Textile Engineering Society Notes

On or before Friday, March 24, 4th nominations for officers listed below with

Governor and H. J. Smith, Chairman.

Note—Each nomination should have five signatures of members of the Society on it.

Governor Board

H. J. Smith, Chairman; Appointment by President ASME.

Vice-Chairman: Member of Class of 1923.

Chairman: Member of Class of 1923.

Treasurer: Honorary member of the Society.

Asst. Treasurer: Member of Class of 1924.

Secretary: Member of Class of 1924.

Members of Committees:

Program—Chairman; Vice-Chairman of the Society.

Junior: Member of Class of 1924.

Sophomore: Member of Class of 1925.

Membership:

Chairman: Asst. Treasurer of the Society.

Secretary: Member of Class of 1923.

Junior: Member of Class of 1924.

Sophomore: Member of Class of 1925.

“Reworked Wool”

On Tuesday afternoon the entire school assembled in the Hall to hear Mr. J. Walter Bliss of the Stark Shoddy Mill give his instructive talk on “Reworked Wool.”

The tale from which the shoddy is to be made is collected chiefly from our rag mills and includes such materials as old clothing, curtains, stockings, sweaters, etc. Carbonizable material is also obtained in the form of waste occurring during the manufacture of the woolen yarn. This material is collected and sold to the shoddy mills. Shoddy, Mass., is the center for the New England section of the country.

The raw material contains a mixture of both cotton and wool and are first subjected to the carbonization process. Carbonization consists of boiling the material in an acid solution. Due to the chemical composition of the cotton fiber, the acid does not dissolve the cotton fiber, but simply reduces the cotton fiber. The mordant is then carried out which consists of removing any cotton which has been destroyed in the acid bath. The stock is then treated with hot water which softens the fibers which have been preserved.

CALL FOR CANDIDATES

First year diploma men and second year degree men wishing to be candidates for election by the class of 1923 should see the Fine Arts Office immediately. The same men who are elected to the class of 1923 may be re-elected by the class of 1924.

MARTIN R. BRACKETT

Manager, Textile Factory

The last game of Textile’s little school this season was lost Saturday night on the home floor. Norwich University School, as usual, and there was a strong belief among the followers that our team could beat them on the local floor. Norwich had a slight edge in the first game, played at Montpelier, but the followers felt that at home they would turn the tables.

Unfortunately Ray Farrell, who has played a strong game throughout the season, was unable to perform in uniform owing to an injury received in the Roxbury College game. Ray was surely missed, but the team put up a good battle even after Farrell was forced to leave the game by injury. The team finished third in the Eastern Division and with two teams pretty well all in from the speedy kind of play.

During the interval the final part of the school boy game was played. From the School winning over Green School, 110-80.

When the second part of the big game started both teams stepped out on a fast pace and the score quickly rose until it reached 35-9. Just before the final minute Norwich tied up the score, a minute later they caged another basket, and led by two points. After that Norwich pulled quite a lot of the game and won the game by a score of 13-8. The summary is as follows:

Tuesday evening, February 28th, the Textile team played Rhode Island State in Kingston, R. I., and turned in a good account of themselves although they were defeated. The score of 30 to 18. Most of the credit for the state victory can be given to the fact that they were playing on their home court.

Linscott started a fast offensive game and by playing at top speed managed to keep in the lead until the half. Then they started some team work and spectator shooting. The speed of the game was too much for the kids, who had not after a long trip by rail, so they weakened in the second half and Rhode Island barely held them out at the finish. It was a wonderful game from start to finish.

And textile was given credit for being one of the finest teams seen on the Rhode Island floor this year.

Hodin, was with the big man for his touch scoring 14 points, but was not in "Ken" Smith’s class. "Ken" turned in 9 goals from the floor and four goals from free throws, 15 points in all. This was the story of the game, and it was a good game for both teams.

