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**Teach**

\[
23 \times 10^2 = 2300 \\
6 \times 300 = 1800 \\
1 \times 20 = 20 \\
4 \times \frac{1}{3} = 1.33 \\
1 \times 75 = 75 \\
28.28 = 28.28
\]

**Research**

\[
17 \times 10^2 = 1700 \\
6 \times 500 = 3000 \\
1 \times 50 = 50 \\
2 \times \frac{1}{3} = 0.67 \\
2 \times 2.5 = 5 \\
1.33 = 1.33
\]

**Admin**

\[
17.0 \div 10^2 = 0.17 \\
2 - 0.5 = 1.50
\]

**Total**

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<tr>
<td>Ullman, J.D.</td>
<td>Tch. Asst.</td>
<td>302PL</td>
<td>-</td>
<td>2306</td>
<td>-</td>
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<tr>
<td>VanHeyningen, R.</td>
<td>Half. Fel.</td>
<td>2PL</td>
<td>2PL</td>
<td>3225</td>
<td>7-9271</td>
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<tr>
<td>Vook, F.E.</td>
<td>Res. Asst.</td>
<td>155Min</td>
<td>155Min</td>
<td>2314</td>
<td>7-8554</td>
<td></td>
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<tr>
<td>Vook, R.W.</td>
<td>Res. Asst.</td>
<td>155Min</td>
<td>155Min</td>
<td>2314</td>
<td>7-8554</td>
<td></td>
</tr>
<tr>
<td>Wainio, K.H.</td>
<td>Tch. Asst.</td>
<td>314bPL</td>
<td>-</td>
<td>2296</td>
<td>7-9740</td>
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<tr>
<td>Weston, F.E.</td>
<td>Res. Asst.</td>
<td>220PRL</td>
<td>220PRL</td>
<td>2526</td>
<td>1875</td>
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<tr>
<td>Wolff, C.L.</td>
<td>Tch. Asst.</td>
<td>321PRL</td>
<td>-</td>
<td>2294</td>
<td>-</td>
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<td>Wyatt, P.J.</td>
<td>Tch. Asst.</td>
<td>321PRL</td>
<td>-</td>
<td>2294</td>
<td>-</td>
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<tr>
<td>Yamagata, T.</td>
<td>Res. Asst.</td>
<td>220PRL</td>
<td>220PRL</td>
<td>2526</td>
<td>6-3821</td>
<td></td>
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<tr>
<td>Ytterhus, J.A.</td>
<td>Res. Asst.</td>
<td>217TB</td>
<td>155Min</td>
<td>2528</td>
<td>6-1854</td>
<td></td>
</tr>
</tbody>
</table>

**Total:**

1 x 570 = 570
5 x 25 = 125
5 x 525 = 2625
1 x 25 = 25

**Grand Total:**

24,755
A REPORT OF THE ACTIVITIES

of the

DEPARTMENT OF PHYSICS

to the Dean of the

COLLEGE OF ENGINEERING

for the year

1956-1957
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APPENDIX. RECORDS OF GENERAL ACTIVITIES

Historical Account of Department, 1929-1940
Supplementary Material Attached to Our Copy

First Semester Registrations in Physics Courses 1948-9 to Date

Second Semester Registrations in Physics Courses 1948-9 to Date

Summary of Registrations in Physics Courses During Summer Sessions 1949 to Date

Teaching Assignments and Course Enrollments in Elementary Courses I Semester 1956-57

Teaching Assignments and Course Enrollments in Advanced Courses I Semester 1956-57

Teaching Assignments and Course Enrollments in Elementary Courses II Semester 1956-57

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Degrees Conferred

Physics Department Committees 1956-57

Physics Staff on Engineering College Committees 1956-57

Physics Colloquium Speakers and Topics

Nuclear Seminar Speakers and Topics

Solid State Seminar Speakers and Topics

Lectures by Professor C.O.G. Borelius (G.A. Miller Lecturer)

Physics Department Staff Directories
I. INTRODUCTION

Administration

Professor F. Wheeler Loomis will retire at the end of August, 1957 after twenty-eight years as head of the physics department. He came to Illinois in 1929, following Professor A.P. Carman who had been head for thirty-three years. Professor Loomis was absent on leave from January 8, 1941 to January 31, 1946 to serve as Associate Director of the Radiation Laboratory at the Massachusetts Institute of Technology, the center of the war-time radar research and development. From March 1, 1951 until August 31, 1952 he was again on leave as the director of a military radar project at the Massachusetts Institute of Technology, which culminated in the organization of the Lincoln Laboratory. Since his return to the physics department he has also been the director of the Control Systems Laboratory. He will continue in the latter capacity in 1957-58.

The growth of the department in size, accomplishment and standing during Professor Loomis' tenure as head has been remarkable indeed. The contrast between the department in his early days as head and the present department is brought out in an account of the period from 1929 to 1940 which was read at a departmental dinner in honor of Professor Loomis on May 24, 1957. It consists largely of excerpts from his Annual Reports of that time. A copy is included in this report.

Professor Frederick Seitz will become the head of the department on September 1, 1957. He has been a member of the department since September, 1949 and is the leader of a very strong faculty and program in the field of solid state physics.

Professor G.M. Almy will continue as the associate head of the department.

Special Events

There was general rejoicing in the department in November, 1956 when it was announced that Professor John Bardeen had been awarded a share of the Nobel Prize in physics for 1956. He, Dr. William Shockley and Dr. Walter Brattain were granted the prize for their research at the Bell Laboratories on semiconducting materials which led to the development of the transistor.

Not one to rest on his laurels, Professor Bardeen, with Research Associate Dr. Leon Cooper and graduate student J.R. Schrieffer, has in the last few months completed a very successful
solution to an old and difficult problem - a theoretical explanation of superconductivity in certain metals.

In January and February, 1957 the Department of Physics and of Mining and Metallurgy had, as G.A. Miller Lecturer, Professor Carl O.G. Borelius of the Department of Technical Physics of the Royal Swedish Institute of Technology in Stockholm. He gave a series of eight lectures on the physics of metals.

Among the very special events of the year must be included the approval by the State Assembly and Governor Stratton of an appropriation of $2,000,000 to build part of a new laboratory. When the whole building is completed, at an estimated cost of $5,425,000, it will house all of the activities now in the Physics Laboratory. A great deal of time in the past year has been spent in planning by many members of the department. Preliminary plans for the entire building are essentially completed and working drawings have been begun, with a target date of October 1, 1957 for their completion.

The major criterion in planning has been to get as much useful space as possible with the money available, minimizing finish and elaborate furnishings. It is hoped that half of the main rectangle can be built in 1957-59 and that the remainder of the building, including two lecture rooms as an extension from the main rectangle, in the following biennium.

II. TEACHING ACTIVITIES

Enrollments and Degrees Awarded

Summarizing data on enrollments in courses, numbers of undergraduate and graduate physics majors and of degrees granted are given in Table I and plotted in Figures 1 and 2 for comparison with recent years.

In the general physics courses (100-level) the enrollment has increased only 19 or 1.3 percent above that of 1955-56, which, however, was 432 or 44 percent above that of 1954-55. In advanced courses, 300- and 400-level combined, enrollments have remained near the 1955-56 level.

The numbers of graduate students is essentially unchanged at about 160 since last year but the numbers of undergraduate majors in all classes has increased from 203 to 253. Nearly half of this increase appears to be due to the inauguration of the Curriculum in Physics in the LAS College. Previously an LAS student could major in physics in the General Curriculum but calling attention to the opportunity by presenting a specific Curriculum in the catalog (rather stiffer than the General Curriculum physics major) has in one year nearly doubled the numbers of LAS majors (24 to 44). The enrollment in the Engineering Physics Curriculum is still much larger, 209 in the present year.
The number of bachelor's degrees in physics was 29, about the same as last year. The number of Ph.D. degrees dropped from 17 to 13. This may well be due to a tendency for thesis researches to become more difficult, and presumably more significant. At present there are twenty students who have diligently spent two or more years practically full-time on their thesis researches but who did not finish in June.

Staff

The full-time equivalent teaching staff is shown, in comparison with recent years, in Figure 3. The total junior and senior teaching staff was 55 f.t.e. who have taught a total enrollment of over 2100 in courses, mostly of four credit hours each. Three-fourths of the students enrolled received laboratory instruction.

The department received a major blow in the spring of 1957 by the resignation of four of its most brilliant and successful theoretical physics teachers: G.F. Chew to the University of California, F.E. Low to the Massachusetts Institute of Technology, J. Weneser to the Brookhaven National Laboratory. The fourth, J.N. Snyder, will join the Digital Computer Laboratory staff at Illinois and hence will not be lost to the department in important respects. Good young men in theoretical physics have, however, been secured for three positions:

Associate Professor David Jackson, from McGill University
Assistant Professor D.G. Ravenhall, from Stanford University
Assistant Professor H.B. Wyld, Jr., from Princeton University.

