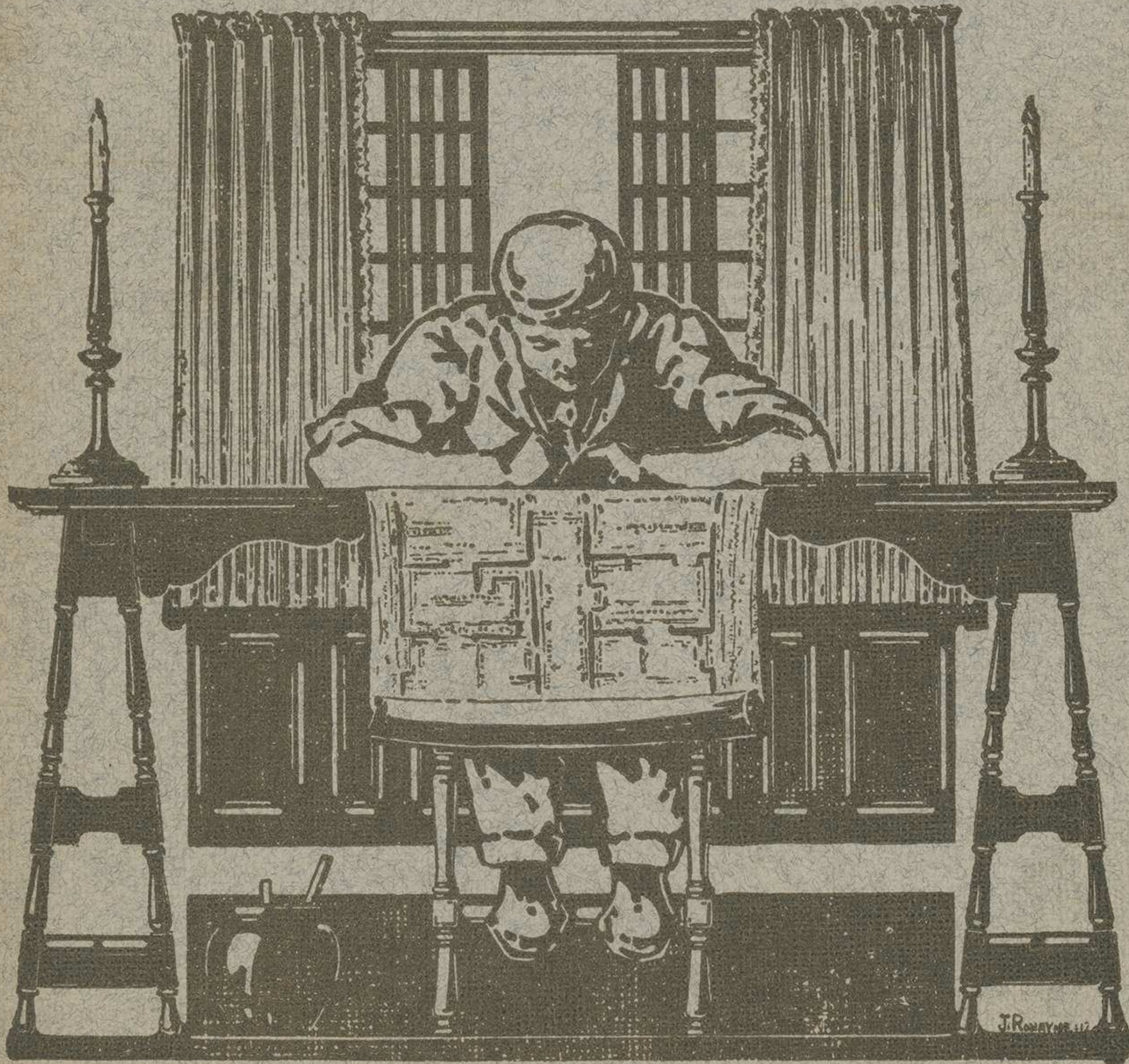
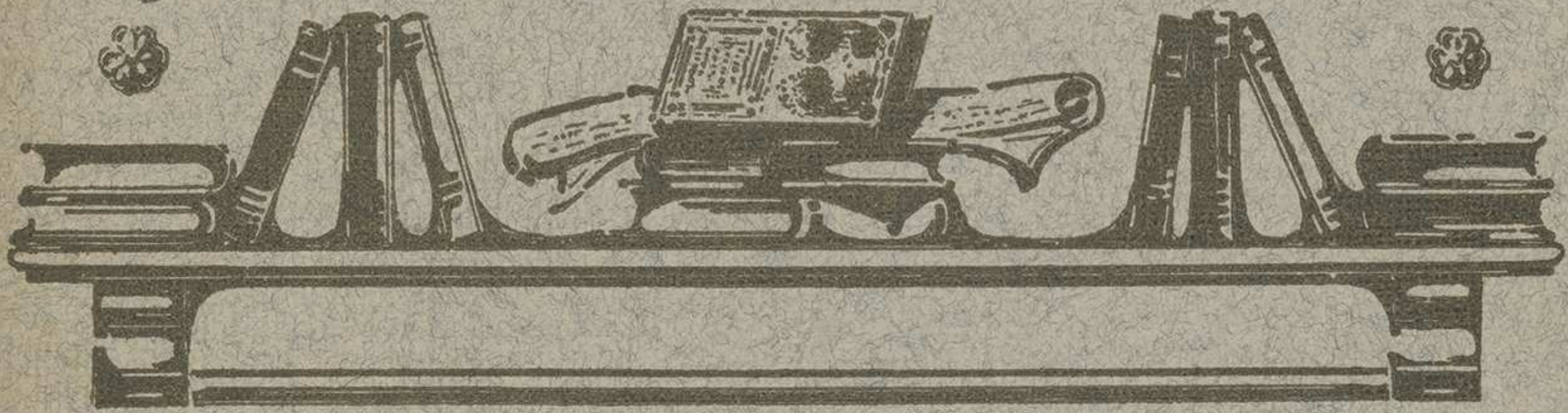


