

THURSDAY

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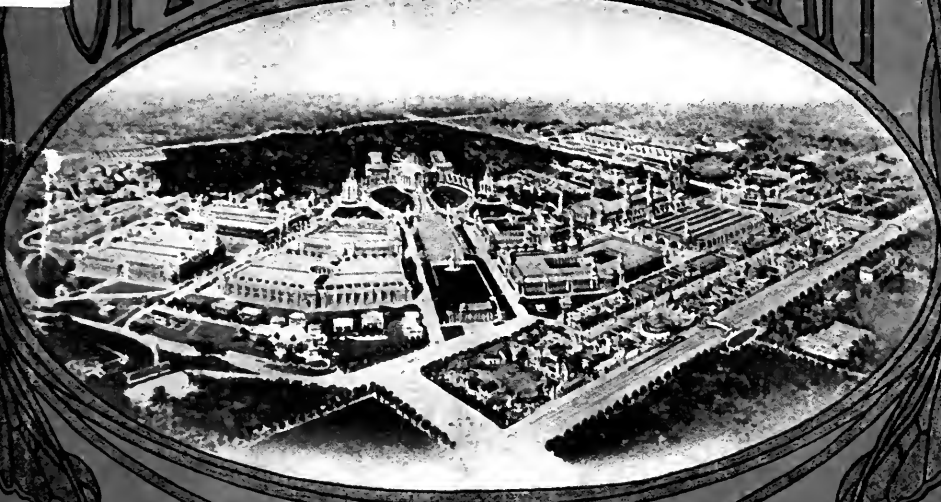
DAILY

OFFICIAL PROGRAM

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WORLD'S FAIR

LOUISIANA PURCHASE  
EXPOSITION

ST. LOUIS, U.S.A.

1904

ST. JOHN

of California  
Regional  
Facility

Mr Charles M. Rosen  
69 High St. Everett Mass.



OFFICE OF THE PRESIDENT

Saint Louis, April 25, 1904.

The programs published by the World's Fair Program Company of St. Louis, in accordance with the terms of its contract with this Company, are the only official programs of the Louisiana Purchase Exposition, the sale of which is authorized in America by the Exposition Management.

*David R. Francis*

President.

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# DAILY OFFICIAL PROGRAM.

## WORLD'S FAIR. ST. LOUIS.

Number 41

THURSDAY

June 16

### ORDER OF THE DAY.

- 8:00 a. m. Exposition open till 11 p. m.  
Troop Drill, U. S. Marines, Plaza of St. Louis, till 10 a. m.
- 9:00 a. m. Buildings open, various conditions, see page 7.
- 9:30 a. m. Indian School. Events begin, see page 10.
- 10:00 a. m. Feeding hour for seals, etc., see page 10.  
National Gas Association meets, Hall of Congresses, see page 2.  
National Co-Operative Association, Hall of Congresses.  
Dedication Siam Pavilion, open till 4 p. m.
- 11:00 a. m. Band concerts, various locations, see pages 4-5-6.  
Cascades start, one hour; repeating at 2, 3, 5 and 8 p. m., see page 16.
- 11:30 a. m. Organ recital, Festival Hall, till 12:30 p. m. Admission 10 cents, see page 2.
- 2:30 p. m. U. S. Life Savers Drill to 3:30 p. m., see page 10.
- 3:30 p. m. Reunion Washington University Alumni, Festival Hall, till 5 p. m.
- 7:26 p. m. Illumination begins, continues till 10 p. m.
- 8:30 p. m. Cascades illuminated till 10 p. m.
- 11:30 p. m. Pike shows close, Exposition closes.

**All Above Events are Free.**

Points of interest on Intramural, page 11.

*Press of THE MODEL PRINTERY, Administration Building,  
Hall of Congresses, World's Fair Grounds.*

**EQUIPMENT  
USED**

Miehle Two-revolution Four-roller Presses.  
Dexter Automatic Press Feeders and Folders.  
Mergenthaler Linotypes for All Composition Herein.  
Crocker-Wheeler Motors. Cutler-Hammer Controllers.  
Seybold Cutters and Trimmers. Boston Wire Stitches.

**Military Schedules for the Day—**

Guard Mount and Band Practice, Philippine Scouts, 9 a. m.  
 Troop Drill, U. S. Marines, Plaza of St. Louis, 8 a. m.  
 St. John's Military Academy, 5 to 6 p. m., Administration Court.  
 Frazier Light Guards, 10 to 11 a. m., Administration Court.  
 U. S. Marines, 3:30 to 4:30 p. m., Plaza of St. Louis.  
 Philippine Scouts, 4:30 to 5:30 p. m., Plaza of St. Louis.  
 Iowa State College, 1:00 to 2:00 p. m.

**Conventions and Ceremonies of the Day—**

National Gas Association, June 14 to 16. Sessions in Hall of Congresses,  
 10 a. m. and 2:30 p. m.  
 Dedication of Siam Pavilion. Private view to invited guests, 10 a. m.  
 to 4 p. m.  
 Western National Paper Box Manufacturers. One day only. Hall  
 of Congresses, 10 a. m. to 2:30 p. m.  
 Reunion Washington University Alumni Association, Festival Hall, 3:30  
 to 5:00 p. m.

**Organ Recital, Festival Hall, 11:30 to 12:30.**

Organist, Mrs. M. C. Fisher, of Rochester. Largest organ in the world.  
 Admission 10 cents.

**Friday, June 17—**

Boer War Opens.  
 Iowa Building Dedicated.

**Saturday, June 18—**

Philippine Encampment Dedication.

**SIAM DEDICATION.**

The dedication of the Temple-like building erected by the Siamese Commission takes place to-day at 10 o'clock.

The exercises are extremely simple, merely the delivery of the building by the Commission to President Francis on behalf of the government. A number of invitations have been issued for the function, following which the doors will be open to the public. Thereafter the public may visit the building daily between the hours of 10 a. m. to 4 p. m.

**The Pavilion of Siam.**

The Pavilion of Siam is a reproduction of the Wat, or Temple, Benchama Bopit, now building in Bangkok. All of the plans were made by the Bureau of Public Works of Siam, but because of the difference in the materials used as well as on account of a few minor changes in the dimensions, the working drawings were prepared in Washington, D. C., where also the building was framed. The sculptural figures and ornaments were made from designs sent from Siam.

In the Bangkok Temple the entire inner surface is ornamented. This was not possible here, owing to the lack of time, so the artist found it neces-

sary to adapt the Siamese units to the conditions that presented themselves and at the same time maintain the national art characteristics.

The display in the Pavilion has been taken chiefly from the Royal Museum of Bangkok and is intended to show the art forms and technical skill of the Siamese of a century ago as well as of the present time. There is on exhibition a large collection of ancient weapons, musical instruments and models of temples and houses of the country people. These, together with the photographs on the walls and the transparencies in the windows, give a very good idea of the scenery, life and activities of the country.

Of special interest are the portraits of His Majesty, The King, Her Majesty, The Queen and of His Royal Highness, The Crown Prince, who visited St. Louis in 1902 and took such a deep interest in the Exposition that he urged this participation on the part of Siam, becoming the President of the Royal Commission.

Following is the personnel of the Siamese Commission: His Royal Highness, The Crown Prince of Siam, President; A. Cecil Carter, Secretary-General, Ministry of Agriculture, Bangkok, Siam; James H. Gore, Commissioner General, Pavilion of Siam, St. Louis, Mo.

