

SALEM

THE FEMALE SEMINARY.

The New Furniture Being Placed.

ROANOKE TIMES BUREAU, HOTEL LUCERNE, SALEM, VA.

The Salem Female Seminary, which will be conducted by Mr. and Mrs. Guy, is finished and the furniture being moved in. The building is large and commodious and is situated on North Broad street. It will be occupied by the boarders of the school, who will reside with the family of Mr. Guy.

The desks are now being placed in the recitation rooms. These are very handsome and comfortable, and were manufactured by the Basic City School Furniture Company.

The instructors for the coming session will be Mr. and Mrs. Guy, who will have charge of the English languages and mathematics.

Miss Barksdale, of Albemarle county, will be the assistant in the languages and higher English.

Miss Nelson, of Florence, Ala., whose art work was spoken of in yesterday's TIMES, will be the art teacher.

Miss Baird, of Salem, will teach music.

A department of stenography and typewriting and bookkeeping will be provided if there are scholars desiring to pursue that course of study.

Professor Smith, of Roanoke College, will give instructions in French.

There will be a cut of the seminary in THE TIMES' industrial issue, in which Salem will be well written up.

THE TENNIS TOURNAMENT.

The Four Medals Have Arrived—Tennis Notes.

The four tennis medals to be awarded at the approaching State tennis tournament to be held in Salem on the 8th and 9th, have arrived and are on exhibition at Nichol's jewelry store. They are handsome and well worth winning. There will be a game of tennis this afternoon beginning at 3 o'clock and ending at 6 o'clock. The Roanoke tennis players are invited to be present and the ladies will be welcomed and will find comfortable seats.

O. L. Stearnes and Webster will play the best two out of three with R. S. Stearnes and Bowman. This will be the last game before the tournament.

TENNIS NOTES.

Nugent is picking up in his service.

Taylor, the overhead twirler is in good shape. He drew to play White, of Abingdon, in the preliminary singles. White is the champion of the State. Taylor is a member of the Columbia Athletic Club, of Washington. The game between these two will be interesting.

Taylor and Nugent will play a strong double in the tournament and R. S. Stearnes and Bowman are improving in their double.

O. L. Stearnes and Webster will play together and the number of their defeats is few.

The Salem Tennis Club is glad to welcome Howard M. Hooker, of the Roanoke Tennis Club into their number. Mr. Hooker will move to Salem soon.

No admittance will be charged to witness the games at the tennis tournament next week, and all the Roanokers and Salemites who desire to see the games are to be invited to be present.

There will be many good tennis players at the tournament, but look out for Langhorne, of Lynchburg, and White, of Abingdon, from among the visitors. They play like professionals.

BREVITIES.

Rev. Dr. L. C. Vass, of Savannah, Ga., is at George Allen's and will occupy the pulpit of the Presbyterian Church Sunday morning and evening.

H. M. Smith has returned from Conover, N. C., his home.

Miss Mary Allen will return to New Berne, N. C., to-day to resume the position as assistant principal in the New Berne High School.

A crowd of twenty-five persons arrived in Salem yesterday from Christiansburg and went to the Lake Spring Hotel to spend a few weeks. They are summer visitors who have been boarding at the Christiansburg College, and had to vacate because of the opening of school.

Extending Lick Run Sewer.

Work on the extension of the Lick run sewer from Commonwealth to Fifth avenue was begun yesterday morning. A large force of colored laborers was put to excavating and several teams commencing hauling the stone. This extension will be a great benefit to that locality at the intersection of Commonwealth and East avenues. Two large sewers empty into Lick run at that point, and had it been left as first intended the smell of sewer gas would not have been broken.

Soldiers' Skeletons Unearthed.

DRUMMONDVILLE, Ont., Sept. 4.—[Special]—The skeletons of fifteen British soldiers who fell in the battle of Lundy's lane, were discovered by excavators in a sand pit outside the cemetery to-day. Some of the red coats found with the remains were in perfect condition. Among the relics recovered are buttons, tobacco pouches, jackknives and buckskin vests and officers' braid. The skeletons have been buried within the cemetery.

Special Offer.

- One second hand piano, \$50.
- One second hand Knabe piano, \$175.
- One second hand Knabe piano, \$250.
- One second hand N. E. piano, \$235.
- One second hand organ, \$10.
- One second hand organ, \$25.
- One second hand organ, \$40.
- One second hand organ, \$60.
- One second hand Estey organ, \$80.
- And several other bargains.

