Forty-Third
Summer Convention
of the
American Institute of
Electrical Engineers

Program

Book-Cadillac Hotel
Detroit, Michigan

June 20-24, 1927
CONDENSED PROGRAM (Men)

Monday, June 20
9:00 A.M. Registration
10:00 A.M. Section Delegates Meeting
12:30 P.M. Section and Branch Delegates Luncheon
2:00 P.M. Section Delegates Meeting
4:00 P.M. Branch Delegates Meeting
8:30 P.M. Dancing (informal)

Tuesday, June 21
9:00 A.M. Registration
10:00 A.M. Mayor's Address, President's Address and Presentation of Prizes
10:30 A.M. Technical Session
2:00 P.M. Sports and Trip
8:00 P.M. Lecture by Dr. Compton
9:30 P.M. Reception and Dance (informal)

Wednesday, June 22
9:30 A.M. Technical Sessions
1:30 P.M. Trip to Trenton Channel
2:00 P.M. Sports and Trips
6:45 P.M. Banquet (informal)

Thursday, June 23
10:00 A.M. Technical Sessions
12:30 P.M. Past-Presidents' and Directors' Luncheon
2:00 P.M. Sports and Trip
5:15 P.M. Recital by Prof. Karapetoff
8:15 P.M. Lake Ride

Friday, June 24
10:00 A.M. Technical Sessions
CONDENSED PROGRAM (Ladies)

Monday, June 20
3:00 P.M. Tea
8:30 P.M. Dancing (informal)

Tuesday, June 21
10:00 A.M. Mayor's and President's Addresses
10:30 A.M. Sightseeing Trip
9:30 P.M. Reception and Dance (informal)

Wednesday, June 22
1:30 P.M. Trip to Trenton Channel
6:45 P.M. Banquet (informal)

Thursday, June 23
9:45 A.M. Drive and Luncheon
2:00 P.M. Matinee
5:15 P.M. Recital by Prof. Karapetoff
8:15 P.M. Lake Ride
A. I. E. E. Summer Convention

TECHNICAL FEATURES

The technical sessions of this convention are outlined in subsequent pages of this program. Other technical features are the Lecture by Prof. K. T. Compton and the symposium on Television, which are described below, and the inspection trips described fully elsewhere.

Lecture By Prof. K. T. Compton

The "Nature of the Electric Arc" is the subject of the lecture by Prof. K. T. Compton of Princeton University, President of the American Physical Society. This lecture will be given at 8:00 P.M. Tuesday, June 21, in the Italian Garden or the Grand Ball Room, as announced.

Television Symposium and Demonstration

A symposium on "Television" led by Dr. Herbert E. Ives of the Bell Telephone Laboratories, Inc., will be presented as the last event in the technical session (A) on Thursday morning, June 23, in the Crystal Ball Room. Dr. Ives will discuss the principles of the apparatus which has been developed for viewing moving objects at a distance by means of electrical transmission. He will cover the principal points in the five papers on this subject which have been prepared for this meeting.

Subsequent to the symposium, operating demonstrations of the television equipment will be made at convenient hours in a store on the first floor of the Book-Cadillac Hotel.
SOCIAL FEATURES

On Monday evening, June 20, at 8:30 P.M., there will be an informal dance in the Crystal Ball Room.

President’s Reception and Dance

*(Informal)*

The President’s reception, followed by dancing, is scheduled for Tuesday evening at 9:30 o’clock in the Grand Ball Room. A group of young ladies has been invited to act as hostesses for the dance. There will also be other entertainment in addition to dancing.

Convention Banquet *(Informal)*

On Wednesday evening at 6:45 o’clock will be held the convention dinner, at which three interesting speakers will talk. Alex Dow, President of the Detroit Edison Company, will preside as chairman, and C. F. Hirshfeld, Chief of Research of the Detroit Edison Company, will be toastmaster. Addresses will be made by C. F. Kettering, Vice-President of the General Motors Corporation, who will speak on some phase of the automobile industry; by W. B. Stout, President of the Stout Metal Airplane Division of the Ford Motor Company, on “Commercial Aviation”; and C. M. Newcomb, lecturer, psychologist, and humorist, of Cleveland, Ohio, on “The Psychology of Laughter.” Music will be furnished by the Book-Cadillac Hotel orchestra.