An offer has been made to a distinguished senior theoretical physicist, Professor Giancarlo Wick, now at the Carnegie Institute of Technology. He will not accept for the first semester of 1957-58 but may be persuaded to come to Illinois at a later date.

In addition one new experimenter will join the department in September, Assistant Professor Robert Novick. He will come from Columbia University where he received his Ph.D. degree in 1955.

Courses and Curricula

The new LAS Curriculum in Physics has been successfully launched with an enrollment of twenty-one, mainly freshmen, in the first year in which it appeared in the catalog.

The Engineering Physics curriculum has been modified in a minor way specifically to include the 12 hours of Social Science and Humanities subjects now required in all engineering curricula. More than 12 hours of non-technical electives had previously been
included in the curriculum and still are but at least 12 hours must in future be taken in the above two areas.

Professor C.W. Sherwin has tried a new departure in the teaching of quantum mechanics during the second semester under an old course number, Physics 385. Quantum mechanics is a highly theoretical and mathematical but empirical description of atomic systems. The tendency has been to postpone it for graduate study. It is, however, essential to all modern thinking about atoms and molecules. Sherwin has given a course which does not presuppose previous knowledge of atoms and which is appropriate for juniors or seniors. He treats idealized systems rigorously but with fairly simple mathematical methods, in such a way as to bring out the essential physical content of the quantum mechanics. Teacher and student reaction indicate that his first try was quite successful. There is certainly need and reason for the early introduction of quantum theory.

Professor Sherwin, who is not one to accept without examination the traditional approach to any problem in education has also announced another new one-semester course for the fall of 1957, numbered Physics 201. An outgrowth of his experience in the general courses for science and engineering students, it is an attempt to integrate and generalize the important concepts of physics at an elementary level. It is intended to help the student whose general physics is inadequate or confused or the more mature student in other fields of science who needs some basic physics. As a longer range possibility it may turn out to be the best way to teach the third semester of a three-semester course in general physics, after two semesters of point-by-point discussion of the phenomena and laws of physics.

A group of eight to ten members of the department and Professor G.C. Finlay of the College of Education have been actively participating in a program to develop improved materials for the teaching of physics in the high schools. The Illinois group, with Professor Loomis as chairman, is one of four or five such groups in the country who are collaborating in the program which is supported by the National Science Foundation. It has its headquarters at the Massachusetts Institute of Technology. Five men from the Illinois group are spending the summer at M.I.T. in an intensive effort to make some of the materials ready for the fall of 1957. Plans are being made to introduce them into University High School in the fall.

III. RESEARCH ACTIVITIES

Nature of Research Programs

The research carried on in the department is all of a basic nature and all of kinds that are suitable for thesis research by Ph.D. candidates, of whom 60 were officially enrolled in Physics 493 - Research in 1956-57. Original investigation of significant unsolved problems is the most distinctive feature in the training
of a Ph.D. Hence the research program is an indispensable part of the teaching program. Although the research is strongly supported by government agencies this support is secured on the basis of proposals made by members of the department to carry on investigations in fields which they consider most significant and interesting. None of the research is classified in the security sense.

Most of the research in the department is concerned with problems of nuclear and solid state physics. In each of these broad areas a great variety of research is underway. In nuclear physics the work for the year is summarized in a report to the Office of Naval Research, the agency which contributes through a single contract to the support of all nuclear physics research in the department. A copy of the report is included herewith.

The departmental program in solid state physics is undoubtedly the most comprehensive to be found in any university. General leadership is provided by Professor Seitz who also directs the work of a group of students and post-doctoral fellows or associates in theoretical problems related to the experimental program. Professor Bardeen directs a theoretical group concerned with all phases of electrical conductivity and an experimental group in semiconductor research, located in the Electrical Engineering Department of which he is also a member. The principal experimental solid state programs and their leaders in the physics department are:

1. Electrical and optical properties of insulating crystals
   Professors Maurer and Brown.


3. Radiation damage in solids. Professor Koehler and
   Professors Wert and Balluffi in Mining and Metallurgy.

4. Low temperature properties of metals. Professor Mapother.

5. Diffusion in metals. Professor Lazarus.

There has been a remarkable cross-fertilization of ideas and techniques between nuclear and solid state groups. Examples include:

1. Application of nuclear and electronic magnetic resonance
   to solid state problems. Professor C.P. Slichter.

2. Structure and magnetic properties of crystalline substances
   determined through nuclear alignment at extremely low
   temperature. Professor J.C. Wheatley.

3. Use of radioactive isotopes in the study of metal surface
   properties and of superconductivity in metals. Professor
   H. Frauenfelder.

The distillation of the results of research appears in 13 Ph.D. theses, listed in Table II and numerous publications. Eighty-one scientific articles and eleven letters-to-the-editor were published during the year. These numbers are plotted in Figure 4 along with corresponding numbers for recent years. Frequent reports of progress in research have been made to support­ing agencies.

Support for Research

Specific financial support of research programs comes from four sources. These sources and the approximate total contribution of each in 1956-57 are as follows:

1. State appropriations
   - Physics Betatron budget: 134,138
   - Physics stat stem budget (used for solid state program): 17,100
   - Research Board: 31,352

2. Federal government agency contracts: 818,662

3. Departmental share of indirect costs on government contracts, approximately: 45,000

4. Private foundations or industrial organizations
   a. A·P· Sloan Foundation (to C.P. Slichter): 20,000
   b. Eleven predoctoral industrial fellowships plus aid for research of fellows, approximately: 28,000
      Total: $1,094,252

Five University of Illinois and seven National Science Fellowships are not included in the above listing.

For the betatron program about one-third of the support comes from the state appropriation, two-thirds from the Office of Naval Research. In all other fields of research about 95 percent of the support comes from outside agencies, mostly federal. The list of government contracts is given in Table III which also indicates for each the title of the research program, amount of support and principal investigator.
There are certain costs of research which are not allowable under the terms of government contracts. The share of indirect costs collected under the contracts and allotted to the departments fills this gap and is indeed very necessary to keep the program going. It is used for such items as maintenance and equipment for shops, purchase or repair of permanent research equipment and publication charges. There has been no increase in state funds for research since the betatron budget was set up in 1947 - in fact there was a cut in 1951 which has not been restored - and the indirect cost funds provide a barely adequate base of unrestricted funds for general essential costs of a large and diversified program.

Staff

In addition to the teaching senior staff nearly all of whom are active in research and the betatron permanent staff there were 23 f.t.e. post-doctoral appointments in temporary research positions with salaries mainly paid from government contracts. The contracts and betatron state appropriation also provided for 53 half-time research assistantships, filled for the most part by graduate students. Sixty graduate students were registered for thesis research. A number of these are subsidized by fellowships and a few were teaching assistants. The general pattern is that a graduate student who attains the Ph.D. has been a teaching assistant for two or three years and then a research assistant or fellow for two or three additional years while doing his thesis research.

Professor D.W. Kerst, whose appointment is on the permanent betatron staff, spent the year as Technical Director of the MURA project at Madison, Wisconsin on design of very high energy accelerators. Professor Robinson assumed the responsibilities of supervision of the big betatron and a steering committee planned the research program. Professor A.O. Hanson was the chairman and Professor Loomis served as a moderator or umpire.

IV. IMPORTANT PROBLEMS FACING THE DEPARTMENT

1. Complete plans for equipment and use of the new laboratory and aid in securing the appropriation for the second stage of construction.

2. Secure a distinguished theoretical nuclear physicist in an attempt to stabilize at Illinois the rather volatile situation with young theoretical physicists (which is not unique with Illinois). Professor Wick may be the solution, if he will come.

3. Develop means of providing necessary continuity in laboratory and lecture demonstration aspects of general physics teaching. Our present plan of rotating our best lecturers in and out of responsible charge of these courses provides fresh and vigorous teaching but insufficient continuity for the steady maintenance and improvement of experimental facilities.
4. Review undergraduate curricula in the light of progress of physics and the increased facilities for laboratory work which will be available in the new building.

