A STATISTICAL REPORT ON THE ACTIVITIES

of the

DEPARTMENT OF PHYSICS

to the Dean of the

COLLEGE OF ENGINEERING

for the year

LANCASTER BOND
1948-1949
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Physics Colloquium, Journal Club and Seminars  
  Physics Colloquium  
  Physics Journal Club  
  Theoretical Seminar  
  Special Lectures
Emeritus
F.R. Watson, Ph.D., Professor of Experimental Physics
W.F. Schulz, Ph.D., Associate Professor
E.H. Williams, Ph.D., Associate Professor

Regular Instructional Staff
F.W. Loomis, Ph.D., Professor and Head of the Department
L.M. Ridenour, Ph.D., Professor of Physics and Dean of the Graduate College
F.G. Kruger, Ph.D., Professor
Moritz Goldhaber, Ph.D., Professor
G.M. Almy, Ph.D., Professor
A.T. Nordström, Ph.D., Professor
J.H. Bartlett, Ph.D., Professor
S.M. Danoff, Ph.D., Professor
E.M. Lyman, Ph.D., Associate Professor
R.F. Paton, Ph.D., Associate Professor
Andrew Leney, Ph.D., Associate Professor
J.S. Allen, Ph.D., Associate Professor
A.O. Hanson, Ph.D., Assistant Professor
G.W. Herder, Ph.D., Associate Professor
G.P. Tape, Ph.D., Assistant Professor
R.A. Becker, Ph.D., Assistant Professor
R.D. Rawcliffe, Ph.D., Assistant Professor
R.B. Duffield, Ph.D., Assistant Professor of Physics and Chemistry
R.D. Hill, Ph.D., Assistant Professor
W.E. Meyerhof, Ph.D., Assistant Professor
Peter Axel, Ph.D., Assistant Professor
J.H. Snyder, Ph.D., Instructor
R.T. Anderson, A.M., Part-time Assistant
A.L. Atkins, B.S., Part-time Assistant
W.L. Benke, B.S., Part-time Assistant
G.R. Briggs, B.A., Part-time Assistant
W.L. Buck, M.S., Part-time Assistant
W.A. Butler, M.S., Part-time Assistant
M.H. Coburn, M.S., Part-time Assistant
R.L. Conklin, M.S., Part-time Assistant
D.D. Curtis, M.S., Part-time Assistant
Barbara Dwight, M.A., Part-time Assistant
D.B. Dutton, B.S., Part-time Assistant
U.R. Embry, M.S., Part-time Assistant
J.O. Erickson, M.S., Part-time Assistant
F.A. Fend, B.S., Part-time Assistant
M.H. Friedman, M.S., Part-time Assistant
J.O. Fuhrmeister, B.A., Part-time Assistant
E.G. Fuller, M.A., Part-time Assistant
F.R. Giles, B.S., Part-time Assistant
D.H. Glenny, M.A., Part-time Assistant

# First Semester
## Second Semester
R.F. Goodrich, B.A., Part-time Assistant
Miss Rita Heiliger, B.A., Part-time Assistant
R.L. Hickmott, B.A., Part-time Assistant
I.W. Janney, M.S., Part-time Assistant
M.H. Kalos, B.S., Part-time Assistant
R.O. Kerzman, M.S., Part-time Assistant
W.E. Kroeger, M.S., Part-time Assistant
R.A. Kromhout, M.S., Part-time Assistant
Irving Lazar, B.A., Part-time Assistant
L.G. Mann, M.S., Part-time Assistant
W.O. Mansfield, B.A., Part-time Assistant
E.B. McNeil, M.S., Part-time Assistant
Sydney Meshkov, B.A., Part-time Assistant
W.A. Michael, B.A., Part-time Assistant
J.W. Mikolich, M.S., Part-time Assistant
W.G. Houlton, M.S., Part-time Assistant
B.H. Muller, M.S., Part-time Assistant
Daniel Nassau, B.A., Part-time Assistant
R.E. Norberg, M.A., Part-time Assistant
Jehuda Ovadia, M.S., Part-time Assistant
J.J. Paterek, B.S., Part-time Assistant
R.V. Petroz, B.A., Part-time Assistant
M.T. Pigott, M.A., Part-time Assistant
R.C. Pohl, B.S., Part-time Assistant
G.W. Rodebeck, M.S., Part-time Assistant
R.E. Rowland, B.A., Part-time Assistant
A.J. Saur, B.S., Part-time Assistant
Daniel Schiff, B.S., Part-time Assistant
W.W. Schoof, M.A., Part-time Assistant
W.W. Schriever, B.S., Part-time Assistant
F.J. Shore, M.A., Part-time Assistant
P.B. Smith, B.S., Part-time Assistant
Robert Stump, M.S., Part-time Assistant
C.J. Taylor, M.S., Part-time Assistant
J.R. VanHorn, M.S., Part-time Assistant
Ephraim Weiss, M.S., Part-time Assistant
Mrs. Lila M. Wells, B.A., Part-time Assistant
D.E. Willig, M.S., Part-time Assistant
M.E. Wyman, M.S., Part-time Assistant

Research Staff

D.W. Kerst, Ph.D., Professor
G.D. Adams, Ph.D., Research Assistant Professor
C.S. Robinson, Ph.D., Research Assistant Professor
H.W. Koch, Ph.D., Research Assistant Professor
R.E. Meagher, Ph.D., Special Research Assistant Professor
Research Assistant Professor of Physics and Chief Engineer of the Electronic Digital Computers
Mrs. Gertrude S. Goldhaber, Ph.D., Special Research Assistant Professor on two-thirds time
L.L. Lowry, Ph.D., Special Research Associate (Res. 11-30-49)
J.D. Knight, Ph.D., Special Research Associate (Res. 6-21-49)
J.A. Phillips, Ph.D., Special Research Associate
A.W. Sunyar, Ph.D., Special Research Associate

# First Semester; ** Second Semester
D.E. Riesen, B.S., Special Research Assistant
F.L. Peterson, B.S., Special Research Assistant
H.A. Leiter, M.A., Special Research Assistant (Res. 4-7-49)
A.I. Saunders, B.S., Special Research Assistant
Peter Axel, M.S., Part-time Research Assistant
J.S. Blair, B.S., Part-time Research Assistant
J.C. Bowe, M.S., Part-time Research Assistant
H.J. Bowlden, M.S., Part-time Research Assistant
W.L. Buck, M.S., Part-time Research Assistant
G.J. Chafaris, M.S., Part-time Research Assistant
B.C. Diven, M.S., Part-time Research Assistant (Res. 6-30-49)
Ralph Dressel, B.S., Part-time Research Assistant (Res. 5-31-49)
C.R. Emigh, M.S., Part-time Research Assistant
R.S. Foote, M.S., Part-time Research Assistant (Res. 6-30-49)
Sherman Frankel, M.S., Part-time Research Assistant
E.G. Fuller, M.S., Part-time Research Assistant
Michael Glaubman, M.S., Part-time Research Assistant (From 1-1-49)
G.L. Griffith, B.S., Part-time Research Assistant
L.H. Laner, M.S., Part-time Research Assistant
J.S. Lawson, B.A., Part-time Research Assistant
S.P. Lloyd, B.S., Part-time Research Assistant
E.B. McNeil, M.S., Part-time Research Assistant
J.W. Mihelich, M.S., Part-time Research Assistant
Harry Palevsky, M.S., Part-time Research Assistant
G.F. Newell, B.S., Part-time Research Assistant
J.A. Phillips, M.S., Research Assistant
G.A. Price, M.S., Part-time Research Assistant
Ira Pullman, B.S., Part-time Research Assistant
M.E. Remley, M.S., Part-time Research Assistant
A.J. Saur, M.S., Part-time Research Assistant
A.W. Sumy, M.S., Part-time Research Assistant
C.P. Taylor, M.S., Part-time Research Assistant
L.P. Stephenson, B.A., Part-time Research Assistant
J.M. Wegstein, M.S., Part-time Research Assistant

Illinois Graduate Scholars and Fellows

Marius Cohn, M.S., Graduate Fellow
Mrs. Gladys H. Fuller, M.A., Graduate Fellow
Meyer Garber, B.S., Graduate Scholar
Harry Lustig, B.S., Graduate Scholar
F.A. Rodgers, B.S., Graduate Fellow
M.B. Scott, B.S., Graduate Scholar
Benjamin Segall, B.S., Graduate Fellow
Walter Steuber, M.S., Graduate Fellow
Shi-Shu Wu, M.S., Graduate Fellow

* First Semester
** Second Semester
Atomic Energy Commission Pre-Doctoral Fellows

Leon Bess, M.S.
Robert Katz, M.A.
E.D. Klema, M.A.
H.E. Kubitschek, M.S.
E.J. Zimmerman, M.S.