MECHANICS INSTITUTE QUARTERLY



VOLUME II

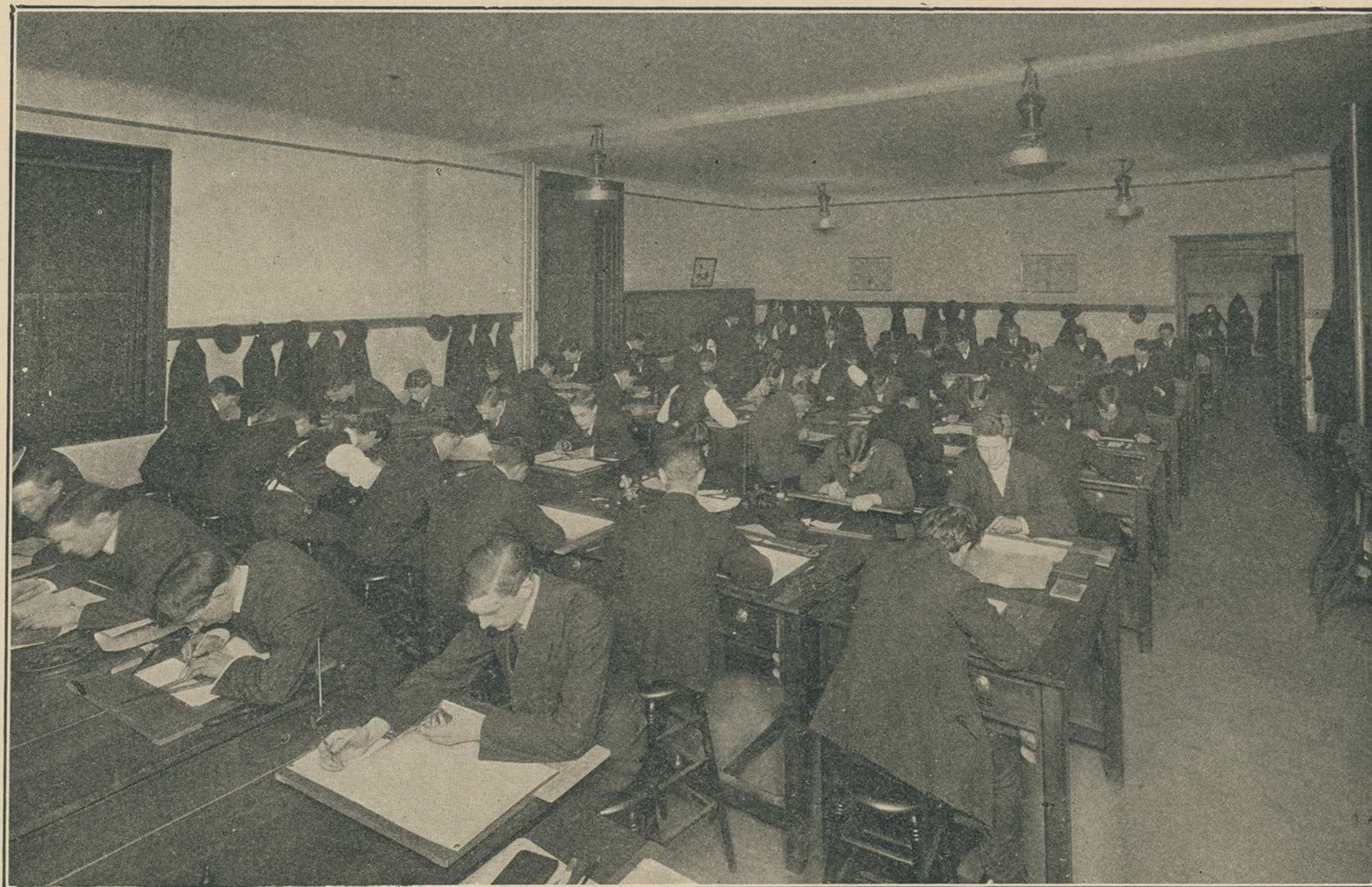
DECEMBER

NUMBER 2

1913

We learn wisdom from failure much more than from success. We often discover what will do, by finding out what will not do ; and probably he who never made a mistake never made a discovery.

—SAMUEL SMILES



CLASS IN MECHANICAL DRAFTING

Mechanics Institute Quarterly

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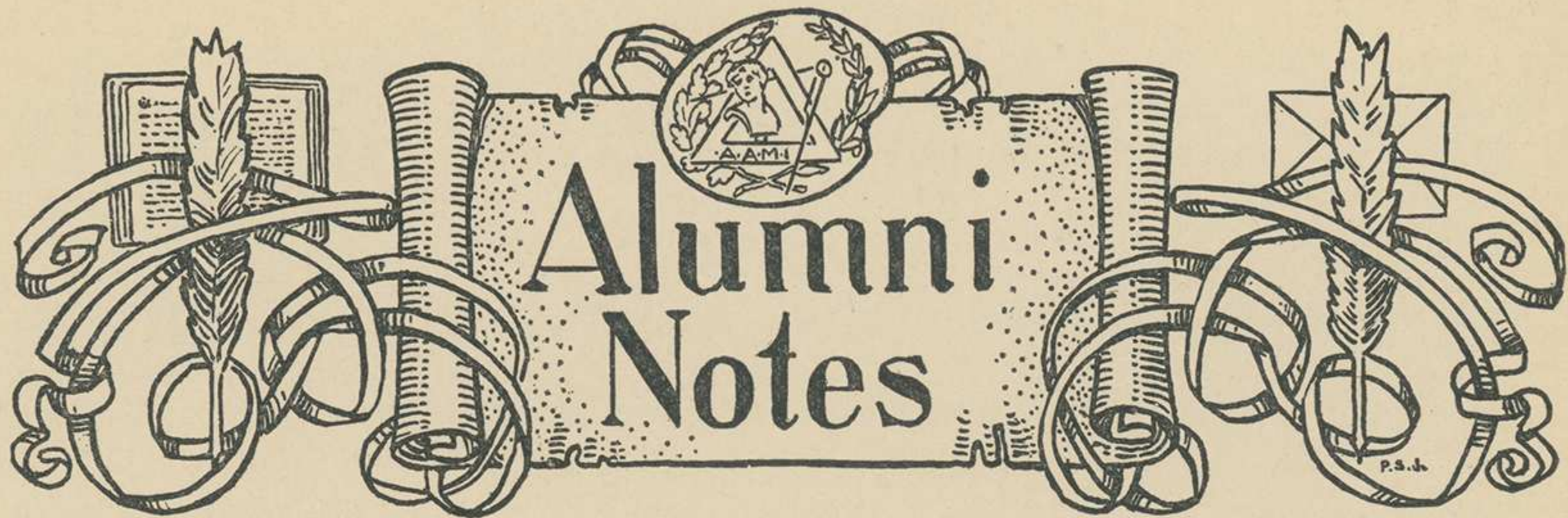
No. 2

X
THE MECHANICS INSTITUTE QUARTERLY has not received the support of the school in general that it deserves, and while the Alumni did not intend to make it a profit-making proposition, they were in hopes, at least, of getting it on a self-supporting basis.

It is now being run at a loss, and is only being continued because we feel that it is one way in which the Alumni can help the scholars and school in general, but we feel that unless the members take an interest in it, and not only subscribe to the magazine but send in contributions and good items of interest that can be published so as to increase its usefulness, that the money that we are at present spending to maintain the publication can be used for buying equip-

ment for the different classrooms, or helping the school in other ways; but we trust there will be a marked difference in the attitude of the members in the near future.

So once again, we will make a strong plea to each and every student of the Institute to give us their support, not only by subscribing to the QUARTERLY, but by sending in contributions and drawings. It is only with such coöperation that we may hope to make this publication one of interest to the student body. To those who have graduated and gone out into their various fields of usefulness, we also make an earnest appeal to send in accounts of their work and any items that may be of interest to their fellow graduates. Get busy!



MR. MILLER'S LECTURE.

One of the finest lectures that we have ever heard was delivered by Mr. Rudolph P. Miller, a member of the General Society and Superintendent of the Bureau of Buildings of the City of New York, at our October Meeting, held in the Assembly room on the mezzanine floor of the Institute Building.

The members of the graduating classes throughout the school were invited to attend and the room was filled to overflowing. Mr. Huck, our secretary, operated the stereopticon machine, and Mr. Miller's entire lecture, which was on "Fire-Proofing and Fireproof Construction As Investigated by the Bureau of Buildings," was illustrated by a series of pictures.

The educational value of this lecture was practically inestimable, inasmuch as very few of the members present had any idea of the elaborate investigations that the Building Department make into fireproof construction materials of all kinds.

Mr. Miller started in with Unprotected Iron and Steel Columns, showing photographs of various fires where this kind of construction was used, with the disastrous effects when the water was applied on the superheated column. He went on through the various modern methods of fire protecting columns used, showing photographs of the tests and statistics telling just how much weight and fire each one would stand. After that he showed the elaborately built test-houses that the Building Department

construct and in which the material men erect floors built of their particular materials. Fire is started in the building and maintained for several hours at an average temperature of about seventeen-hundred degrees. After which water is played on both the upper and under sides of the floor, and, when cool, weights are piled on top to find out just what the breaking point is.