5. Participate in the attempt to secure adequate facilities in the midwest for very-high-energy nuclear physics - a very difficult problem since the MURA program at this moment seems to be at an end.
TABLE I. Enrollments in Courses and Degrees in Physics

A. Registration in Courses

The total registration in courses in physics during the year was as follows:

<table>
<thead>
<tr>
<th>Type of Courses</th>
<th>I Sem.</th>
<th>II Sem.</th>
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</thead>
<tbody>
<tr>
<td>Basic physics (&quot;100&quot; courses)--regular</td>
<td>1472</td>
<td>1389</td>
</tr>
<tr>
<td>Basic physics (&quot;100&quot; courses)--corres.</td>
<td>58</td>
<td>47</td>
</tr>
<tr>
<td>&quot;200&quot; and &quot;300&quot; courses</td>
<td>378</td>
<td>489</td>
</tr>
<tr>
<td>Graduate (&quot;400&quot; courses)</td>
<td>239</td>
<td>192</td>
</tr>
<tr>
<td>Total registrations</td>
<td>2147</td>
<td>2117</td>
</tr>
</tbody>
</table>

The first semester registration (exclusive of correspondence courses) in comparison with recent years is shown in Figure 1.

B. Physics Majors

The numbers of individuals whose major subject is physics enrolled during the year are as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduates - Physics Major (LAS)</td>
<td>23</td>
</tr>
<tr>
<td>Undergraduates - Physics Curriculum (LAS)</td>
<td>21*</td>
</tr>
<tr>
<td>Undergraduates - Engineering Physics Curriculum</td>
<td>209</td>
</tr>
<tr>
<td>Undergraduates or Graduates - Teacher Training</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Majors in Physics</td>
<td>152</td>
</tr>
<tr>
<td>Total physics majors</td>
<td>416</td>
</tr>
</tbody>
</table>

C. Degrees Conferred

The degrees conferred are shown in the following table. The June 1957 figures have been corrected from tentative to actual since Commencement.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B.S. in Physics (LAS)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>B.S., Physics Major (LAS)</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>B.S. in Engineering Physics</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>19</td>
<td>22</td>
</tr>
<tr>
<td>B.S. in Teaching of Physics</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0</td>
</tr>
<tr>
<td>Master's in Physics</td>
<td>6</td>
<td>-</td>
<td>14</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>Ph.D. in Physics</td>
<td>-</td>
<td>2</td>
<td>4</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Total Degrees</td>
<td>8</td>
<td>2</td>
<td>21</td>
<td>41</td>
<td>72</td>
</tr>
</tbody>
</table>

* This is a new curriculum, introduced in September 1956.
TABLE II. Ph.D. Theses Completed in 1956-1957

G.S. Baker - Dislocations in Crystals
J.S. Bauerle - Quenched-in Lattice Defects in Gold
R.S. Cooper - Anodic Behavior of Copper in Hydrochloric Acid
J.E. Crew - Interaction of High Energy π Mesons With Complex Nuclei
L.C. Hebel - Magnetic Resonance In Aluminum At Low Temperatures
A.C. Juveland - Polarization Experiments by Double Scattering Methods
A.S. Miller - Ionic Conductivity and Diffusion in Silver Bromide
R.C. Miller - Scattering of High Energy Positrons And Electrons; Large Angle Pair Production by Bremsstrahlung
J.R. Schrieffer - Problems in The Theory of Superconductivity
R.O. Simmons - X-Ray Study of Deuteron Irradiated Copper Near 1°K
Sidney Singer - The Alpha-Emitting Isomer Polonium 211.
M.D. Sirkis - A High-Energy Electronics Approach to the Generation of Radiation at Millimeter Wavelengths
Taketora Yamagata - Proton Compton Effect for 190 to 280 Mev Photons.
<table>
<thead>
<tr>
<th>Contract No.</th>
<th>Subject and Principal Investigator</th>
<th>Current Year Est. Yearly Amt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonr 1834(05)</td>
<td>Nuclear Physics - F.W. Loomis</td>
<td>435,000.</td>
</tr>
<tr>
<td>AFL8(600)-689</td>
<td>Theoretical Research in Physics of Solids - F. Seitz</td>
<td>17,000.</td>
</tr>
<tr>
<td>A.P. Sloan Foundn.</td>
<td>Research on Resonance in Solids - C.P. Slichter</td>
<td>20,000.</td>
</tr>
<tr>
<td>NSF Grant G-1018</td>
<td>Plastic Deformation - J.S. Koehler and F. Seitz</td>
<td>9,050.</td>
</tr>
<tr>
<td>NSF Grant G-1602</td>
<td>Theoretical Research on Solids - F. Seitz</td>
<td>6,515.</td>
</tr>
<tr>
<td>NSF Grant G-1870</td>
<td>High Energy Nuclear Phenomena - C.S. Robinson</td>
<td>8,700.</td>
</tr>
<tr>
<td>NSF Grant</td>
<td>MURA-Illiac Cosmotron - D.W. Kerst</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$838,662.</strong></td>
</tr>
</tbody>
</table>
Fig. 1

I Semester Registrations in Physics Courses

--- "100" Courses
--- "200" and "300" Courses
--- "400" Courses
--- Research
Fig. 2

Degrees Conferred in Physics Department

(All figures are actual except for current year
which includes June "Candidates")

- Bachelor's Degrees
- Master's Degrees
- Doctor's Degrees
Fig. 3

Teaching and Research Staff

- Senior Staff Teaching
- Junior Staff Teaching
- Senior Staff Research
  (Does not include dept. members' time spent on CSI Project)
- Junior Staff Research

-- Postdoctoral Fellows
--- Predoctoral Fellows

Fig. 4

Physics Department Publications in Scientific Journals
(Limited Distribution Reports and Preprints Excluded)

--- Articles

--- Letters to Editor
At a dinner on May 24, 1957 in honor of Wheeler Loomis, who will retire in August, 1957 from his position as head of the Physics Department, the following account of his early days in the department was read by G.M. Almy.

---

Life with Wheeler in the Physics Department
1929-1940

One of the chores that falls to the lot of a head of department is the Annual Report of the Department. He prepares it with much thought and labor and then turns it in to the Dean with the deep and frustrating suspicion that no one will ever read it. I propose to correct this situation for one head of department by reading to this captive audience the annual reports of the physics department, which became a distinct department about 69 years ago, in 1888. To relate that date to another historic event it was the year before Wheeler Loomis was born. Actually, although each report is only about 100 pages in length I will stick to those of the last 28 years. As a matter of fact, I would like to reminisce about a period of time from 1929 to 1940 and I find Wheeler's reports a very interesting way to look back over this time.

The annual report of the year 1929-30, written in May, 1930, begins like this:

"The past year in the department of physics has been marked by the retirement of Professor A.P. Carman, who had been head of the department for thirty-three years; and the appointment of Professor F.W. Loomis in his place. It has naturally been a year in which the new head of the department has been occupied in learning his duties."

The report also reveals that there were nine on the senior staff, 17 teaching assistants and 3 graduate fellows. Services were provided by five non-academic employees including Della Mae Rogers, Carl Fieg and Bill Deem. Nearly 700 students were enrolled in general physics.

Before 1929 36 Ph.D. degrees in physics had been granted by the department. By June of this year, 1957, the total will be 245, a net of 209 in 28 years.

A problem that the new head of the department had to face in 1929 is made clear by a section of the report headed
"Atmosphere":

"The following steps have been taken with the intention of stimulating the interest of staff and students and directing it towards the more vital parts of modern physics:

"An informal seminar consisting of several members of the departments of physics, chemistry and mathematics, has met weekly for the study of topics in the wave mechanics.

"The nature of the colloquium has been changed. The topics have been limited to reports of significant current research, and the presentation has been in a much less popular manner than heretofore. That is, it has been operated for the benefit of our own graduate students and faculty, rather than for a miscellaneous group of those "interested in physics". The attendance has correspondingly decreased. The length of sessions has been extended to one and one-half or two hours, and usually two or even three papers have been presented in an evening. Many have been given by graduate students...

"A number of outside lecturers have been brought to the campus and have spoken on various new problems and results in modern physics. Only one out of eleven lectures so given was in any sense popular. The rest were intended for our own graduate students and faculty and have, it is thought, contributed effectively towards keeping us informed and interested in the progressive parts of physics... The list of speakers follows:

Professor L. Prandtl, Director of the Aerodynamic Institute of the University of Göttingen
Professor Otto Oldenberg of the University of Göttingen
Professor Gregor Wentzel of the University of Zurich
Professor E.U. Condon of the University of Minnesota
Professor Otto Stern, Director of the Institute of Physical Chemistry of the University of Hamburg."

A very large extra sum of money, $7000, was made available in that year of 1929-30 for the purchase of research equipment. With this and additional funds granted in the next two years the department was able to tool up pretty well for research in spectroscopy, a fruitful field, because the new wave mechanics had shown the way to bring order into a relative chaos of spectroscopic data.