Nonacademic Staff

R.F. Flora, B.S., Laboratory Manager
Mrs. Della R. McCown, B.S., Secretary
Mrs. Bess Randolph, Senior Clerk-Stenographer
Mrs. Donna Tomlinson, Junior Clerk Stenographer
Mrs. Virginia Voss, Junior Clerk Typist
Mrs. Ruth Sparks, Junior Clerk Typist
F.L. Woody, Chief Clerk
Philip R. Francis, Junior Account Clerk
W.A. Thornhill, Storekeeper
R.D. Kenworthy, Storekeeper
Mrs. Jennie Lowry, Stores Clerk
Mrs. E. Ann Halpin, B.A., Junior Account Clerk (From Nov. 8, 1948)
Mrs. Dolores M. Broome, Assistant File Clerk (From Dec. 15, 1948)
J.J. Cochrane, Senior Engineering Draftsman
R.E. McGhee, Draftsman
C.E. Kling, Senior Glassblower
A.H. Colbey, Glassblower
R.E. Sterritt, Glassblower Trainee
W.B. McDevitt, Potter (From October 1, 1948)
Ernest England, Instrument Maker
Herbert Lenartine, Instrument Maker (Res. 9-3-48)
C.W. Fleg, Senior Laboratory Mechanic
W.C. Deem, Senior Laboratory Mechanic
Charles VanHolland, Senior Laboratory Mechanic
George Johnson, Senior Laboratory Mechanic
T.E. Wells, Senior Laboratory Mechanic
H.G. Stoner, Senior Laboratory Mechanic
M.A. Carrington, Senior Laboratory Mechanic
E.R. Gordes, Senior Laboratory Mechanic
Franklin Kibler, Senior Laboratory Mechanic
Harve Belles, Senior Laboratory Mechanic
D.F. Chamberlin, Senior Laboratory Mechanic (Res. 3-24-48)
D.A. Sypult, Senior Laboratory Mechanic (From Oct. 11, 1948)
R.M. Insekeep, Senior Laboratory Mechanic (Jan. 25 to Apr. 15, 1949)
Vincent F. Oakes, Senior Laboratory Mechanic Trainee
R.D. Metz, Senior Laboratory Mechanic Trainee
L.E. Cole, Assistant Laboratory Mechanic
Mrs. Mary D. Chafaris, Junior Electronics Technician
C.A. McGuire, Junior Electronics Technician
Arthur Q. Hislop, Junior Electronics Technician (From 1-25-49)
George Modesitt, Junior Electronics Technician (Mech, June 25, 1949)
E.E. Clark, Senior Laboratory Attendant
DeLos Oliver, Junior Laboratory Attendant (From Sept. 14, 1948)
E.E. Wascher, Junior Laboratory Attendant
Mrs. Wilna D. Johnston, Junior Laboratory Attendant (From 6-1-49)
Donald Vermillion, Assistant Laboratory Attendant
Michael McKeown, Senior Laboratory Assistant (From Nov. 8, 1949)
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<td>Wells, Mrs., Lidia</td>
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<td>Weiss, Ephraim</td>
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<td>Wyman, M.W.</td>
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**Totals**: 23, 25, 22, 25, 22, 18, 13.
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<th>App't.</th>
<th>Lab 101</th>
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<th>Lab 103</th>
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<th>Other Courses and Special Duties</th>
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<td>Almy, C.M.</td>
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<td>372; 37% lab(3) in chg.; 25% Navy ORI</td>
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<td>232; 23% Navy ORI</td>
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<td>342 lab(3), 342 lab(4) in chg.; 25% Navy ORI</td>
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<td>Admin. chg. of Phys.101; 25% Navy</td>
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**Totals**: 134 lab(1) & 404 lab(1)
**TABLE I**

FIRST SEMESTER REGISTRATIONS IN THE PHYSICS DEPARTMENT  
1940-41 to 1948-49 INCLUSIVE

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2. Course number 2a.
3. Course number 2b.
# TABLE I
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1940-41 to 1948-49 INCLUSIVE

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Totals: 199 209 191 104 488 655 200 185 653 1211 195

*Civilian students only
#Two 8-weeks
## ANALYSIS OF REGISTRATIONS IN PHYSICS COURSES
### 1924-25 to 1948-49 INCLUSIVE

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A SUMMARY OF THE NUMBER OF STUDENTS MAJORING IN PHYSICS

1939-40 to 1948-49 INCLUSIVE
(Exclusive of Summer Session)

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* Includes 9 ROTC men from Norwich University who stayed 1/2 semester.

** Includes Navy V-12 students.
Curriculum in Engineering Physics
(Revised for 1948-1949)

For the Degree of Bachelor of Science in Engineering Physics

The purpose of this curriculum is to prepare students for investigations in engineering problems calling for a knowledge of physics and mathematics or chemistry, and for positions in certain industries which prefer men with a thorough education in basic science.

Students in the Engineering Physics curriculum, when registering for advanced undergraduate courses in physics at any stage in that curriculum, must have a grade average of at least 3.5 in all subjects, exclusive of the basic courses in military training and physical education, and a combined grade average of at least 3.5 in all subjects in mathematics and physics taken prior to such registration. Transfer students must have a corresponding record in the institution from which they transfer.

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<td>Physics 321 (20a)—Theoretical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Physics 341 (40a)—Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
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<table>
<thead>
<tr>
<th>Third Year</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Math.345 (19)—Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Physics 322 (20b)—Theoretical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Physics 342 (40b)—Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>Physics 343 (46a)—Vacuum Tube Circuits</td>
<td>4</td>
</tr>
<tr>
<td>Physics 360 (60) or M.E.205 (13) Heat</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>19</td>
</tr>
<tr>
<td>First Semester</td>
<td>Hours</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Physics 344 (46b)</td>
<td></td>
</tr>
<tr>
<td>or Tech. Option</td>
<td></td>
</tr>
<tr>
<td>Physics 371 (7la)</td>
<td>2</td>
</tr>
<tr>
<td>Light</td>
<td></td>
</tr>
<tr>
<td>Physics 373 (72a)</td>
<td>2</td>
</tr>
<tr>
<td>Light Lab.</td>
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</tr>
<tr>
<td>Technical Option</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Common program for Freshmen except that substitution of Chem. 106 (6) for Chem. 104 (4) is advised.

2. The election of Chem. 110 (10), 124 (24), and 234 (34) is advised. Students wishing to emphasize chemistry may substitute chemistry electives for E.E. 220-221 (30a-30b). Students wishing to emphasize electrical engineering should select E.E. 250-251 (48a-48b), 252-253 (61a-61b) and 254-255 (63a-63b). Students wishing to emphasize geophysics should select most or all of their technical options in geology. Five hours must be approved non-technical courses.

3. Math. 341-342 (16a-16b) or Math. 347-348 (71a-71b) may be substituted for Math. 343 (18) and 345 (19).

4. Students desiring to emphasize E.E. may elect, if they so desire, E.E. 242-243 (46a-46b) and E.E. 244-245 (62a-62b) instead of Physics 343-344 (46a-46b). These students should register in E.E. 250-251 (48a-48b) concurrently with E.E. 242-243 (46a-46b) or Physics 343 (46a); E.E. 254-255 (63a-63b) or Physics 344 (46b) may be taken concurrently with E.E. 252-253 (61a-61b). This allows E.E. 254-255 (63a-63b) to be taken the second semester of the senior year.

5. Technical Options: Chem. 110 (10), 124 (24), 234 (34), 336 (36), 337 (37), 341 (41), 342 (42), 343 (43), 344 (44), 397 (97), 398 (98); E.E. 230-231 (32a-32b), 244-245 (62a-62b), 250-251 (48a-48b), 252-253 (61a-61b), 254-255 (63a-63b); Geology 102 (2a), 150 (43), 246 (61); Math 161 (22), 317-318 (70a-70b), 327-323 (72a-72b), 347-348 (71a-71b), 361 (21); N.E. 184 (87), 371 (35), 372 (36); any courses in Physics or Astronomy; T.A.M. 211 (2), 221 (3), 223 (63).
A PHYSICS MAJOR

In the College of Liberal Arts and Sciences

Major: Twenty hours in physics excluding courses with numbers lower than 200.

Minors: Twenty hours in one or two of the following subjects, with not less than 8 hours in each if two are chosen: astronomy, chemistry, education, geology, mathematics, zoology, or any one branch of engineering.

