

The "Hawkes' Photo Play Series"
No. 21.

Passionato.

Bassoon.

GASTON BORCH.

Andante.

The musical score consists of ten staves of music for the Bassoon part. The key signature has one flat (B-flat) and the time signature is 3/4. The piece is marked 'Andante'. The dynamics range from *f* (forte) to *ff* (fortissimo). The tempo markings include *rit. poco* (ritardando poco), *a tempo*, and *allargando*. The score includes various musical notations such as triplets, slurs, and accents. The first staff begins with a dynamic of *f*. The second staff has *mf* dynamics. The third staff ends with *p cresc.*. The fourth staff has *mf*. The fifth staff starts with *f* and *pp*. The sixth staff has *p*, *mf*, and *cresc.*. The seventh staff has *f*. The eighth staff has *f*. The ninth staff has *f*. The tenth staff has *f* and *ff*.

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THE UNIVERSITY OF CHICAGO

PHYSICS

The following table shows the results of the experiments on the
 velocity of sound in air at different temperatures. The velocity
 was measured by the method of Kundt's tubes. The length of the
 tube was 1.00 meter. The frequency of the sound was 512 Hz.
 The results are as follows:

Temperature (°C)	Velocity (m/s)
15	332
20	343
25	354
30	365
35	376
40	387
45	398
50	409
55	420
60	431
65	442
70	453
75	464
80	475
85	486
90	497
95	508
100	519

It is seen that the velocity of sound in air increases with
 temperature. The increase is approximately 0.6 m/s for every
 degree centigrade. This is in agreement with the theoretical
 prediction that the velocity of sound in a gas is proportional
 to the square root of the absolute temperature.