Tickets should be obtained at the registration desk ($4 per person). Reservations may be made at the registration desk, where there will
be a chart showing the arrangement of tables, with table and seat numbers. Each table will seat 10 persons. Delegates to the convention are urged to make up their table parties in advance and turn in their groups to the Registration Committee.

Lake Ride and Moonlight Dance

The palatial Steamer "Tashmoo" has been chartered by the A. I. E. E. for its sole use on Thursday evening for the lake ride and moonlight dance. Leaving the dock at the foot of Griswold Street at 8:15 P.M., the steamer will travel up the Detroit River, giving a view of the downtown Detroit sky line, beautiful Belle Isle, the Canadian shore, and the Detroit-Grosse Pointe Shore, thence into Lake St. Clair. Many attractive features are planned for this lake ride, including a grand prize drawing of two electric refrigerators for the ladies; moonlight dancing to the accompaniment of Finzel's ten-piece orchestra; vaudeville entertainment, etc.

Musicale By Prof. V. Karapetoff

Prof. Vladimir Karapetoff of the Electrical Engineering Department at Cornell University, will give a recital on the five-stringed cello which he has developed, on Thursday afternoon, June 23, at 5:15 P.M., in the Italian Garden. Prof. Karapetoff will play some cello and violin selections to illustrate the possibilities of the instrument, and will also explain the various problems encountered and the manner in which they were solved.
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INSPECTION TRIPS

Three main inspection trips have been arranged and other trips may be made by individuals or groups who request arrangements from the Local Trip Committee.

Tickets for the main trips should be obtained in advance at the Registration Desk.

Sightseeing Trip Tuesday

Busses will leave the Washington Boulevard side of the Book-Cadillac Hotel Tuesday, June 21, at 2:00 P.M., and will pass many points of interest around the city, including the Masonic Temple, Public Library and Art Institute, the General Motors Building, Boston and Chicago Boulevards, the Ford Highland Park Plant, Palmer Woods, Dodge Bros., the Packard Plant and Belle Isle. The cost of this trip will be $1.00 a person. This trip will be open to the gentlemen and any of the ladies who do not participate in the Bloomfield Hills trip.

Trenton Channel Trip

Wednesday, June 22, at 1:30 P.M., a trip for both ladies and gentlemen will be made to the Trenton Channel Generating Station of The Detroit Edison Company. Department of Street Railway busses will leave the Washington Boulevard side of the Book-Cadillac Hotel for the Michigan Central Depot, where a special train will conduct the party to the Trenton Channel Power House. This plant is the latest Detroit.
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Edison Company generating station and now has installed 5 of 6 proposed 62,500-kv-a. turbo-generators. The station uses pulverized fuel. Near the switch house is an outdoor, 120,000-volt switching station, from which emanate many tower lines. This plant has carrier-current communication. For the ladies of the party there will be a tea and games on the lawn near the river. The price of the tickets to this function is $1.00 per person to cover transportation charges.

Trip To Ford Airport

On Thursday, June 23, at 2:00 P.M., an inspection trip will be made to the Ford Airport, where the members who so desire may make a 30-mile flight over the manufacturing and suburban developments of Western Detroit. An excellent view will also be obtained of the mammoth Ford River Rouge Plant, other industrial plants, the downtown sky-scrapers, Canada, the Detroit River, Belle Isle, and the suburbs. Two of the Stout 8-passenger, all-metal, airplanes will be assigned to this duty and the special rate to the convention delegates for the flights will be $5.00 per person. Flight tickets should be purchased at the Airport. An added attraction at the Airport is Ford’s Museum of Aircraft, where one can inspect the Byrd North Pole Plane, Stout’s first wooden bat-wing plane, the first metal ship, the giant three-motored all-metal
plane, the "flivver" plane and other experimental crafts, as well as airplanes of other manufacturers. The famous Ford Mooring Mast for anchoring dirigibles, can be viewed from the plane. The cost of the trip will be $1.00 per person.

Other Points of Interest

Automobile manufacturing plants: - Cadillac, Chevrolet, Chrysler, Dodge, Ford (Highland Park and River Rouge Plants), Hudson, Hupp, Lincoln, Packard, Paige, Studebaker.

The Consumers Power Company developments of hydro-plants and interconnecting lines operating at voltages up to 140,000 volts, further north in the state of Michigan, may be quite readily included in one itinerary.

Morrell Street Generating Station (60,000 kw. capacity) of the Public Lighting Commission of Detroit.

The Detroit Edison Company's Substations.

Machine Switching Office at the Michigan Bell Telephone Building, 1365 Cass Avenue.