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#### Iowa Day Features.

The celebration of Iowa Day on Friday, June 17, is receiving the attention of the State Commission. A majority of the members are present assisting in the preparations for the exercises.

The B. F. Mentzer Hose Company, of Marion, Iowa, consisting of a drill team of 30 men will act as an escort to the official party on Iowa Day. In addition to this Iowa organization, the Iowa State Cadets and the cadets of Simpson College, of Indianola, will give the state a representative display in the parade which is to be part of the celebration. The B. F. Mentzer Hose Company drill team is one of the best known organizations of the kind in the country, having won many prizes in competitive drills.

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#### Indian School Items.

A class of sixteen Indian girls can be seen daily at the Indian School from 9:30 to 11:30 o'clock a. m. busily engaged in demonstrating Domestic Science as taught at Haskell. The course includes the selection of the complete furnishing of a kitchen, the care and preparation of vegetables for the table, plain and fancy cooking, including the baking of bread, meats, cakes, pastry, preserving and canning of fruits and preparing cereals. A model dining room and a complete laundry in which the best methods for washing all kinds of clothing, the preparation, starching and ironing are practically demonstrated.

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The exhibit of the Presbyterian Mission Training School, of Sitka, Alaska, is installed in the Alaskan Building. The exhibit shows the work of the boys and girls in sewing, basket and bead-work, cobbling, carpentering, inlaid wood-work, cabinet making, boat building and work along educational lines, as taught in the school.

A tiny speck of gold is given to visitors to the Utah Gold Mill in the Gulch. The Utah Gold Mill is not a concession and admission is entirely free. The mill will be in operation in a few days.

**CONTERNO'S BAND OF NEW YORK.**

Concerts in Machinery Gardens.

Musical Directors—Luciano Conterno, Dr. G. E. Conterno.

**Grand Band Stand, 2:30 to 4:30 P. M.****PART I.**

- Introduction, "Hail Columbia".....Fazhs  
 1. March, "Jersey Carnival" .....Lieberfeld  
 2. Overture, "Beautiful Galatea" .....Suppe  
 3. Waltz, "Visionen" .....Gung'l  
 4. Angel's Serenade.....Braga  
 (Cornet obligato by Mr. Albert Bodé.)  
 5. Grand Selection, "Carmen".....Bizet

**PART II.**

6. Overture, "Raymond".....Thomas  
 7. Intermezzo, "Cupidietta" .....Tobani  
 8. Selection, "Babes in Toyland".....Herbert  
 9. Galop, "Wirr-Warr".....Faust  
 10. Finale, "U. S. Grand Post March".....Dr. G. E. Conterno

**Grand Band Stand, 7:30 to 9:30 P. M.****PART I.**

- Introduction, "The Star Spangled Banner".....Key  
 1. Grand March, "Aux Flambeaux".....Meyerbeer  
 2. Overture, "Ivan the Terrible".....Dr. G. E. Conterno  
 3. Waltz, "Edinburgh".....Bonnisseau  
 4. Baritone Solo.....Selected  
 Mr. George W. Stewart.  
 5. Grand Selection, "Le Roi de Lahore".....Massenet

**PART II.**

6. Overture, "Rienzi" .....Wagner  
 7. Intermezzo from Ballet "Naila".....Delibes  
 8. Grand Fantasia, "A Night in Berlin".....Hartmann  
 9. Caprice, "Idle Hours".....Kretschmer  
 10. Finale from "Leonora Symphony".....Raff

**WEIL'S BAND OF ST. LOUIS.**

Concerts as Assigned by Bureau of Music.

Wm. Weil, Conductor.

**Machinery Gardens, 12 to 2 P. M.**

1. March, "Lake Front Park".....Vandercook  
 2. Overture, "Das Glocklein des Ermiten".....Maillart  
 3. Reminiscences of the Plantation.....Chambers  
 4. Vorspiel zu "Hansel and Gretel".....Humperdinck  
 5. Collocation of Spanish Melodies.....Relle

**INTERMISSION.**

6. March a la Japanese, "Three Little Maids".....Haines  
 7. Overture, "Im Walde".....Hintze  
 8. Simple Aveu.....Thome  
 9. Hungarian Rhapsody No. 2.....Liszt  
 10. American Fantasie, "The North and South".....Bendix

**Machinery Gardens, 5 to 7 P. M.**

1. Priest's War March from "Athalia".....Mendelssohn
2. Overture, "Fest"..... Lortzing
3. "Angel's Serenade" ..... Braga
4. Scenes from "The Runaway Girl".....Caryll
5. Sacred Fantasia, "Providence".....Tobani  
The Seasons—When Jesus Our Lord—Inflamatus, from  
Stabat Mater—I Would That My Love—Cornelius—Priest's  
March—The Holy City—The Heavens Are Telling, from  
"The Creation."
6. Familiar Melodies from the Works of the Great Masters.....  
"The Prophet," "Aida," "Schubert's Serenade," "Hungarian  
Dance," "Hearts and Flowers," "Coppelia," "Fackeltanz,"  
"Pagliacci," "Moszkowski's Serenade," "Walther's Traum-  
lied," "William Tell."
7. Waltz Movement, "Flirtation".....Steck
8. Selections from "The Bohemian Girl".....Balfe
9. a. Patrol, "The Blue and the Gray".....Dall  
b. "Badinage" ..... Herbert
10. March from "Tannhauser".....Wagner

**HASKELL INDIAN BAND.**

Concerts in Plaza of St. Louis.

Musical Director, Dennison Wheelock.

**East Band Stand, 12 to 2 P. M.**

1. Overture, "Zampa"..... Herold
2. Fantasia from "Maritana".....Wallace
3. Song, "The Holy City"..... Adam
4. Polish Dance No. 1.....Scharwenka
5. Gems from "Robin Hood".....DeKoven
6. Prelude to "Parsifal".....Wagner
7. An Indian War Dance.....Bellstedt
8. Musical Scenes from Spain.....Langey
9. In a Clock Store.....Orth
10. Gems of Stephen Foster.....Tobani

**East Band Stand, 8 to 10 P. M.**

1. Overture, "Orpheus" .....Offenbach
2. Excerpts from the "Serenade".....Herbert
3. a. Burlesque on "Arkansaw Traveler".....Lovenberg  
b. "Life on the Farm".....Laurendeau
4. An Album Leaf.....Wagner
5. Scene, "The Blessing of the Daggers".....Meyerbeer
6. Song, "The Lost Chord".....Sullivan
7. Valse Suite .....Jaxone
8. Hungarian Rhapsody No. 2.....Liszt
9. The First Heart Throbs.....Eilenberg
10. Introduction to Third Act "Lohengrin".....Wagner

The only complete ground plan of The Pike is published in this program.

**UNITED STATES GOVERNMENT BUILDING.**

**Concerts by the First United States Cavalry Band.**

Caspar Grilnberger, Chief Musician.