For undergraduate students taking advanced work or a major in physics, the following courses are suggested: First year: Trigonometry and analytic geometry. Second year: Physics 103, 104, and calculus. Third year: Physics 281, 321, 322, 341, 342, 343, and 360. Fourth year: Physics 344, 371, 372, 373, 374, 381, and 392.
COLLEGE OF LIBERAL ARTS AND SCIENCES

CURRICULUM PREPARATORY TO THE TEACHING OF PHYSICS

For the Degree of Bachelor of Science in the Teaching of Physics

Adviser: Professor R. F. Paton -- 206 Physics Laboratory

For students preparing to teach Physical Science with a major in Physics and with minors in Mathematics and Chemistry. Students entering this curriculum should have 2½ units of high school mathematics.

The courses outlined below total 132 to 137 hours. A minimum of 129 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>First Year</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhet.101--Rhetoric and Composition...</td>
<td>3</td>
<td>Rhet.102--Rhetoric and Composition.</td>
</tr>
<tr>
<td>Hygiene 102 or 105--Hygiene and Sanitation.</td>
<td>2</td>
<td>Math.127--Combined Freshman Mathematics.</td>
</tr>
<tr>
<td>Math.117--Combined Freshman Mathematics.</td>
<td>5</td>
<td>Chem.105--Inorganic Chemistry and Qualitative Analysis.</td>
</tr>
<tr>
<td>Chem.101 or 102--Inorganic Chemistry.</td>
<td>5 or 3</td>
<td>Psych.100--Introduction to Psychology</td>
</tr>
<tr>
<td>Physical Education.</td>
<td>1</td>
<td>Physical Education.</td>
</tr>
<tr>
<td>Military Science (for men).</td>
<td>1</td>
<td>Military Science (for men).</td>
</tr>
<tr>
<td>Electives.</td>
<td>0 to 2</td>
<td>Total.</td>
</tr>
<tr>
<td>Total.</td>
<td>14-19</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
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<tbody>
<tr>
<td>Physics 103 or 101--General Physics (Mechanics, Sound and Heat).</td>
<td>5</td>
</tr>
<tr>
<td>Ed.100--The American Public School.</td>
<td>2</td>
</tr>
<tr>
<td>Math.132--Calculus.</td>
<td>5</td>
</tr>
<tr>
<td>Foreign Language.</td>
<td>4</td>
</tr>
<tr>
<td>Military Science (for men).</td>
<td>1</td>
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<tr>
<td>Physical Education.</td>
<td>1</td>
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<tr>
<td>Total.</td>
<td>17-18</td>
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<table>
<thead>
<tr>
<th>Third Year</th>
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<tbody>
<tr>
<td>Advanced Physics.</td>
<td>5</td>
</tr>
<tr>
<td>Pol.Sci.150--American Government.</td>
<td>3</td>
</tr>
<tr>
<td>Chem.133--Elementary Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Ed.109--Educational Psychology</td>
<td>3</td>
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<tr>
<td>Total.</td>
<td>16</td>
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</tbody>
</table>

| Total. | 16-17 |

| Second |
|-------|---|
| Math.142--Calculus. | 3 |
| Chem.122--Elementary Quantitative Analysis. | 5 |
| Foreign Language. | 4 |
| Military Science (for men). | 1 |
| Physical Education. | 1 |
| Total. | 18-19 |

| Third |
|-------|---|
| Advanced Physics. | 5 |
| Hist.152--History of the U.S., 1828-1948. | 3 |
| Ed.240--Principles of Secondary Education. | 3 |
| Math.301--Fundamental Concepts of Mathematics. | 3 |
| Speech 101--Principles of Effective Speaking. | 3 |
| or Speech 141--Oral Interpretation of Literature. | 2 |
| Total. | 16-17 |
Secondary Education (Sec. I)........ 5
Electives2.................................. 2
Total...................................... 16

Fifth Year

For the Degree of Master of Science in the Teaching of Physics

Eight units of work are required, including four in physics, two in education, and two units in electives. Courses must be selected with the consent of the adviser, who will see that the candidate strengthens areas in which he is weakest. No thesis is required.

<table>
<thead>
<tr>
<th>Units</th>
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<tbody>
<tr>
<td>Physics</td>
<td>4</td>
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<tr>
<td>Ed.409</td>
<td>1</td>
</tr>
<tr>
<td>Ed.400</td>
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<td>or</td>
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</tr>
<tr>
<td>Ed.302</td>
<td>1</td>
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<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
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</tbody>
</table>

For the Degree of Master of Science in the Teaching of the Physical Sciences

A special program leading to the degree of Master of Science in the Teaching of the Physical Sciences is available to meet the needs of students who wish to study in both chemistry and physics rather than to specialize in one department. It is designed primarily for those preparing to teach the physical sciences in high school. Students working toward a degree under the provisions of this program are expected to seek approximately equal proficiency in both physics and chemistry; those whose undergraduate work has emphasized chemistry should balance this by weighting the graduate work in favor of physics, and vice versa. No thesis is required, and all courses in physics and chemistry which normally give graduate credit will carry credit toward the degree. To qualify for the degree, a student must have had, or must include in his program, at least one course in mathematics beyond the calculus, and for which the calculus is prerequisite.

<table>
<thead>
<tr>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>Ed.409 Advanced Educational Psychology</td>
<td>1</td>
</tr>
<tr>
<td>Ed.400 Philosophy of Education</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Ed.302 History of American Education</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
</tr>
</tbody>
</table>

1. Courses in physics for the senior year are to be chosen from those numbered 300 or higher.
2. Electives should be chosen from courses listed for advanced undergraduates in chemistry and mathematics, additional courses in advanced physics, and courses in electrical engineering.
Undergraduate Minor in Physics

Physics 103 and 104, or 101 and 102—General Physics

Advanced physics

Total

Hours

10

10

20
DEGREES CONFERRED

June 1948

M.S. in Physics
Joseph John Arlott
ci
Justin Calhoun Crawford
Kenneth H. Ferguson
Philip Chapin Fisher
Robert Stephen Foote
Marvin Harold Friedman
Richard Elliot Johnson
Samuel Harold Levine
Clayton Junior McDoel
Theodore Mischel
Grace Charbornet Moulton
Marlin Eugene Remley
Walter Stober
Robert Stump
Allan VanDuren
Robert Clinton Waddell
Joseph Henry Wegstein
Ephraim Weiss
Donald Ernest Willig
Shi-Shu Wu

M.A. in Physics
Lawrence Wellburn Fagg
Jack Guppy Stateler

B.A. in Physics
Robert Peter Paul Kling
Lila Mae Wells

B.S. in Physics
Albert Eugene Murray

B. S. Teaching of Physics
Owen Cornelius Hawse

B.S. in Engineering
Howard Henry Balie
Edmond Brown
Robert James Davisson Evey
Joseph Wincor
Joseph Larrin Morrison
Edward Lee Noman
Horace Edsall Seely, Jr.

August 1948

M.S. in Physics
Gerald Paul Beck
Malcolm McConan Clark
William Marland Hall
Irwin William Janney
Ralph Owen Kornman
William Eberle Kreger
Robert Andrew Kromhout
James Edgar Lindsay, Jr.
Donald Robert Maxon
Robert Hawley McMickle

M.A. in Physics
Summer Prindle Davis
Miles Thomas Pigott

B.S. in Physics
Nelson Thomas Grisamore
Norton Leonard Niose
Robert George Pohl

B.S. in Engineering Physics
Henry Benjamin Hardy, Jr.
Van Olin Nicolai

October 1948

M.S. in Physics
Andrew Lee Atkins, Jr.