Radio Stations: WWJ at the Detroit News; WJR of the Richards-Oakland; WCX of the Detroit Free Press, with studio and broadcasting station on the 30th floor of the Book-Cadillac Hotel. Arrangements will be made upon request for member guests to visit this station.

Belle Isle: This beautiful island in the Detroit River, two miles long and with an area of 725 acres, includes a zoo, an aquarium, athletic fields, canals, a 9-hole golf course, a bathing beach, tennis courts, acres of woodland, Detroit Boat Club and Detroit Yacht Club.

Colleges in Detroit and nearby: University of Detroit, College of City of Detroit, University of Michigan, Ann Arbor, Michigan State College at Lansing.

Book Tower at Grand River and Washington Blvd. is the city's highest skyscraper and a fine view of the city and surrounding country can be obtained from its 36th
floor. Arrangements can be made at the Registration Desk for a visit to this tower.


SPORTS

Golf

There will be golf tournaments on Tuesday, Wednesday and Thursday afternoons at the Hawthorne Valley Golf Club. On Tuesday and Wednesday first and second prizes will be awarded to the members turning in low gross and low net scores.

The 13th annual competition for the Ralph D. Mershon Cup, participation in which is limited to members of the Institute, will be held Thursday afternoon at the Hawthorne Valley Golf Club on Warren Avenue (1 mile west of Telegraph Road). This cup was donated by Past-President Ralph D. Mershon, and in the event any member wins it twice, it becomes the permanent property of that member.

A second prize will be awarded to the runner-up in this tournament.

On Thursday there will also be a “kicker’s handicap” tournament in connection with competition for the cup. A prize will be awarded the winner of this handicap.
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A prize will be awarded to the member turning in the lowest score for best selected nine holes on any one of the three days. In the event of any tied net or gross scores the committee will toss a coin to determine the winner and runner-up.

No prizes will be awarded until after play is completed on Thursday afternoon. Only one prize will be awarded to any individual competitor in these tournaments. Prizes will be awarded only on scores turned in from Hawthorne Valley Golf Club. (Wear your badge.)

Busses will leave the Book-Cadillac Hotel on the Washington Blvd. side at 12:15 and at 12:45 P.M. and will leave the club at 5:30 and 6:00 P.M. on the above mentioned days. Members may get their lunch at $1.00 per plate at the Golf Club if they desire. Green fees $1.50, caddy $1.00.

Handicaps—Players must register on cards at the Registration Desk before playing in any event. Each player must give his club handicap, his best score for this year and the par of his home course. The committee reserves the right to fix all handicaps and to withhold award of prizes pending adjustment. Individual cooperation by all players will be appreciated in this matter.

Scoring—Each player shall keep his own score. Cards must be attested by partner and must bear date and the player’s name written legibly.

Rules—All tournaments will be played under United States Golf Association Rules, excepting such rules as exist at the Hawthorne Valley Golf Club, and with the following exceptions: Stymies will not be allowed; penalty for lost ball shall be stroke only; penalty for ball out of bounds shall be distance only.
Tennis

Again this year the chief tennis play will be for the Ralph D. Mershon Tennis Cup, established in 1923 as an annual trophy. This cup is to become the property of the Institute member winning it twice.

The tournament will be started on Tuesday afternoon on the courts of the Edison Tennis Club, located at the corner of Frederick and St. Antoine Streets. Finals will be played on Thursday starting at 2:00 P.M.

Transportation will be furnished by the Local Trips Committee and arrangements should be made at the registration desk.

Events will include men’s singles and men’s doubles, all matches being at scratch and under U. S. Tennis Association Tournament Rules. Matches will be best two of three sets, except finals which will be best three of five sets. Competition will be limited to members.

Entries not made by advance registration will be taken care of at registration desk. Singles and doubles drawings in charge of W. G. Knickerbocker will be made Tuesday afternoon at the club house. There will be prizes for winners and runners-up. Courts not in use for tournament play will be open from 2 to 5 P.M. during the convention to Institute members and their guests.

