

1969

## Convention Plans Near Completion

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natural frequency of the fundamental of a vibrating string.

Most physics texts state the model as  $N = \frac{1}{2L} \sqrt{\frac{F}{M}}$ . The number of variables can be reduced to two by keeping the other variables constant. If  $F$  and  $M$  are constant then  $NL = K^1$ . If  $M$  and  $L$  are constant then  $N =$

$K_2 \sqrt{F}$  and if  $L$  and  $F$  are constant then  $N \sqrt{M} = K_3$ .

It is hoped that the illustrative examples will suggest the scope of the application of variation as unifying systematic approach to physics. The author has found this to be a very effective tool.

## Convention Plans Near Completion

Plans are nearing completion for the 1969 NSTA convention in Dallas, March 21-25. A tentative convention program has been compiled with confirmed arrangements for the majority of sessions, seminars, and workshops.

Among the activities on the program are two series of science teacher workshops scheduled for Friday, March 21, and Tuesday, March 25. These workshops provide opportunities for approximately fifty teachers in each one to work directly with a variety of commercial instructional materials in a laboratory-type setting. Among the twenty workshops that have been scheduled, five are for elementary teachers, seven deal with junior high school science education, and the remainder are directed to teachers of science at the senior high school and college levels.

## Preliminary Planning Session for Short Course

Preliminary plans for the Science Teachers' Short Course were discussed at a meeting at Iowa State University, Ames, on December 7, 1968.

Present were several of the science department heads with Dr. Donald Biggs acting as coordinating chairman and Sister Barbara Donovan representing the ISTS.

The Short Course is scheduled for Friday and Saturday, March 7th and 8th. The general format will be similar to that of past years although some minor changes will be made in response to suggestions made by participating teachers last year.

Generally, the special symposia held on Friday and Saturday will be in the areas of biochemistry, biology (including botany and zoology), chemistry, geology, metallurgy and physics. The addition of a math and computer science section was also considered.

A general letter of announcement will be issued by Dr. Biggs in January and programs and reservation forms will be available by early February.