

MIDWESTERN ASSOCIATION OF CHEMISTRY TEACHERS IN LIBERAL ARTS COLLEGES

Wabash College Twelfth Annual Meeting Crawfordsville, Indiana

Friday, October 18 (ALL TIMES ARE E.S.T.)

- 11:00 A.M. → Executive Council Meeting and Luncheon
 [For arriving members luncheon available in College cafeteria (serving 11:30 to 12:45); sandwiches and fountain service available in the Scarlett Inn (open continuously). Both located in the Campus Center — see Campus map].
- 12:30 P.M. Registration - Lobby, Campus Center *Announcement: Change in Lecture Location*
- 1:30 P.M. General Meeting - 3rd Floor Auditorium, Lilly Library
 Greetings from Byron K. Trippet, President of Wabash College, and Enno Welthuis, President of MACTLAC
- 1:45 P.M. Discussion Groups -
 1. New Ideas in General Chemistry Laboratory - Lilly Auditorium, 3rd floor, Lilly Library
 2. Problems Arising from Academic Calendar Changes - Seminar Room, 3rd floor, Lilly Library
 3. Ways and Means of Meeting the New A.C.S. Minimum Standards - Goodrich Room, 2nd Floor, Lilly Library
 4. New Ideas in Organic Laboratory - Goodrich 205
 5. The Use of Visual Aids - Goodrich 105
- 3:30 P.M. Coffee Break - Lounge, Campus Center
- 4:00 P.M. Discussion Groups - resume
- 7:00 P.M. Banquet - Campus Center
- 8:00 P.M. "Research in Liberal Arts Colleges - Wabash College"
 3rd Floor Auditorium, Lilly Library
 The session will begin with a brief discussion led by Quentin R. Petersen, Wabash College, and will be followed by visits to research projects in botany, chemistry, physics and zoology, and tours of the two science buildings [Goodrich Hall (physical sciences) and Waugh Hall (life sciences)]. Refreshments will be available in the Lounge of the Campus Center 9:30 - 11:00 P.M.

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Saturday, October 19

- Breakfast in College cafeteria (serving 7:15 to 8:30); juice, doughnuts, sweet rolls and coffee in the Scarlet Inn from 8:00 A.M. on.
- 8:30 A.M. Panel Discussion: "The Role of Descriptive Chemistry in the College Curriculum" - 3rd Floor Auditorium, Lilly Library
 Leaders: Robert Brasted, University of Minnesota; Harry Sisler, University of Florida; Kent Wilson, Tufts University
- 10:15 A.M. Coffee Break - Seminar Rooms, Lilly Library
- 10:45 A.M. General Meeting - 3rd Floor Auditorium, Lilly Library
 Report by Harry Lewis on Research in MACTLAC Schools; Election of State Representatives to Executive Council; Election of New Officers; Business.
- 12:00 Noon Buffet Luncheon - Basement, Campus Center

(See reverse side for Directory to research projects and science buildings.)

Research Projects in Goodrich

E. L. Haenisch -- Study of the reactions of DMSO with alkali metals. Supported by the Petroleum Research Fund of the American Chemical Society. Discussion in Goodrich attic.

Q. R. Petersen -- Structural and mechanistic studies in the steroid series. Supported by the Wolcott Gibbs Fund of the National Academy of Sciences. Discussion in Goodrich 207.

P. C. McKinney -- Theoretical studies in molecular mechanics. Discussion in Goodrich attic.

Physics Department -- The entire physics staff participates in a study of the temperature effect on X-ray scattering of single metallic crystals. Supported by the National Science Foundation and the Research Corporation. Discussion in Goodrich, Room 2.

Mathematics Department -- An I.B.M. 1620 card computer with 20K memory and peripheral data processing equipment is being integrated into research activities in many areas. Discussion in Goodrich, Room 1.

Other Rooms open for inspection in Goodrich:

Room 3	Advanced Physics Lab	Room 203	Elementary Organic Lab
Rooms 7-8	Wood and Metal shops	208	Research Lab
Room 101	Physics-Chemistry Lab	201	Chemistry and Physics Library
105	Conference room	303	Advanced Organic and Analytical Lab
205	Main Chemistry Lecture	304	Physical Chemistry Lab
204	Organic Stock room	301	General and Analytical Lab
Attic	Instrument Lab	307	Departmental Office

Research Projects in Waugh

W. H. Johnson and Teiichi Betchaku -- Culture of planarian cells. Supported by the National Science Foundation. Discussion in Waugh 5.

L. E. DeLanney -- Tumor transplants in the salamander. Supported by the National Institute of Health. Discussion in Waugh 401.

R. Petty and E. Williams -- Ecological studies involving radioisotopes. Supported by the Atomic Energy Commission. Discussion in Waugh 3.