In this way the relative values of the various fireproof floor constructions are obtained; and when building plans are submitted, can be passed upon with accurate scientific knowledge. The photographs of both the interior and exterior of several buildings of different kinds of construction that had gone through various of the large conflagrations throughout the cities of the United States were then shown. Mr. Miller pointed out the actual proofs of the tests made, when the same materials were called upon to resist the elements in actual fires. He then went on through the same elaborate explanations showing photographs of the tests made for fireproof partitions, doors, windows; and, in fact, practically all the fireproof materials that are used in the course of the construction of a modern skyscraper.

This lecture was one of the finest treats that the members of the Alumni and graduating classes of Mechanics' Institute have ever had offered them, and those who missed it have a great deal to regret. The appreciation of those present was evidenced by their enthusiastic questioning and discussion

when Mr. Miller finished; and the entire Alumni certainly join in offering Mr. Miller our sincere thanks for lecturing to us in the able manner in which he handled the subject, and we look forward to the Entertainment Committee being able to persuade him to talk to us again some time during the year.

Mr. Miller is an active member of the General Society and is at present serving as a member of the school committee. He is particularly interested in obtaining an efficient fire drill.

* * *

AN INNOVATION

Members of the editorial staff in circulating among the students in the classrooms, sounding them for criticisms on the method of conducting the QUARTERLY, have received more or less definite impressions as to how the students feel toward it. It is our earnest desire to make this publication a truly student paper, and to that end we sought this expression of opinion. The general impression seemed to be that the student was not particularly interested in description of other schools, but wanted to read newsy up-to-the-minute matter about the school itself, the graduates and undergraduates. It will be noted that this issue has dropped the series of articles on evening schools in general, and the endeavor has been made to fill its pages with the kind of reading that it appears the students want. Please let us know if this number more nearly fulfills your idea of the kind of publication this should be.

* * *

MR. FILLOT'S DEATH

At the First Regular Meeting of this Fall, held in the clubroom on Friday, September 19, the first act of our President, Mr. Wheller, after welcoming the members back, was to make an announcement of the death of Mr. A. C. Fillot, Instructor in Estimating and an Honorary Member of the Alumni Association.

Mr. Fillot's interest in the Alumni

was so great and he was so near to many of our members who have studied under him that there were quite a few of those present who spoke in glowing terms of their affection for him.

Mr. Robert Fash presented a resolution eulogizing Mr. Fillot, and this was adopted and ordered spread in full upon our minutes and a copy sent to Mrs. Fillot. The entire Alumni present at the meeting then stood in silence for three minutes as a mark of our loving respect for him. A floral tribute was sent by the Alumni to Mr. Fillot's bereaved family.

* * *

CLASS BULLETIN BOARDS

The suggestion was made and adopted at the Regular Meeting held on October 10 to have bulletin boards made and installed in every classroom throughout the school building, so that any special notices of Alumni activities could be posted on the boards and in that way every man who attends the school could be reached immediately and without any confusion.

The matter was turned over to the committee in charge and the boards will, undoubtedly, be installed before the next meeting.

* * *

GUESTS AT ANNUAL DINNER

At one of our recent meetings it was decided that, while the Board of Directors of the Alumni did not feel that they were in a position to extend invitations as guests, they would still be glad to have any of the members of the General Society or instructors of the Institute who cared to attend the Annual Dinners of the Alumni to do so.

This changed our policy of heretofore confining the sale of tickets for the Alumni Dinner to active Alumni members exclusively, the only others present being the honorary members and invited guests.

* * *

LECTURE BY MR. FRANK MOSS

The Lecture Committee take great pleasure in announcing that they have

arranged to have the Honorable Frank Moss, Assistant District-Attorney of New York City, as the speaker of the evening at our Regular November Meeting.

It is certainly most gratifying to know that our Committee are able to get such men as Mr. Moss and Mr. Miller to come to the Alumni Association Meetings and speak to our members on subjects that are so vitally interesting to us all.

Until further notice there is a standing invitation for the members of the graduating classes in all the courses of the Mechanics' Institute to attend these lectures, and the announcement of the date on which they are to be held will be posted on the bulletin boards in their respective classrooms, and we trust that they will take advantage of the opportunities given them of hearing the various speakers that the Lecture Committee arrange to have with us at our meetings.

* * *

LECTURE ON ARCHITECTURE

The Lecture Committee had made arrangements for Mr. Parker to speak to us on "Orders of Architecture," but it being the first meeting of the season there was some delay in getting started and a slight misunderstanding as to the day, and at Mr. Parker's suggestion this lecture was put over until some time later in the season when we can have the large assembly room and the use of the stereopticon machine, so that Mr. Parker will be able to show some of the various slides that he has in conjunction with his lecture.

* * *

ONE LESS BACHELOR

We were all very gratified to hear that Mr. Parker has become a benedict.

The wedding took place at Saint Thomas's Church, Fifth Avenue and Fifty-third Street, New York City, on Wednesday, October 15th, at five o'clock, when Mr. Edward Thomas

Parker took for his bride Miss Grace Harrison, daughter of Mrs. Benjamin Thomas Harrison.

And this is what our reporter handed in anent the event:

Wednesday, October 15th, ushered in a beautiful, clear day with just enough touch of the crisp, invigorating fall air to make you feel like living, and we trust that the weather on this, Edward Thomas Parker's wedding day, will be symbolic of the future life and happiness of both himself and his bride.

As with everything that Mr. Parker puts his hand to or gets mixed up with, the arrangements were the acme of perfection. Promptly at five o'clock the wedding march struck up and the first bridesmaid started from the rear of St. Thomas's Church toward the altar, and at the same time Mr. Parker and his best man took their appointed places in front of the minister.

Talk about your happy faces! Well! Now, we have all seen Brother Parker smile, in fact, he doesn't seem to do much else, but on this afternoon when Miss Grace started down the aisle, he was actually beaming. After the ceremony while marching up the aisle they both bowed and smiled to right and left at their various friends who filled to overflowing that part of the church set aside for the wedding.

On returning from their honeymoon Mr. and Mrs. Parker will take up their residence at the Deerborn Apartments, 350 West 55th Street, and he will there bask in the *deer born* love and respect of Grace and the good wishes of the Alumni Association.

* * *

ANOTHER SUCCESSFUL ALUMNUS

They say that there is no such thing as keeping a good man down, and this seems to apply to Mechanics' Institute Alumni members in particular. The suggestion of this fact was brought to mind by a report just received that Mr. Otto W. Kritz, our brother alumnus (of course, that was super-

fluous, inasmuch as every active Alumni member knows Kritz), has received by special appointment from the United States Government the position of Assistant Architect of Government Work at the Panama Canal.

Good boy, Otto, and may you come back from the Canal with glowing tales of your conquests and photographs of the structures that were the children of your brain.

* * *

FIFTH ANNUAL DANCE

The Fifth Annual Alumni Dance was held at Leslie Hall, Broadway & 83d Street, on Saturday evening, November 1st, and the committee was more than gratified with the number of members and their friends who turned out.

The music was by Professor Joseph Dinhuft, and the dance arrangements were very well laid out. Early on the order there appeared a "Dan Tucker," which was entered into and enjoyed by all and was very well arranged and led by Mr. Jack Crofts, who was floor manager, with the help of his assistants, Mr. J. R. Walter and Mr. Joseph Huck, our good old stand-bys. The absence of pillars in the center of the floor, such as we have had to contend with at our previous dances, was a very welcome change and the floor itself was in fine condition.