**Morning Concert, 11 O'clock.**

1. March, "Creole Belles".....Lampe
2. Overture, "Turner's Motto".....Kiesler
3. a. "Shut Yoah Eyes".....Wheeler  
b. "Skipperjack Dance".....Pryor
4. Waltz, "The Blue Alsatian Mountains".....Lamothe
5. Selection, "Sultan of Sulu".....Wathall
6. Quadrille, "Vive L'Armee".....Missud

**Afternoon Concert, 4:30 O'clock.**

1. March, "The Right of Way".....Raynes
2. Overture, "Light Cavalry".....Suppe
3. a. "Flower Song".....Lange  
b. "Dixieland".....Haines
4. Selection, "The Lily of Killarney".....Benedict
5. Chilian Dance, "Manana".....Missud
6. Medley, "O! Fair Dove, O! Fond Dove".....Schlepegrell  
Star Spangled Banng.

**ORGAN RECITAL.**

Mrs. Mary Chappell Fisher, of Rochester, N. Y.

**Festival Hall, 11:30 A. M.**

1. (a) Prelude in B Minor.....J. S. Bach  
(b) Idylle.....J. Rheinberger  
(c) Marche Solennelle.....J. Callaerts
2. (a) "Dreams" from the Seventh Sonata.....A. Guilmant  
(b) "The Manager," Pastorale and Adoration.....A. Guilmant  
(c) Wedding Hymn.....R. H. Woodman
3. (a) "The Answer".....W. Wostenholme  
(b) Scherzo—Symphonique.....G. Debat-Ponson  
(c) Adagio and Finale from Sonata in C Minor.....R. L. Baldwin

**DAIRY TESTS.**

Prof. E. H. Farrington, of the University of Michigan, representing the Committee from the Agricultural Colleges and Experiment Stations, is in charge of the dairy test which is given under the supervision of the Department of Agriculture.

**Model Dairy Barns Daily Routine.**

**Note:**—Model Barns are open to all visitors from 9 a. m. to 6 p. m. Permits to visit restricted parts of the barns may be received on application by mail to the Department.

4:00 a. m. Feeding hour for cows.	12:00 m. Milking hour for cows.
4:00 a. m. Milking hour for cows.	12:00 m. Feeding hour for cows.
6:00 a. m. Milking hour for cows.	6:00 p. m. Milking hour for cows.
9:00 a. m. Public inspection till 6 p. m.	7:00 p. m. Feeding hour for cows.



## STATE AND FOREIGN BUILDINGS.

Following are the hours and conditions for visiting State and Foreign buildings:

- Das Deutsche Haus (German State Building)—First floor open daily 10 a. m. until noon and 2 to 5 p. m.
- Ceylon Building—Open 9 a. m. to 6 p. m. Public admitted throughout the day. Tea served in the Verandah.
- The British Royal Pavilion open daily to the public from 10 a. m. to 5 p. m. (except on special occasions). No card of admission is necessary.
- Mexico's Pavilion is open daily for visitors from 9 a. m. to 6 p. m.
- from 2 until 5 p. m. Cards of admission required for second floor. Cards on application to Commissioner. Open to public Tuesdays and Fridays.
- French National Pavilion open every day except Wednesday from 9 a. m. to 6 p. m. to persons having passes. Passes furnished on application by mail.
- Chinese pavilion open to visitors with cards, 2 to 5 p. m.
- Brazil Building, first floor open to all, second floor visitors present cards.
- Austrian Building open to all visitors 9 a. m. to 6 p. m.
- Italian Building open to all visitors, 9 a. m. to 6 p. m.
- Swedish Building open to all visitors, 9 a. m. to 6 p. m.
- Belgium Building open to all visitors, 9 a. m. to 6 p. m.
- Holland Building open to all except room containing "The Night Watch."
- Japanese Gardens and pavilion open to all.
- Kentucky Building—Open to visitors from 8 a. m. until 10:30 p. m. No restriction placed Texas Building—Open 8:30 a. m. to 10:30 p. m. Public generally invited.
- upon visitors.
- Oklahoma Building—Open from 8:30 a. m. until 6:30 p. m.
- Indian Territory Building—Open daily, 9 a. m. to 6 p. m.
- Ohio Building—Open daily, 8 a. m. to 6 p. m. Smoking and rest rooms at disposal of guests.
- Michigan Building—Open daily, 9 a. m. to 6 p. m.
- Missouri Building—Open from 8 a. m. to 10 p. m. daily to every one. Orchestra music: Tuesday, Thursday, Friday, from 10 a. m. to 12 m., and 3 to 5 p. m. Vocal music: Monday, Wednesday, Saturday, from 2 p. m. to 3 p. m., and 4 p. m. to 5 p. m. Every convenience.
- Oregon Building—Open from 8 a. m. to 6 p. m. daily. Fine display of Indian robes, blankets, shawls, etc.
- Illinois Building—Open daily, 9 a. m. to 6 p. m.
- Iowa Building—Open 9 a. m. to 6 p. m. Informal at home receptions first and third Mondays of the month from 7:30 to 10 p. m. Sunday, sacred concerts and song service, from 4:30 to 5:30 p. m. Daily pipe organ recitals, from 9:30 to 10:30 a. m. and from 4:30 to 5:30 p. m., by Mason Slade, organist. State days, June 17 and 18.
- New Jersey Building—Open from 9 a. m. to 6 p. m.
- Connecticut Building—Opens daily at 9 a. m. and closes at 6 p. m.
- South Dakota—Open daily, 9 to 6 o'clock. Special reception first and third Fridays in each month, 3 to 6 o'clock.
- Rhode Island Building open from 9 a. m. to 6:30 p. m. until further notice. The only State Building with a roof garden.
- Texas Building—Open daily to visitors from 8:30 a. m. to 6 p. m.

## Exhibit Palaces Open.

All exhibit palaces of the Exposition are open from 9 a. m. until sun down. The Art Palaces are open on Tuesday and Friday until 10 p. m. The U. S. Government Building is open from 9 a. m. to 6 p. m.

Foreign buildings are not generally open to the public, but cards of admission may be obtained by making requests of commissioner through the mails.