The Hobbie Music Co., 157 Salem avenue.

J. W. Wonders & Co., with their long experience can suit the most fastidious in shoes. They carry a complete stock of all the latest styles in shoes. Call to see them at their beautiful store, 105 Commerce street.

The big celebration at Radford is to be postponed to Monday, September 7.

EDISON'S KINETOGRAPH.

It Will Be Far More Wonderful Than the Phonograph.

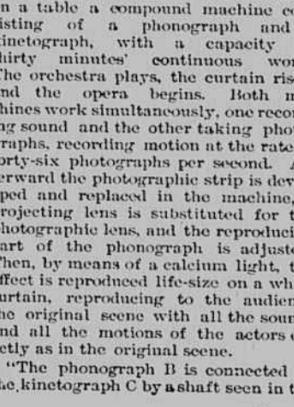
When Perfected, the Instrument Will Record Motion and Sound Simultaneously—How the Machine Will Perform Its Work.

Mr. Edison worked for some years in his big laboratory establishing the basic principle of the kinetograph. Success came in the form of a machine that was crude, to be sure, but which contained the germ for which he sought. Mr. Edison's machine, says the Chicago Tribune, will be complete in all its details by the time of the opening of the world's fair, at which it is to be exhibited.

The phonograph connection of the kinetograph is an improvement on the phonograph in daily use. Something like 500 sound writers are under the constant observation of the wizard, and the result of this study will be embodied in the kinetograph to be used with the kinetograph.

Of the working of the machines Mr. Edison has said: "If it is desired to reproduce an opera or a play I will get the company to give a dress rehearsal for me. I place back of the orchestra on a table a compound machine consisting of a phonograph and a kinetograph, with a capacity of thirty minutes' continuous work. The orchestra plays, the curtain rises, and the opera begins. Both machines work simultaneously, one recording sound and the other taking photographs, recording motion at the rate of forty-six photographs per second. Afterward the photographic strip is developed and replaced in the machine, a projecting lens is substituted for the photographic lens, and the reproducing part of the phonograph is adjusted. Then, by means of a calcium light, the effect is reproduced life-size on a white curtain, reproducing to the audience the original scene with all the sounds and all the motions of the actors exactly as in the original scene."

"The phonograph B is connected to the kinetograph C by a shaft seen in the



THE KINETOGRAPH. A—Funnel. B—Phonograph. C—Kinetograph. D—Electric battery.

sketch just over the letter B. This shaft is attached to the cylinder of the phonograph at one end and to the apparatus which operates the shutter of the kinetograph at the other. It thus insures exactly simultaneous action on the part of the two machines. So when the phonograph hears a sound and records it the kinetograph sees the exact motion which accompanied that sound and fixes it."

The kinetograph is a photograph camera called upon to do quick work. The word comes from the Greek verbs meaning respectively "to move" and "to write." Mr. Edison has put it this way: "The kinetograph does for the eye what the phonograph does for the ear."

In the small box camera Mr. Edison places a roll of gelatine film about three-fourths of an inch wide and of any length desired. The interior of the camera is of course arranged on a plan similar to that on which the ordinary roll cameras are made. The gelatine strip is unrolled from one spindle and rolled on another, and in passing from the first spindle to the second is carried before the lens of the camera. The shutters of the camera are arranged to be worked by the shaft attached to the cylinder of the phonograph. This shaft also works the spindles which carry the rolls of film.

The mechanism of this camera is so arranged that when the shutters open the spindles stop and the gelatine film is fixed before the lens. In less than the forty-sixth part of a second the photograph is taken, the shutter snap, the spindles turn and the gelatine slip moves on for a new photograph. The arrangement is so complete that forty-six perfect photographs are taken in one second. The idea is to take a series of instantaneous photographs of motion so rapidly that in the reproduction the photographic representations become resolved into a pure motion instead of a succession of jerks. When details are perfected Mr. Edison will make a test of the machine on a great scale—namely: a life-size reproduction.

The inventor has not found a way to telegraph representation of action as it might appear. Mr. Edison claims for it but little beyond the furnishing of well-nigh endless amusement.

Why Manila is One Day Behind.