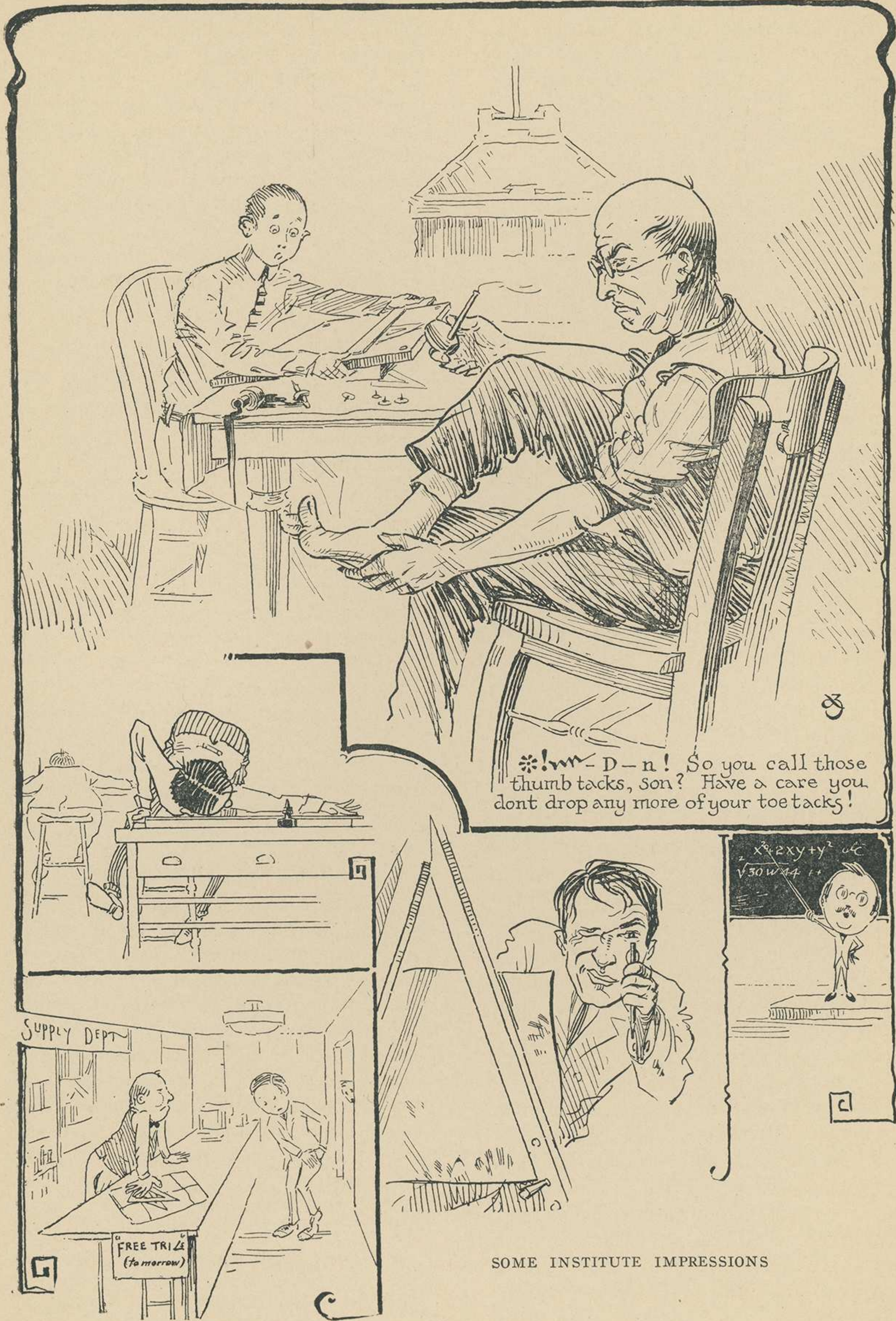
In addition to the stage on which the musicians held forth, there was a balcony at the rear of the hall where light refreshments were served and which was very convenient for the dancers to make use of during the intermissions. We think that the entrance to the hall was an improvement on where we have been heretofore, and the Arrangement Committee, Messrs. P. O. Smith, J. R. Walter and A. Davies, personally deserve a great deal of credit for the way in which the entire affair was handled.

Mr. Smith in giving an approximate financial report on the Dance states that there were about one-hundred and five couples present and that the

expenses of the affair will be approximately five or six dollars less than the receipts. In making this report he, in his inimitable, satirical way, suggests that this stupendous sum be turned over to the General Society to start another school, but, aside from this, inasmuch as these affairs are not run as money-making propositions but simply with a desire to bring the members of the Alumni and their friends into closer social relationship, what we have over or under the expenses of the affair does not matter to any great extent, our only desire being to cover our expenses as near as possible, the general good fellowship created among the members being the especial aim of the committee, and if there were any present who did not enjoy themselves to the fullest it certainly must have been because they were not feeling fit that evening, for everything was done to make them perfectly at home.

One of the most gratifying features of our Annual Dances are the number of members who make up parties among their own friends, giving them an opportunity of having a pleasant evening with the people with whom they are accustomed to associate under the most congenial conditions. For several years past our Brother Tom Thorpe has held the palm as to the number in his party; he almost always having more than a dozen. He had fully that many in his party this year; but several that he had expected to come were unable to get there at the last minute, while our McIntyre members, "The Three Twins," were there, that is two of the brothers were, and they had a party of seventeen, so we will have to give them the palm this year. We want to congratulate them on their turnout and trust that a great many of the other members will endeavor to surpass them in the size of their own parties next year.

We vote the affair an entire success with the approval, we know, of every member of the Alumni who attended the Dance, and we hope we can add the votes of their friends, too.



SOME INSTITUTE IMPRESSIONS

Drawn by A. E. Zipprich

CLASS OFFICERS.

In an additional endeavor to keep in close touch with the scholars of the various classes, it was decided to enlist the services of the instructors to have each class hold a meeting and elect a president and secretary, as was done toward the end of the last school year. It will be their duty to represent the members of their class, and the secretaries to see that any items of interest that crop up in the classroom, either about the work in general or the men in particular, are sent to the editors of the QUARTERLY so that they can be published and thereby kept on permanent record, and it will also help make the magazine of more particular interest to the members of the school.

* * *

YOUR AID WANTED

Mr. P. O. Smith (our good old P. O.), Circulation Manager of the QUARTERLY, with the aid of several of the members, have been making a class-to-class canvass of the school in an endeavor to increase our subscription list, and the great number of copies they have sold and subscriptions obtained is most gratifying. It is certainly a great encouragement to the Alumni and leads us to believe that eventually the student body will grasp the possibilities of a school paper of this kind and take advantage of the privilege that is offered them to use its columns to express their ideas to not only their own but the benefit of the entire school. We would welcome contributions and criticisms either adverse or in favor of anything that the Alumni either do or publish.

Now, let us see whether *you* have enough red blood in *your* veins to compel you to sit down and write a hundred words to the Editor of the QUARTERLY expressing your idea of either some improvements that might be installed or present methods changed for its betterment.

WHERE TO BUY THE QUARTERLY

All issues of the QUARTERLY are now on sale in the supply room by Mr. Joseph Huck, our secretary, who, we are very glad to note here, received the appointment this year to take charge of the supply room, which is maintained for the selling of supplies to the students at wholesale cost prices.

* * *

ANNUAL ELECTION

Nominations for officers for the ensuing year will be made at the Regular November Meeting, and we are looking for a good deal of competition, particularly on behalf of the new men putting up candidates for the various positions of honor that the Alumni has to offer its members, and these will be voted upon at the December Meeting so that our 1914 officers will be installed at the January Meeting and started on their labor of love for their Alma Mater and instructed in their duties at that time, and we trust that they will make as great a success of their opportunities as those who have preceded them within the last few years; for our Association has certainly made wonderful strides since the adoption of our new constitution four or five years back.