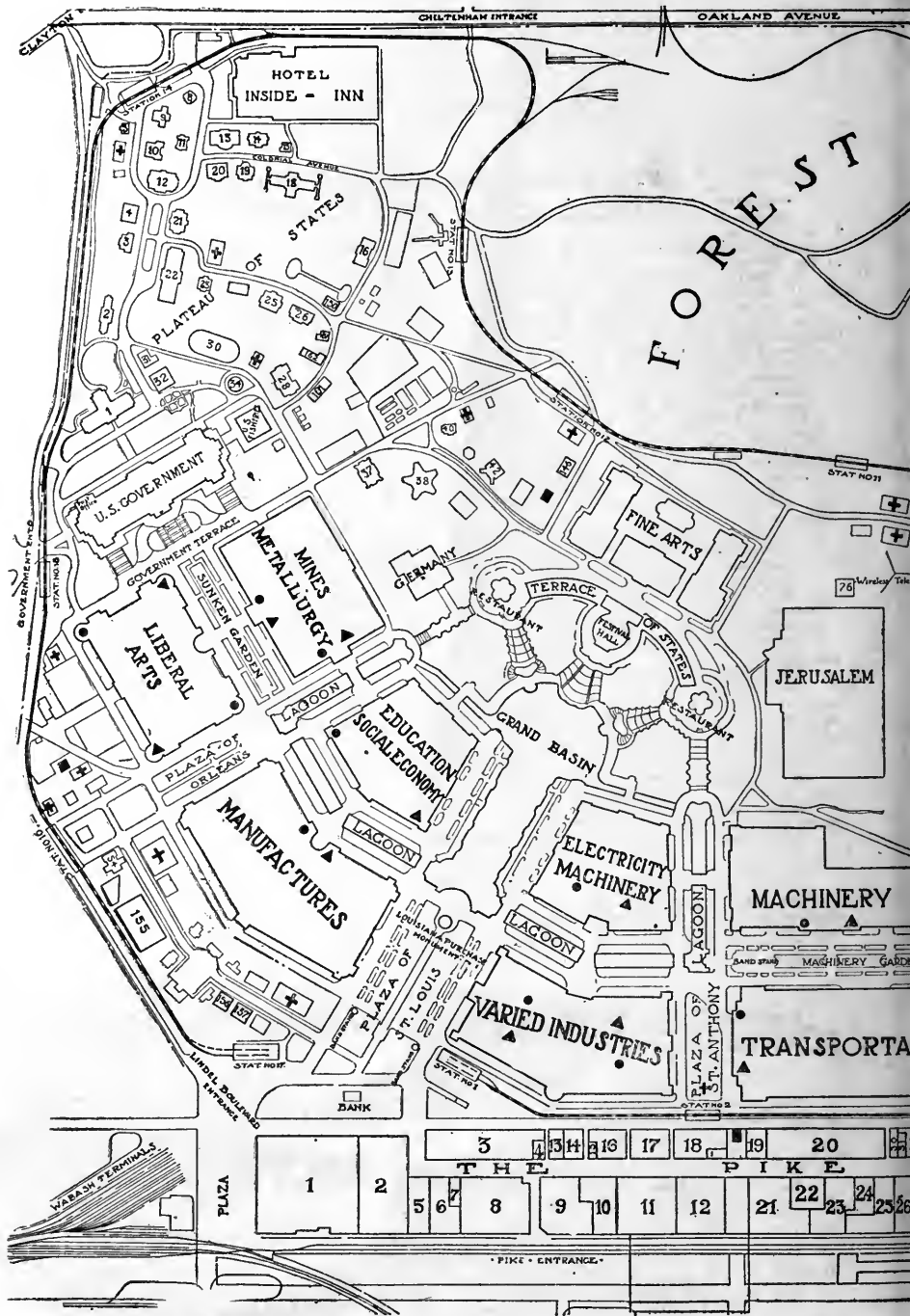
## Jubilees Presents.

A selection of the 1887 and 1897 Jubilee presents of Queen Victoria, and a collection of saddlery presented to King Edward VII. by Indian Rajas and Princes. Administration Building, 10:00 a. m. to 6:00 p. m.

## MODEL STREET DIRECTORY.

The structures located on either side of the Model Street, beginning at the grand central avenue, the Plaza of St. Louis, and going up one side of the street and down the other, is as follows:

- The American Inn, dining hall.
- Casino, Kansas City.
- Twin-City Building, Municipal Exhibit, Minneapolis and St. Paul.
- Model Town Hall, furnished to show the best methods and will contain municipal improvement statistics exhibits.
- Rice Kitchen.
- Vienna Cafe.
- Emergency Hospital. Cases of accident and sudden illness will be treated free.
- Model Play Ground, equipped with swings, see-saws, drinking fountains, lockers and dressing rooms.
- Bungalow Tea House.
- San Francisco Casino.
- New York Pavilion, showing models of the new subway and of the big New York bridges, parks and play grounds.
- I. C. S. Guild Hall.—10 a. m., hourly demonstrations of teaching French, German and Spanish by Edison phonograph. 1:30 p. m., hourly demonstrations of teaching English to Foreigners by Edison phonograph.



- |                           |                         |                  |                   |        |
|---------------------------|-------------------------|------------------|-------------------|--------|
| 1 Tyrolean Alps           | 5 Under & Over the Sea  | 9 Fair Japan     | 13 Glass Weavers  | 17 Par |
| 2 Irish Industr'l Exh'b't | 6 Spanish Bull Fight    | 10 Ancient Rome  | 14 Moorish Palace | 18 Pal |
| 3 Mysterious Asia         | 7 Hunting in the Ozarks | 11 Old St. Louis | 15 Statistcum     | 18 Bab |
| 4 Temple of Mirth         | 8 Hagenbeck's Animals   | 12 Creation      | 16 Hereafter      | 20 Caf |

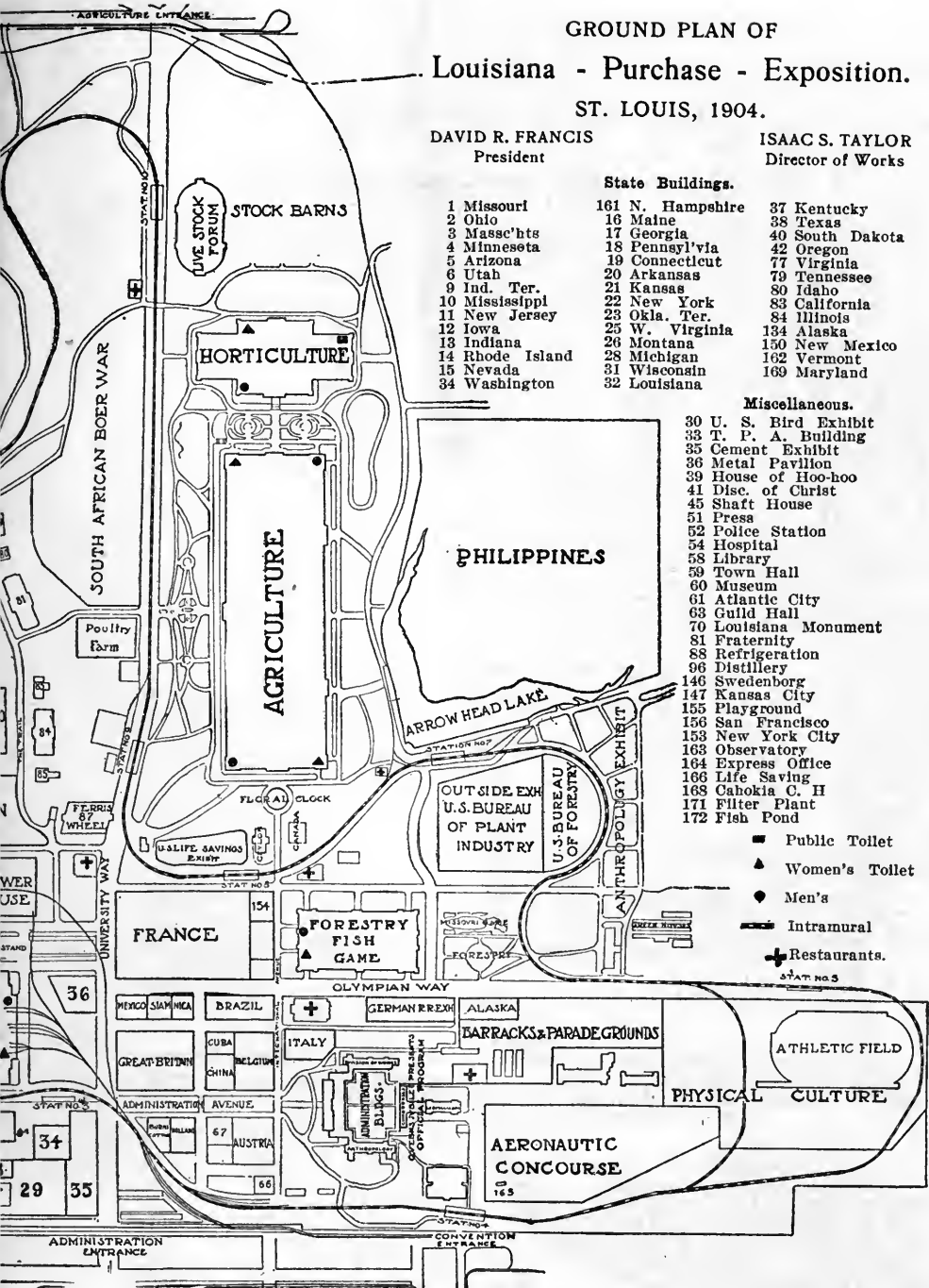
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# GROUND PLAN OF Louisiana - Purchase - Exposition.