Frederick H. Griles

+ Valedictorian; * Bronze Tablet;
H With Honors; HH With High Honors
February 1949

**Ph.D. in Physics**
Peter Axel
Robert Kenley Clark
Ralph Ernest Meagher
James Alfred Phillips
Franklin Alanson Rodgers
Andrew William Sunyar

**M.S. in Physics**
David Bellamy Dutton
John Cyrus Fuhrmeister
Donald Harvey Glenny
Efram Richard Lavine
Joel Smith Lawson
Walter Orville Mansfield, Jr.
Robert Edmund Rowland
William W. Schriever

**M.A. in Physics**
Robert Lay Hickmott

**B.A. in Physics**
Paul Richard Klein

**B.S. in Physics**
William Joseph Cadden
Bernard Allen Smith

**B.S. in Engineering Physics**
Robert Wayne Corwin
Arden Houston Gaddis
Thomas Golden Morrison
James Valentine Ryan

---

**CANDIDATES FOR DEGREES IN PHYSICS, JUNE 1949**

**Ph.D. in Physics**
Sidney David Drell
Erwin Louis Hahn
Robert Katz
Howard Allen Leiter

**M.S. in Physics**
John Sanborn Blair
Liang Chang
Fraser Scholfield Grant
Kazuyuki Hiroshige
Melvin Howard Kalos
Walter Yoneo Kato
Stuart Phinney Lloyd
Harry Lustig
Sydney Meshkov
Norton Leonard Moise
Ira Pullman
Merrill Blood Scott
Benjamin Segal
Lee Palmer Stephenson

**M.A. in Physics**
Charles Palmer Bean
Thomas Blaney Elfe, Jr.
Thomas Nolen Morgan
Lawrence Thompson Zimmer

**B.A. or B.S. in Physics**
Russell Martin Ball
James Walter Daanen
Frederick Eugene Mills, III
Rollin Wallace Workman

**B.S. in Engineering Physics**
Henry Oliver Barton
Howard Gordon Cooper
James Gary Cottingham
Frank Shilling Eby
Robert Martin Eisberg
David Sutphin Heeschen
James Robert Howard
Paul Charles Kallenbach
Richard Emery Lovett
Irwin Roberts McClintock
Frank Schroeder, Jr.
Dean Manly Vander Stoep
Ira Weissman
William Charles Wiley
Charles E. Yale, Jr.
<table>
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<tr>
<th>Date</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>October 7</td>
<td>Professor D. W. Kerst</td>
<td>&quot;Initial Operation of the 75 Mev Betatron&quot;</td>
</tr>
<tr>
<td>October 14</td>
<td>Professor S. M. Dancoff</td>
<td>&quot;Does the Neutrino Really Exist&quot;</td>
</tr>
<tr>
<td>November 4</td>
<td>Professor G. M. Almy</td>
<td>&quot;Spectroscopic Determination of Spins of Carbon Nuclei&quot;</td>
</tr>
<tr>
<td>November 10</td>
<td>Professor E. Teller</td>
<td>&quot;The Origin and Abundance of the Chemical Elements&quot;</td>
</tr>
<tr>
<td>November 18</td>
<td>Doctor Robert Maurer</td>
<td>&quot;Diffusion and Conductivity in Alkali Halide Crystals&quot;</td>
</tr>
<tr>
<td>November 22</td>
<td>Professor C. Moller</td>
<td>&quot;Present Status of Meson Theory&quot;</td>
</tr>
<tr>
<td>December 2</td>
<td>Professor R. D. Rawcliffe</td>
<td>&quot;Fluorescence and Phosphorescence of Poly-atomic Molecules&quot;</td>
</tr>
<tr>
<td>December 9</td>
<td>Professor A. T. Nordsieck</td>
<td>&quot;Methods of Measuring Nuclear Spins&quot;</td>
</tr>
<tr>
<td>December 16</td>
<td>Professor A. C. Hanson</td>
<td>&quot;Photo-neutron Thresholds&quot;</td>
</tr>
<tr>
<td>January 6</td>
<td>Professor A. Longacre</td>
<td>&quot;Blackett's Theory of Magnetism of Massive Bodies&quot;</td>
</tr>
<tr>
<td>January 13</td>
<td>Mr. John Blatt</td>
<td>&quot;Lateral Structure of Extensive Cosmic Ray Air Showers&quot;</td>
</tr>
<tr>
<td>February 10</td>
<td>Doctor Robert I. Hulsizer</td>
<td>&quot;Primary Cosmic Radiation&quot;</td>
</tr>
<tr>
<td>February 17</td>
<td>Doctor J. A. Phillips</td>
<td>&quot;Triplet Production&quot;</td>
</tr>
<tr>
<td>February 24</td>
<td>Mr. H. A. Leiter</td>
<td>&quot;Some Experimental Results of the D-D Reaction&quot;</td>
</tr>
<tr>
<td>Date</td>
<td>Speaker and Title</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------------------------------------</td>
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<tr>
<td>March 3</td>
<td>Doctor A. Wattenberg, &quot;Photo-disintegration Work at the Argonne National Laboratory&quot;</td>
<td></td>
</tr>
<tr>
<td>March 10</td>
<td>Professor W. E. Meyerhof, &quot;Angular Correlation of Beta and Gamma Rays&quot;</td>
<td></td>
</tr>
<tr>
<td>March 24</td>
<td>Professor J. F. Carlson &quot;Some Problems of Steady State Flow&quot;</td>
<td></td>
</tr>
<tr>
<td>April 7</td>
<td>Professor R. G. Sachs, &quot;The Interaction of Nucleons with Electromagnetic Radiation&quot;</td>
<td></td>
</tr>
<tr>
<td>April 4</td>
<td>Doctor K. K. Darrow, &quot;Linguistics of Solid State Physics&quot;</td>
<td></td>
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<tr>
<td>April 21</td>
<td>Mr. E. L. Hahn, &quot;Nutation of the Nuclear Magnetic Moment&quot;</td>
<td></td>
</tr>
<tr>
<td>May 5, 1949</td>
<td>Doctor R. E. Meagher, &quot;Experimental Proton-Proton Scattering at 5 Mev and Deuteron-Proton Scattering at 10 Mev&quot;</td>
<td></td>
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<tr>
<td>May 12</td>
<td>Mr. P. Axel, &quot;Classification of Isomeric Transitions&quot;</td>
<td></td>
</tr>
<tr>
<td>May 19</td>
<td>Professor G. Wentzel, &quot;Are Pi-Mesons Polarized&quot;</td>
<td></td>
</tr>
</tbody>
</table>
Physics Journal Club
1948-49

September 20
Doctor G. Friedlander, "Yield of X-Rays Induced Nuclear Reactions" and other reports on recent results.

October 4
Professor M. Goldhaber, "Spins of Nuclei of Mass No. 10"

October 11
Mr. Peter Sherk, "Capture of the Beta-Ray of Tritium into a Bound Orbit"

October 18
Professor W. E. Meyerhof, "Deviations from the Fermi Theory of Beta Decay"
Mr. P. Axel, "Short-lived Isomers of Nuclei"

October 25
Mr. P. Axel, "Short-lived Isomers of Nuclei"
Professor H.W. Koch, "General Electric Pair Spectrometer"

November 15
Mr. S. D. Drell, "Magnetic Internal Conversion"
Doctor C. S. Robinson, "The General Electric Non-ferromagnetic Synchrotron"

December 13
Mr. G. L. Griffith, "Neutron-Deuteron Scattering at 12-13 Mev"
Mr. J. S. Blair, "Comparison of Dipole and Quadrupole Interactions in Electro-disintegration"

January 10
Mr. R. Katz, "Coincidence Spectroscopy on a Double Beta-Ray Spectrograph"
A. Nordsieck, "Shell Model of Nuclei"

February 7
Doctor J. Snyder, "Stimulated Decay of Mesons"
Mr. P. Axel, "High Energy (n,p) Scattering Experiments"

February 14
Professor P. G. Kruger, "Radiation Protection for Personnel"
Doctor R. Becker, "Doppler Effect of Gamma Radiation"

February 21
Doctor E. M. Lyman, "Method of Finding the Paths of Charged Particles in a Magnetic Field"
S.M. Dancoff, "Fermi's Theory of the Origin of Cosmic Rays"

April 11
Mr. H. Kubitschek, "Capture Gamma-Ray Studies"
<table>
<thead>
<tr>
<th>Date</th>
<th>Presentation</th>
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</thead>
<tbody>
<tr>
<td>September 20</td>
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<td></td>
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<td></td>
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<td></td>
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<td>Doctor R. Becker, &quot;Doppler Effect of Gamma Radiation&quot;</td>
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<td>February 21</td>
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<td></td>
<td>S.M. Dancoff, &quot;Fermi's Theory of the Origin of Cosmic Rays&quot;</td>
</tr>
<tr>
<td>April 11</td>
<td>Mr. H. Kubitschek, &quot;Capture Gamma-Ray Studies&quot;</td>
</tr>
</tbody>
</table>
April 11
Mr. A. Sunyar, "Slow Neutron Resonances in "Even-Even" Nuclei"

April 25
Mr. H. Kubitschek, "Capture Gamma Ray Studies"
Doctor R. Hill, "Tellurium Isomers"

May 9
Mr. L. Bess, "Corrections to the Born Approximation in Bremsstrahlung"
Professor G. M. Almy, "Topics from Spectroscopy Symposium at Washington APS meeting"