BASKETBALL SCHEDULE, 1922

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 Jan.</td>
<td>-Merrimack Normal</td>
<td>22</td>
</tr>
<tr>
<td>13 Jan.</td>
<td>-Providence College</td>
<td>51</td>
</tr>
<tr>
<td>17 Jan.</td>
<td>-N. H. State College</td>
<td>28</td>
</tr>
<tr>
<td>21 Jan.</td>
<td>-New Hampshire College</td>
<td>31</td>
</tr>
<tr>
<td>28 Jan.</td>
<td>-New Bedford Prep.</td>
<td>42</td>
</tr>
<tr>
<td>3 Feb.</td>
<td>-Boston College</td>
<td>33</td>
</tr>
<tr>
<td>9 Feb.</td>
<td>-Norwich Univer.</td>
<td>14</td>
</tr>
<tr>
<td>18 Feb.</td>
<td>-University of Va.</td>
<td>20</td>
</tr>
<tr>
<td>11 Feb.</td>
<td>-St. Michael's U.</td>
<td>20</td>
</tr>
<tr>
<td>14 Feb.</td>
<td>-New Haven Prep.</td>
<td>22</td>
</tr>
<tr>
<td>17 Feb.</td>
<td>-University of Vermont</td>
<td>22</td>
</tr>
<tr>
<td>24 Feb.</td>
<td>-Fall River Textile</td>
<td>31</td>
</tr>
<tr>
<td>22 Feb.</td>
<td>-Rhode Island State Sa. -Kingston</td>
<td>9</td>
</tr>
<tr>
<td>3 Mar.</td>
<td>-Open</td>
<td></td>
</tr>
<tr>
<td>11 Mar.</td>
<td>-Norwich University</td>
<td>16</td>
</tr>
</tbody>
</table>

The story of the Asbestos

Movies By The Johnstown-Marlville Company

Last Tuesday evening, the Story of Asbestos, a movie, was given in the Asbestos Hall by the Johnstown-Marlville Company of New Jersey. The film was presented for the benefit of the asbestos workers, and the local industrial and mill men.

The film was made last August and was first exhibited in the United States. It was a picture of the mining of asbestos, and the mining process and presented all of the machinery and the mining of asbestos articles with which we are familiar.

Asbestos is a mineral fiber, being found in narrow veins in certain parts of this country and Canada. The length of the fiber determines the length of the asbestos fiber which is mostly short as compared to wood.

At the dinner the festival is separated from the hotel and held in the evening and there is a big dinner and social at the hotel. At the end there will be a big dinner and social at the hotel.

At the end of the evening the dinner is served at the hotel and there is a big dinner and social at the hotel. Unfortunately Ray Farrell, who has played a strong game throughout the season, was unable to perform in uniform owing to an injury received in the Roxbury College game. Ray was surely missed, but the team put up a good battle even after Farrell was forced to leave the game by injury. The team finished third in the Eastern Division and with two teams pretty well all in from the speedy kind of play.

During the interval the final part of the school boy game was played. From the School winning over Green School, 110-80.

When the second part of the big game started both teams stepped out on a fast pace and the score quickly rose until it reached 35-9. Just before the final minute Norwich tied up the score, a minute later they caged another basket, and led by two points. After that Norwich pulled quite a lot of the game and won the game by a score of 13-8. The summary is as follows:

Tuesday evening, February 28th, the Textile team played Rhode Island State in Kingston, R. I., and turned in a good account of themselves although they were defeated. The score of 30 to 18. Most of the credit for the state victory can be given to the fact that they were playing on their home court.

Linscott started a fast offensive game and by playing at top speed managed to keep in the lead until the half. Then they started some team work and spectator shooting. The speed of the game was too much for the kids, who had not after a long trip by rail, so they weakened in the second half and Rhode Island barely held them out at the finish. It was a wonderful game from start to finish.

And textile was given credit for being one of the finest teams seen on the Rhode Island floor this year.

Hodin, was with the big man for his touch scoring 14 points, but was not in "Ken" Smith’s class. "Ken" turned in 9 goals from the floor and four goals from free throws, 15 points in all. This was the story of the game, and it was a good game for both teams.