ST. LOUIS, 1904.

DAVID R. FRANCIS  
President

ISAAC S. TAYLOR  
Director of Works



### State Buildings.

- |                 |                  |                 |
|-----------------|------------------|-----------------|
| 1 Missouri      | 161 N. Hampshire | 37 Kentucky     |
| 2 Ohio          | 16 Maine         | 38 Texas        |
| 3 Mass'chts     | 17 Georgia       | 40 South Dakota |
| 4 Minnesota     | 18 Pennsylv'ia   | 42 Oregon       |
| 5 Arizona       | 19 Connecticut   | 77 Virginia     |
| 6 Utah          | 20 Arkansas      | 79 Tennessee    |
| 9 Ind. Ter.     | 21 Kansas        | 80 Idaho        |
| 10 Mississippi  | 22 New York      | 83 California   |
| 11 New Jersey   | 23 Okla. Ter.    | 84 Illinois     |
| 12 Iowa         | 25 W. Virginia   | 134 Alaska      |
| 13 Indiana      | 26 Montana       | 150 New Mexico  |
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| 15 Nevada       | 31 Wisconsin     | 169 Maryland    |
| 34 Washington   | 32 Louisiana     |                 |

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- 33 T. P. A. Building
- 35 Cement Exhibit
- 36 Metal Pavillon
- 39 House of Hoo-hoo
- 41 Disc. of Christ
- 45 Shaft House
- 51 Press
- 52 Police Station
- 54 Hospital
- 58 Library
- 59 Town Hall
- 60 Museum
- 61 Atlantic City
- 63 Guild Hall
- 70 Louisiana Monument
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- 88 Refrigeration
- 96 Distillery
- 146 Swedenborg
- 147 Kansas City
- 155 Playground
- 156 San Francisco
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- 163 Observatory
- 164 Express Office
- 166 Life Saving
- 168 Cahokia C. H
- 171 Filter Plant
- 172 Fish Pond

- Public Toilet
- ▲ Women's Toilet
- Men's
- Intra-mural
- + Restaurants.

### THE PIKE

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| Costume | 21 Russian Theater  | 25 Constantinople | 29 Naval Exhibit  | 33 Battle Abbey       |
| ators   | 22 Siberian Railway | 26 Cliff Dwellers | 30 Pop Corn       | 34 Galveston Flood    |
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|         | 24 Deep Sea Divers  | 28 Scenic Railway | 32 Old Plantation | 36 To the North Pole  |

## U. S. GOVERNMENT BUILDING—SPECIAL EXHIBITS—ALL FREE.

## Daily Program.

- 9:00 a. m. Buildings open to 6 p. m.  
 9:30 a. m. Operation Submarine Mines, Artillery Corps, U. S. War Sec. Every hour thereafter.  
 10:00 a. m. Biograph, Naval Section.  
 Feeding hour for seals, U. S. Fisheries.  
 Small arms cartridge makers, U. S. Mint. Every 45 minutes thereafter.  
 10:30 a. m. Illinois launched. Model dry dock.  
 Biograph and Stereopticon, Yosemite Valley, Interior Department Section.  
 Field Signal Demonstrations, Hellographs.  
 Flags, Lanterns, U. S. Signal Corps, Outside, War Section.  
 11:00 a. m. Biograph, Naval Section.  
 Wireless Telegraphy, Patent Office Section, Inside.  
 Wireless Telegraphy, U. S. Signal Corps.  
 11:30 a. m. Radium Demonstrations, Roentgen Rays, Interior Department.  
 12:00 m. Biograph, Naval Section.  
 1:00 p. m. Biograph and Stereopticon, Indian Life, Interior Department Section.  
 1:30 p. m. Biograph, Naval Section.  
 2:00 p. m. Biograph and Stereopticon, Indian Life, Interior Department.  
 2:30 p. m. Biograph, Naval Section.  
 Old Kearsage in Floating Dry Dock.  
 3:00 p. m. Field Signal Demonstrations.  
 Hellographs, Flags, Lanterns.  
 U. S. Signal Corps, Outside, War Section.  
 Feeding hour for large birds, U. S. Bird Cage.  
 Radium Demonstrations, Interior Section.  
 3:30 p. m. Biograph, Navy Section.  
 4:00 p. m. Biograph and Stereopticon, Irrigation, Indian Life, Interior Department.  
 Wireless Telegraphy, U. S. Signal Corps, War Section, Outside.  
 Feeding hour for seals, U. S. Fisheries.  
 4:30 p. m. Biograph, Naval Department.  
 5:00 p. m. Biograph and Stereopticon, Grand Canyon of Colorado, Interior Department Section.

## U. S. LIFE SAVING SERVICE DRILL.

Free exhibitions of the U. S. Treasury Department Life Saving Service take place daily on the lake, foot of Agricultural Hill, at 2:15 p. m. Life Saving Station open for visitors 9:00 to 5:00 p. m. daily. Attendants are present to explain apparatus and appliances used in the ocean and lake Life Saving Service. Following is the program:  
 2:30 p. m.—Drill begins, as follows: Surf boat drill; beach apparatus drill, showing method of rescuing people from stranded vessels by breeches buoy; rescue of drowning persons, showing method of rescuing; self-bailing and self-righting properties of the life boat; surf boat, etc.

## World's Fair Mail Service.

Exposition Post Office, Government Building. Frank Wyman, Postmaster; Otto Gemmer, Superintendent.

## Collections.

Automobile Service.—On main picture, 9 a. m., 10:30 a. m., 2:45 p. m., 4 p. m., 5 p. m., 6 p. m., Sundays and holidays, 4 p. m.

Mounted Service.—All other parts of grounds, 9 a. m., 10 a. m., 3 p. m., 5 p. m. Sundays and holidays, 3 p. m.

Night collections are made from box located at Inside Inn at 7 and 10 o'clock.

Deliveries.—By carrier, 8 a. m., 10:30 a. m., 3:30 p. m.

Sub-Stations.—Stamps, domestic money orders or registered letters open from 9 a. m. to 6 p. m. at Postal News Stations in Education, Palace, Manufactures, Varied Industries, Inside Inn, Mines and Metallurgy, Liberal Arts, Transportation, Machinery, Electricity, Fraternity, Agriculture.

## ANTHROPOMETRY AND PSYCHOMETRY—PHYSICAL AND MENTAL MEASUREMENTS.

Under direction of Department of Anthropology. Dr. WJ. McGee, Chief; Dr. R. S. Woodworth, Superintendent; Mr. Frank G. Bruner, Assistant Superintendent. Anthropology Building, first floor. Free to all visitors, 10:00-4:00 daily.