Water Sports

For those who wish to indulge in swimming and boating, arrangements will be made by the Entertainment Committee, if such applications are received at the registration desk.
FOR THE LADIES

The Local Ladies Committee has worked out a particularly attractive and comprehensive entertainment program for the visiting ladies and cordially welcomes all lady guests to participate in the various functions planned. It is specifically requested that all ladies, whether local or from out of town, register immediately upon arrival, at the Registration Desk on the Ball Room Floor and receive there a booklet containing complimentary tickets for all functions planned for the ladies only. For other events (in which the gentlemen will participate) which are not included in the booklet, tickets will be sold to the ladies. These tickets must be obtained for the inspection trip on Tuesday afternoon, including the public buildings around the City, the motor plants and Belle Isle; the trip to the Trenton Channel Power House of The Detroit Edison Company, Wednesday afternoon; the Banquet on Wednesday evening; the inspection trip to Ford’s Airport and Aircraft Museum on Thursday afternoon; and the Lake St. Clair boat ride and moonlight dance on the Steamer “Tashmoo” on Thursday evening.

Ladies’ headquarters will be in the Ladies’ Writing Room and Lounge on the Lobby Mezzanine Floor. The ladies will assemble there for the various functions. Definite instructions will be given on the bulletin board at the Registration Desk.

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Monday, June 20

At 3:00 P.M. there will be given at the Women's City Club, on Park and Elizabeth Streets, just a few blocks north of the Book-Cadillac Hotel, a reception and tea to which the local ladies cordially invite all visiting ladies.

8:30 P.M., the dance (informal) in the Crystal Ball Room referred to on page 3.

Tuesday, June 21

At 10:00 A.M., the ladies are invited to the addresses by the Mayor of the City of Detroit and by the President of the Institute in the Grand Ball Room.

At 10:30 A.M., all ladies should assemble in one of the rooms (see Bulletin Board at Registration Desk) for immediate departure on a sightseeing trip through the Bloomfield Hills District, including the Booth Estate, and terminating at the Oakland Hills Country Club for luncheon. Subsequent to the luncheon, there will be bridge and putting contests.

At 9:30 P.M., the President's Reception and Dance (informal), including entertainment, will be given in the Grand Ball Room.

Wednesday, June 22

The forenoon will be open for shopping or the following of one's own inclinations.
1:30 P.M. the Trenton Channel trip referred to on page 5. A tea will be given for the ladies of the party on the lawn on the river side of the power house.

6:45 P.M., the Banquet referred to on page 3.

**Thursday, June 23**

9:45 A.M., the ladies will congregate in one of the rooms (see bulletin board at Registration Desk) for a sight-seeing ride through the residence district of Grosse Pointe and thence around Belle Isle to the Detroit Yacht Club, where luncheon will be served.

2:00 P.M. they will be driven to the Bonstelle Playhouse where they will attend the matinee performance.

5:15 P.M., five-stringed cello recital by Prof. Karapetoff in the Italian Garden, referred to on page 4.

8:15 P.M., Detroit River and Lake St. Clair boat ride and moonlight dance, including entertainment and ladies’ grand prize drawing for two electric refrigerators, on the Steamer "Tashmoo," referred to on page 4.

**Friday, June 24**

Left open for shopping or other pursuits.
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Registration Desk "a Service Bureau"

All visiting members are invited to avail themselves of the facilities and counsel of the Registration Desk, which should be considered the Convention Service Bureau.

Wear Your Badge

Wear your badge to all affairs. It identifies you, facilitates getting acquainted and serves as your credentials and thus effects ready admission to most of the convention events.

Committee Rooms

Committees desiring meeting rooms may arrange them through the Hotel Committee, Mr. J. W. Bishop, Chairman, at the Registration Desk.

Railroad Certificates

Immediately upon arriving in Detroit members should deposit their railroad certificates at the Registration Desk so that they may be indorsed.

After indorsement the certificates will be returned to their owners (provided 250 have been deposited). Announcements will be made telling when the indorsed certificates are ready. These certificates properly indorsed must be presented to ticket agents when return tickets are purchased if the half-fare return rates are desired.
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Program

(Detroit time, which is Eastern Standard time, is indicated throughout this program.)

Monday, June 20

9:00 A.M. REGISTRATION (Ball Room Floor)
10:00 A.M. SECTION DELEGATES MEETING (Crystal Ball Room)
12:30 P.M. SECTION AND BRANCH DELEGATES LUNCHEON (Italian Garden)
2:00 P.M. SECTION DELEGATES MEETING (Crystal Ball Room)
4:00 P.M. BRANCH DELEGATES MEETING (Crystal Ball Room)
8:30 P.M. DANCING (Informal) (Crystal Ball Room)

Tuesday, June 21

9:00 A.M. REGISTRATION (Ball Room Floor)
Room
Mayor’s Address
President’s Address
Presentation of Prizes for Institute Papers

10:30 A.M. TECHNICAL SESSION (Grand Ball Room)


Ground-Relay Protection for Transmission Systems, B. M. Jones and G. B. Dodds, Duquesne Light Co.