BASKETBALL SCHEDULE, 1922

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 Jan.</td>
<td>-Merrimack Normal</td>
<td>22</td>
</tr>
<tr>
<td>13 Jan.</td>
<td>-Providence College</td>
<td>51</td>
</tr>
<tr>
<td>17 Jan.</td>
<td>-N. H. State College</td>
<td>28</td>
</tr>
<tr>
<td>21 Jan.</td>
<td>-New Hampshire College</td>
<td>31</td>
</tr>
<tr>
<td>28 Jan.</td>
<td>-New Bedford Prep.</td>
<td>42</td>
</tr>
<tr>
<td>3 Feb.</td>
<td>-Boston College</td>
<td>33</td>
</tr>
<tr>
<td>9 Feb.</td>
<td>-Norwich Univer.</td>
<td>14</td>
</tr>
<tr>
<td>18 Feb.</td>
<td>-University of Va.</td>
<td>20</td>
</tr>
<tr>
<td>11 Feb.</td>
<td>-St. Michael's U.</td>
<td>20</td>
</tr>
<tr>
<td>14 Feb.</td>
<td>-New Haven Prep.</td>
<td>22</td>
</tr>
<tr>
<td>17 Feb.</td>
<td>-University of Vermont</td>
<td>22</td>
</tr>
<tr>
<td>24 Feb.</td>
<td>-Fall River Textile</td>
<td>31</td>
</tr>
<tr>
<td>22 Feb.</td>
<td>-Rhode Island State Sa. -Kingston</td>
<td>9</td>
</tr>
<tr>
<td>3 Mar.</td>
<td>-Open</td>
<td></td>
</tr>
<tr>
<td>11 Mar.</td>
<td>-Norwich University</td>
<td>16</td>
</tr>
</tbody>
</table>
The Text

Editor-in-Chief
Clayton C. Wilson '22

Faculty Editor
PROF. LESTER H. WARE

Associate Editors
GROVE, 22
SMITH, 22
JAGGER, 23
WEBSTER, 23

Business Manager
DANN W. SMYTHE, 22
Circulating Manager
JAMES E. SHAKAMAN, 22

The Text is published bi-weekly throughout the college year.

Editorial

Just how valuable is Textile Graduates to the Mill Agent and what qualifications would tend to make the path to success smoother for him? The whole country is calling for more technically trained men, and article after article points out the importance of technical study and the necessity of the trained mind to men in industry. Men are needed who are trained in the scientific analysis of cause and effect——who are able to produce a desired effect with given causes; a knowledge of the result of the failure to find the cause.

Our institutions seek to produce such men and it is in such an effort that the intrinsic value of our courses lies. But it is only the foundation of this analytical and synthetic ability which is taught during our college training——the real work and study coming within the Industry itself. And it is well for the student to have some experience in business before he leaves home, but he must continue his studies——his hard work—began here under such favorable circumstances. He must not stop, but must continue his studies——his hard work—began here under such favorable circumstances.

The Text is published bi-weekly throughout the college year.

The Discovery of Electric Welding
By Alfred G. Ellis
Engineering Foundation

In 1872, Professor Eliahu Thomson declared at the Franklin Institute, Philadelphia, five lectures on electricity. The object of the lectures and the demonstrations, which later were numerous and many of them original even to the employment of special apparatus constructed by the lecturer, was to show clearly that electricity, whatever its nature, is the same, differing only in tension (or as it was termed) and in the current flowing or quantity, in steadiness or wave-like character. In those days, the textbooks divided the subject into static and dynamic electricity, with subdivisions, such as frictional electricity, voltaic, electricity, magnetic electricity, electro-magnetic, thermal electricity, and animal electricity. The workhouse furnished in coil or small coil as it was now called (as used for the ignition of automobiles), was employed to step up a battery current to a high-tension discharge which would destroy conductors, such as Leyden jars.

Having made such demonstration, the lecturer conceived the idea of reversing the process, charging some large Leyden jars by a sensitively sensitive static machine, and then arranging to pass the discharge of these large Leyden jars condenser through the fine wire, or secondary discharge, of the ignition coil. The primary of such coil (which was, of course, of heavy gauge) had its terminals disconnected and put lightly into contact. It was found on the discharge of the condenser through the fine wire that these heavy primary wires stood together perfectly. They had been welded by the process of a radically instantaneous discharge of a very heavy current.

In modern language it may be said that the existence of the highly charged coil, or the presence of the extremely high voltage and small discharge (here only a fraction of an ampere), had been transformed, that is, equal in the primary a current of only a few ams, but of great strength in impact, so that the inductance was not breaking the end of the primary coil which was connected to the point of focus, and then took place. Such an observation made by one who was viewing the process of transformation under possibilities that might have escaped notice. Not so very different.

He, at last, saw the possibility of transforming a high-voltage current into any desired voltage, and creating thereby the union of metals. By this method, in a crude way it is true, of what family became his process of electric welding. Prevented by many demands on time from carrying out this simple suggestion further, he continued to use it, and, on the inception of the business which afterwards became the large Thomas-Hermon enterprise, he discussed the possibility of proceeding with electric welding.