By the fall of 1931 four newcomers had joined the department, Bartlett and Almy in 1930, Kruger and Mott-Smith in 1931.
The main historical feature of the early thirties was the great depression. At first we seemed to be somewhat insulated from it but in the spring of 1932 it struck the University full force. As might be expected the University also pulled out more slowly than economic conditions improved.

The annual report of 1932 began on this ominous note:

"The outstanding feature of this year in the physics department, as probably in all others, has been the curtailment of our activities made necessary by the financial emergency in the University. Since the time the economy orders were promulgated in January the department will have saved out of its appropriations about $3500, or 40 percent of the maintenance and operation budget for the year."

Two years later, in 1933-34, the report began:

"The salient features of the past year in the physics department, have been the effects of the depression budget, and the reduced enrollments in the courses. The department has had to get along with half the operating funds it had in the past and with no money at all for new equipment."

Again in 1934-35, the report contained the following rather desperate statement:

"The department, whose operating expenses have been reduced to a starvation point for over three years, suffered a financial crisis this winter and pretty nearly had to close up. It was rescued, temporarily, by the allotment of $2200 from general and engineering funds. It is almost impossible to convey an adequate idea of the extent to which our work, both in teaching and research, has been hampered and made inefficient and how all progress has been blocked by the inability to buy necessary articles. We should have had pretty nearly to cease activity in research if it hadn't been for the equipment which was bought in our three boom years 1929-32."

Wheeler's concern about the effect of the depression on the work of the department is shown in this paragraph from the 1932 report, early in the depression:

"The activity of the department which will be most severely affected will be, of course, the research. Some people seem to feel that research is a sort of luxury which can be curtailed or discontinued in emergencies like the present without serious loss. As a matter of fact, however, at least in an active science like physics, research is an indispensable accompaniment of good teaching and instances of men who are good teachers and inactive in research are almost unknown. A person who is not able or does not trouble to think things through to the point where he reaches a new understanding of them, as a research man has to do, becomes lazy and slip-shod in his thinking and dull
and uninteresting in his teaching. One can find plenty of examples of this phenomenon without looking very far. This department has made marked progress within the last few years in the development of the research attitude. The result is that it becomes increasingly easy to attract strong men and to get good graduate assistants, and that if progress is not interrupted we may look forward to having a very strong department within, say, about ten years. On the other hand, if it is necessary to mark time for three or four years the momentum that has been gained will be lost, the standing of the department will be impaired, and it may be decades before it can be restored."

The most poignant aspect of the depression was the difficulty of the graduates, even those with Ph.D. degrees, in getting any kind of jobs as physicists. Let me read from a letter of instructions dated June, 1936 from F.W. Loomis to E.H. Williams who was in charge of the department for the summer of 1936. All except one of the men mentioned had received or were about to receive their Ph.D. degrees:

"Three half-time assistantships remain unfilled. I have told LaBaw that he will be given either a quarter or half-time one but that I sha'n't decide until August or September. The remainder are to be filled from our list of lame ducks (a lame duck was one who had just received his Ph.D. degree and couldn't find a job) or from the list of outsiders. I incline not to tell Challacombe and Rassweiler that there may be jobs for them in order to stimulate them to work harder. My guess is that Morrical and Horsfall will get jobs during the summer but if they need our jobs you may give Morrical 1/2 and cut any or all of the others to 1/4. Please note that Kusch and Kinzer are definitely out because their wives are employed in the University library."

I haven't looked up to see how $1800 or so was divided among these men but it is good to note that the six Ph.D's mentioned in the letter landed on their feet as physicists:

Challacombe is director of research at the Elgin Watch Co.

Rassweiler is a professor in the General College at the University of Minnesota.

Horsfall is an expert in celestial navigation at the North American Aviation, Inc.

Morrical was in a successful career in acoustics with RCA when he died suddenly of a heart attack.

Kinzer is a weather physicist, specializing recently in tornadoes.

Kusch is a professor at Columbia and a Nobel Prize winner in 1955."
But things were happening in physics in spite of depression. Between 1930 and 1935, 19 Ph.D. theses in physics were completed at Illinois. F.W. Loomis and students published eight papers in molecular spectroscopy in the year 1931-32.

And physics was exciting. In the past six months, as you are all aware, there has been a tremendous stir in physics over the discovery that the law of conservation of parity does not hold in certain cases. Well, let me give you the titles of some of the colloquium talks in the department in 1932-33. The first four in the list were reports of discoveries which led to Nobel Prize awards.

1. Sept. 29, 1932 Bartlett Neutrons (Chadwick's famous paper, published in 1932)
2. Nov. 3, 1932 Mott-Smith Disintegration of Elements by Fast Protons (Cockroft-Walton, 1932 - Lawrence, 1932)
3. Nov. 10, 1932 Paton Hydrogen Isotope of Mass 2 (Urey, Brickwedde and Murphy, 1932)
4. April 6, 1933 Kies Positrons (Anderson's discovery, published Sept., 1932 and March, 1933)
5. May 4, 1933 Mott-Smith The Expanding Universe According to E.A. Milne
6. Feb. 23, 1933 Kruger Van de Graaf's High Voltage Apparatus

In addition to parity another really important advance in physics in the past few months is the new theory of superconductivity by Bardeen, Cooper and Schrieffer. Well, in that same year long ago, on December 15, 1932, one of the graduate students, Johnny Gibbons, reported from the literature on the subject, "A New Theory of Superconductivity". The real point of this is that John Bardeen's recent work is enhanced by the realization that he has solved a very tough, old problem about which theories were being proposed twenty-five years ago.

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The reports show that the Physics Department clearly has some perennial problems. For example, the following statement which was written in 1935 could equally well appear in the 1956-57 report.

"A tendency which might well be noted is the piling up, in the last few years, of what may be called thankless tasks ... I refer to a number of jobs, set by one university body or another,
usually with rather perfunctory attention to the cost in time and effort and often, it seems to me, of rather dubious value. No one, alone, is very serious, but cumulatively they constitute a fairly serious drain on the time and energies of the staff and subtract that much from what is available for more important tasks. Instances are: correspondence courses, radio addresses, the LAS tutorial system, the preparation of unnecessary statistics and above all, committee work... Frankly, I am very skeptical as to whether the results will ever justify the cost. Perhaps the elaborate nature of this very document is another case in point."

Another really hardy perennial is the question: what to do about general physics courses? For example, in 1934:

"General Physics Courses: The intensive effort which the department has been making to build up and improve the courses in general physics has been continued this year and has to some extent been aided and stimulated by the general investigations of engineering courses which have been carried on by certain Engineering College committees. In particular, a committee consisting of Professor Loomis, Kruger and Dr. Almy from the physics department, and Professors Seeley, Knight and Goff from engineering departments was formed to study Physics 1 and 3 (which correspond to the present 106, 107, 108). As a preliminary to the work of the Committee a list of the changes which have been made in these courses in the past five years was prepared, and is given in this report as Table VIII. Even those who have been most closely associated with these changes were surprised at their number and importance when collected together..."

"Rather severe general criticisms of the courses were made, particularly by Professor Seeley, and a few constructive suggestions were received which it is intended shall lead to certain modifications in the method and content of the courses next year..."

"The members of the physics department feel that it would be in several ways a great advantage if the courses could be divided into three parts instead of two as at present..."

That was the first official mention of the 3-semester course in general physics finally adopted in 1952, eighteen years later.

Two years later, in 1936, there are six pages of vigorous and thoughtful discussion of the general physics courses. I recommend them to those directly concerned but will only read some of the more personal remarks, by Wheeler:

"Now for a discussion of some of the improvements made this year. I have given the lectures, for the first time. The most effective improvement I made was to take Mr. Shoupp as
lecture assistant. As a result we have been able to design and construct a great deal of new demonstration apparatus to replace antiquated experiments with new and interesting ones. By the end of next year we should have a pretty good set of demonstration experiments."

Here's a comment that will sound as current as when it was written twenty-one years ago:

"Weekly meetings of the staff of the course have been held in which the objectives and the methods of teaching were discussed, both in general and in detail, with considerable enthusiasm and sometimes with heat... The text book used was a new one by Mendenhall, Eve and Keyes, and while it has some good points it was not considered wholly satisfactory and will probably not be used next year. The selection of a good text book is, incidentally, one of our hardest problems. A really satisfactory one has yet to be written."

