

# EINSTEIN CONTINUED

Did you ever contemplate the practical applications of the "time is relative" theory while sitting in class?

The classroom is an ideal place for such contemplation, for the student's situation (being forced to sit in a given place for a given period of time) lends itself to a direct application of this theory.

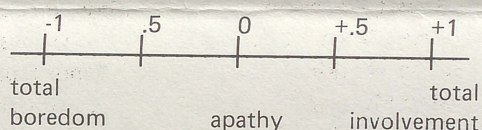
Now, everyone knows that class is sometimes boring. Some classes are more boring, some are less boring, and some are actually interesting. Through 15 years of sitting in a classroom, (only the last 3 or so observantly) I have noticed that there is a direct correlation between how interested I am in a class, and how quickly (or how disquickly) the time seems to pass.

Now, everybody (everybody who has Physical Science 113 from Dr. Dunkel) also knows that time is relative. That is, that there is no absolute speed at which time must move (my definition).

I have, with the help of a couple of Mr. Neumann's students, formulated a definition for this theory. I modestly call it Betty's Law. Betty's Law states that the speed of time, or reflected time, is directly proportional to the interest factor of any given class period, or

$$T = i$$

Now, in deriving an equation to apply Betty's Law, I have devised a linear scale to indicate the interest factor. On the scale, 0 constitutes equal amounts of interest and boredom, or, a normal apathetic state. To indicate maximum interest, or total involvement, I have selected +1. To indicate maximum disinterest, or total boredom, we shall use -1. The calibrations in between represent tenths, and varying degrees of either interest or boredom.



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The equation, which is reflected time is equal to the given time factor (amount of minutes in a class period) times the interest factor, looks like this:

$$T = g.t. \times i$$

In plugging in values, we can use total interest, or a +1 value, as  $i$ . If a class is 50 minutes long, that yields

$$T = 50 \text{ min.} \times 1 \text{ or}$$

$$T = 50$$

This means that time moves 50 times its "normal" speed. If you take the opposite extreme, or a super-boring class (at 50 minutes long), the equation works like this:

$$T = 50 \text{ min.} \times -1 \text{ or}$$

$$T = -50$$

or, time moves at 1/50 its normal rate. Plugging zero, or apathy, into the equation yields, for a 50 minute class.

$$T = 50 \text{ min.} \times 0 \text{ or}$$

$$T = 0$$

This means that time is moving at its normal, half-boring, half-interesting rate. Easy, eh?

Now, this is okay-you can actually see how fast time moves. But what's even better is the variation of Betty's Law, which looks like so:

$$T/g.t. = i$$

If you know have fast reflected time is moving, and the length of the class period, you can compute how interesting each of your classes are.

This formula eliminates guess work -- it is now possible to know how interested you are by presenting yourself with a numerical equivalent of your mental involvement.

Einstein just didn't take it far enough.

## New Classes Offered

The Physical Science-Mathematics Department is offering the following special courses for the 1972-73 spring semester:

**Introduction to Astronomy 123:** A special science course designed to acquaint liberal arts students with the general concepts and techniques of astronomy. The museum planetarium will be used for demonstrations. 3 sem. hrs.

**Chemistry 101:** Provides an introductory chemistry background for students having little or no chemistry. 3 sem. hrs.

**Chemistry Lab 103:** May be elected concurrently with Chem 101 and considers analytical techniques of environmental chemistry. 1 sem. hr.

**Fortran 220:** Students learn the FOR-TRAN programming language and applications. Projects related to a student's major field of study are encouraged. The college's NCR Century 50 computer is available to run student programs. 3 sem. hrs.

**Science and Society 235:** A course designed for liberal arts students which explores current issues resulting from the interrelationships existing between science, society, technology and the environment. 3 sem. hrs.

**Statistics 223:** A course designed to meet statistics requirements in business and mathematics programs. Surveys and hypothesis testing are among the topics treated in the course. 4 sem. hrs.

For specific course descriptions and prerequisites consult the College Catalog. Questions may be directed to any member of the Physical Science - Mathematics Department.

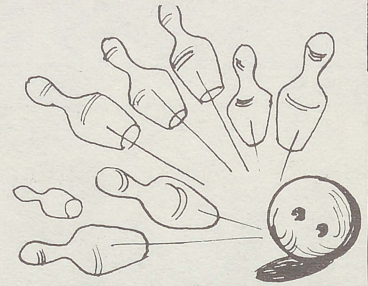
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## LACK of FUNDS ?

There is no reason why any student at ACC should drop out of school because of a lack of funds.

Alpena Community College has, for several years, been in a position to award scholarship monies from various sources to students at the college.

Any student wishing to obtain a scholarship must fill out a Parents' Confidential Statement (PCS) and an Application for Financial Aid, which are available either at the college or at surrounding high schools. These forms must be turned in to the Director of Financial Aid, Mr. Rick Counsellor. Mr. Counsellor prepares the records of the applicants and turns them over to the ACC Scholarship Committee.

This committee, consisting of Mr. Richard Matteson (chairman), Mrs. Shirley Valli, Mr. William Yule, and Mr. Tom Leach, reviews the applications and awards the monies according to need, scholastic ability, and the specifications of the individual scholarship.

"The committee would welcome applicants for the second semester who feel that they have a need and have achieved an academic level which is commensurate with academic excellence." Mr. Matteson stated.

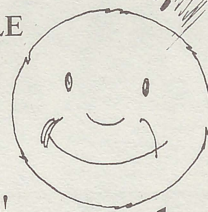
It was also indicated that anyone filling out an application for a scholarship should do it with the assistance of a counselor, so as to assure that the true need of the student be reflected.

A list of scholarships currently being offered at ACC are listed in the college catalog.

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## It's Dancing Time

An event is coming up which will give ACC students and their guests an opportunity to lay aside their jeans and dress up for a change!

The Snowball, a semi-formal dinner-dance, will be held Friday, December 8 at the Kentucky Inn. Cost is minimal -- only \$5.00 per couple -- for an entire evening of eating and dancing!

Music will be provided by a live band; couples may dance from 9:00 until 1:00 a.m. A smorgasbord-type dinner will be served at 10:30.

Tickets for the event may be bought in the Business Office, or from Golden Z club members.

Last year's Snowball, also held at the Kentucky Inn, was attended by 120 ACC students and guests.

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