* * *

THE NEW HUCKSTER

It surely is a pleasant thing to observe Joe Huck's genial smile radiating upon us over the counter of the supply room. Brother Huck's appointment to the position of supply clerk is a fortunate one for the Alumni Association, for he affords a point of contact always available between the undergraduate and the Alumni Association. He is always glad to answer any questions relative to the Alumni Association, and to "put wise" any prospective candidate.

* * *

LETTERS FROM ALUMNI

The director's request to graduates, that they write to him from time to time, keeping him posted as to their

work and progress, brings interesting letters to this office. The following from Mr. Manning E. Rupp, Mechanical Drafting '07, is full of the right spirit, and shows an efficient and successful young engineer on the firing line. Mr. Rupp is a member of the American Society of Mechanical Engineers.

Dear Mr. Rouillion: A great many things have happened since I wrote you last, and the happenings have kept me busy.

July first I joined _____ as Efficiency Engineer, and went to _____ to systematize the Machine Company building motor cycle brakes and hubs, and the Knitting Mills, ladies underwear. Got the routing, time study, planning and cost systems pretty well under way, and a month ago I came to _____ at the _____ Company, making Saw Mill Machinery. They have a good-sized iron foundry and machine shop, but a poor class of mechanics, and wages in proportion. Systematizing the entire plant, reorganizing the personelle and collecting data to install a bonus system of payment as soon as possible to attract a better grade of help, or get the best out of the men we have. I have a perpetual inventory already in operation, and the cost system practically completed. The work keeps me at the plant ten hours a day, and the heavy headwork I have to get in between times somehow. In a short time I am headed for _____ City Iron Works, Boilers and Engines, and after getting work started there, will spend a week at _____ and _____ alternately, until our services are no longer needed.

It's a great game and very interesting, but the wear and tear physically is enormous. Living in a trunk and hopping about from place to place, together with the quick results one must show to keep clients satisfied, is not conducive to the best of health. Under the circumstances, I haven't fully decided whether or not I will continue at this work. At any rate,

I'll finish up the _____ and _____ contracts, and if this constant shifting about doesn't tell too much on Mrs. Rupp's health, I may continue for a while after that.

With kind regards from

M. E. RUPP.

* * *

The following interesting letter recently received by the director from one of the graduates in free-hand drawing carries a gratifying note of success and appreciation:

G. C. HESSELGREN ALFRED POLLOCK
NEW YORK PUBLISHING

AND
ADVERTISING CO.

284 PEARL STREET
NEW YORK, N. Y.,

October 22, 1913.

MR. LOUIS ROUILLION.

Dear Sir: Your kindness in procuring for me one of your students to fill a vacancy in my office is greatly appreciated and I thank you.

Undoubtedly it will be of interest to you to know that I am a graduate of the Mechanics Institute of class '03, receiving during the three years course of free hand, all the necessary instruction to start a career of practical art.

Not being born a Michael Angelo or Millet, and knowing it at the time, I found for myself a specialty that combined both business and artistic qualities. Without the Mechanics liberal foundation this would have been practically impossible.

I feel ever grateful to your institution and its founders, and endeavor whenever I meet with a young man possessing some talent to direct him to your institution, where with perseverance and steady attendance he is bound to be as successful in life as myself and others that graduated with me.

Very gratefully yours,
G. C. HESSELGREN.

* * *

PRIZE WINNERS.

The following named students were prize winners at the close of the last

school term. The prizes consist of a paid up membership in the Alumni Association and a member's badge.

ARCHITECTURAL DRAFTING

John Howard Clark,
Anthony Joseph De Pace,
Marshall Robert Gallimore,
Fred Henry Vocke.

MECHANICAL DRAFTING

Andrew Kennedy,
Vernon Cano.

FREE-HAND DRAWING

August Christian Arp.

DECORATIVE DESIGN

Henry Sleik.

CARRIAGE AND AUTOMOBILE DRAFTING

Charles Augustus Gerry.

MODELING

Anthony Joseph Terrizzi.

* * *

LIBRARY

It will be noted that each month the QUARTERLY publishes a complete list of all the standard works added to the library between the dates of publication. This is offered as a ready reference list of the latest books having possible interest to the student in his work. Because of the small number of new standard books added since the last issue of the QUARTERLY, the list is omitted in this issue. In order to make the list of even greater value to the student, it is proposed in the next number of the QUARTERLY, to give a detailed list of the best books in each subject taught in the school, *e. g.*, there will be a list of the standard books on mechanical drafting and its various subdivisions; upon architectural drafting, free-hand drawing, decorative design, physics and general science, and mathematics.

Attention is again called to the fact that the director will be very glad to endorse the library applications of

students of the Institute. Blank application cards may be had either at the library or the director's office. There is no red tape about the matter. It merely requires a filling in of the name and address, and having the card endorsed by the director. A great many students avail themselves of this privilege, but there are a great many more who do not and should.

* * *

1913-1914 ENROLLMENT

The total class enrollment of students in the various subjects offered at the Institute is made up annually on the first day of November. For the current school year (1913-1914) the enrollment by subject is as follows:

1st year Architectural Drafting.....	362
2d year Architectural Drafting.....	217
3d year Architectural Drafting.....	131
1st year Estimating for Builders....	131
2d year Estimating for Builders.....	63
1st year Mechanical Drafting.....	225
2d year Mechanical Drafting.....	84
3d year Mechanical Drafting.....	53
Sheet Metal Drafting.....	34
Carriage and Automobile Drafting..	43
1st year Antique Class.....	121
2d year Antique Class.....	76
Life Class	56
1st year Decorative Design Class....	41
2d year Decorative Design Class....	33
Modeling	66
Arithmetic	90
Algebra and Geometry.....	127
Workshop Mathematics	65
Applied Mechanics	51
Physics	107
Industrial Electricity	55
Total	2,235

* * *

CLASS ELECTION

At an election of the graduation class in Mechanical Drafting, held in room 504 on the evening of October 24th, the following officers were elected:

JAMES A. DONAHUE, *President.*
EDWARD MEURER, *Vice-President.*
MAYNARD B. AGNEW, *Treasurer.*
WALLACE FULTON, *Secretary.*
EDWARD MILES, *Sergeant-at-Arms.*



DEPARTMENTAL NEWS

It is with deep regret that we announce the resignation of Dr. Charles Forbes, instructor in physics since 1903. It will be recalled that two years ago he was under the painful necessity of undergoing an operation at St. Luke's Hospital in this city. During September of this year, he was making his final preparations to return to this city and take up his work at this Institute. On his way from a town in northern New York, where he spent his vacation, he stopped off at Rochester to have a medical examination as to his physical condition. The result of this examination was that another operation seemed necessary. At the present time he is at the Rochester General Hospital, preparing to undergo the operation. His letters to the Institute are cheery and optimistic. It is the sincere hope of every one connected with the Institute, that the Doctor will go through this ordeal successfully, and have many years more of useful work before him.

* * *

We have still another regrettable case of illness, necessitating a resignation. Mr. George W. Kittredge, instructor in sheet metal drafting, has not been feeling well for some time, and about the middle of October he became seriously ill, requiring that he not only give up his work at the Institute, but also his duties as editor of *Sheet Metal*. We extend to him our best wishes for his speedy recovery.

* * *

Mr. August Fillot, who was the pioneer teacher of estimating in build-

ing trades in this country, died on September 11th, after a short illness. Mr. Fillot had particularly endeared himself to his students, to his co-workers on the instructing staff, and to all who came within the influence of his unique and delightful personality. An embossed memorial, expressive of respect and admiration in which Mr. Fillot was held by them, was forwarded to the family by the faculty of the school. The Alumni Association sent a beautiful wreath of flowers on the occasion of the funeral, as did also the instructors.

