and Technology in the country. Besides financing research projects in all disciplines of Science and Technology in the Universities and research organizations in the country, the Foundation has number of programmes for popularization of Science and Technology including, establishment of science museums, science centres, science caravans, science clubs in schools, science exhibitions etc.

Pakistan Science Foundation has arranged a number of exhibitions in the past. This mathematics exhibition is the first of its kind and is being arranged with the cooperation of French Embassy in Pakistan. This initiative opens a new vista for PSF activities.

## PARTICIPANTS

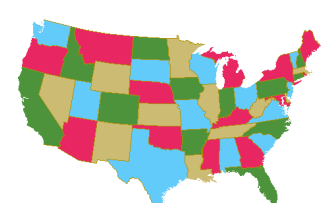
"Experiencing Mathematics" not only targets children and youth between the ages of 12 and 20, but also their parents and teachers.



Konigsberg Bridges: Is it possible to traverse the city by crossing each bridge once only?



Honey Comb: An Example of Efficient Shape to occupy a given volume



The Four Colour Theorem: How many colours are enough to colour a map so that two adjacent countries are of different colours?



Fern: An Example of Fractal Structure in Nature

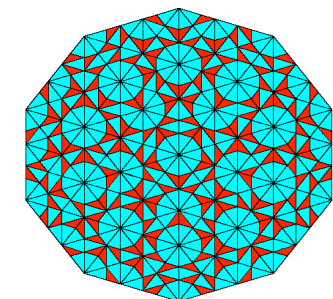
## Jointly Organized by:

*Pakistan Science Foundation, Islamabad*  
and

*Embassy of France, Islamabad, Pakistan*

## In collaboration with:

- *Federal Directorate of Education, Islamabad*
- *National Museum of Science and Technology, Lahore*
- *Pakistan Forest Institute, Peshawar*



Penrose Tiling: An example of non-periodic tiling

## Programme:

- 9 April 2008:** Inauguration of exhibition at Islamabad Model College for Girls, F-7/4, Islamabad
- 9 April-21 April:** Exhibition at Islamabad Model College for Girls, F-7/4, Islamabad
- 25 April-11 May:** Exhibition at National Museum of Science and Technology, Lahore
- 17 May-28 May:** Exhibition at Government High School No. 1, Peshawar

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