Later on some of the physical difficulties are described:

"There are a number of factors which have quite unnecessarily detracted from the effectiveness of the lectures. In the first place the hours at which they have been given, 11 and 1 on Mondays, were the worst possible. The 11 o'clock students are hungry and the 1 o'clock ones are sleepy. Next year the lectures will be given at 8 and 10 on Wednesdays. In the second place, the ventilation of the lecture room is atrocious. Despite the representations of the physical plant department I think there is not enough air circulated through it. Anyway, it is pretty smelly at the end of the lecture. Probably a worse fault is that it has been consistently overheated. I was unable to secure effective cooperation of the physical plant department in reducing the temperature of the incoming air to 65°F. until about the last one or two cool weather lectures... Another defect is the bad acoustics. Professor Watson knows just what is the matter and has made recommendations as to what should be done to correct them and all that is needed is an appropriation. Naturally the lectures are considerably less effective if they can not be heard distinctly. Also the lighting is inadequate. This has been the subject of a detailed report but so far nothing has been done about it. Moreover, the seats are very uncomfortable. We hope to put a student to work next year tipping them back, which won't make them ideal but should improve them."

As the years roll on the lighting in the lecture room is improved, acoustic tile is put upon the walls and ceiling (some of you were present when a piece fell down and nearly hit Professor Fermi while giving a talk at Colloquium). The seats tipped further forward, year by year according to the reports, until you get the impression that the students were on their knees and noses. At some point in time, not clear from the reports, they were all replaced with new seats. The ventilation is still
atrocious.

Another battle of the department which is clearly going to last for generations is the struggle for space, for a new building. The report of 1936 fired the opening gun of a campaign which with luck may be 40 percent won by 1959. The barrage continued in the reports through the years with several crescendos and one diminuendo, the latter at the time when we also wanted a big betatron.

I quote from the 1936 report:

"The present building is only twenty-seven years old but we are already finding ourselves seriously cramped for space. A departmental committee of which Professor Almy was chairman, made a detailed study of the subject this spring and reported in a letter of April 27, 1936. It appears that we are just at the limit where any appreciable increase in enrollment will overtax our classroom and laboratory space, that we are seriously in need of office space, and that the available research space is now fully occupied including a good deal of space in the basement which really is totally unsuitable for research or any other human activity. If the group of new members of the staff whom we shall have to appoint in the next few years are anything like as active as the young men we now have our present research space will be totally inadequate."

At that time, 1936, there were about ten senior staff and twenty graduate students doing experimental research. We had not yet, of course, hacked out nearly as much research and office space in attic and basement and other parts of the building as we now use.

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In 1936 the financial condition of the University began to improve and we find this cheerful item in the report:

"The most important new development in the research of the department this year has been the construction of the cyclotron by Professor Kruger, Mr. Green and a group of helpers. (A 2 Mev cyclotron, not the present machine). Plans for it were laid last spring. Most of the material was ordered during the summer, which Professor Kruger and Mr. Green spent in California, studying and assisting in the similar work of Professor Lawrence. Construction was started in September and, due to the energy and enthusiasm of Professor Kruger and Mr. Green the main apparatus is already complete and in operation. That is, a beam has been obtained and brought out of the magnetic field. This has involved the design, construction and getting into operation of a formidable array of very complicated apparatus, and it is quite a triumph to have succeeded so quickly. . ""
Mr. Green, you may recognize, is Dr. G.K. Green who is at present a central figure in the planning and construction of the super-machine at Brookhaven whose energy will be 10,000 times that of the first Illinois cyclotron.

In the late thirties the older members of the department were approaching retirement, enrollments were increasing and the opportunities came to add quite a large number to the staff. As the reports make clear Wheeler tackled this problem with characteristic energy and thoroughness. I quote from the 1937 report:

"This is clearly the critical time in the history of the department. A program of rebuilding it was begun in 1929 and some progress was made before the incidence of the depression on the university. Now, Professor Knipp is retiring; Professor Watson and Schulz will retire in three years and Professor Kunz three years thereafter. This is the time when the ultimate quality of the department will be determined and critical decisions will have to be made now, whether the general conditions are opportune or not.

"It is, then, an appropriate time to include in this report a rather careful survey of the needs of the department, especially those which have a close bearing on the ultimate standing of the department. Obviously everything depends upon the wisdom with which the new staff is selected; but this alone is not sufficient to effect success. As I see it there are three conditions that have to be satisfied if a strong department is to be created. First, a capable staff has to be selected. Second, they have to have adequate facilities for work. Third, they have to have adequate time for self development. The neglect of any one of these three conditions can nullify whatever may be done on the other two ..."

"Nothing could do more for the whole departmental program than the appointment of a really outstanding physicist to the vacancy created by Professor Knipp. With this in mind, the department was authorized in December, 1936, to seek a full professor for this position, at a salary of $6000. A great deal of very careful thought and study was put in by practically all members of the department. It was first decided that there was no doubt that Professor I.I. Rabi of Columbia University would be in every way the most suitable man, and he was offered the position. However, Columbia beat our offer by raising him from an associate professorship at $4800 to a full professorship at $6500, with prospect of further advancement, and naturally we didn't get him. It was next decided that Professor H.A. Bethe of Cornell would be a remarkably fine addition to our staff, especially in view of the extraordinary quantity and quality of his theoretical work and his unusual gifts as an advanced teacher, also despite his age which is only thirty. With the authorization of President Willard and
the Board of Trustees, he was offered the position; but Cornell also beat our offer by raising him from an assistant professorship at $3500 to a full professorship at $6000, giving him a full-time post-Ph.D. research assistant, and matching all our other inducements. Naturally we didn't get him either. We have in mind two or three other possibilities and it is hoped that we shall have better luck with one of these. If not we shall probably have to give up hope of attracting someone who has already attained distinction and content ourselves with some younger man who seems promising. This of course will be less effective in producing the results we desire, and also much more of a gamble."

Professors George Uhlenbeck and James Frank were later invited to join the department, without success. Wheeler thought a good deal about how to get good physicists to come to Illinois and even wrote a little manual on the subject in the 1939 report. I'd like, however, to read one paragraph on the subject from the 1938 report:

"As to the problem of inducing people to accept positions here, one conclusion has become very obvious: they should always be brought here for visits before being asked to decide. Whatever reputation the department may have acquired in recent years is probably a rather vague idea compared with the impression which is given by an actual visit, in which it is possible to meet the staff as a group, to get the cumulative effect of its research activities, and to see the nature of the opportunities ... Incidentally, one can, on such occasions, by judicious entertainment, do a good deal to correct the university's reputation for a harsh, autocratic and fundamentalist atmosphere which was perhaps not altogether undeserved in previous decades."

Though we didn't land a really big fish Wheeler was indeed successful in bringing in good young men. Between 1937 and 1940 the following men joined the department:

1937  
John H. Manley  
E.B. Jordan  

1938  
E.M. Lyman  
M. Goldhaber  
L.J. Haworth  
J.R. Richardson  
D.W. Kerst  
R. Serber  

1940  
S.M. Dancoff  
R.H. Bolt  
N.F. Ramsey  
M.H. Kanner  
L.W. Phillips  


The median age of the senior staff dropped from 55 in 1929 to 32 in 1940. The number increased from nine to twenty.

And Wheeler felt pretty good about his staff. In 1939 even before the addition of the five who came in 1940 he began his report:

"The dominant feature of the past year has been the addition of six new members to the senior staff. Since there were also two new members last year, this means that nearly half (eight out of seventeen) of the staff has been here only a year or two.

"Looking at it in another way, thirteen of our seventeen present members have been appointed in the last ten years, and two of the remaining four will retire next year, which leaves only two of the pre-1929 staff who will remain for any length of time. This means that the character and quality of our staff, now and for a long time to come, has been determined by the appointments made by the present head. I venture to offer my opinion that these have been extraordinarily and surprisingly successful. It is clear that there isn't one dud in the whole dozen. I am not maintaining that any of them are wholly free of defects or failings, nor that they don't all of them still have a great deal to learn. I do maintain, and can if required justify my opinion, that they are without exception able, energetic, enthusiastic and competent in their respective fields; that they have all already demonstrated ability in research and are all actively engaged, with success or promise of success, in research of real significance; and that they all consider their teaching important, take it seriously, and give it a good deal of time and attention, though not all are polished or finished teachers, and some are still comparatively inexperienced.

"There has been a very noticeable increase in the activity of the department, and the process of cross-fertilization with ideas, about both research and teaching, from other laboratories, has been quite apparent. It is a distinct pleasure and a real stimulation to be associated with this new department, and a great satisfaction to feel that one has played an important part in getting it together.

"Our new staff has attracted a great deal of favorable attention in the world of physicists. At every meeting I attend I am frequently complimented on it. It must have been what influenced Bethe to tell me, the other day, that he now thinks he made a mistake to stay at Cornell instead of accepting our offer...

"Socially also, the new group, with their wives, are very agreeable, and a distinct asset to the department and the university."
The most famous accomplishment of the late thirties was the successful design and construction of the first betatron by Don Kerst, aided especially by Bob Serber on the theoretical side. The Graduate School, as it was then called, was asked to support it and after a most careful investigation, Dean Carmichael decided to grant the $400 requested even though the proposal looked like a very long shot.

