IFUNAM

(LECTURE II SCIENCE EDUCATION)

NOVEMBER 17, 2000 MEXICO CITY

In 1600, Francis Bacon wrote about the importance of ordinary people to understand the progress of science. In 1600, “it would be useful,” he said. In 2000, in a century already exploding with science-based technology, I believe it is absolutely essential for survival of democratic society!
There isn't one unique, perfect A.S. Science Curriculum. But let's look at the progression of learning by very young children and by the developments in modern science.

The Pyramid of Science

This hierarchy is intrinsic to science, why isn't it relevant to science ed?
THE DESIGN OF THE NEW HIGH SCHOOL PROGRAM IS FOR ALL STUDENTS

AGE 15-16-17-18 TO JOBS A

1 2 3 4
AP AP AP

TO LIBERAL ARTS COLLEGE B
TO SAT COLLEGE C

IN THE 2nd, 3rd, 4th YEAR ONE CAN FOLLOW:

A. SCHOOL-TO-WORK: COMPUTERS, TECHNOLOGY
B. SCIENCE & SOCIETY
C. ADVANCED PLACEMENT PHYSICS, CHEM, BIO
   EARTH SCIENCE, SPACE, PROJECT BASED LEARNING

THE GOAL: GRADUATES WHO ARE COMFORTABLE WITH AND WHO CAN COPE IN THE CHANGING WORLD OF 2000+

THE HOPE IS TO EMERGIZE THE SOCIAL SCIENCES AND THE HUMANITIES. TO HAVE JOINT SESSIONS AND DO WHAT IS NECESSARY TO CLOSE THE TWO CULTURES GAP FOR THE "ARISE" GENERATION

THE HIDDEN AGENDA
A HIGH SCHOOL (PERHAPS 8-14) EXPERIENCE THAT TEACHES THE UNITY OF ALL KNOWLEDGE: "CONSENSUS"