

With Choir and Organist

The choir of Augsburg Lutheran Church is rehearsing Matthews' cantata, "The Story of Christmas," to be given December 28 at the fourth monthly musical service.

Miss Emma Miller has been chosen leader of the choir of Calvary United Brethren Church, Washington Heights.

The combined Catholic choir, of Harrisburg and Steelton rendered splendid music at the welcome home service at St. James' Church, Steelton on Thursday under the direction of Joseph D. Beckler, organist and choirmaster at St. Patrick's Cathedral.

In two churches to-morrow Watson's "O Worship the Lord" will be sung. At Zion Lutheran Church the anthem will be heard as a quartet and

Elizabeth Watkins, Evan Evans and Gwilym Watkins.

The opening recital of the new Austin organ at Grace Methodist Church is to be given on the evening of December 19, by the organist and the choir-master of the church, Bernard R. Mausert.

St. Sava's "Te Deum laudamus" by the composer's Christmas cantata, is being rehearsed by the choir of Calvary Presbyterian Church.

Scientific Discussions by Garrett P. Serviss

"Why do raindrops fall individually, not touching each other while in descent? When we observe a light rain we can see each drop as distinct as though coming through a monster sieve held by a master hand. And as much we can say for a heavy rain. What causes this individuality of the raindrops?"

To answer that questions we must begin by considering the way in which raindrops are formed. When the air is supersaturated with moisture the latter condenses around extremely small cores, such as floating particles of insensible dust, or electric nuclei, and thus creates minute globules of water, so light that they continue to float in the air, and so numerous that they form clouds. Although seen as a whole from below, they seem to form a uniform mass, yet the spaces between the cloud particles are really large compared with the diameters of the particles.

However, partly perhaps through electric attraction, and partly through being brought into contact by motions of the air, the particles enlarge until they become so heavy that the gravitational attraction of the earth overcomes the buoyant force of the air, and then they descend as raindrops.

When they have attained the size of raindrops, which are but a small fraction of an inch in diameter—one-tenth inch perhaps for the largest—the cohesion of their individuality is probably due in part to electric repulsion, all having acquired a similar charge, but mainly to the fact that if they grew too large by combination they are broken up by the force of gravity overcoming their cohesion.

One of the curious effects of the cohesion of a liquid is the production of "surface tension," which acts as if an elastic film, like an invisible, and immeasurably thin rubber membrane, were spread over the surface of the liquid.

Surface tension is due to the unbalanced attraction of the liquid upon those of its molecules which lie on the surface, that a part of their sphere of attraction is above it. In consequence of surface tension a small quantity of water suspended in the air takes the form of a spherical drop. But if the drop is too large and heavy the force of gravity overcomes the surface tension, the intensity of which varies for different liquids, and the drop is broken up, or its formation is prevented.

The cohesion and surface tension of mercury, the only metal that remains in a liquid state at ordinary temperatures, are much greater than those of water, and you can see the effect of the difference by sprinkling water and mercury separately upon a glass plate. The water will form flattened, convex drops, while the mercury take the shape of little spheres, running freely about. Part of this difference is due to the greater adhesion of water than of the mercury to the glass.

Whether there is any fundamental difference between the force of gravitation and that which we call cohesive attraction between the particles of a substance is an unsettled question, but both forces when acting without outside interference caused a liquid mass to take a spherical form, because that is the geometrical figure which gives the minimum surface in proportion to volume.

So we find that the heavenly bodies, including the earth, are more or less perfectly spherical, having been once in a liquid or vaporous state. In gaseous nebulae we apparently see spherical suns forming, which might be fancifully called "nebula drops," being created by the condensation of cloudlike matter. Molecular attraction, the force to which the formation of liquid drops and the existence of surface tension are due, also holds the molecules of solids together, and in this case it produces the property that we call tenacity. A heavy solid will hold together as long as some force like gravity does not overmatch its tenacity.

In calculating the relative effectiveness of gravitation and cohesion in holding the earth together, P. G. Tait found that gravitation is 25,000 times as effectual as the cohesive force of sandstone and 50 times as effectual as that of steel. But if the earth were reduced to a sandstone sphere about twenty-five miles in radius, or to a steel sphere about 400 miles in radius, gravitation and cohesion would be about equally effective in holding it together. The peculiarity of cohesion as compared with gravitation, as Professor Barke remarks, is that cohesion is exerted only through immeasurably small distances.