Let me quote from three successive reports on the progress of the original betatron. First in 1939, nine months after Don came to Illinois:

"Instructor D.W. Kerst has this year invented, designed, and nearly completed the construction of a very bold and original device for accelerating electrons to energies of millions of volts. He and all of us realize that it is a very long shot to hope that this device will be successful since it is so original and so different from anything previously attempted. However, he has put a great deal of first rate thought into it, calculated all aspects of the apparatus in elaborate detail, and proceeded very effectively to its construction. If it succeeds it will be of really extraordinary importance since one can not see in advance any limit to the voltages that can be obtained with this device. If it fails he will just have to forget about it, but he should not be allowed to continue at it too long as he is obviously an experimentalist of great talent."

In the following year the report, written in May, 1940, mentions the betatron only in Kerst's personal report (everybody made a report in those days). After two pages on improving the general physics laboratory, Don's entire account of the betatron was the following short and patient paragraph:

"Since the last report the electron accelerator was built and tried last fall. Since Christmas a new vacuum tube has been obtained and new pole faces have been in the process of manufacture. The new vacuum tube is large enough to permit electrons to oscillate as far as 1 cm from the main orbit and still be kept in the machine. This will give the experiment more chance to succeed. The new pole faces should have lower loss and a more correct field at the edge. Trials will continue."

Two months later, in July, 1940 the betatron for the first time was operated successfully and there was general rejoicing.

In the following year, 1941, the report included the following enthusiastic comment, written by Acting Head Professor Kruger:

"The success last July of Dr. Kerst in developing an apparatus to accelerate electrons to very high energies is the most outstanding event in the history of the department. . . ."
Professor Kerst's discovery is so unique and offers so many possibilities for important research that it is important for the future reputation of the department and the University of Illinois that his program be given complete and generous support."

While the betatron was being developed funds were also secured to build the present cyclotron. In 1940 the first stage of this project, a very substantial one for its time, was described by Professor Loomis as follows:

"Perhaps the most noteworthy event of the year has been the starting of a new cyclotron. It was made possible by an appropriation of $31,500 from the Graduate Research fund. It will, when completed, be far the most important research tool of the department and will open up to us a wide field of experimentation in nuclear physics along the lines for which our rejuvenated department is skilled and experienced. It may confidently be expected to have a very beneficial and stimulating effect on the productivity of the department, and probably on other departments as well; since the products of the cyclotron constitute entirely novel and very useful and convenient tools for certain problems in biology and chemistry. At the moment, however, we are chiefly occupied with the troubles associated with the design, location, purchase and, before long, construction of the cyclotron."

In 1940, Wheeler, as I quoted, was rather satisfied. I think he looked forward to leaning back a bit and watching his bright young department sail along to great accomplishments. But this was not to be.

In October, 1940, a number of us went to Bloomington, Indiana to a symposium held in connection with the dedication of their new physics laboratory. At that point in time Europe had collapsed under Hitler's attack, and in this country Roosevelt was running for his third term, against Wilkie. As we drove to Bloomington we talked of preparation for war in this country and the part physicists might play in it. At Bloomington there were quiet conversations with Rabi, Du Bridge and others about recruiting staff for a project just started at M.I.T. to exploit and develop the mysterious new devices with which the British had been able to detect and therefore successfully to beat off the German bomber attacks. It was our first brush with scientific security.

Within a month Lyman, Ramsey and Kanner had joined the project at M.I.T. and early in December Bolt also left to join in other defense research. Then Wheeler said, "This is enough - there will be absolutely no further leaves of absence to military projects."

However, a few weeks later, on December 19, 1940 he received a letter from Lee Du Bridge which I will quote in part:
"I am writing to report to you on the splendid progress which is being made on the defense project under way at M.I.T. and to tell you that the three men from Illinois have worked in splendidly, and have made exceedingly valuable contributions to the progress of the project. We are extremely pleased with the way in which all three of them have taken hold and we are consequently doubly grateful to you for releasing them for work here.

"I should like also to bring up another question which is based upon a fervent hope and a faint hunch that you might be interested. That is whether you, yourself, could come to M.I.T. to work with us. I know that this is asking a great deal, and that your leaving Illinois would be a terrific blow to the Department. I know, also, however that you are anxious to have the other research projects in the Department continued, and that you would not be able to release any of your younger men. We are really in urgent need of additional help here and I have a particular feeling that you could be of unusual assistance to me... Therefore, if you, yourself, could join our group you would be of tremendous help on the administrative side."

Within a month, in January, 1941, Wheeler was at M.I.T. The United States moved rapidly into preparation for war and was fully in the war before the end of 1941. Of the thirteen men who came to the department in the period 1937-40, eleven eventually left to participate in military research and development, as well as the Manley-Haworth accelerator which disappeared quietly one week in 1943 and turned up in Los Alamos after the war.

The department, with Jerry Kruger in charge, entered an entirely new phase of which a very busy feature was the teaching of elementary physics to as many as 2400 military personnel at one time.

But that is another story. It would be followed by the story of the recovery and remarkable development of the department since the war in which you have all had a part. But I must sign off.

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I've no doubt Wheeler will think it pretty presumptuous to use his defense of us in annual reports to the Dean as representing what he actually thinks of us. However I am inclined to take at face value his eloquently expressed sentiments of satisfaction and pride in the department and its accomplishments. Wheeler has moreover had a lot to do with the diffusion of similar sentiments among the members of the department. And I believe that this widespread feeling of pride in the department and in being a part of it is a chief ingredient of its strength through the ups and downs of its fortunes. We are very grateful to Wheeler for his important part in creating this atmosphere, which he went to work on in 1929, and especially grateful right now, for it is something which will far outlast his close association with the department.
First Semester Registrations in Physics Courses 1948-49 to Date

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|           |         | Asst. Prof.  | Wheatley        |        | 1.00   |      | Lab. admin.              |
|           |         | Res. Asst. Prof. | Handler |        | 1.00   | 0.00|                          |
|           |         | Res. Asst. Prof. | Koester |        | 1.00   |      |                          |
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|           |         | Assistant    | Emrick          | 0.50   | 2.00   | 2.00|                          |
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|           |         | Assistant    | Jones           | 1.00   |        | 2.00| Lab. set-up              |
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|           |         | R. Asst. Prof.| Goldwasser          | -              | 1       | -     |              |
|           |         | Instructor    | John                | -              | 2       | -     | Lab Admin.   |
|           |         | Professor     | Kruger              | -              | 1       | -     |              |
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Teaching Assignments and Enrollments in
Advanced Physics Courses
I Semester 1956-57

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14.5 Half-time
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DEGREES CONFERRED 1956-1957

June 1956

Ph.D. in Physics
Russell Carl Casella
Richard Bertram Curtis
Jerrold Franklin
David Francis Griffing
Walter Ashley Harrison
James Wedd Henderson
Cleon Alvin Mackliet
Samuel Penner
John Oliver Thomson

M.S. in Physics
Grenfell Paul Boicourt
Daniel Mordecai Greenberger
Roland Clements Hanson
Samuel Melvin Harris
William Coffeen Holton
Richard Leo Linster
Jefferson Frederick Newton
Thomas George Nilan
Florian Richard Nykiel
Irwin Schneider
John Henry Warren

B.S. in Engineering Physics
John Anderson
George Thomas Condo
Stephen Dudley Davis
Ronald Lester Easley
Harvey Marshall Endler
Arthur Harris
Thomas Stanley Hartwick
Eugene Michael Henry
Phillip Harvey Kier
Donald Arthur Lee
Robert Thomas McCall
John Francis Mester
Guideon Newmark
Robert Gordon Polk
Wayne Augustus Rhoades
Martin Alexander Robertson
John Henry Roecker
Robert Foss Seymour
Ronald Joseph Swallow
Clyde Lovette Sydnor

B.S., Physics Major in LAS
Jim Byars Carroll
Ruth Fleischmann Weiner

August 1956

M.S. in Physics
Elmer Ebert Anderson
Richard Alfred Carrigan, Jr.
Leo Cote
Seymour Margulies
Roger Walz Shaw
Charles Lambert Wolff