## U. S. GOVERNMENT INDIAN SCHOOL EXHIBITS.—All Free.

Building located on Indian Hill, near western side of Fair grounds, on Olympian Way, between Stations 6 and 7 (going west) or 5 and 6 (going east) of the Intramural Railway. Open to visitors from 9 a. m. to 5 p. m.

Industrial Work on one side of the main hall of the building is done by Indian students from the Government schools, Genoa, Haskell, Chilocco Kindergarten, Outdoor Work.

In contrast to this work done by the students, the Industrial Work on the other side of the hall is done by the blanket Indians, in stalls set apart for them, in exactly the same manner as on the Reservation where they live. Sioux, from Rosebud Reservation, S. D. Apache Group, from the White Mountain Reservation, N. M. Jicarrilla Apache Group, from Dulce, N. M. Navajo Group, from Navajo reservations, N. M. and Ariz. Pueblo Group, from San Juan and Acoma, N. M. Arapaho Group, from Cheyenne and Arapaho reservations, Oklahoma. Wichita Group, from Wichita Reservation, Oklahoma. Maricopa-Pima Group, from Sacaca, Ariz. Pomo Group, from Mendocino County, Cal.

## POINTS OF INTEREST—INTRAMURAL RAILWAY.

**Station No. 1—**

Bank and Safe Deposit. Cascades.  
Express Offices. Grand Basin.  
Plaza of St. Louis. Automobile Stations.  
Main Entrance and Exit.

**Station No. 2—**

Electricity Building.  
Varied Industries Building (West End).  
Transportation Building (East End).  
Machinery Building.

**Station No. 3—**

Administration Building.  
Administration Entrance and Exit.  
Foreign Government Buildings.

**Station No. 4—**

Aeronautic Concourse (Air Ship Exhibit).  
Anthropology, Inside Exhibit.  
Daily Official Program Office.

**Stations 5 and 6—**

Barracks and Parade Grounds.  
Anthropology, Outdoor Exhibit.  
Athletic Field, Gymnasium.  
County Entrance and Exit.

**Station No. 7—**

Anthropology, Outdoor Exhibit.  
Arrow Head Lake.  
Forestry, Fish and Game, Outdoor.  
Missouri Wild Game.

**Station No. 8—**

Agriculture Building. Floral Clock.  
Forestry, Fish and Game Building.  
Foreign Government Buildings.

**Station No. 9—**

Agriculture Building. Rose Gardens.  
California Building.  
Fraternity Building.

**Station No. 10—**

Agriculture Entrance and Exit.  
Market Cars (Loop).  
Georgia Building.

**Station No. 11—**

Festival Hall. Fine Arts Building.  
Terrace of States. Cascades.

**Station No. 12—**

Fine Arts Building.  
Plateau of States. Germany Pavilion.  
House of Hoo Hoo.

**Station No. 13—**

Cheltenham Entrance and Exit.  
Coal Mining and Coal Testing.  
Inside Inn (Rear). Plateau of States.

**Station No. 14—**

Laclede, Market, Taylor Cars.  
Inside Inn Entrance. Plateau of States.

**Station No. 15—**

U. S. Fish Pond and Bird Cage.  
Government Building Entrance and Exit.  
Government Hill. Guns and Coast Defences.  
Liberal Arts Building. Sunken Gardens.

**Station No. 16—**

Emergency Hospital.  
Liquid Air Exhibit.  
Manufactures Building (East End).  
Social Economy, Outside Exhibit.  
Model Street (East End). Model Playground.

**Station No. 17—**

Main Entrance. Delmar and Olive Cars.  
Festival Hall. Cascades.  
Electricity Building. Education Building.  
Grand Basin.  
Model Street (West End). Town Hall.  
Suburban Cars (Main Line).

Louisiana Purchase Monument.  
Delmar, Olive and Suburban Cars (Main).  
Varied Industries Building (East End).  
Wabash Depot and Terminals.

Marchinery Gardens, Band Stand.  
Easton Avenue Cars.  
Pike Entrance (Center).  
Plaza of St. Anthony.

Machinery Building, Power House.  
Suburban Cars (Skinker). Page Ave. Cars.  
Transportation Building (West End).

Hall of Congresses. Convention Hall.  
Clayton and Kirkwood Cars.  
Photo Pass Gallery.

Queen's Jubilee Gifts.  
Olympic Games and Baseball.  
U. S. Indian School.

Philippines Encampment.  
Tree Planting Exhibits.  
U. S. Bureau of Forestry.  
Giant Plant Map.

U. S. Life Saving Exhibit Lake.  
Ceylon Pavilion. East India Pavilion.

Lincoln Exhibit.  
Illinois Building.  
Refrigerating Plant.

Idaho Building.  
Virginia Building.  
Live Stock Arena.

Disciples of Christ.  
Wireless Telegraphy.

Mining Gulch (North End).  
Terrace of States. Cascades.  
Government Terrace.

Missouri Pacific-Frisco Depot.  
Norway Cabin.  
Mining Gulch (South End).

State Building Entrance and Exit.  
U. S. Bird and Fish Exhibit.

Mines and Metallurgy Building.  
U. S. Government Building.  
U. S. Marine Corps Camp.

Liberal Arts, Outside Exhibits.  
Plaza of Orleans.  
Parade Entrance and Exit.  
Press Building.  
U. S. Field Hospital.

Louisiana Purchase Monument.  
Manufactures and Varied Industries Buildings.  
Plaza of St. Louis.  
Town Hall.  
Wabash Depot and Terminals.  
Automobile Station.

### U. S. Marines.

Two companies of U. S. Marines are in Camp Haywood, east of the Liberal Arts Palace, where they form an exhibit of the U. S. Government, showing camp life, hospital drills and tactics. The men are just returned from the Philippines. Organization:

Major J. E. Mahoney, commanding; 1st Lieut. H. C. Reisinger, Adjutant; Past Assistant Surgeon T. J. Kennedy, U. S. N.; Co. A: Capt. W. H. Clifford, 1st Lieut. F. E. Landon and 99 enlisted men; Co. B: Capt. A. S. Williams, 1st Lieut. F. Halford and 96 enlisted men. Hospital staff, 1 steward, 2 apprentices.

5 25 a. m.	First Call for Reveille.	9:45 a. m.	Recall from Drill.
5:30 a. m.	Reveille.	10:05 a. m.	First Call for Guard Mount.
5:45 a. m.	Assembly for Drill (and Reveille Roll Call).	10:10 a. m.	Guard Mount at Camp.
6:00 a. m.	Physical Drill and Bayonet Exercise.	10:30 a. m.	Inspection.
6:20 a. m.	Recall from Drill.	11:00 a. m.	N. C. O.'s School.
6:30 a. m.	Mess Call.	11:45 a. m.	Drum First Call for Dinner.
7:00 a. m.	Breakfast.	11:50 a. m.	Assembly for Mess.
7:40 a. m.	Police Call.	1:00 p. m.	Police Call.
7:45 a. m.	Sick Call.	4:45 p. m.	First Call for Parade.
7:55 a. m.	First Call for Colors.		Tuesdays and Thursdays, Plaza of St. Louis.
	Troop Drill, Daily, Plaza of St. Louis.	4:55 p. m.	Assembly.
8:00 a. m.	Colors.	5:45 p. m.	Drum. First Call for Supper.
8:15 a. m.	Recall from Police.	5:50 p. m.	Assembly for Mess.
8:40 a. m.	First Call for Troop and Drill.		Ten minutes before Sundown. First Call for Retreat.
8:50 a. m.	Troop, followed by Drill.	11:00 p. m.	Taps.