May 16
Mr. E. G. Fuller, "Photo-Disintegration of Deuteron by X-Rays from 20 Mev Betatron"
Professor A. Nordsieck, "Molecular and Atomic Clocks"
<table>
<thead>
<tr>
<th>Date</th>
<th>Lecturer</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 11</td>
<td>Mr. H. Bowlden</td>
<td>&quot;Feynman's Subtraction Prescription&quot;</td>
</tr>
<tr>
<td>March 18</td>
<td>Mr. L. Bess</td>
<td>&quot;Born-Infeld Electron Theory&quot;</td>
</tr>
<tr>
<td>March 25</td>
<td>Professor J. F. Carlson</td>
<td>&quot;Variational Methods Applied to Scattering Problems&quot;</td>
</tr>
<tr>
<td>April 1</td>
<td>Doctor J. Snyder</td>
<td>&quot;Higher Order Perturbation Theory as Applied to Certain Stimulated Processes&quot;</td>
</tr>
<tr>
<td>May 13</td>
<td>Doctor S.M. Dancoff</td>
<td>&quot;Effect of Recoil on Nuclear Forces&quot;</td>
</tr>
<tr>
<td>May 6</td>
<td>Professor A. Nordsieck</td>
<td>&quot;Finkelstein's Electron Theory&quot;</td>
</tr>
<tr>
<td>May 20</td>
<td>Professor Wentzel</td>
<td>&quot;The Calculation of $\pi$ Meson Polarization&quot;</td>
</tr>
</tbody>
</table>
Special Lectures
1948-1949

Dr. D.W. Fry, Ministry of Supply, T.R.E., England
June 19, 1948 "The British Linear Electron Accelerator"

W. Shockley, Bell Telephone Laboratories,
November 29, 1948, "Transistors"

Dr. H. Alfven, Bell Telephone Laboratories, November 29, 1948, "Trochoidal Electron Beam Tubes and Their Uses for Counting"
RECORD OF GENERAL ACTIVITIES

May 1, 1947 to April 30, 1949

Name Adams, Gail D.
Title Research Assistant Professor in Physics

New degree, name institution granting

Membership in technical societies and fraternities

- American Physical Society
- Society of the Sigma Xi
- Tau Beta Pi
- Phi Kappa Phi
- Pi Mu Epsilon

Attendance at meetings of technical societies
- Chicago-American Roentgen Ray Society, Sept. 1948
- Madison-American Physical Society, June 1948
- Local meetings of Sigma Xi

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

The measurement of absorption coefficients for quanta in the energy range 10 - 20 mev by the method of threshold detectors has been carried to the point of diminishing returns. Measurements by other methods are presently being investigated. Development of the nuclear plate technique has also been undertaken. I have participated in a project which had as its purpose a detailed consideration of all matters pertinent to using the betatron for medical therapy.
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date


ADRESSES—Title, where given, and date
Chicago Meeting—American Roentgen Ray Society, September, 1948—"Application of the Betatron to Medical Therapy"

Madison Meeting—American Physical Society, June 1948—"Absorption of 10 - 20 Mev. Quanta".

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
COLLEGE OF ENGINEERING—UNIVERSITY OF ILLINOIS

RECORD OF GENERAL ACTIVITIES

May 1, 1948 to April 30, 1949

Name: James A. Allen
Title: Assoc. Prof. of Physics

New degree, name institution granting

Membership in technical societies and fraternities

Member, Sigma Xi

Attendance at meetings of technical societies

Chicago Meeting, Nov 48
Washington, D.C. Meeting, April 49

MEMBERSHIP ON COMMITTEES

College

University

Phys. Journal Club Committee

Technical societies

In Progress:
Design and construction of ultra-fast amplifiers to be used with electron multiplier tubes

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

In Progress: An investigation of the capture of orbital electrons by Be. This experiment should yield new information regarding the neutrino. The research work has been performed by a graduate student.
Publications

Particle Detection With Multiplexer Tubes,
Nucleonics 3 34 (1948)

Search for the Neutrino Through Nuclear
Recoil Experiments,
American Journal of Physics 16 451 (1948)

H. R. Paneth and A. H. Morrill
Electron-Neutrino Angular Correlation
in the Beta-Decay of H-6
Physical Review 75 570 (1948)

Addresses

Membership on Committees

Other Professional Activities, Including Summer Work

Consultant - Los Alamos Scientific Lab.
June - Aug. 1948
Name        Almy G M
Title       Professor - Physics
New degree, name institution granting     
Membership in technical societies and fraternities 

Attendance at meetings of technical societies
  Washington April, 1949

MEMBERSHIP ON COMMITTEES

College  Phys Dept.
    Examinations of Graduate Students - Chairman.
    Building & Power
    Selection of Assistants, Scholars & Fellows.

University
    Chairman, Committee on Job Specifications for Lab. Mechanics
    (Appointed by Dickason)

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

  (Gamma, proton) reactions, using 20 mev betatrons + photo, emulsions
  with B.C. Ovian.

  Absorption spectra of small specimens at low temperatures, with Wayne Thomas.

  Development of vacuum tubes for betatrons.

3000-6-48-26881-S
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

None

ADDRESS——Title, where given, and date

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Taught summer session, 1948, U of I
RECORD OF GENERAL ACTIVITIES

Name: P. Axel

Attendance at meetings of technical societies:

- New York meeting
- American Physical Society, Jan 1949

Membership on Committees:

College

University

Technical societies

Research completed this year or in progress:

1. Classification of Isomeric Transitions
2. Miscellaneous studies in beta-ray spectroscopy
3. Investigation of half-life of Po-209
4. Study of firing characteristics of Geiger counters
PUBLICATIONS----Co-author, Title, Journal or Publisher, Volume, Page, and Date

Address, where given, and date

MEMBERSHIP ON COMMITTEES

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
COLLEGE OF ENGINEERING—UNIVERSITY OF ILLINOIS

RECORD OF GENERAL ACTIVITIES

May 1, 19 to April 30, 19

Name Bartlett, James H.
Title Professor of Physics

New degree, name institution granting

Membership in technical societies and fraternities

Fellow - American Physical Society
Member - Marine Biological Laboratory, Woods Hole, Mass.
- Sigma Xi

Attendance at meetings of technical societies
American Physical Society - New York Jan '49
- Washington May '49

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

The Helium Wave Equation (50% complete)

Transients in Electrolytes (in progress)
(with L.P. Stephenson)
Publications—Co-author, Title, Journal or Publisher, Volume, Page, and Date

Comparison of transients in inorganic systems with those in plant and nerve cells.

J. Cell. and Comp. Physiol. v32, pp 1-30 (1948)

Addresses—Title, where given, and date

The Physical Nature of Nerve Conduction
Princeton (colloquium) N.J. Nov 11, 1948

Asymptotic Solutions of the van der Pol equation
Princeton (math. seminar) N.J. Jan 1949

The Decay of the \( p^- \) meson
Urbana (theor. phys. seminar) Ill. Mar 1949

Other Professional Activities, Including Summer Work

I am writing a biophysics textbook, which is about half finished.

Attended Marine Biological Laboratory, Summer 1948.
Name: Becker, Robert A.
Title: Assistant Professor of Physics

New degree, name institution granting:

Membership in technical societies and fraternities:
- American Physical Society (Fellow)
- American Institute of Physics
- A.A.A.S. (Fellow)

Attendance at meetings of technical societies:

MEMBERSHIP ON COMMITTEES:
- Department: Journal Club Committee
- College: Placement Committee

University:

Technical societies:

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS:

Engaged in beta-ray spectroscopy utilizing sources produced with the 22 Mev betatron. Have been able to produce sources having a very high specific activity.
PUBLICATIONS---Co-author, Title, Journal or Publisher, Volume, Page, and Date

"Thresholds for Several Photo-Nuclear Reactions"
McElhinney, Hanson, Becker, Duffield, and Diven
Phys. Rev. 75, 542-554 (1949)

ADDRESSES---Title, where given, and date

"Sources of High Specific Activity Produced with a Belatron" given a 10-minute paper delivered at the Wash., D.C. meeting of the American Physical Society on April 28-30, 1949.

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Summer Teaching. wrote first draft of a text on Physical Mechanics intended for juniors, seniors, and first year graduates.
RECORD OF GENERAL ACTIVITIES

May 1, 1948 to April 30, 1949

Name: S. M. Dancoff
Title: Professor

New degree, name institution granting: 

Membership in technical societies and fraternities:
- Physical Society
- Sigma Xi

Attendance at meetings of technical societies:

Meetings of Physical Society at Chicago and at Washington.

MEMBERSHIP ON COMMITTEES

College

University

(Committee to nominate Math. Department head (Johnstone, Chun.)

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

- Classification of nuclear isomers (completed)
- Capture of ray studies (completed)
- Scattering of neutrons by electrons (completed)
- Relativistic meson theory of nuclear forces (in progress)
- Capture and decay of \( \mu \) mesons (in progress)
PUBLICATIONS---Co-author, Title, Journal or Publisher, Volume, Page, and Date

(Three in press)

ADDRESSES---Title, where given, and date


Physics Colloquium talk; numerous seminar talks.