NEWSY JOTTINGS OF THEATER AND SCREEN

"The Mystery of the Yellow Room" at the Victoria Next Week



The new play is said to be quite as startling as was Mme. Nazimova's "The Mystery of the Yellow Room" which was seen two seasons back, plays at the Orpheum to-day, matinee and evening.

"Curiosity" is a new comedy in three acts, by H. Austin Adams, best known to theatergoers as the author of "Captain Shonker," in which Nazimova was seen two seasons back, plays at the Orpheum to-day, matinee and evening.

"Forbidden" is a romantic play by Dorothy Donnelly, featuring Martha Hedman and a notable cast of assisting players.

"The Mystery of the Yellow Room" is a masterpiece of mystery, featuring an excellent cast of assisting players.

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GRAND OPERA AT ORPHEUM TUESDAY

Harrisburg will have a real taste of grand opera Tuesday, December 1, that being the date of the appearance of the De Feo Grand Opera Company, hailed by critics and press as the greatest grand opera company on tour this season.

The company consists of fifty artists and a fifteen-piece symphony orchestra.

At the matinee Tuesday the company will present Danzetti's celebrated masterpiece "Lucia" and at evening the offering will be Verdi's greatest composition "Rigoletto." The advance seat sale for this attraction which opened yesterday has been very heavy.

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WINTERDALE DANCE

15 North Market Square

Burd's Big Orchestra

Tonight

Admission - - - 40c and 60c

ORPHEUM

Monday Evening Only

December 1

The Peer of All Cartoon Plays

A Gallopade of Mirth and Music

Taken From That Famous Cartoon

"The Captain and the Kids"

Prices, 25c, 50c, 75c, \$1.00

ORPHEUM

Monday Night Only

December 2nd

Engagement Extraordinary

DE FEO GRAND OPERA COMPANY

MUSICAL EVENT OF THE SEASON

SELECTED ARTISTS SPECIAL ORCHESTRA

50-Talented Artists—50 15 Piece Symphony Orchestra

At matinee they will offer Danzetti's Masterpiece

"LUCIA"

NIGHT—PRESENTING Verdi's Greatest Composition

"RIGOLETTO"

Seats 50c to \$2.00

ORPHEUM

Thursday, Dec. 4

ONE NIGHT—Thursday, December 4—ONE NIGHT

A. S. STERN & CO., In Association With GEORGE BROADHURST, Presenters.

"SHE WALKED IN HER SLEEP"

THE FUNNIEST PLAY EVER WRITTEN WITH

ARTHUR AYLESWORTH

and EVA WILLIAMS

"THE MOST BEAUTIFULLY GOWNED SHOW IN AMERICA"

PRICES, Evening 50c to \$2.00 SEATS TUESDAY

MAJESTIC

\$5,000 A YEAR

A delightful sketch

4—Other Keith Acts—4

PEARL WHITE

in

THE BLACK SECRET

COLONIAL THEATER

TODAY—POSITIVELY LAST SHOWINGS OF

"THE ISLE OF CONQUEST"

Featuring the screen's daintiest star

NORMA TALMADGE

and her youngest sister, Natilie

MONDAY, TUESDAY AND WEDNESDAY ONLY

ALICE JOYCE

in the film adaptation of Rex Beach's famous novel

THE VENGEANCE OF DURAND

A story that will bring you to your senses if you are jealous.

VICTORIA THEATER

DOUBLE ATTRACTION

All Next Week—Starting Monday—All Next Week

A Picture of a Thousand Thrills

THE MYSTERY OF THE YELLOW ROOM

"Defies efforts at solution."—N. Y. Times.

"Decidedly baffling."—N. Y. Journal.

"Mysterious and baffling."—N. Y. Telegraph.

"Detective Thriller."—N. Y. Sun.

"Most fascinating."—N. Y. Journal of Commerce.

"Upholds spectators' interest until final scene."—N. Y. Mail.

"All thrills caught for screen."—N. Y. Globe.

1,000 LAUGHS

HAROLD LLOYD

in his first two-act \$100,000 comedy production that has set New York on one hilarious laugh spree.

"BUMPING INTO BROADWAY"

You have seen his kind—the fellow who comes to town about once every month and then sets out to have one wild time, going to see these wild shows, everything. Well that's what this youth started out to do and then—well, the film is better than anything words can express. Better see it.