Troop Drill varies. Skirmish, Battalion Drill, occurring on the Plaza of St. Louis from 8 to 10 a. m. Parade occurs daily, alternating on the Plaza of Orleans and the Plaza of St. Louis, from 4 to 5 o'clock.

### Vatican Treasures.

Francesco Cagliati, Special Commissioner from the Vatican, is in charge of the Vatican World's Fair exhibit. The Vatican exhibit, located in the Anthropology Building, is part of the exhibit in the Department of History.

The soloist for the next orchestral concert at Festival Hall, Friday, June 17, at 4:30 p. m., is the famous Portuguese operatic baritone, Don Francisco de Souza Continho, son of the Marquis de Borbe, the Chamberlain of the King of Portugal and chief officer of the Royal house. The Marquis married the Marchioness de Valenca of the royal blood of Brazanza, whose ancestry is said to be of the noblest and most ancient, dating from the 12th century. Don Francisco, who completed his studies under Campanini and other great masters, has sung at the Royal Opera House in Lisbon, at the courts of Berlin, Madrid and other European capitals. At Festival Hall next Friday Mr. de Souza will sing the prologue of Leon Cavallo's opera "Pagliacci" and the "Parisiana" from "Rigoletto."

A Kickapoo Bark hut is a feature of the Indian exhibit. The hut is 12 by 15 feet, built in a circular shape, with sides and top made of slabs of bark 3 feet long and a foot wide, which is woven into the pole framework of the building, and tied with thongs and rope. The Kickapoo tribe will occupy the hut, practicing their arts, basket weaving and bead work.

A Fishery exhibit is being installed in the Alaskan Building. The exhibit will include native boats, (Kyaks) spears, harpoons, lines, nets and curios of the salmon fisheries. Salmon cooked in various styles will be served to visitors.

Georgia will dedicate the building erected to represent that state on June 21.

Cuba's pavilion will be dedicated during the last week of June.

### Mining Gulch.

Following is the location of the several attractions in the Mining Gulch southeast of the Palaces of Mine and Metallurgy. On the east side proceeding southward:

Model pottery, manufacturing pottery of all kinds from the clay, showing washing processes, moulding, decorating and firing.

Model well-drilling outfit, in operation showing methods of sinking oil and artesian wells.

Model mining pump plant, showing hydraulic pumps, low and high pressure, operated by both steam and electricity. A turbine-hydraulic pump throws a stream of water, 450 gallons per minute, under pressure of 250 pounds per square inch against bank to show how hills are cut down in placer mining.

New Mexico's turquoise mines, with miners in native garb working the mine. The gems are shown in process from the bank through the polishing machinery to the market. Turquoise bearing rocks are shown in abundance.

Model of the mammoth Crystal Cave of the Black Hills.

Mine ventilating fan with a capacity of 75,000 cubic feet of fresh air per minute in operation, showing how fresh air is introduced to deep mines.

Pennsylvania anthracite mine exhibit, where visitors may inspect every detail in anthracite coal mining.

Primitive copper mine, showing method of Mexicans before the Spanish invasion. This miniature mine is operated by natives, who practice secret processes.

Arizona mountain gold mining camp, complete in every detail, including the Arizona Gold Belt Railroad, operated by electricity, showing actual conditions from the "find" of the lucky prospector until the mine has become fully developed.

Pyramid covered with the mineral products of the state, shows the mineral resources of Tennessee.

Complete lead and zinc mine, represents one of Missouri's greatest sources of wealth.

A concentrating mill shows how ores are cleaned, crushed and separated.

California shows both the wet and dry methods of gold mining and stamping, with a cyanide and gold reduction plant in operation.

Tramway, such as is used in mines for the carrying of ores through tunnels.

A large exhibit of pump and drills for prospecting for minerals, oil and gas, and for sinking artesian wells.

Complete gold reduction plant, consisting of a five-stamp mill, amalgamation plates, cyanide plant and concentrating tables operated eight hours a day. Fifteen hundred tons of Black Hills ore, shipped to World's Fair for the purpose, fully illustrates the most modern practice.

### Patent Office Exhibit.

The Interior Department has a section in the Government Building devoted to the patent office with purpose to illustrate the function of the Government for protection of inventors and for the promotion of progress in science and arts. The work of the patent office is illustrated by a few actual operating inventions which show remarkable ingenuity, striking examples of the application of scientific principles to useful commercial purposes, as follows:

**Color Printing.**—Invention for imitating colors of nature in printing by "mixing" colors, super posing one transparent color upon another, crimson, red, yellow or blue, in separate impressions. Specimens free.

**Color Photography.**—Ives Kromskops.—Invention for reproduction of colors of nature in photographs by means of separate color-negatives, of the object. By these separate color-negatives are recombined with startling realism by the Kromskops, which are freely available to visitors.

**Wireless Telegraph.**—Invention to enable messages to be transmitted between stations by telegraph without the use of wires, fully illustrated by instruments on view. The messages pass through the walls of the building from the patent office space to other points of the grounds. An accepted theory of wireless telegraph states that the surging electric charges between the spark gap causes the current to flow up the sending mast in the form of vortex rings in the hypothetical ether filling all space, and that these rings expand in all directions, reaching the distant station without wires and in a greatly attenuated condition. At the receiving station, the aerial receiving conductor constitutes an obstruction to a portion of the vortex ring, or ether wave, and therefore the latter, in part, follows down the mast, passes through the receiving instrument and causes a signal to be sounded.

**Poulsen's Telegraphone.**—This invention enables one to record sound waves on a steel wire by talking through a distant telephone. The wire may be sent by mail and is recorded and reproduced at any subsequent time.

**How It Is Done.**—The traveling steel band contacts with the recording magnet which is in circuit with the transmitting telephone. Each sound wave uttered at the transmitter causes a distinct current to traverse the coils of the magnet, and the latter to locally magnetize the steel band. The magnetized portions of the band correspond accurately with the sound waves both in frequency and intensity. Therefore, when these magnetized portions are carried past the poles of other magnets in circuit with telephone receivers, currents corresponding with these magnetized portions, and therefore with the original sound waves, are generated in the receiver circuits by induction. These induced currents, of course, reproduce the original speech, in each separate telephone receiver.

In all cases the original record may be obliterated and the wire or band used over again by passing the magnetized wire between the poles of a strong obliterating magnet.

Many hundreds, or even thousands, of reproductions of the original speech may be obtained from the same record, and since the only connection between the record and reproducer is an inductive one, no foreign sounds are generated, and therefore the clearness of the reproduction is astonishing.

The public may freely use these machines under the direction of the attendant, and any proper questions will be cheerfully answered.

# THE

German Tyrolean Alps	Irish Village	Mysterious Asia				Moving Pictures	Moorish Palace	Glass Hereafter	French Village
		Over And Under the Sea	Streets of Seville	Hagenbecks	Fair Japan	Ancient Rome	Old St. Louis		

Tyrolean Alps, 25 cents, 15 cents. Restaurant. Oberamer gau panorama, 25 cents. Scenic view of the Alps. Tyrolean Singers.