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Summer school, UCLA, June-August '48
Consultation, Radiation Lab, U. of Cal., Berkeley, August '48
Consultation, Oak Ridge National Lab, Dec '48.
COLLEGE OF ENGINEERING—UNIVERSITY OF ILLINOIS

RECORD OF GENERAL ACTIVITIES

May 1, 1948 to April 30, 1949.

Name            Bufffield, Robert B.
Title            Asst. Prof. of Physics & Chemistry

Name of institution granting new degree

Membership in technical societies and fraternities

- American Physical Society
- American Chemical Society
- Sigma Xi

Attendance at meetings of technical societies

- American Physical Society in Chicago, November 1948
- American Physical Society in Berkeley, Calif., Feb. 1949

MEMBERSHIP ON COMMITTEES

College

- None.

University

- Radiation Safeguards Committee of the University Research Board

Technical societies

- Radiochemistry Sub-Committee of the Committee on Nuclear Science of the National Research Council

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

1. Radioactive Silver isotopes Produced by Photodissociation of Cobalt, Phys. Rev. 75, 1613 (1949) (With J. D. Knight)


PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date


ADDRESSES—Title, where given, and date


OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

1- Taught Chem. 41 & Chem. 94 during summer of 1948.

2- As consultant on scientific matters to the United States Atomic Energy Commission, I spent two weeks in January 1949 at the Lawrence Laboratory of the University of California.

3- Consultant to Radium & Radium Corporation, Chicago for two days April 1949.
Name: Robert Emerson
Title: Research Professor
New degree, name institution granting
Membership in technical societies and fraternities

Attendance at meetings of technical societies

Membership on Committees

College

University: Chairman, committee for physico-chemical biology curriculum
Member, Biology Division shop committee

Technical societies

Research completed this year or in progress

The quantum requirement of photosynthesis
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

May 19 to April 30, 19

New entries above indicate contribution above
New entries above indicate contribution above

ADDRESSSES—Title, where given, and date

MEMBERSHIP ON COMMITTEES

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
RECORD OF GENERAL ACTIVITIES

May 1, 1948 to April 30, 1949

Name  GERTRUDE SCHARFF GOLDHARE
Title  Special Research Assistant Professor

New degree, name institution granting

Membership in technical societies and fraternities
  Fellow of the American Physical Society
  Sigma Xi

Attendance at meetings of technical societies

  Am. Phys. Soc. Chicago Meeting, November 1948
  Symposium on "Classical Nuclear Physics", Chicago, December 1948
  " " " New York Meeting, January 1949
  " " " Washington Meeting, April 1949

MEMBERSHIP ON COMMITTEES

College

University
  Committee on Foreign Language Examinations

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS:

  Discovery of a metastable state in Te$^{125}$; determination of its decay constant and study of its disintegration scheme. Search for "positronium". Study of low energy electrons.
PUBLICATIONS---Co-author, Title, Journal or Publisher, Volume, Page, and Date


ADDRESSSES---Title, where given, and date

Disintegration Scheme of Te$^{125m}$. Symposium on Classical Nuclear Physics. Chicago December 27, 1948.

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Editorial work on volume on "Nuclear Physics" of Plutonium Project Record.

Research at Brookhaven National Laboratory during Summer 1948.

Consultant to Argonne and Brookhaven National Laboratories.
College of Engineering—University of Illinois

Record of General Activities
May 1, 1948 to April 30, 1949

Name: M. Goldhaber
Title: Professor of Physics

New degree, name institution granting:

Membership in technical societies and fraternities:
- Physical Society
- Sigma Xi
- Chaos Club

Attendance at meetings of technical societies:
- Conference on "Classical Nuclear Physics," Chicago, Dec. 1948

Membership on committees:

College

University

Technical societies:
- Neutron Standard Committee of National Research Council

Research completed this year or in progress:
- Search for "positronium"
- Nuclear Isomers; Widths of neutron resonances
- Doppler effect for neutron resonances
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

1) Will G. Schaff ; Goldhaber: Identification of Beta-rays with Atomic Electrons, Phys. Rev. 73, 472 (1948)
2) " W. E. Meyerhof: Notes on the Beta-ray spectra from C14, Phys. Rev. 74, 348 (1948)
3) " E. Teller: on Nuclear Dipole Vibrations, Phys. Rev. 74, 1046 (1948)
4) Note on the Spins of Nuclei of Mass Number Ten, Phys. Rev. 74, 1144 (1948)
5) Will G. Friedlander and S. Schaff; Goldhaber: Long-lived metastable state of Te65, Phys. Rev. 74, 988 (1948)
6) " C. O. Muckhause: Metastable State of S64, Phys. Rev. 74, 1877 (1948)
10) " A. H. Simpson: Resonance Neutron Activation of "even-even" Nuclei, Bull.

ADDRESSES—Title, where given, and date

Three lectures on Nuclear Physics at Brookhaven National Laboratory August 1948
Excited States of Nuclei, Chicago Reading of Am. Phys. Soc., Midwest
Nuclear Excited States, Conference on Clase. Phvs., Chicago Dec. 48.

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Consultant to Argonne National Laboratory
" Brookhaven
" Oak Ridge

Summer work at Brookhaven
COLLEGE OF ENGINEERING--UNIVERSITY OF ILLINOIS

RECORD OF GENERAL ACTIVITIES

May 1, 19___ to April 30, 19___

Name
Title
New degree, name institution granting

Membership in technical societies and fraternities

American Physical Society

Attendance at meetings of technical societies

June 21-23, 1948, Madison, Wis.

Nov 26-27, 1948, Chicago, Ill.

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

National Research Council
Subcommittee on Neutron Measurements and Standards

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

Graduate Students on problems using X-ray and electrons from 22 MeV betatron.

1. Study of protons from photo-Deuteron.

2. Efficiency and production of X-rays by electrons.


5. Electron Scattering at 15 MeV.
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

J. M. Elkinney, A. O. Hanson, R. A. Becker, R. B.uffield and B. E. Diven, Thresholds for several Photo- Nuclear Reactions, Physical Review, 74, 542, 1949

A. O. Hanson and R. F. Tossel, Monoenergetic Neutrons from Charged Particles Reactions,
Cordwinary Report # 4 of Nuclear Science Series
Sponsored by the National Research Council

ADDRESSES—Title, where given, and date

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Consultant to Los Alamos Scientific Laboratory

Consultant to Armour Research Foundation on special research problem for Ordinance
Name: ROBERT DICKSON HILL
Title: ASSISTANT PROFESSOR

New degree, name institution granting:

Membership in technical societies and fraternities:

FELLOW AMERICAN PHYSICAL SOCIETY.
(TRANSFERED FROM MEMBERSHIP, JAN, 1949.)

Attendance at meetings of technical societies:

MEMBERSHIP ON COMMITTEES

College: ENGINEERING COLLEGE COMMITTEE ON LIBRARY.

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS
INTERNAL CONVERSION ELECTRON SPECTRA
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date


ADDRESSES—Title, where given, and date

MEMBERSHIP ON COMMITTEES

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
COLLEGE OF ENGINEERING--UNIVERSITY OF ILLINOIS

RECORD OF GENERAL ACTIVITIES

May 1, 1948 to April 30, 1949.

Name: Donald William Kerst
Title: Professor of Physics

New degree, name institution granting

Membership in technical societies and fraternities
- American Physical Society
- Society of the Sigma Xi
- Phi Kappa Phi
- Chaos Club

Attendance at meetings of technical societies
- Birmingham Meeting-England, September, 1948
- American Physical Society Meeting, Washington, April 30, 1949
- American Physical Society Meeting, Chicago, November, 1948
- Sigma Pi Sigma

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

Research on 300 MEV betatron
PUBLICATIONS----Co-author, Title, Journal or Publisher, Volume, Page, and Date


ADDRESSES----Title, where given, and date

"Betatron Model" - given at Chicago Meeting, November, 1948.


"The Quest of the Scientist for High Energy" Southern Illinois University, Carbondale, Illinois- May, 1949-Installation of Sigma Pi Sigma

University of Pennsylvania-Opening Ceremonies of Betatron Bldg.-December, 1948.

College of Medicine, University of Illinois-Ground breaking ceremony for betatron bldg.