William D. Taylor, director of many pictures that have exploited great stars, such as Mary Pickford, Marguerite Clark and now Mary Miles Minter, has returned from the West after more than a year's absence, part of the time in war service and part in eastern studies. When Paramount decided that it had great potential value in Miss Minter, it turned her over to Mr. Taylor for development.

Fully recovered from her long sojourn in the hospital where she went to leave an appendix, Lois Wilson is radiant with a new health that came with her enforced rest and is working again with Paramount, who have her services for the next five years.

MELODRAMA OF SEA COMING TO REGENT

Great interest has been shown by patrons of the Regent Theater and throughout generally in "The Life Line," the Paramount-Arcraft Special, produced by Maurice Tourneur, which is to be shown at the Regent on Monday, Tuesday and Wednesday of next week. In other cities where this picture has played it has stirred even more commotion than "The Romany Rye," the world famous melodrama of the sea upon which it is founded.

Special interest centers in the climax of the picture—a shipwreck and the rescue by means of the breeches buoy. There are said to be several other spectacular scenes, and the picture is reported to be the finest ever produced by that master hand, Maurice Tourneur.

AT THE COLONIAL

Today is Harrisburg's last opportunity to see Norma Talmadge starting in her versatile offering "The Isle of Conquest." This picture has played to more picture fans than any other picture she has produced and

ORPHEUM

WEDNESDAY, DECEMBER 3rd

George Mosser Presents

"FORBIDDEN"

A Romantic Play by Dorothy Donnelly

MARTHA HEDMAN

And a Notable Cast of Assisting Players

"Wholesome, patriotic, splendidly American play. I enjoyed every minute of it."

Joseph Tamulsky

PRICES 50c to \$2.00

ORPHEUM

TODAY—MAT. AND EVE.

J. S. Tepper, Inc., presents the

inquisitive comedy

"CURIOSITY"

POPULAR \$1 MATINEE

NIGHT, 25c to \$1.50

ORPHEUM

MONDAY NIGHT ONLY

DECEMBER 2nd

Engagement Extraordinary

DE FEO GRAND OPERA COMPANY

MUSICAL EVENT OF THE SEASON

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Seats 50c to \$2.00

See
Kough, Brightbill & Kline for REAL ESTATE & INSURANCE
Bell 3902 307 Kunkel Bldg. Dial 4509

FOR SALE
Our Real Estate offerings for the year-end are especially attractive to conservative buyers.
The prices are sure to advance after January 1st. Let us help you find a good investment.
J. E. GIPPLE
1251 Market Street

Store Room Wanted
Local Branch of a large Rubber Company desires to rent office and store room in business section.
Bell Phone, 3336

FOR SALE
Here's Your Chance For a GOOD INVESTMENT
THE 4 THREE-STORY BRICK DWELLINGS NOS. 1715-1717-1719-1721 HUNTER STREET EIGHT ROOMS AND BATH EACH.
CHAS. ADLER
1002 N. THIRD STREET
Member Harrisburg Real Estate Board.

Factory Property At a Bargain Price
We are told to sell the Crescent Laundry property on Cameron Street, north of Market (lot 64x164 ft.) for \$22,000.
Truly a bargain price when you consider the buildings and size of plot, where located, and the great future in store for Memorial Bridge territory.
If you have use for property of this character do not fail to let us tell you the full story.
MILLER BROS. & CO.
Locust and Court Streets.

PRESCRIPTION! REMEDY! RESULT!
The other week we spoke of having "Prescription for Ailing Properties."
A PRESCRIPTION brings a REMEDY.
A REMEDY brings a RESULT.
List your real estate here. We have the REMEDY!
You get the RESULT!
Listings Coming Fast! Sales "Going Some!"
BACKENSTOSS REALTY CO.
331 MARKET STREET
"Harrisburg's Real Estate Bureau"
Bell 4526 Dial 5430

Bakery For Sale
WITH OVENS, FIXTURES AND
11-ROOM HOUSE (Store room included), Electricity, Hot and Cold Water, Large Garage
Lot 78 FEET x 205 feet.
PRICE \$4,500
Durand & Ferber
107 CHESTNUT STREET
Near Front

SOME OF MY Recent Listings