Irish Industrial Village, 25 cents, 15 cents. Industrial exhibit, Blarney Castle, Booths and Bazaar. Theater, 2:00, 4:00, 7:45 and 9:15 p. m. Relics of famous Irishmen.

Spanish Theater at Streets of Seville, 25 cents. Spanish dancing. Every half hour.

Mysterious Asia and Empire of India, 15 cents and 10 cents. Theater every hour. Oriental dancers. Royal Hindoo Theater every hour, 25 cents. Hindoo Museum, 10 cents. Camels, elephants, llamas, sacred cattle rides, 15 cents.

Habenbeck's Zoological Paradise and Animal Circus, 25 cents. Circus every half hour, 25 and 50 cents; 10:30 a. m. to 10:30 p. m.

Statisticum. Moving objects, illustrating economic conditions in the world, 10 cents.

Moorish Palace. Scenic tableau, historic views, poetic subjects, 25 cents. 15 cents.

Hunting in the Ozarks, shooting gallery. Seven shots, 20 cents.

Japanese Village, Garden and Theater every hour in the evening, 25 cents, 15 cents. Tea house, 10 cents; Sanpan, 10c; Jlnrickahas, 10 cents.

Ostrich Farm, admission 10 cents, from South Pasadena, California; 30 ostriches. Black demon racing ostrich. Ostrich plumes on sale.

Hereafter. Glimpses of Paradise and Purgatory. Communion with the departed; an illusion, 25 cents.

Palais du Costume, 25 cents, 15 cents. Historic tableaux. Light vaudeville entertainment; vocal; instrumental. Afternoon, 3:30, 4:30; evening, 8:00, 9:00 and 10:00 o'clock.

Creation, 50 cents, 25 cents. Aquarama; moving platform; panorama of creation of the world; lecture on creation every hour, under the blue dome. Grottos with scenic illusions.

Cummings' Wild West, 50 and 25 cents; American Indian tribes; realistic scenes of life on the plains; Indiana at work and play; Noted Indian Chiefs; Lacross game between Iroquois and Ojibways; every 1½ hours until 11:00 p. m.

Russian Theater; native dances and songs; 50 performers, 25 cents, 15 cents; free entrance from Theater to Village.

Siberian Railway; panoramic trip to Fort Arthur; trains every half hour; fare 25 cents, 15 cents. Free entrance to Russian Village.

Russian Village to open June 15; admission 10 cents.

Chinese Village; open June 16; 25 cents, 10 cents; theater, 25 cents; Chinese drama every half hour; Joss House 10 cents; carlos booths; Chinese restaurant; tea house; roof garden; Chinese kitchen.

Constantinople; free booths; theater, 25 cents; dancing girls.

Cairo 10 cents; theater 25 cents; dances; camel rides 20 cents; donkey rides 10 cents.

Deep Sea Diving, 15 cents, 10 cents; realistic display of life of the diver every half hour.

Esquimaux Village, Alaska natives of Arctic Coast, 25 cents, 15 cents; reindeer and dog trains 10 cents; ice floes; huts; games and pastimes.



# PIKE.

Boer
War Exh
Observation
Wheel
New York
to N. Pole

Poultry Farm.

Paris du Costume	Public Toilet	Baby Incubator	Cairo				Pop Corn	Jim Key	Old Plantation	Battle Abbey	Bohemian Rest.	Galveston Flood	Hale's
Creation	Indian Congress	Russian Troupe	Deep Sea Divers	China	Alaska	Cliff Dwellers	Water Chutes	Scenic Ry.	Naval Exhibit	Fire Fighters			
				Siberian Railroad	Constantinople	Magic Whirlpool							

Baby Incubators, 25 cents; scientific exhibit of mechanical device for saving life; nurses and physicians in attendance; the famous speller, Col. Donaldson on duty.

Cliff Dwellers; open all day, 25 cents. Genuine Indiana from the painted district in Snake dances; theater, 25 cents; curios and native homes and customs illustrated; lecturers in attendance. King of the Midway in charge.

Old Plantation, 15 cents; genuine scenes in the cotton fields; negro songs and dances every half hour.

L. A. Thompson's Scenic Railway; fare 10 cents; longest and finest in the world; a ride of three miles; panoramas en route; two different routes.

Naval Show, 25 cents, 15 cents; realistic display of naval warfare by actual ships in engagement; performances at 4, 6, 8 and 10 o'clock; Saturdays 4, 6, 8, 9, 10 and 11 o'clock.

Hale's Fire Fighters, 25 cents; a real fire in Greater New York; life of the fire laddies; midnight rescue; 3, 8 and 9:30 daily; Saturdays 2, 4, 8 and 9:30 o'clock.

Jim Key, 15 cents and 10 cents; educated horse in continuous exhibitions of intelligence and comprehension.

Battle Abbey, 25 cents and 15 cents; scenic representation of great battles of American history by panorama; continuous until 11 p. m.

Galveston Flood, 25 cents and 15 cents; view of Galveston and the awful tidal destruction with scenic and electric effects; continuous.

New York to the North Pole, 25 cents and 15 cents; Ice bound in the Arctics; Aurora Borealis; Land of the Midnight Sun; wonderful sunlight effects; continuous.

Old St. Louis, 25 cents and 15 cents; arena with realistic scenes of life in old St. Louis; original settlers; cabins; every hour all day.

Under and Over the Sea, 50 cents; a trip to Paris in a submarine boat and return in an air ship; every half hour.

Glass Weavers, 25 and 15 cents.

Miniature Railway, fare 10 cents.

Launches, 50 and 25 cents.

Colorado Gold Mine, 10 cents.

Poultry Farm, 25 and 15 cents.

Lincoln's Log Cabin, 15 and 10 cents.

Old Virginia Homestead, 25 cents.

Old Cahokia Homestead, 25 cents.

Temple of Mirth, 10 cents.

Paris, 25 cents.

Coal Mine in the Gulch, 25 and 10 cents

Grant's Log Cabin, 10 cents.

Observation Wheel, 50 cents.

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Estill Family Reunion, 17th. Paxton Family Reunion, 29th.  
General George Rogers Clark Day, 24th.

ILLUMINATION HOUR.

The Exposition rule is to illuminate the grounds and buildings daily at dusk and continue the illumination until 10 p. m. and 11 p. m. on Saturdays. The Cascades are operated at 11 a. m., 2 p. m., 3 p. m., 5 p. m. and 8 p. m. Illumination of Cascades 8:30 to 10:00 p. m. daily. The Weather Bureau Station, U. S. Government Building, has supplied the following data as to the exact hour for dusk:

June 16, 7:27 p. m. June 18, 7:28 p. m.  
June 17, 7:28 p. m.

Nebraska Biograph Exhibit.

The Biograph Theater in Nebraska's exhibit in the Palace of Agriculture. Every half hour entertainments are given.

10:00 a. m. General farming scenes.	3:00 p. m. Range scenes.
10:30 a. m. Cattle scenes.	3:30 p. m. Beet sugar farming scenes.
1:00 a. m. Range scenes.	4:00 p. m. Dairy scenes.
11:00 a. m. Range scenes.	4:30 p. m. Orchard scenes.
2:00 p. m. General farming scenes.	5:00 p. m. Nebraska as seen from a railroad train.
2:30 p. m. Cattle scenes.	

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