T. Cole -- The biochemistry of drosophila. Supported by an Institutional Grant of the National Science Foundation. Discussion in Waugh 5.

Other Rooms open for inspection in Waugh:

Room 2	Bacteriology Lab
105	Advanced Botany Lab
101	General Biology Lab
201	Comparative Anatomy and Embryology Lab

HOUSING

Contact directly one of the following for reservations:
(Area code for all phone numbers is 317.)

1. Crawford Hotel, 204 East Main Street, Crawfordsville, Ind. - EM 2-2700
(1/2 mile from campus)
Single: with shower \$4.50; plus TV \$5.50; plus air-conditioning \$6.00
Double: with shower and TV \$8.00; plus air-conditioning \$10.00
50 or more beds available; restaurant open for breakfast
2. Crawfordsville Motel, Indianapolis Road (U.S. 136), 1/2 mile east of Crawfordsville - EM 2-5740 (Post office - Crawfordsville) (3 miles from campus)
32 beds in 16 rooms; single occupancy \$6.00; double occupancy \$8.00 (tile floor), \$8.50 (carpet)
3. Riviera Motel, Greencastle Road (U.S. 231 - south of city - 1 block south of junction with Ind. 32 and 47) EM 2-9925 (3 miles from campus)
14 beds in 12 rooms; 10 single rooms at \$6.00; 2 twin-bedded rooms at \$8.00
4. Wesley Motel, U.S. 136, 5 miles west of Crawfordsville - AD 4-2241 (Post office - Waynetown) (7 miles from campus)

Many motels are available in Lafayette (27 miles north); Indianapolis (45 miles southeast) and several in Greencastle (30 miles south). There are Holiday Inns and Howard Johnson Motor Lodges in both Lafayette and the west side of Indianapolis.

PLEASE MAKE RESERVATIONS BY OCTOBER 10.

TRAVEL INFORMATION

Crawfordsville is on U.S. 136, U.S. 231, Ind. 32, Ind. 47 about 50 miles northwest of Indianapolis. See enclosed map for reaching Wabash College from any of these highways.

Air service (American, Delta, Eastern, Lake Central and TWA) is available into Indianapolis and (Lake Central) into Lafayette. Notify Edward Haenisch, Wabash College, Crawfordsville, Indiana, 47933 - area code 317, EMerson 2-7121) of your arrival time, flight number and airport. Transportation from and to the Indianapolis and Lafayette airports will be provided.

There is one train a day each way between Crawfordsville and Chicago via the Monon Railroad.

Bus service is available on a line which runs from Indianapolis to Peoria through Danville and Champaign-Urbana, Illinois.

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- 12:30 PM Registration -- Lobby, Campus Center
- 1:30 PM General Meeting - 3rd Floor Auditorium, Lilly Library
- 1:45 PM Discussion Groups - Details on attached list (Rooms to be announced.)
1. New Ideas in General Chemistry Laboratory
 2. Problems Arising from Academic Calendar Changes
 3. Ways and Means of Meeting the New A.C.S. Minimum Standards
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(See other side for Housing and Travel information)

DISCUSSION GROUPS - 1963 MACTLAC MEETING

1. NEW IDEAS IN GENERAL CHEMISTRY LABORATORY

Chairman: Robert Rosenberg, Lawrence College
Resource People: Gerald Bakker, Earlham College
W. T. Lippincott, Ohio State University

Recently, there has been a growing trend to eliminate the laboratory exercise which is designed primarily to teach technique or illustrate a principle, and to substitute an experiment in which the student must observe carefully, draw conclusions, and find the answer to a problem which is posed for him. The discussion will be concerned largely with an exchange of ideas on ways in which this new approach can be carried out.

2. PROBLEMS ARISING FROM ACADEMIC CALENDAR CHANGES

Chairman: Allen Hanson, St. Olaf College
Resource People: Richard Ramette, Carleton College
Kurt Kaufman, Kalamazoo College

A number of MACTLAC schools are experimenting with new academic calendar arrangements, such as the 3-3 plan, and other schools are giving serious consideration to the various possibilities. It will be of interest to have some of these programs described, and in particular to discuss the teaching of chemistry under them. Are there advantages or disadvantages in the shorter, more intensive term courses? Does laboratory work present any difficulties? Is it easier or more difficult to plan 4-year programs for chemistry majors?

3. WAYS AND MEANS OF MEETING THE NEW A.C.S. MINIMUM STANDARDS

Chairman: Joseph Danforth, Grinnell College
Resource People: Laurence Strong, Earlham College

From the response to Ed Haenisch's speech on Minimum Standards at the Alma Meeting of MACTLAC, there is no need to list controversial questions to arouse participants' opinions. The new Minimum Standards are now established. Schools wishing A.C.S. accreditation for their graduates will comply with them. Ways and means for our schools to meet the specific requirements listed in the A.C.S. Minimum Standards (October 1962) will be discussed. If there are standards which appear to impose unnecessary hardships on liberal arts colleges, a recommendation to the Committee on Professional Training concerning the ways in which the promised "flexibility" can be applied may be in order.