In 1895, the opportunity came to complete the conception of the earlier days. An alternating current generator being in operation, it was only necessary to construct an induction coil or transformer, in which the primary was of many turns adapted to the output of the generator, which the secondary had only very few turns, but the section of which was so large that a great flow of current was possible. Connected to the heavy secondary terminals was a set of clamps for holding pieces of metal to be welded. The conductors, after pregnancy of the metal bar were brought together with some pressure and the current turned on by closing the switch in the primary, then being arranged for regulating the amount of pressure, by cutting and re-adjusting the pressure, the very heavy, low-voltage current in the secondary immediately heated the metal pieces. Their junction, so that they

The Advertisers Support the Text

The Real Goodos
Gallagher's
Next at Y. M. C. A.
Don't Forget When Down Town

DRAUGHTING TOOLS
At
The Thompson Hardware Company
204 Merrimack St.

BUTTERFIELD PRINTING COMPANY
Pay Your Subscription To The Text

Union National Bank
LOWELL, MASS.

You are sure of a GOOD DINNER for 50 cents at the
Y. M. C. A. RESTAURANT
Open to the public from 6 a.m. to
8 p.m. Combined Breakfasts, Steaks, chops, etc., to order.

DICK TAILLAPERO, Mgr.

Lowell Paper Tube Corporation
Manufacturers of
TEXTILE TUBES AND PAPER CORES FOR WINNING PURPOSES

IF YOU NEED GLASSES
Let Us Examine Your Eyes
Correct Testing and Proper Fitting
J. A. McEvoy, Optician
222 Merrimack St.
The Hotel Vendome, Boston, was the scene of the annual meeting and dinner of the Alumni Association, Saturday, March 10th.

With 150 members present, the meeting was conducted in a genial and gay atmosphere as classmate met classmate and "years" of the happy days spent at L. T. S. were exchanged.

The dinner, thus far out from the finish of the semester, was made all the more pleasant by the mingling of the students from the various courses.

The banquet was addressed by Col. O. C. Mitchell and Arthur H. Underwood.

The toastmaster was Gleo G. Gay, president of the organization, who traced the progress of the textile students at this school.

The students then enjoyed the singing of an entertainment directed by Prof. E. R. Buck, who introduced the "Dad" Sullivan. Singsing in music, was directed by these classmates and the music continued all night, during which a fine singing of the classics was heard from the organ of an automobile.

The banquet was held in the post office room, and was opened by the students who were present.

The students were then entertained by the students from the various courses, and the dinner was concluded by the singing of songs by the students from the various courses.

The dinner was enjoyable and the students were all in good spirits.

The banquet was held in the post office room, and was opened by the students who were present.

The students were then entertained by the students from the various courses, and the dinner was concluded by the singing of songs by the students from the various courses.

The dinner was enjoyable and the students were all in good spirits.

The banquet was held in the post office room, and was opened by the students who were present.

The students were then entertained by the students from the various courses, and the dinner was concluded by the singing of songs by the students from the various courses.

The dinner was enjoyable and the students were all in good spirits.
FOOTBALL SCHEDULE 1922
September 30: Trinity at Hartford
October 7: Providence College at Lowell.
October 14: Tufts 2nd at Lowell.
October 22: M. I. T. at Lowell.
November 4: Colby at Lowell.
November 11: Rhode Island State at Kingston.
November 18: Open.

HOBSON & LAWLER CO.
CONTRACTORS FOR
Mill Piping
Steam and Hot Water Heating and Sanitary Plumbing
158-170 MIDDLE STREET, LOWELL, MASS.

Hamilton Woolen Company
Southbridge, Massachusetts
Established 1831
Manufacturers of Worsted Dress Goods

THE Men’s Store at CHALIFOUX’S offers special values to Textile Students

THE CHALIFOUX CO.

Champlain Studios
161 Tremont St.
Tel. Beach 2687

Class Photographer to Lowell Textile School

Special rates extended to all Students of the School

NATIONAL SILK DYEING COMPANY
5 COLT ST.
PATERSON, N. J.
SKEIN and PIECE DYERS
FINISHERS and PRINTERS
NEW YORK SALES-ROOM
102 MADISON AVE.
WORKS
PATERSON, N. J.
DUNDEE LAKE, N. J.
ALLENTOWN, PA.
WILLIAMSPORT, PA.

A. G. POLLARD CO.
The Store for Thrifty People

Spring Fine Shirt—
These made with the collar attached.
Neat stripe effects also plain white oxford cloth,
cheviet, so-sette and Fruit of the Loom cotton.
Single or double cuffs.
$1.00 to $3.00
MEN'S WEAR—STREET FLOOR