B.S. in Engineering Physics
Richard John Clasen

B.S., Physics Major (LAS)
Clarence Lee Rogers

October 1956

Ph.D. in Physics
Allan Clarence Juveland
Murray Donald Sirkis
February 1957

**Ph.D. in Physics**
- George Severt Baker
- Richard Carrel Miller
- Sidney Singer
- Taketora Yamagata

**B.S. in Engineering Physics**
- Charles Anthony Omarzu
- Fred Alan Wolf

**B.S., Physics Major (LAS)**
- Fred Horwitz

June 1957

**Ph.D. in Physics**
- James Edward Bauerle
- Ralph Sherman Cooper
- John Edwin Crew
- Louis Charles Hebel
- Allan Stephen Miller
- John Robert Schrieffer
- Ralph Oliver Simons

**M.S. in Physics**
- Gene Alan Barnes
- George Thomas Condo
- Rudolf Otto Faiss
- Jack Harley Hetherington
- Richard H. Holcomb
- Robert Adam Kawcyn
- John Francis Mester
- John David Oberholtzer
- Eugene Robert Weiner
- Ruth Fleischmann Weiner

**B.S. in Physics (LAS)**
- James Orlan Ballance

**B.S., Physics Major (LAS)**
- Orin I. Dahl
- Roger Miller Fitzgerald
- Paul Maxwell Krasno
- Arthur Wachowski

**B.S. in Engineering Physics**
- James Edmond Barth
- Bernard Blake
- Alan George Bodine
- Carl Lee Colwell
- Edward John Croke
- Henry Pierce Eickelberg
- William Owen Gentry
- Robert J. Heidenreich
- Richard John Kurz
- Kwan Wu Lai
- George Algis Paulikas
- Laurence Bliss Rice
- David Larry Sachs
- Richard S. Sandburg
- James Edwin Schlosser
- Alfred Kurt Spiegel
- Donald Durward Taylor
- Stanley George Wogulis
- David Perry Woodall

H- Honors
HH- High Honors
DT- Distinction in Physics
BT- Bronze Tablet
Physic Department Committees - 1956-57
(First named is Chairman)

### Advisory
(Ch. to be elected)
- Mapother, D. E.
- Maurer, R. J.
- Smith, J. H.
- Weneser, J.

### Assts. and Fellows
- Almy, G. M.
- Becker, R. A.
- Lazarus, D.
- Robinson, C. S.
- Sherwin, C. W.

### Building and Power
- Seitz, F.
- Almy, G. M.
- Flora, R. F.
- Hulsizer, R. I.
- Mapother, D. E.
- Maurer, R. J.
- Slichter, C. P.

### Graduate Studies and Exams
- Almy, G. M.
- Bardeen, J.
- Hill, R. D.
- Maurer, R. J.
- Weneser, J.

### Undergraduate Studies
- Slichter, C. P.
- Lyman, E. M.
- Frauenfelder, H.
- Hulsizer, R. I.
- Wheatley, J. C.

### Engineering Physics
- Lyman, E. M.
- Allen, J. S.
- Becker, R. A.
- Smith, J. H.

### L.A.S. Physics
- Slichter, C. P.
- Brown, F. C.

### Teacher Training
- Almy, G. M.

### Colloquium
- Nordsieck, A. T.
- Seitz, F.
- Axel, P.

### Seminars
- Betatron: Koester, L. J.
- Nuclear: Feingold, A. M.
- Solids: Thomson, R. M.
- Theory: __________

### Foreign Language
- Kruger, P. G. (German)
- Feingold, A. M. (French)
- Bartlett, J. H. (Russian)

### Library
- Maurer, R. J.
- Brown, F. C. (II Sem)
- Frauenfelder, H.
- Hill, R. D.
- Koehler, J. S. (I Sem)
- Weneser, J.

### Open House and Physics Club
- Sherwin, C. W.
- Ascoli, G.
- John, W.
- Lavatelli, L. S.
- Smith, J. H.

### Social
- Lavatelli, L. S.
- Koester, L. J.
- Goldwasser, N.

### Placement
- Becker, R. A.

### Schedules
- Wheatley, J. C.
- Almy, G. M.

### Machine Shop and Drafting
- Mapother, D. E.
- Allen, J. S.
- Flora, R. F.

### Computing Service
- Weneser, J.

### Electronics Shop
- Axel, P.

### Chemistry Lab
- Frauenfelder, H.

### Radioactive Records and Protective
- Lazarus, D.
- Stahelin, P.
September 6, 1956

PHYSICS DEPARTMENT
NOMINATIONS FOR ENGINEERING COLLEGE COMMITTEES

<table>
<thead>
<tr>
<th>Committee</th>
<th>Nominee for 1956-57</th>
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<tbody>
<tr>
<td>Exhibits and Tours</td>
<td>L. S. Lavatelli</td>
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<td>High School Relations</td>
<td>J. S. Allen</td>
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<td>Improvement of Teaching</td>
<td>C. W. Sherwin</td>
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<td>L. J. Koester Feb., 57-Feb., 58</td>
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<td>College Policy and Development</td>
<td>G. M. Almy (elected by dept.)</td>
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"Recent Research in Semi-Conductors"
Dr. Pierre Aigrain
September 24, 1956

"Photo-nuclear Research in Italy"
Professor A.O. Hanson
September 27, 1956

"Electron and Phonon Conduction in Metals"
Professor K. Mendelssohn - Oxford University - England
October 4, 1956

"Density of Nuclear Energy Levels"
Professor Peter Axel
October 11, 1956

"The Experimental Selection of the Free Neutrino"
Professor J.S. Allen
October 18, 1956

"The Ionosphere and Radio Astronomy"
Professor G.W. Swenson - E.E. Department
November 1, 1956

"Imperfections Introduced into Metals by Irradiation, Cold-Working, and Quenching"
Professor J.S. Koehler
November 8, 1956

"Origins of Nuclear Moments of Inertia"
Dr. D.R. Inglis
November 15, 1956

"The Lambda Transition in Liquid Helium"
Professor John Blatt - University of Sidney - Australia
November 21, 1956

"The Proton Compton Effect"
Professor G. Bernardini
December 6, 1956

"Coulomb Excitation of Nuclei"
Dr. K. Alder - University of Michigan
December 13, 1956
"Interference between Light Waves of Different Frequencies"
Professor A. Nordsieck
January 10, 1957

"Demonstration Experiments in Physical Optics using Microwave"
Professor C.W. Sherwin
February 14, 1957

"Hydrogen Deuteride"
Professor Norman F. Ramsey - Harvard University
February 21, 1957

"Experiments on the Invariance of Physical Laws and Mirroring"
Dr. V.L. Telegdi - University of Chicago
February 28, 1957

"Experiments on Polarized Muons"
Professor L.M. Lederman - Columbia University
March 5, 1957

"Electron Scattering of Nuclear Structure"
Dr. D.G. Ravenhall - Stanford University
March 7, 1957

"Conservation Laws for the Weak Interactions"
Professor C.N. Yang - Institute for Advanced Study
March 13, 1957

"Cosmic Rays" - Scientific Lecture Film
Dr. B. Rossi
March 21, 1957

"Decay Properties of K Mesons"
Dr. Henry W. Wyld - Princeton University
March 29, 1957

"Nuclear Relaxation Times in Superconductors"
Mr. L.C. Hebel
April 4, 1957

"Pionic Charge of Nucleons"
Professor G.F. Chew
April 12, 1957

"Angular Correlation Research at Zürich"
Dr. E. Heer - Rochester and Zurich
May 2, 1957
"Microwave Amplifiers and Oscillators Using Atomic Systems"
Professor Charles Slichter
May 9, 1957

"Muonium Induced Nuclear Reactions"
Professor J. D. Jackson
May 16, 1957

"Experiments with the Argonne 7.7-Meter Bent-Crystal Spectrometer"
Dr. Bernard Hamermesh - Argonne National Lab
May 23, 1957
NUCLEAR SEMINAR LIST
1956 - 1957

"Berkeley Anti-neutron Experiments"
Professor R.D. Hill
October 25, 1956

"Status of Internal Conversion Theory - Finite Size Effects"
Professor J. Weneser
November 1, 1956

"Internal Conversion Theory"
Professor J. Weneser
November 8, 1956

"Photonuclear Effect in Light Nuclei"
Dr. Sven Johansson - University of Lund - Sweden
December 4, 1956

"Anti-proton-nucleon Annihilation Process"
Professor R.D. Hill
December 6, 1956

"Some Consequences of the Rotational Level Structure in Nuclei"
Dr. K. Alder - University of Michigan
December 12, 1956

"Photonuclear Models"
Professor P. Axel
December 18, 1956

"The K-particle Puzzle"
Professor G. Ascoli
January 10, 1957

"Symmetry Principles" - (continued)
Professor J. Weneser
February 14, 1957

"Symmetry Principles" - (part III)
Professor J. Weneser
February 21, 1957

"Symmetry Principles" - (part IV)
Professor J. Weneser
February 28, 1957
Nuclear Seminar List