4. NEW IDEAS IN ORGANIC LABORATORY

Chairman: William Martin, Lake Forest College
Resource People: (To be announced)

Last year one group discussed the content of the organic course, but did not spend very much time on the laboratory. New developments in organic chemistry, especially the wide-spread use of instrumentation in organic analysis, suggest that the traditional program of syntheses and classical qualitative analysis needs re-evaluation. Among the questions for discussion are:

- (a) What is the role of organic qualitative analysis?
- (b) What instruments should be used in qualitative organic?
- (c) What instruments should be used in elementary organic?
- (d) Should organic quantitative analysis be given?
- (e) Shouldn't there be more experiments which place emphasis on interpretation and judgment?

(Over)

DISCUSSION GROUPS - 1963 MACTLAC MEETING

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5. THE USE OF VISUAL AIDS

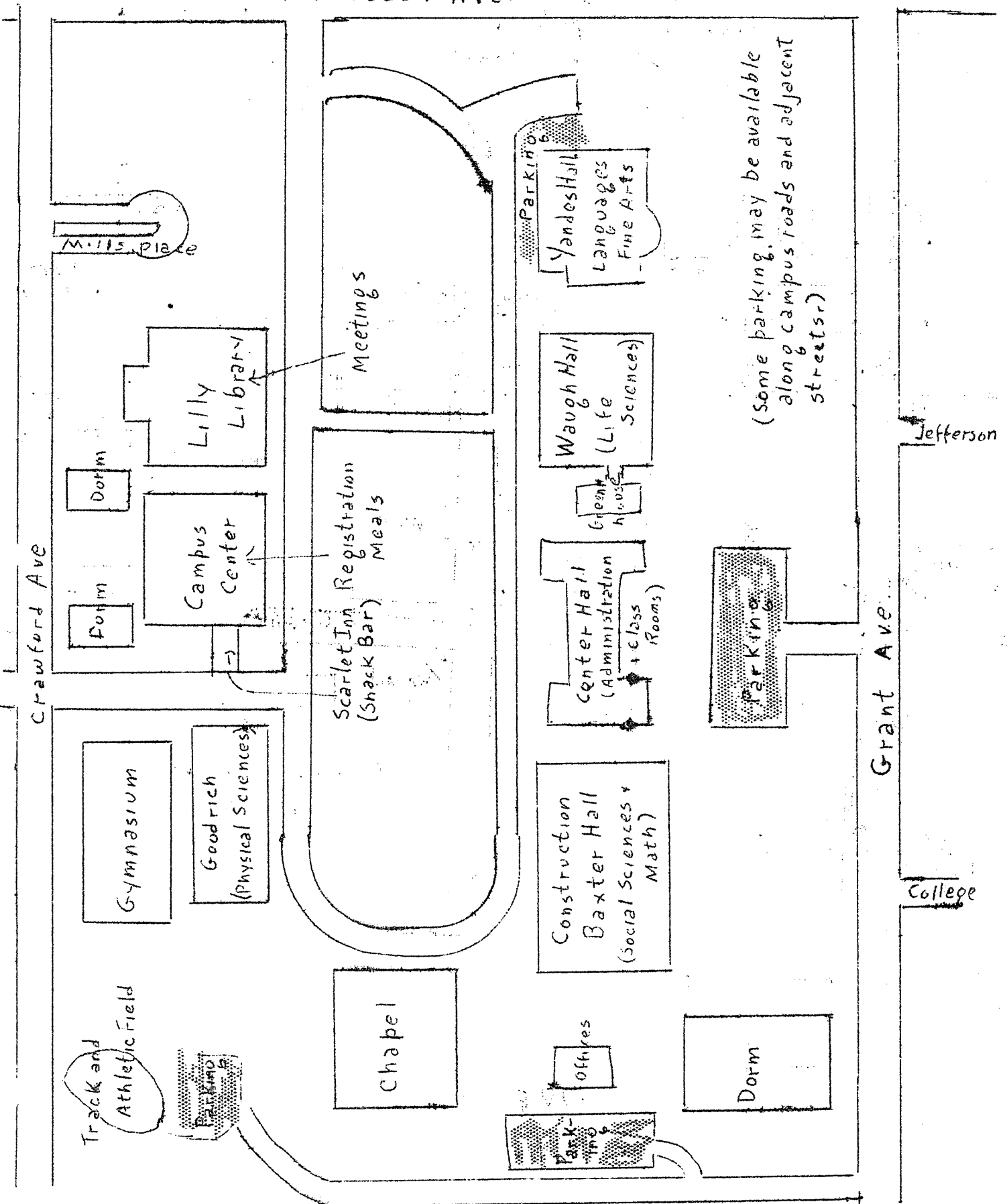
Chairman: Paul Wright, Wheaton College
Resource People: (To be announced)

The discussion will include such topics as the use of models, films, overhead projectors, and demonstrations. It is hoped that people who have had experience, especially with some of the newer aids, can discuss their usefulness in chemistry teaching.