Manila is one of the most important ports in the Philippine islands, but, strange to say, is one day behind all other places of its size in the world. This curious fact is accounted for in this way: Although the Philippine islands lie near the Asiatic coast, they were discovered by Spaniards who sailed from America. When they crossed the magic line where Sunday suddenly changes into Monday, these fiery dons of proud Castilian ancestors did not revise their calendar. When told of this years later, when informed that their mode of reckoning time was not up to modern notions, they only said that that was so much the worse for modern notions. Anyhow, the fact remains that these Philippine islanders keep plodding along one day behind all the rest of the world, which reckons time by new style.

TEMPERING STEEL.

Pale Yellow for Razors and Dark Blue for Saws the Proper Colors.

Steel has been defined as any kind of iron which when heated to redness and suddenly plunged into cold water becomes hard; and every kind of malleable or flexible iron that can be hardened by that process is steel. But this definition is not applicable to the steel of mild quality now made for many mechanical uses, says the Mechanical News. One of the requisites for this mild steel is that it will not harden after being heated to a cherry red and plunged into water. To include all the kinds of steel now used in the agricultural and mechanical industries, the better definition of steel will be, a malleable iron combined with a percentage of carbon. Chemically considered, steel occupies a half-way position between wrought and cast iron, wrought iron being simply iron almost entirely free from carbon, while steel that is to be tempered contains one to one and one-half per cent. of carbon.

The reason why this very slight change in the chemical construction should produce such wonderful results in the properties of iron and steel is as yet an unsolved mystery. We know that a bar of iron converted into steel becomes more granular or open, and while it loses to some extent its toughness, it gains, instead, elasticity, greater strength and closeness of fiber.

Blister steel is made by heating bars of iron packed in charcoal in a furnace for a period of from six to ten days. When the metal is withdrawn the bars are found to be of crystalline texture, and have a blistered surface—hence the name. Cast steel was formerly made of blister steel broken into fragments, melted in crucibles and cast into ingots; but the modern practice is to charge the crucibles with pieces of good Swedish or American bar iron, adding charcoal and black oxide of manganese. The heat of the furnace soon seals the lid of the crucible, and the melting iron absorbs carbon from the fumes of the charcoal, thus shortening the tedious process of making "blister" bar. The cast steel is rolled or hammered from the ingot to any desired bar, sheet or plate.

The chief characteristic of steel consists in its capability of being hardened and tempered, and when exposed to heat it takes on in succession the following colors:

1. A faint yellow, which indicates a proper temper for lancets or small cutters that require the finest edge, with but little strength of metal.
2. A pale yellow, which indicates the temper for razors and surgical instruments.
3. Full yellow, for penknives, etc., with increased toughness.
4. Brown, with purple spots—that being for axes and carpenter's tools.
5. Bright blue, for swords and watch-springs.
6. Full blue, for fine saws, daggers, etc.
7. Dark blue, for large saws or instruments that may be sharpened with a file.

The above colors are based on steel suitable for the requirements. A piece of steel suitable for razors, lancets, etc., would not take the color indicated for large saws, as that quality of steel is but little above the "blister" quality. The finer steel is the less heat it will temper at, requiring a lower color of temper. Recently there have been some valuable discoveries in tempering, welding and restoring steel, both from burnt or a low grade.

CUNNING DEER HUNTERS.

How the South American Indians Provide Themselves with Venison.

The manner in which the South American Indians hunt deer in the Cordilleras is very interesting and somewhat ingenious. They first ascertain the locality in which the animals congregate to graze, and then the men, women and children of the tribe make extensive preparations to hem in the herd. In order to cause a stampede they blow horns, yell and make other bewildering and outlandish noises. As a natural consequence the frightened deer quit their grazing places. They form in line in regular marching order, the elder males leading the way followed by the females and young, while the rear of the column is brought up by the young bucks, who act as protectors to the centers.

The Indians now close in upon them, seeing which the animals prepare to do battle for their lives. The hunters then proceed to prepare the instruments of destruction, consisting of large lances, resinous torches and nooses fixed to long poles.

The worst enemy of the deer is the jaguar and wildcat, and their animosity to them is such that they have been known to leap over a hunter in order to attack either of these feline foes. The Indians, knowing this, employ it to great advantage during these hunts.

The women stuff a number of jaguar and cat skins, which are placed in prominent positions on the edges of precipices in full view of the deer, says the Detroit Free Press. Immediately the bucks make a violent effort to get at them in order to hurl them into the abyss beneath, but are thus treated themselves by the wily hunters, who pitch them over the cliff, where they are quickly ham-strung or otherwise disabled by the women, who are stationed below. After the first onslaught on the stuffed figure the remaining deer seem to recognize the fact that they have been tricked, and huddle together, awaiting another attack.