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
RECORD OF GENERAL ACTIVITIES

May 1, 1948 to April 30, 1949

Name Jere D. Knight
Title Special Research Associate in Physics
New degree, name institution granting none
Membership in technical societies and fraternities
  American Chemical Society
  American Association for the Advancement of Science
  Sigma Xi
  Phi Lambda Upsilon

Attendance at meetings of technical societies
  American Chemical Society, fall meeting 1948, Portland, Oregon
  American Physical Society, November meeting 1948, Chicago, Ill.
  American Chemical Society, spring meeting 1949, San Francisco, Cal.

MEMBERSHIP ON COMMITTEES

College none
University none
Technical societies none

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

Completed:
1. Radioactive Silver Isotopes Produced by Photodisintegration of Cadmium,
2. In$^{118}$ and In$^{119}$ Produced by Photo-Disintegration of Tin,
3. Radioactivity of Mo$^{91}$ and Mo$^{93}$,
   R. B. Duffield & J. D. Knight, Phys. Rev. 76, 573 (1949)
4. Thresholds for Photo-Neutron Reactions in Mn, Zn, Zr, Mo, Cd, Pr, Nd, Au, Hg, Tl, & Pb
   A. C. Hanson, R. B. Duffield, J. D. Knight, B. C. Diven, & H. Palevsky, Phys. Rev. 76, 578 (1949)
Research in Progress: Characterization and assignment of various radioactive tin isotopes.
(with R. B. Duffield)

PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

See Research Completed. Although the work leading to these publications was completed within the time covered by this questionnaire, the publications themselves appeared after April 30, 1949, and so were not listed in this space.

ADDRESSES—Title, where given, and date
none

MEMBERSHIP IN COMMITTEES
none

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
none
Name: Herman William Koch
Title: Research Assistant Professor

Membership in technical societies and fraternities
Sigma Xi
Phi Kappa Phi
Fellow in the American Physical Society

Attendance at meetings of technical societies

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS
1. Determination of the bremsstrahlung distribution from a betatron - completed
2. Calculations of Magnetic Field distributions produced by large cross-section air-core coils - completed
3. A study of the momentum distributions for the recoil nucleus in pair production - completed
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date


OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

RECORD OF GENERAL ACTIVITIES
May 1, 1948 to April 30, 1949

Name: P.G. Kruger
Title: Professor

New degree, name institution granting: None

Membership in technical societies and fraternities:
- Phi Kappa Phi
- Sigma Xi
- American Physical Society (Fellow)

Attendance at meetings of technical societies:
- American Physical Society - Madison, Wisconsin - June 1948
- American Physical Society - University of Chicago - November 1948
- American Physical Society - New York City - January 1949
- American Physical Society - Washington, D.C. - April 1949

MEMBERSHIP ON COMMITTEES

College:
Building, Power and Space (Chairman)
Assistants, Scholars and Fellows

University:

Technical societies:

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

With Phillips - Ratio of the cross section of triplet production to pair production.
With Meagher - Proton-proton scattering at 5 mev.
With Rodgers - Deuteron-proton scattering at 10 mev.
With Leiter - Angular distribution of protons from the d,d reaction at 10 mev.

The above researches have been completed. Those in progress follow:
- Scattering of neutrons by protons at 12 mev with Griffith.
- Photo-disintegration of the deuterons with Phillips.
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

Name...
Title...
The Professor...
New career name in institution...
New career in institution...
Membership in technical societies...
Member in...
American Telephone Society (Retired)

Attended meetings of technical society:

ADDRESSES—Title, where given, and date

MEMBERSHIP ON COMMITTEES

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
RECORD OF GENERAL ACTIVITIES
May 1, 1948 to April 30, 1949

Name: Longacre, Andrew

Title: Assoc. Professor

New degree, name institution granting:

Membership in technical societies and fraternities:
- A.P.S.: 1
- A.P.T.: 1
- A.A.A.S.
- Sci. Master (Bril)

Attendance at meetings of technical societies:
- Chicago A.P.S. Nov '48
- Washington A.P.S. Apr '49

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS:

...
PUBLICATIONS----Co-author, Title, Journal or Publisher, Volume, Page, and Date

ADDRESSES----Title, where given, and date

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
Name: Francis Wheeler Loomis

Title: Professor of Physics and Head of the Department

New degree, name institution granting:

Membership in technical societies and fraternities:

- American Physical Society (Fellow)
- Optical Society of America (Fellow)
- Amer. Assn. for Advancement of Sci. (Fellow)
- Deutsche Physikalische Gesellschaft
- American Assn. of University Professors
- American Assn. of Physics Teachers
- Illinois State Academy of Science
- Chaos Club; Phi Beta Kappa; Sigma Xi

Scientific attendance at meetings of technical societies:

- American Physical Society: Madison, Wis., June 21-23, 1948
- Madison, Wis., Nov. 26-27, 1948
- New York City, Jan. 26-29, 1949
- Cleveland, Ohio, Mar. 10-12, 1949
- Washington, D.C., Apr. 28-30, 1949

Membership on Committees:

College:
- Executive Committee- Engineering College
- Station Staff
- Executive Faculty - Graduate College

Off-Campus:
- A.A.A.S., Section B:
  Bulletin of Atomic Scientists Board
  Classification of Physicists, Amer. Inst. Physics

University:
- Harvard University Visiting
- Scientists' Committee on Loyalty Problems
  Starring of Scientists, A.A.A.S.

President of the American Physical Society

Technical societies

Research completed this year or in progress
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

ADDRESS—Title, where given, and date

MEMBERSHIP ON COMMITTEES

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
COLLEGE OF ENGINEERING---UNIVERSITY OF ILLINOIS

RECORD OF GENERAL ACTIVITIES

May 1, 19 to April 30, 19

Name: Lyman, Ernest M
Title: Assoc. Prof. of Physics

New degree, name institution granting:

Membership in technical societies and fraternities:
- AAAS
- Am. Phys. Teachers
- AAUP

Attendance at meetings of technical societies:
- Chicago meeting, Physical Society (Fall 1948)
- Washington (Spring 1949)

MEMBERSHIP ON COMMITTEES

College:
- Social Committee

University:

Technical societies:

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS:

- Nuclear scattering of high energy electrons (in progress)
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

ADDRESSSES—Title, where given, and date

MEMBERSHIP ON COMMITTEES

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
Name: R. E. Meagher
Title: Research Assistant Professor
New degree, name institution granting: Ph.D. University of Illinois

Membership in technical societies and fraternities:
- American Physical Society
- The Institute of Radio Engineers
- Sigma Xi
- Phi Kappa Phi

Attendance at meetings of technical societies:
- Meeting of the American Physical Society
  Washington, D. C. April 28-30, 1949

Membership on committees:

College

University

Technical societies

Research completed this year or in progress:
- Proton-Proton Scattering at 5 MEV
PUBLICATIONS----Co-author, Title, Journal or Publisher, Volume, Page, and Date

May 1, 1960 to April 30, 1970

Name
F. E. Meeker

Title
Research Assistant Professor

University of Illinois

Ph.D.

New general theme investigation

Membership in technical societies and organizations

American Physical Society
The Institute of Radio Engineers

Attended meetings of technical societies

Meeting of the American Physical Society
Washington, D.C., April 28-30, 1970

ADDITIONAL PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

ADDRESS---Title, where given, and date

MEMBERSHIP ON COMMITTEES

Other Professional Activities, Including Summer Work

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

Promotion-Prevention Recurrence of NEW
Name: Meyerhof, Walter E
Title: Assistant Professor in Physics

New degree, name institution granting

Membership in technical societies and fraternities

American Physical Society, Sigma Xi

Attendance at meetings of technical societies


MEMBERSHIP ON COMMITTEES

College

University

Language Committee

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

Construction of lens-type beta-ray spectrometer completed
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date


OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
RECORD OF GENERAL ACTIVITIES
May 1, 19 to April 30, 19

Name  Paton, R. F
Title  Associate Professor of Physics
New degree, name institution granting

Membership in technical societies and fraternities
- Sigma Xi
- Omega Beta Pi
- Gamma Alpha

Attendance at meetings of technical societies
- American Physical Society
  - Chicago - Nov. 48
  - New York - Feb. 49
- American Association of Physics Teachers
  - Illinois Section, at Charleston, Illinois - Oct. 48
  - New York, Feb. 49

University  Teacher Training

College  Program Committee

Technical societies
- President - Illinois Academy of Science - 48-49
- Secretary - Amer. Assoc. Phys. Teachers - 49-51

Research completed this year or in progress
- Studying half-life of Fe (4 yr) and Se (2.5 yr)
Publications—Co-author, Title, Journal or Publisher, Volume, Page, and Date


Addresses—Title, where given, and date

"Adventures in Time, Space, and Temperature" - Commencement of Univ. of U. S., June, 1948

"Low Temperatures" at A.I.T. (U.S. Navy), April 1949

"Available Energy" - Retiring Presidential Address - Illinois Academy of Science, Galesburg, Ill. - May 1949

Other Professional Activities, Including Summer Work
RECORD OF GENERAL ACTIVITIES

May 1, 1948 to April 30, 1949

Name
JAMES A. PHILLIPS.