* * *

Mr. Fillot's place on the instructing staff has been taken by Mr. Joseph C. Knowles, who comes to the work with an exceptional equipment for its efficient carrying on. Mr. Knowles is a specialist in estimating, with offices at 35 Nassau Street.

* * *

Dr. Forbes's successor in the class of physics is Mr. Julian C. Hines, Jr. Mr. Hines conducts the class in physics at the William L. Dickinson High School, Jersey City.

* * *

We have to report the name of one other new face among the teachers, Mr. Edmund C. Cook, who has the Tuesday and Thursday class in algebra and geometry, room 404. This class is an additional one, established for the first time this fall. Mr. Cook teaches the same subjects at the College of the City of New York during the day time.

Mr. Malcolm Booth, instructor in algebra and geometry, was granted a leave of absence for the month of October, to start a branch of the Booth School of this city, in New Haven, Conn. Best wishes for the success of his venture go with him from his students and co-workers.

* * *

Mr. Charles Rehbein, instructor in mechanical drawing, was recently appointed to a similar position at the Baron de Hirsch Trade School of this city. Mr. Rehbein has had an exceptional training to fit him for his new duties. He is a graduate of the course in machine design at Pratt Institute, a course which probably affords the most complete training in mechanical drafting of any course given in this country. Since his graduation, he has held responsible positions in some of the large drafting rooms of this city. He has proven himself to be an enthusiastic and able teacher for the many years he has been connected with the Mechanics Institute, and he will undoubtedly have a successful career in his new field of endeavor.

* * *

The director of the Institute, in looking over some of the early annual reports of Cooper Union of this city, found in the first one of these reports, that the class of mechanical drawing, which started on November 2, 1859, was in charge of Mr. Thomas D. Stetson. The interesting fact in connection with this is that Mr. Stetson is to-day an active member of the General Society, and attends its meetings with commendable regularity. His patriarchal figure may often be observed strolling through the class rooms. Mr. Stetson is still interested in his old subject, and delights to see how the boys of to-day handle it.

* * *

The drawing on page 9 was made by Mr. Anthony E. Zipprich, the faculty representative on the QUARTERLY staff.

At the present time there is a widespread demand throughout the country for industrial and vocational training in our public schools. At least one half dozen states have enacted legislation for the purpose of furthering education in agricultural and mechanical pursuits. Last year a bill, framed to give federal aid to this form of education, passed the United States Senate. Through a conflict with a somewhat similar bill introduced in the house in which emphasis was laid upon agricultural training, legislation was halted for the time being. However, as the present administration is pledged by its platform to enact legislation for the furtherance of industrial education, the probability is that some such legislation will be upon the statute books before the close of the Wilson administration.

While numerous private institutions have carried on such instruction for many years, its broad introduction into the public school system will necessitate a large body of trained and efficient teachers. On the trade side this demand will afford an opportunity for men now employed in the trades to enter the teaching profession. Upon the bulletin board of the institute there was placed recently a notice of a course for the training of teachers for industrial education, started at Pratt Institute this fall. The demand for admittance to the course was so great, that all who applied could not be accommodated. Undoubtedly some similar opportunities will be afforded by other schools in the near future. Attention is here called to the fact, that the Mechanics Institute offers in itself a good preparation for such work. Assuming that the student is a good journeyman and thoroughly understands his trade, he acquires at the Institute a knowledge of allied school subjects, such as are required for an intelligent teacher in industrial education. To take a single example of one of our students, who has been most successful in this line, Mr. Frederick M. Dannenfelser, Class Mechanical Drafting '09. He is teaching

at Hackley Manual Training School, Muskegon, Michigan.

If any of the students of the Institute are interested in the possibilities afforded by this new field, the director will be glad to go over the whole subject with them, and aid them in any way to further their ambition to become teachers.

* * *

The National Society for the Promotion of Industrial Education held its annual convention at Grand Rapids, Michigan, on October 22d-25th. Mr. Charles W. Hoffman, an ex-president of the General Society of Mechanics and Tradesmen, and the director of the Institute, were appointed delegates to represent the Society at the convention. The meeting was a most enthusiastic one and emphasized the country-wide interest in industrial education, particularly the law-enacting side. Mr. William C. Redfield, a member of President Wilson's cabinet, and President of the Society, presided, and one of the most forcible speeches at the convention was made by the Governor of Michigan. It is an interesting fact that both the Governor and the President of the United States were former school teachers.

* * *

For the information of the students attending the Institute for the first time this year, the following is reprinted from the initial number of the QUARTERLY. It is hoped that many students will avail themselves of some of the opportunities outlined below:

Dr. Nicholas Murray Butler once remarked that the students of Columbia University were attending two great universities simultaneously; the institution in which they had matriculated, and the greater institution, the wonderful metropolis in which they resided. Few realize the educational facilities afforded by residence in a great city like New York. There is a constant, generally unconscious education derived by daily contact with the life of a large city. But in addi-

tion to this, there exist numerous organized efforts for general education along specific lines that are not always utilized by the student. We would call attention to a few of these which make a direct appeal to the students of the Mechanics Institute.

To the students in the art classes the Metropolitan Museum of Art in Central Park, should be a source of inspiration. No more beneficial way to employ their Sunday afternoons can be found than by strolling through the rich collections of art offered for their inspection and education. The student in the decorative design class will find much of interest in the line of applied art; the student in the modeling class will find originals or replicas of the world's best in the plastic arts, and the students in the free-hand drawing and life classes will find a collection of paintings, the contemplation of which should prove a delight and an inspiration. In addition to the Metropolitan Museum of Art, there are numerous exhibitions of pictures held during the winter months, notably that of the National Academy of Design on W. Fifty-seventh Street. There are certain days of the week, generally including Sunday, upon which no charge for admission is made. The Brooklyn Institute, near the entrance to Prospect Park, has a fine art collection which is open gratis to the public on Sundays. One of the permanent exhibits at the Brooklyn Institute is a painting by one of the instructors of the Mechanics Institute, Mr. Paul Cornoyer, N.A.

To the student in architectural drafting the city is rich in fine examples of the architects' art. To the student in mechanical drafting, machine design and science, there is very much of vital interest afforded by visits to the huge power plants of the Edison and street railways companies, and the numerous manufacturing establishments. Little use is made of the opportunities afforded by the museums of the large educational institutions like Columbia University. For

example, a student in machine design will find in the Mechanical Engineering Museum at Columbia University, models of many intricate movements that cannot but prove of deep interest to him, and of direct educational value.

In addition to these specific examples, there are many opportunities afforded for the acquisition of general knowledge, not the least of which is the admirable list of public lectures under the auspices of the Board of Education. These lectures include subjects of direct interest to students in practically all the courses given at the Mechanics Institute. The subjects of the lectures appear daily in the newspapers during the lecture season.

There is a constant feast for the lover of music. Space permits of calling attention to but one of the numerous musical treats afforded; the organ recitals given by Prof. Baldwin at the College of the City of New York on Wednesday and Sunday afternoons at four o'clock. It is a goodly sight to enter the huge auditorium of the College, on the afternoon of a recital, and see the room crowded with a deeply appreciative audience listening with closest attention to the masterful rendition of the world's masterpieces.

We trust that this brief sketch of a few of the educational opportunities afforded by residence in this city will stimulate many of the students of the Mechanics Institute to acquaint themselves with these opportunities and avail themselves of them.

* * *

The following is a list of graduates who have joined the Alumni Association during the current year, together with their last known address. If any address is incorrectly given, it is requested that the student send his correct address to Mr. Joseph Huck, the Secretary of the Alumni Association, and keep him posted from time to time of any change of address.