Then the Indians throw lighted torches among them and a panic ensues. They make desperate efforts to escape, but the relentless hunters drive them over the crags until they see that a sufficient number have been captured—generally four or five hundred. They do not usually harm the females and fawns, and also allow a few bucks to escape. Very seldom is a doe killed, and if a she fawn is captured it is immediately liberated. The flesh is eaten by the Indians and also carried to the villages to be sold, while the skins are either purchased by dealers or made up into various articles by those who assisted in their capture.

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THE FIDELITY LOAN AND TRUST COMPANY, OF ROANOKE, VA.

Statement at close of business, June 30th, 1891:

RESOURCES.	
Bills receivable	\$300,970.04
Cash	50,668.47
Furniture	1,283.30
Stocks and investments	6,150.50
\$359,072.31	
LIABILITIES.	
Capital stock paid in	\$200,000.00
Deposits	112,869.93
Bills rediscounted	11,912.32
Cashier's checks	194.73
Dividend No. 1	10,347.57
Surplus	20,000.00
Undivided profits	3,717.76
\$359,072.31	

Authorized to execute trusts; collects interest and incomes; acts as registrar of stocks, bonds, etc., of corporations; fire, life and accident insurance; receives deposits and allows interest thereon; negotiates loans. July 2-tf

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W. H. OLIVER & CO.

april 21-ly

ROANOKE & SALEM DUMMY LINE.

On and after Monday, February 16th, 1891, trains will be run as follows: WEST. Lv. Roanoke, Ar. Salem Lv. Salem, Ar. Roanoke 7:00 a.m. 7:30 a.m. 7:45 a.m. 8:15 a.m. 8:30 a.m. 9:00 a.m. 9:15 a.m. 9:45 a.m. 10:00 a.m. 10:30 a.m. 10:45 a.m. 11:15 a.m. 11:30 p.m. 12:00 p.m. 12:15 p.m. 12:45 p.m. 1:00 p.m. 1:30 p.m. 1:45 p.m. 2:15 p.m. 2:30 p.m. 3:00 p.m. 3:15 p.m. 3:45 p.m. 4:00 p.m. 4:30 p.m. 4:45 p.m. 5:15 p.m. 5:30 p.m. 6:00 p.m. 6:15 p.m. 6:45 p.m. 7:00 p.m. 7:30 p.m. 7:45 p.m. 8:15 p.m.

On Sunday same, commencing with 8:30 a. m. from Roanoke. jan1-tf

PRESS WORK.

WITH ITS HOE DOUBLE-CYLINDER PRESS, With a capacity of 36,000 IMPRESSIONS PER DAY, THE ROANOKE TIMES PUBLISHING COMPANY

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STATEMENT OF THE ROANOKE TRUST, LOAN AND SAFE DEPOSIT COMPANY, ROANOKE, VA., MAY 23, 1891.

RESOURCES.		LIABILITIES.	
Loans and discounts	\$ 337,642.93	Capital	\$ 250,000.00
Stocks	226,155.00	Surplus	136,191.88
Real estate	52,669.00	Undivided profits	30,251.78
Furniture	670.00	Deposits on certificate	168,145.16
Cash on hand	13,304.74	Check deposits	114,305.90
Due from banks	62,312.16	Bills payable	2,698.33
Expenses and taxes	4,482.51	Bills rediscounted	5,838.33
\$897,236.34		\$897,236.34	

P. L. TERRY, President, S. W. JAMISON, Secretary and Treasurer. Banking and Brokerage, Fire and Life Insurance, Low Rates, Best Security. Interest paid on Deposits. jan19-tf

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TOURNAMENT. GRAND HANDICAP Billiard Tournament

—AT— RICE'S BILLIARD PARLORS Commences April 27. S. A. RICE & CO., Proprietors. mar23-ly

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First Class.	No. 2.	First Class.	No. 3.
Passenger.	Daily.	Passenger.	Daily.
Freight.	Daily.	Freight.	Daily.
Mail.	Daily.	Mail.	Daily.
Express.	Daily.	Express.	Daily.
Special.	Daily.	Special.	Daily.
Excursion.	Daily.	Excursion.	Daily.
Season.	Daily.	Season.	Daily.
Winter.	Daily.	Winter.	Daily.
Summer.	Daily.	Summer.	Daily.
Autumn.	Daily.	Autumn.	Daily.
Spring.	Daily.	Spring.	Daily.

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