Title
RESEARCH ASSOCIATE.

New degree, name institution granting

Membership in technical societies and fraternities
Full Membership - Sigma Xi.
- Phi Kappa Phi.

Attendance at meetings of technical societies
American Physical Society - Madison, Wis., June 21-22, 1948
- Chicago, Ill. Nov. 26, 1948

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS


2) On the Photo-Disintegration of the Neutron - (In Progress).
PUBLICATIONS---Co-author, Title, Journal or Publisher, Volume, Page, and Date


Addresses---Title, where given, and date

(Above Two Papers to American Physical Society).

Other Professional Activities, Including Summer Work
Name  Henry Quastler

Title  Res. Asso. Prof.

New degree, name institution granting  ---

Membership in technical societies and fraternities  as before

Attendance at meetings of technical societies

Amer. Radium Society, June 49, Chicago

MEMBERSHIP ON COMMITTEES

College
  Physical - chemical biology

University
  Radiation hazards
  Betatron steering committee

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

Dose-response relations: efficiency of different radiations, sensitivity of different objects, or the same objects under different conditions. Biological objects used: mice, plants, fruit flies, bacteria.
PUBLICATIONS----Co-author, Title, Journal or Publisher, Volume, Page, and Date

with Adams, Almy, Dancoff, Hanson, Kerst, Koch, Lanzl, Lanzl, Laughlin, Riesen, Robinson, Skaggs:
Techniques for application of the betatron to medical therapy.

ADDRESSES----Title, where given, and date

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
Name: Eugene Rabinowitch
Title: Research Professor

New degree, name institution granting

Membership in technical societies and fraternities

- Am. Chem. Soc.
- Soc. General Physiologists
- Sigma Xi

Attendance at meetings of technical societies

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

Research in progress on "Photochemistry of Isolated Chloroplasts and Pigments" (with Dr. N. Ekhontavit)
and "Reaction Kinetics of Reversible Photochemical Reaction" (with Prof. Rawcliffe)
PUBLICATIONS——Co-author, Title, Journal or Publisher, Volume, Page, and Date

MAY 1 to APRIL 30

NAME

TITLE

New degrees, name institution granting

Membership in scientific societies and professional organizations

Attendance at meetings of scientific societies

ADDRESSES——Title, where given, and date

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Editor, Bulletin of Atomic Scientists

Consultant, Argonne National Laboratory
RECORD OF GENERAL ACTIVITIES

May 1, 19 to April 30, 19__

Name: Rawcliffe, R. D.

Title: Asst. Prof.

New degree, name institution granting: 

Membership in technical societies and fraternities:

American Physical Society

Sigma Xi

Phi Kappa Phi

Attendance at meetings of technical societies:

American Physical Society, Nov 1948, Chicago, Ill.

MEMBERSHIP ON COMMITTEES

College:

Physics Dept. Committee on Examinations.

University:

Technical societies:

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS:

Research in progress - Studies of photochemical reactions of dye-stuffs related to photosynthesis.
ADDRESSES—Title, where given, and date

Physicists Colloquium
Nov 4, 1948

Fluxion of Organic Molecules.

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
Name Louis N. Radenour
Title Professor of Physics and Dean, Graduate College
New degree, name institution granting None
Membership in technical societies and fraternities
  Fellow, American Physical Society, A.A.A.S.
  Member Phi Beta Kappa, Sigma Xi.

Attendance at meetings of technical societies
  Occasional

MEMBERSHIP ON COMMITTEES

College
  None

University
  Research Board, General University Lectures, Building Program, Joint Staff Housing, Council on Teacher Education, Executive Faculty of Graduate College.

Technical societies
  Member Board of Editors, Physical Review. Member of Council, A.A.A.S.

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS
  None
PUBLICATIONS——Co-author, Title, Journal or Publisher, Volume, Page, and Date


The Bomb and Blackett, World Politics, I, 395 (April, 1949)

Also in Scientific American, March 1949

Mechanical Brains, Fortune, May 1949.

ADDRESSSES——Title, where given, and date

Several

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK

Membership on Committees

College
Name  SHERWIN, CHALMERS W.
Title  ASSOCIATE PROFESSOR OF PHYSICS
New degree, name institution granting
Membership in technical societies and fraternities
   FELLOW, AMERICAN PHYSICAL SOCIETY

Attendance at meetings of technical societies
   CHICAGO MEETING, A.M. PHYSICAL SOC.  NOV 1945
   WASHINGTON " " "  APR 1949

MEMBERSHIP ON COMMITTEES

College

University

Technical societies

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS

   CONTINUED STUDY OF NEUTRINO EMISSION IN BETA DECAY OF $^32$ AND $^490$. 
PUBLICATIONS—Co-author, Title, Journal or Publisher, Volume, Page, and Date

"THE NEUTRINO", Nucleronics 2, No. 5 @ 16-24 May 1945

"THE CONSERVATION OF MOMENTUM IN THE BETA DECAY OF Y 90."
PHYS. REV. 73, 1173-1176 May 15, 1948.

"BETA DECAY OF Y 90" BULL. AM. PHYSICAL SOC. OF WASHINGTON
MEETING, APRIL 1947.

ADDRESSES—Title, where given, and date

"RECOILS FROM BETA DECAY" INVITED PAPER, CHICAGO MEETING
OF THE AM. PHYSICAL SOC., NOV. 1948

"PROGRESS IN NEUTRINO RECOIL EXPERIMENTS" SEMINAR, ARGONNE NATIONAL
LABORATORY, CHICAGO, ILL.

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
Name: JAMES NEWTON SNYDER
Title: INSTRUCTOR
New degree, name institution granting: Ph.D. Harvard
Membership in technical societies and fraternities:
- American Physical Society
- Phi Beta Kappa
- Sigma Xi
- Pi Mu Epsilon
Attendance at meetings of technical societies:

MEMBERSHIP ON COMMITTEES:

College:

University:

Technical societies:

RESEARCH COMPLETED THIS YEAR OR IN PROGRESS:

On The Stimulated Decay of Mesons
PUBLICATIONS---Co-author, Title, Journal or Publisher, Volume, Page, and Date

ADDRESSSES---Title, where given, and date

OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
Name: Andrew W. Sunyar
Title: Research Assistant (May '48 to Jan '49); Research Associate (Feb '49 to June '49)
New degree, name institution granting: Ph.D.; University of Illinois
Membership in technical societies and fraternities:
- Sigma Xi
- American Physical Society

Attendance at meetings of technical societies:
American Physical Society
1) Chicago, Ill. Meeting; Nov. '48
2) Washington, D.C. Meeting; April '49

Membership on Committees:
College

University

Technical societies

Research completed this year or in progress:
Investigation of Resonance Capture of Slow Neutrons in "Even-Even" nuclei.
Isotopic assignment of 1.5 minute activity in Iridium.
Natural line width for resonance level in Pd$^{108}$ by "Doppler-Effect" method.
PUBLICATIONS----Co-author, Title, Journal or Publisher, Volume, Page, and Date


ADDRESSES----Title, where given, and date


OTHER PROFESSIONAL ACTIVITIES, INCLUDING SUMMER WORK
Name: Gerald F. Tape

Title: Assistant Professor of Physics

New degree, name institution granting:

Membership in technical societies and fraternities:

- American Physical Society
- American Association of Physics Teachers
- Sigma Xi

Attendance at meetings of technical societies:

- American Physical Society - Chicago, November 1948
- American Association of Physics Teachers - New York, January 1949

MEMBERSHIP ON COMMITTEES

College:

- College Policy and Development
- Review of Student Records
- Stockroom

University:

Technical societies:

Research completed this year or in progress:

- Construction and installation of new high power cyclotron oscillator. (Essentially complete).
- Fast neutron detection with nuclear track plates. (In progress).
- Calibration equipment for Q-meter operating at $10^{-9}$ amperes. (Initial development complete).
PUBLICATIONS---Co-author, Title, Journal or Publisher, Volume, Page, and Date

May 1, 1969 to April 30, 1970

PUBLICATIONS:

Co-author: Title, Journal or Publisher, Volume, Page, and Date

ADDRESSES---Title, where given, and date

MEMBERSHIP ON COMMITTEES

Other professional activities, including summer work

Research cooperated with project, role or progress (summary, original or progress).