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A.  I.  E.  E.  Convention—Program

2:00 P.M.   GOLF AND TENNIS TOURNAMENTS INSPECTION TRIPS

8:00 P.M.   LECTURE—"The Physical Nature of the Electric Arc," by Dr. K. T. Compton, Princeton University (Italian Garden or Grand Ball Room)

9:30 P.M.   PRESIDENT'S RECEPTION and DANCE (Informal) (Grand Ball Room)

Wednesday, June 22

9:30 A.M.   PRESENTATION of TECHNICAL COMMITTEE REPORTS in two sessions, A and B

Session A (Crystal Ball Room)
Research, J. B. Whitehead, Chairman
Electrophysics, Vladimir Karapetoff, Chairman
Education, P. M. Lincoln, Chairman
Standards, J. F. Meyer, Chairman
Instruments and Measurements, A. E. Knowlton, Chairman
Communication, H. P. Charlesworth, Chairman
Production and Application of Light, P. S. Millar, Chairman

Electrical Machinery, H. M. Hobart, Chairman

Session B (Italian Garden)
Power Generation, W. S. Gorsuch, Chairman
Power Transmission and Distribution, Philip Torchio, Chairman
Protective Devices, F. L. Hunt, Chairman
Applications to Iron and Steel Production, A. G. Pierce, Chairman
Applications to Mining Work, W. H. Lesser, Chairman
Application to Marine Work, G. A. Pierce, Chairman
A. I. E. E. Convention—Program

Transportation, J. V. B. Duer, Chairman
Electric Welding, J. C. Lincoln, Chairman
Electrochemistry and Electrometallurgy,
    G. W. Dinal, Chairman

1:30 P.M. TRIP TO TRENTO N CHANNEL POWER STATION
2:00 P.M. GOLF AND TENNIS TOURNAMENTS TRIPS
6:45 P.M. CONVENTION DINNER (Grand Ball Room) Addresses as follows:

W. B. Stout, President of the Stout Metal Airplane Division, Ford Motor Co., will speak on Commercial Aviation

C. M. Newcomb, "The Psychology of Laughter"

C. F. Kettering, Vice-President of General Motors Corp., will speak on some phase of the automobile industry

Thursday, June 23

10:00 A.M. TWO TECHNICAL SESSIONS, A and B

Session A (Crystal Ball Room)

Printing Telegraphs on Non-Loaded Ocean Cable,
Herbert Angel, Western Union Telegraph Co.

A Non-Rotary Regenerative Telegraph Repeater,
A. F. Connery, Postal Telegraph Co.

Electrical Reproduction from Phonograph Records,
E. W. Kellogg, General Electric Co.

Symposium on Television, led by Dr. Herbert E. Ives,
Bell Telephone Laboratories, Inc.

Operating demonstrations of television equipment will be made at convenient hours following the symposium in a store on the first floor of the Book-Cadillac Hotel
The five papers constituting the symposium on television are as follows:


**Session B (Italian Garden)**

(This session will be adjourned in time to allow those who desire to attend the symposium on Television scheduled under Session A)

*High-Voltage Multiple-Conductor Joints*, T. F. Peterson, Brooklyn Edison Co.

*Use of High-Frequency Currents for Control*, C. A. Boddie, Westinghouse Electric & Mfg. Co.

*Electromagnetic Waves Guided by Parallel Wires*, S. A. Levin, National Electric Light Association

*The International Electrical Units*, E. C. Crittenden, Bureau of Standards

12:30 P.M. PAST PRESIDENTS’ AND DIRECTORS’ LUNCHEON (Founders Room)

2:00 P.M. GOLF AND TENNIS TOURNAMENTS INSPECTION TRIP TO FORD AIRPORT

2:30 P.M. DIRECTORS’ MEETING

5:15 P.M. CELLO RECITAL BY PROF. V. KARAPETOFF (Italian Garden)

8:15 P.M. BOAT RIDE AND DANCE
Friday, June 24
10:00 A.M. TWO TECHNICAL SESSIONS, A and B

Session A (Crystal Ball Room)


Law of Corona and Dielectric Strength, F. W. Peek, General Electric Co.