Frank H. Alessi, 424 Eleventh Avenue, Astoria, L. I.

August C. Arp, 285 Armstrong Avenue, Greenville, N. J.

Nicholas F. Bader, 640 Van Nest Avenue, Van Nest, N. Y.

Emile Bagnoli, 221 Summit Avenue, West Hoboken, N. J.

William J. Bain, 429 East 156th Street, New York City.

E. J. Beyer, 442 West 124th Street, New York City.

Joseph A. Bodnar, 233 East 77th Street, New York City.

Theo. A. Brossard, Jr., 509 6th Street, College Point, L. I.

Clarkson U. Bundick, 2104 Vyse Avenue, Bronx.

James W. Byrne, 350 Manhattan Avenue, New York City.

Vernon Cano, 413 East 178th Street, Bronx.

Emil Cascko, 244 Stagg Street, Brooklyn, N. Y.

John Howard Clark, 187 Bowne Avenue, Flushing, L. I.

William H. Couch, 350 Jamaica Avenue, Astoria.

Thomas F. Curran, 840 Crescent Street, Astoria.

Ferdinand A. Dahlem, 341 East 142d Street, New York City.

John J. Daly, Little Neck, L. I.

Anthony J. De Pace, 723 East 212th Street, New York City.

William E. Doorley, 1793 Amsterdam Avenue, New York City.

Charles Finkernagle, 317 East 90th Street, New York City.

George J. Fischer, 869 Hart Street, Brooklyn, N. Y.

John Foersch, 49 North Tenth Avenue, Mount Vernon, N. Y.

Henry Forman, 519 Fulton Street, Town of Union, N. J.

James F. Fowler, 533 East 149th Street, New York City.

Max Freund, 119 East 122d Street, New York City.

Jacob Friedberg, 630 East 170th Street, Bronx.

Marshall R. Gallimore, 329 East 197th Street, New York City.

Christian Gay, 14 Richard Avenue, Glendale, N. Y.

Charles A. Gerry, 232 West 120th Street, New York City.

Fred W. Gilde, 1869 De Kalb Avenue, Brooklyn, N. Y.

Arthur Glasner, 107 Berkeley Place, Brooklyn, N. Y.

Harry Glasner, 107 Berkeley Place, Brooklyn, N. Y.
 Geo. W. Godfrey, 167 St. Ann's Avenue, Bronx.
 Irving H. Gomberg, 714 East 181st Street, Bronx.
 Alexander Gray, 442 West 58th Street, New York City.
 William A. Gray, 64 West 93d Street, New York City.
 Sam Greenberg, 218 East 115th Street, New York City.
 Joseph L. Guizzetti, 497 Lexington Avenue, New York City.
 Vincent M. Hackett, 920 Summit Avenue, Jersey City Heights, N. J.
 Andrew G. Hagstrom, 121 6th Avenue, Brooklyn, N. Y.
 Raymond G. Hanna, 915 61st Street, Brooklyn, N. Y.
 Joseph W. Harscar, 1216 74th Street, Brooklyn, N. Y.
 Joseph J. Huhn, 321 Ninth Avenue, Long Island City.
 J. A. Hullihan, 47 Perry Street, New York City.
 Louis A. Jecs, 345 East 65th Street, New York City.
 Eugene G. Johnson, 2 North Street, Port Richmond, S. I.
 John A. Johnson, 1685 Third Avenue, New York City.
 George Johnston, Jr., 3108 Third Avenue, New York City.
 William Jordan, 16 42d Street, Corona, L. I.
 John Kakerbeck, 324 East 57th Street, New York City.
 Andrew Kennedy, 260 West 128th Street, New York City.
 Henry W. Kersting, 228 West 126th Street, New York City.
 William C. Kober, 832 Crescent Street, Astoria, L. I.
 Henry Kohan, 67 Second Street, New York City.
 Charles Kühner, Lafayette Avenue and Faile Street, Bronx.
 J. W. Künstler, 1486 First Avenue, New York City.
 William G. Kyle, 339 West 48th Street, New York City.
 Frank Leimer, 145 Sullivan Street, New York City.
 Michael F. Lepine, 21 South 14th Street, College Point, L. I.
 Gustave Lilliedahl, 1522 Commonwealth Avenue, New York City.
 Anthony Lella, 217 East 22d Street, New York City.
 James Walter Ligon, 498 West 159th Street, New York City.

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 Edward C. McBrien, 73 Morton Street, New York City.
 James C. McCallum, 21 North High Street, Mt. Vernon, N. Y.
 Charles McConnell, 1488 Amsterdam Avenue, New York City.
 William E. McGann, 150 Vermilye Avenue, New York City.
 E. E. McGuire, 501 West 172d Street, New York City.
 James McInerney, 794 Westchester Avenue, Bronx.
 J. Charles McLean, 282 James Street, Hackensack, N. J.
 Edward A. Maltby, 318 West 57th Street, New York City.
 Charles Martens, 447 West 48th Street, New York City.
 Lewis Mayor, 154 West 128th Street, New York City.
 Chas. S. Mehrlust, 1448 Fifth Avenue, New York City.
 Robert J. Merritt, 309 East 33d Street, New York City.
 Fred G. Meyer, 82 Second Avenue, New York City.
 Clement I. Milliken, 172 East 90th Street, New York City.
 Percy E. Nicholl, 149 East 84th Street, New York City.
 Emmett O'Hare, 731 Amsterdam Avenue, New York City.
 Herbert E. Olsen, 906 Willow Avenue, Newark, N. J.
 George T. Parker, 138 Ogden Avenue, Jersey City, N. J.
 Walter Peter, 517 Shippen Street, West Hoboken, N. J.
 Edward C. Rasp, 59 East 130th Street, New York City.
 Fred O. Riedel, 29 New York Avenue, Union Hill, N. J.
 James A. Rhys, 145 Webster Avenue, New York City.
 Daniel W. Riley, 418 East 138th Street, New York City.
 Geo. M. Rittenhouse, 392 2d Avenue, Astoria, L. I.
 William H. Ross, 49 Riverside Avenue, Red Bank, N. J.
 John F. Russell, 87 Clermont Avenue, New York City.
 John H. Ryan, 907 East 156th Street, Bronx.
 Henry A. Schmidt, 1327 Southern Boulevard, New York City.
 H. W. Sherwood, Eastchester Road, Westchester, New York City.

Henry C. Sleik, 355 East 82d Street, New York City.

Leopold J. Smith, 529 West 152d Street, New York City.

Louis Spielman, 65 East 233d Street, New York City.

Herman Spinken, 61 Hoffman Boulevard, Elmhurst, L. I.

Walter C. Spreng, 523 Hudson Street, New York City.

George Stejskal, 363 East 69th Street, New York City.

Harry J. Stellmann, 127 Franklin Avenue, Brooklyn, N. Y.

John M. Stevens, Rockland Lake, N. Y.

Charles Stockton, 58 Jamaica Avenue, Astoria, L. I.

Ed. Stuhl Müller, Jr., 185 East 93d Street, New York City.

Theo. A. Suter, 44 Prospect Place, Brooklyn, N. Y.

Anthony J. Terrizzi, 302 East 154th Street, New York City.

Albert Ulrich, 1673 Third Avenue, New York City.

Fred H. Vocke, 205 Mt. Hope Pl., Bronx.

Michael J. Walsh, 439 West 46th Street, New York City.

Berthold Werner, 443 East 142d Street, Bronx.

Christopher J. White, 8 St. Nicholas Terrace, New York City.

Joseph W. Wilson, 48 Highland Terrace, Weehawken, N. J.