Wabash College - Campus Map

WILFROIT

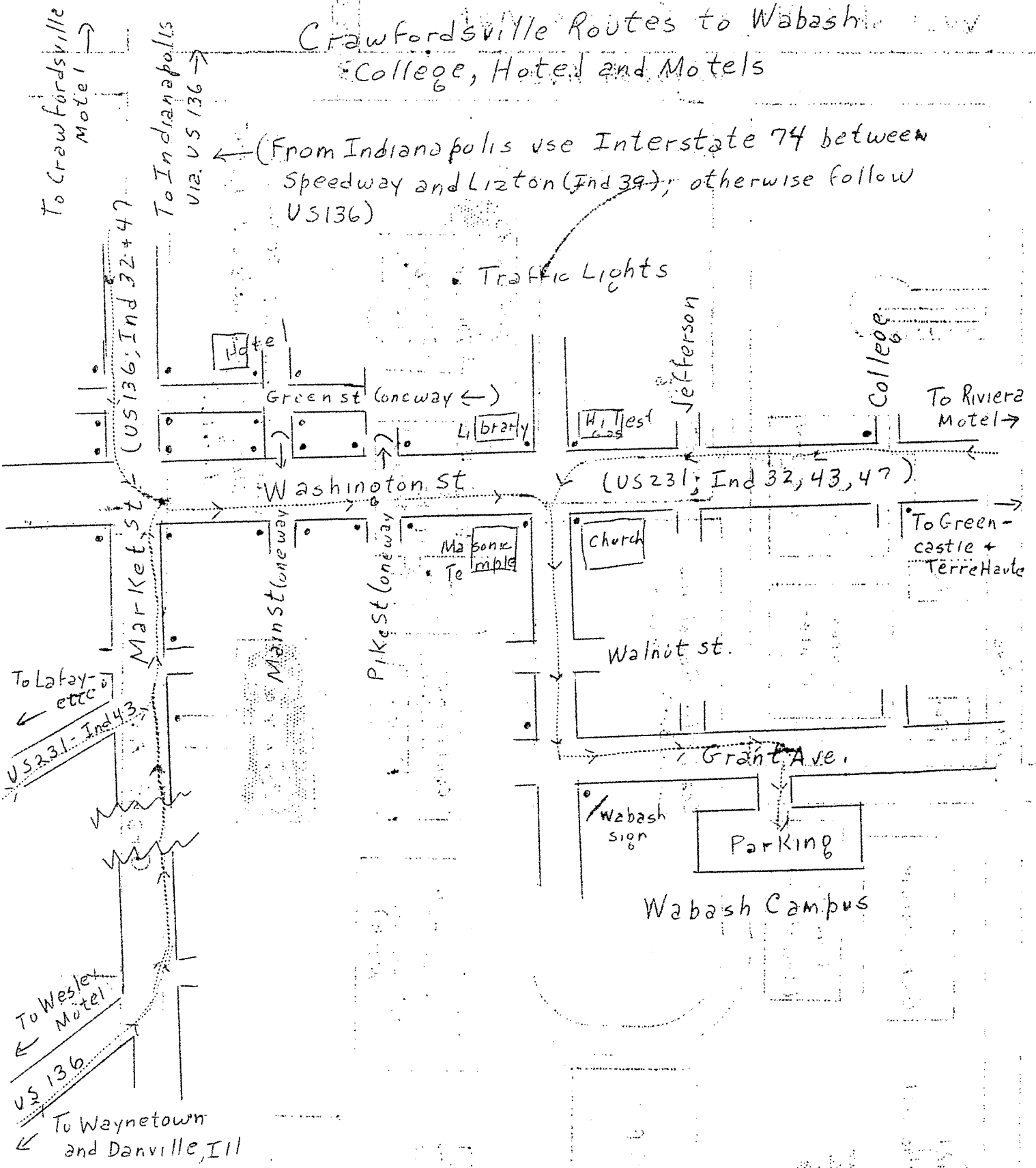
Wabash Ave.



(OVER)

Crawfordsville Routes to Wabash College, Hotel and Motels

(From Indianapolis use Interstate 74 between
Speedway and Lizton (Ind 39); otherwise follow
US 136)



(OVER)