Puncture Voltage as a Precision Measurement, V. Bush and P. H. Moon, Massachusetts Institute of Technology

The Electrical Resistivity of Insulating Materials, H. L. Curtis, Bureau of Standards

Electric Strength of Solid and Liquid Dielectrics, Wm. A. Del Mar, Habirshaw Cable and Wire Corp.; W. F. Davidson, Brooklyn Edison Co.; R. H. Marvin, Johns Hopkins University


Session B (Italian Garden)

Current Collection from an Overhead Contact System
Applied to Railroad Operation, S. M. Viele, Pennsylvania Railroad

Catenary Design for Overhead Contact Systems, H. F. Brown, New York, New Haven and Hartford Railroad


Collection of Current from Overhead Contact Wires, R. E. Wade and J. J. Linebaugh, General Electric Co.


Saturday, June 25
1:30 P.M. Lake Trip to Mackinac Island and Georgian Bay. Those desiring to take this trip should make individual reservations with the Detroit and Cleveland Navigation Co., whose city offices are at 150 W. Lafayette Boulevard, Detroit.
A. I. E. E. Summer Convention

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A. I. E. E. Summer Convention

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Mrs. W. Turner
Mrs. G. Wagschal
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A. I. E. E. Summer Convention

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1927-1928

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POINTS OF INTEREST IN DETROIT
NUMBERS REFER TO MAP ON FOLLOWING PAGES

HOTELS
1—Berkshire
2—Book-Cadillac
3—Brunswick
4—Carlton Plaza
5—Clifford
6—Fairbairn
7—Fort Shelby
8—Franklin
9—Gotham
10—Imperial
11—Iroquois
12—Lincoln
13—Madison-Lenox
14—Normandie
15—Norton
16—Palmetto
17—Prince Edward
18—Royal Palms
19—Statler
20—Stevenson
21—Strathmore
22—Tuller
23—Webster Hall
24—Addison
25—Alarlyt
26—Alden Park Manor
27—Andoria
28—Barlum
29—Belevedere
30—Billinghurst
31—Birchmont
32—Boulevard Manor
33—Bretton Hall
34—Brookins
35—Colonial Hall
36—Dixieland
37—Eddystone
38—Edison
39—Elms
40—Embassy
41—Fort Wayne
42—Frontenac
43—Gladdstone
44—Grayson
45—Griswold
46—Henry Clay
47—Detroit Leland
48—Huntington
49—Jefferson Hall
50—Lexington
51—Lewis
52—Library Park
53—Majestic
54—Martha Washington
55—Morgan
56—Monroe
57—Mt. Vernon
58—Oxford
59—Park Avenue
60—Paul Revere
61—Plaza
62—Priscilla Inn
63—Roe
64—Roosevelt
65—Sage
66—Savoy
67—Seward
68—Spa Stag
69—Stradford Arms
70—Victoria Apt.
71—Victory and Annex
72—Wardell
73—Washington
74—Whittier
75—Windsor
76—Wolverine

Public Buildings
82—Arcadia
83—Arena Gardens
84—Armory
85—Art Institute
86—Board of Commerce
87—Cass Tech. High School
88—City Hall
89—County Building
90—Detroit Athletic Club
91—Detroit News
92—Detroit Times
93—Elks Temple
94—Free Press
95—General Motors Bldg
96—Graystone
97—Grindley Hall
98—Knights of Columbus
99—Masonic Temple
100—Municipal Courts and Police Headquarters
101—Orchestra Hall
102—Post Office
103—Public Library
104—Women's City Club
105—Women's Exchange
106—Y. M. C. A.

Theatres
1—Capitol
2—Madison
3—Adams
4—State
5—Michigan
6—Broadway Strand
8—Miles
9—Temple

Depots and Docks
A—Union Depot
B—D. C. Navigation Co.
C—Ashley & Dustin Line
D—Great Lakes Transit Co.
E—White Star Naviga'tn Co.
G—Bob-Lo Boats
H—Windsor Ferry
I—Belle Isle Boats
J—Grand Trunk Depot
K—Chicago, Duluth & Geor-
gian Bay Line
L—Interurban Depot
M—Walkerville Ferry
N—Interurban Bus Depot
O—Michigan Central Depot

10—Garrick
11—Shubert Lafayette
12—New Detroit
14—Shubert Detroit
15—Bonstelle
16—Cass
17—Gayety
18—Cadillac
19—Colonial
20—Majestic
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