Chas. J. Winchester, 48 Bedford Street, New York City.

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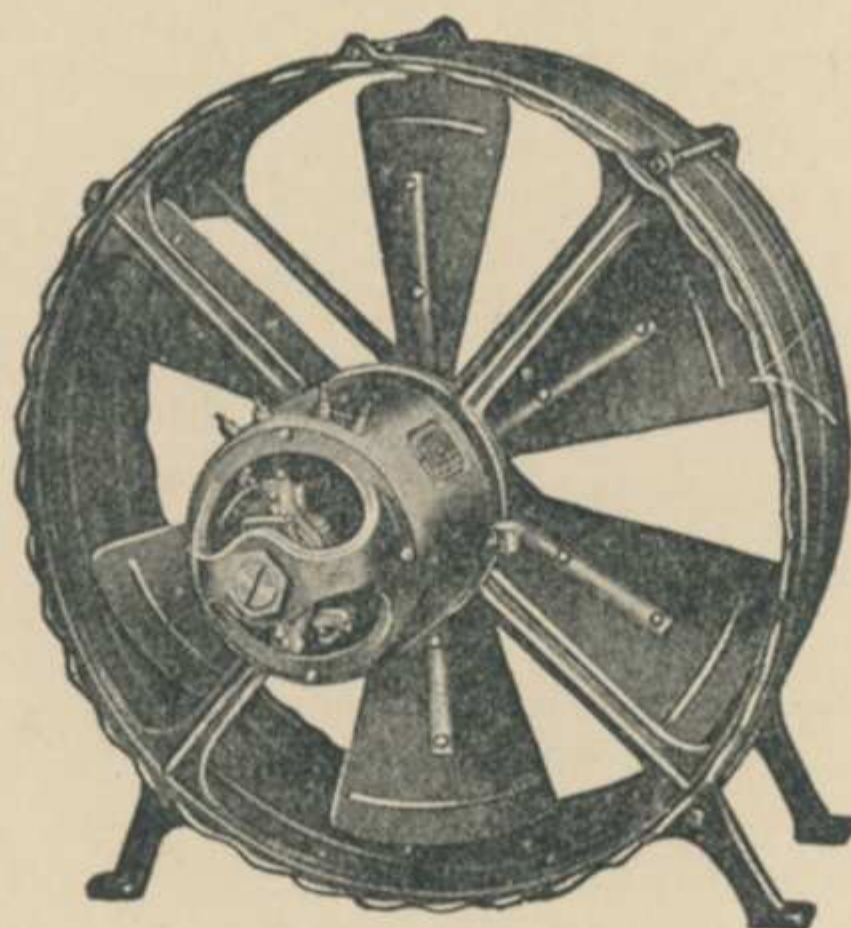
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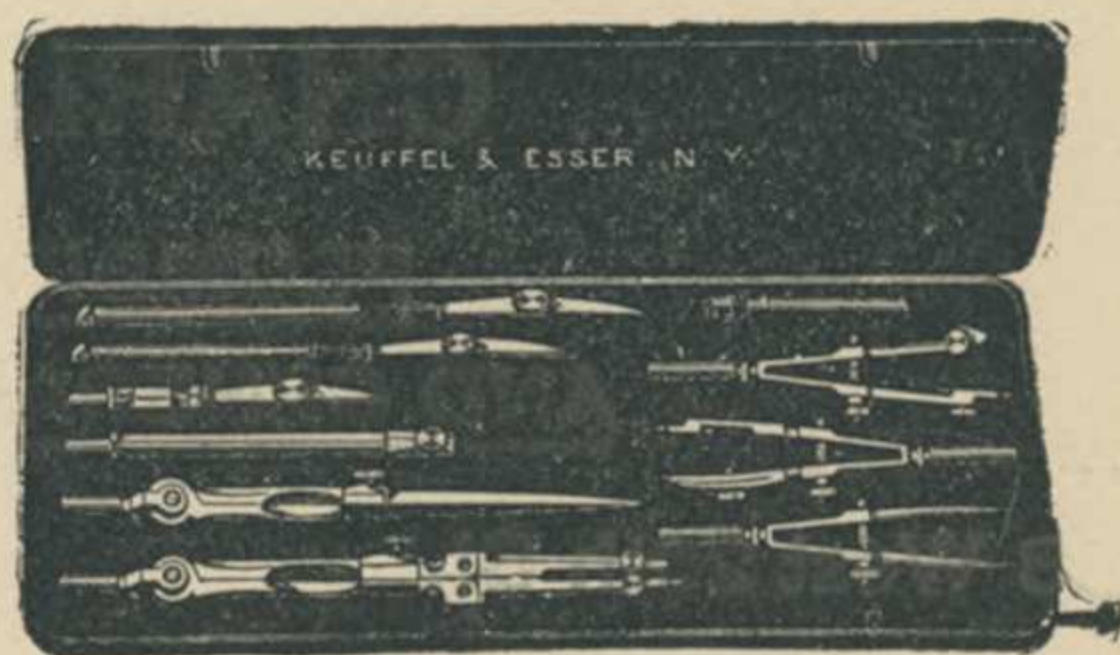
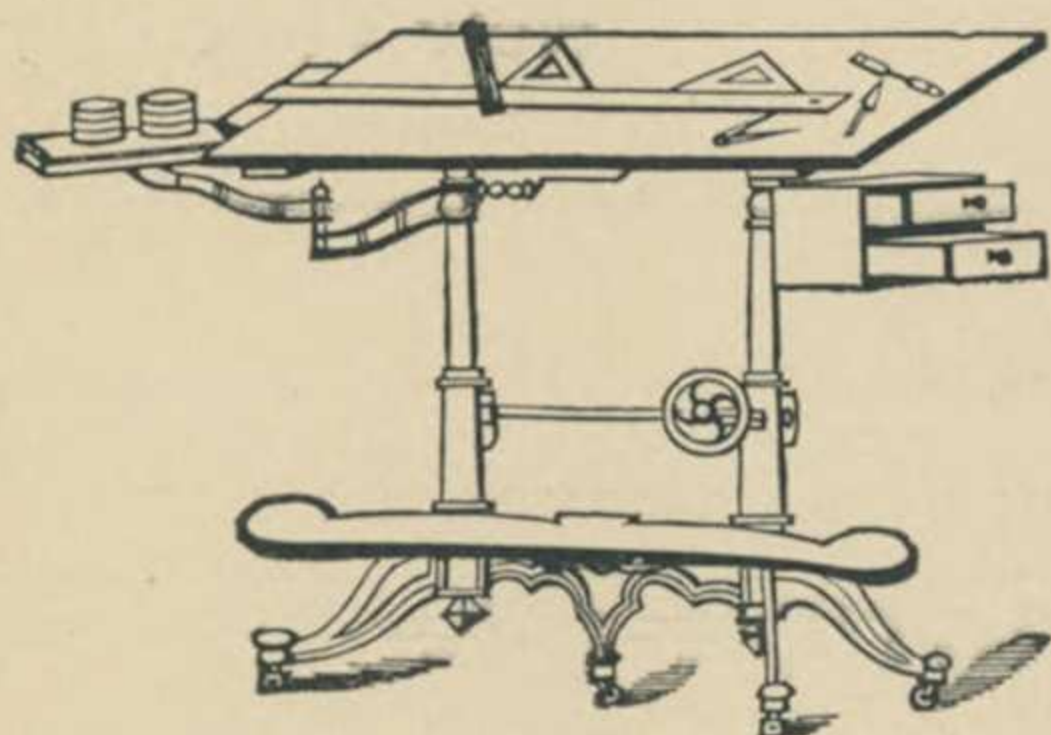
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