"Symmetry Principles" - (part V)
Professor J. Weneser
March 7, 1957

"The mu-electron Interaction"
Dr. A.C. Odian
March 28, 1957

"The mu-electron Interaction" - (continued)
Dr. A.C. Odian
April 4, 1957

"Crystal Interference Effects in Bremsstrahlung and Pair Production"
Professor A.T. Nordsieck
April 25, 1957

"The Rochester Conference"
Professor L.J. Koester, et. al.
May 2, 1957

"The Rochester Conference" - (conclusion)
Professor G. Ascoli, et al.
May 9, 1957

"Dispersion Relationships Applied to Pion Physics"
Dr. S.P. Fubini
May 16, 1957

"Detection of Electron Polarization - by Møller Scattering"
Mr. N. Levine
May 23, 1957

6/19/57
baj
SOLID STATE SEMINAR LIST
1956 - 1957

"Paint Imperfections in Solids"
Dr. J. Eshelby
September 14, 1956

Dr. Jacques Friedel - Centre de L'Ecole Nationale Superieure des Mines
September 28, 1956

"Electron Theory of Defects in Metals"
Professor A. Seegar - Max Planck Institute - Germany
October 3, 1956

"Spin Temperatures"
Professor G. Leibfried - University of Gottingen - Germany
October 4, 1956

"General Subject of X-rays"
Professor J.A. Prins - Delft, Netherland
October 9, 1956

"The Superconducting Transition in Lead"
Professor D.E. Mapother
October 19, 1956

"Physical Research in the Glass Industry"
H.R. Lilly - Corning Glass Company - Corning, New York
October 23, 1956

"Absorption Bands in Alkali Halides"
Dr. Fritz Luty - Stuttgart, Germany
October 30, 1956

Professor Fausto Fumi
November 5, 1956

"Surface Properties of Semi-Conductors"
Dr. Charles Garrett - Bell Laboratory
November 5, 1956

"Deformation of Crystal Whiskers"
Professor F.R.N. Nabarro - University of Witwatersrand - South Africa
November 16, 1956
"Influence of Lattice Imperfections on the Conduction Properties of Solids at Low Temperatures"
  P.G. Klemens - Commonwealth Scientific and Industrial Research Organization - Sidney, Australia
  November 19, 1956

"Plasma Oscillations in Crystals"
  Phillipe Nozieres - Princeton University
  November 27, 1956

"Strong Interaction between Impurities and Dislocations with Application Fracture, Electrolytic Potential, etc."
  Professor P. Gibbs - University of Utah
  December 1, 1956

"Recent Results of Diffusion Studies in Metals"
  Professor D. Lazarus
  December 7, 1956

"The Hydrogen-Like Atom in a Strong Magnetic Field"
  Robert W. Keys, Westinghouse Research Lab
  December 13, 1956

"New Developments in Silicon p-n Junction Technology"
  Morton B. Prince - Hoffman Electrical Corporation
  December 14, 1956

"Radiation Damage of InSb"
  U. Gonser
  January 4, 1957

"Transient Photoconductivity in Pure AgCl"
  Professor F.C. Brown
  January 9, 1957

"Sputtering by Ion Bombardment"
  Dr. Gottfried Wehner - General Mills Research Lab - Minneapolis
  February 15, 1957

"Recent Research in Radiation Damage at the General Electric Co."
  February 18, 1957

"The Decomposition of Supersaturated Kcl-Nacl Solid Solutions, as a Function of the Aging Temperature"
  Dr. Gerret Tichelaar
  March 1, 1957
"Helical Dislocations in CaF\textsubscript{2}"
Professor F. Seitz
March 8, 1957

"Recent Theoretical Developments in the Theory of Superconductivity"
Professor John Bardeen
March 13, 1957

"The Magneto-Optic Effect in Semi-Conductors and its Relation to Band Structure"
Dr. Frank Blatt - Michigan State University
March 29, 1957

"The Non-saturability of the Strain Field of a Dislocation by Point Imperfection"
Dr. R. Thomson
April 5, 1957

"Influence of Plastic Flow on the Coloration of the Alkali Halides"
G. Chiarotti
April 12, 1957

"Optical Phonon Contribution to Electron Energy Losses in Semiconductors"
Thomas Morgan
April 26, 1957

"Lattice Deformations for Two Models of anInterstitial in Copper"
L. Tewordt
May 3, 1957

"Plastic Deformation of Binary Alloys"
Professor H. Suzuki
May 10, 1957

"Electron Mobilities in AgCl"
Dr. F.E. Dart
May 15, 1957

"Hydrodynamics of Liquid Helium"
R.J. Donnelly - University of Chicago
May 17, 1957
"Observation of Dislocations in Zinc and Aluminum Crystals by Etch-Patterns"
Sho Yoshida
May 24, 1957

"Diffusion-less Phase X Formations"
Professor D. Lieberman
May 28, 1957

"Association of Impurities in Ge and Si"
Howard Reiss - Bell Telephone Laboratory
May 29, 1957
Professor Carl O. G. Borelius of the Department of Technical Physics of the Royal Swedish Institute of Technology, Stockholm, will deliver eight lectures on the campus in the field of Metal Physics in the period between January 15 and February 6. His invitation as a Miller Lecturer is sponsored jointly by the Departments of Mining and Metallurgical Engineering and Physics of the University.

Professor Borelius was born in Falun, Sweden, on April 18, 1889, of an outstanding family of professional individuals. He has had a distinguished career as a teacher and research physicist, particularly in the area centering about the physics of metals. He took the initiative in establishing the Department of Technical Physics of the Royal Swedish Institute of Technology. He is a member of the Academies of Science of Sweden, Finland, and Norway. He will be accompanied by Mrs. Borelius during his visit on the campus.

The schedule of lectures is as follows:

Tuesday, January 15, 1957 - 4:00 P.M. - Room 100 Physics Laboratory
"Calorimetric Studies of Recovery, Recrystallisation and Grain Growth"

Friday, January 18, 1957 - 4:45 P.M. - Room 100 Physics Laboratory
"Equations of State of Solid and Liquid Metals"

Monday, January 21, 1957 - 4:45 P.M. - Room 100 Physics Laboratory
"Equations of State of Solid and Liquid Metals" (concluded)

Wednesday, January 23, 1957 - 4:45 P.M. - Room 100 Physics Laboratory
"General Properties of Substitutional Metallic Solutions"

Friday, January 25, 1957 - 4:00 P.M. - Room 119 Physics Laboratory
"Order-Disorder Transformations"

Monday, January 28, 1957 - 4:00 P.M. - Room 119 Physics Laboratory
"Diffusional Precipitation in Alloys"

Monday, February 4, 1957 - 4:00 P.M. - Room 119 Physics Laboratory
"Diffusional Precipitation in Alloys" (concluded)

Wednesday, February 6, 1957 - 4:00 P.M. - Room 119 Physics Laboratory
"Interstitial Alloys (with H, C, and N)"
<table>
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<tr>
<th>Name</th>
<th>Rank</th>
<th>University Off.</th>
<th>University Res.</th>
<th>Univ. Phone</th>
<th>Home Phone</th>
<th>Local Address</th>
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<tr>
<td><em>Allen, J.S.</em></td>
<td>Professor</td>
<td>106PL</td>
<td>101PL</td>
<td>2117</td>
<td>7-3381</td>
<td>5 Shuman, U</td>
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<td><em>Almy, G.M.</em></td>
<td>Assoc. Head</td>
<td>205PL</td>
<td>-</td>
<td>2121</td>
<td>2675</td>
<td>509 S.Ridgeway,</td>
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<td><em>Ascoli, G.</em></td>
<td>Asst. Prof.</td>
<td>306PL</td>
<td>406PL</td>
<td>2308</td>
<td>9693</td>
<td>507 W.William, C</td>
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<td>*Axel, Peter</td>
<td>Assoc. Prof.</td>
<td>102PL</td>
<td>PRL</td>
<td>2116</td>
<td>3860</td>
<td>701 Haines, C</td>
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<td>*Bardeen, John</td>
<td>Professor</td>
<td>307PL</td>
<td>202LER</td>
<td>2119</td>
<td>7-4497</td>
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<td>Bartlett, J.H.</td>
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<td>105PL</td>
<td>103PL</td>
<td>2322</td>
<td>7-3892</td>
<td>807 W.Green, U</td>
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<td>Bassani, C.F.</td>
<td>Res. Assoc.</td>
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<td>2680</td>
<td>6-8278</td>
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<td><em>Becker, R.A.</em></td>
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<td>306PL</td>
<td>218PRL</td>
<td>2308</td>
<td>7-4996</td>
<td>501 W.Mitch, U</td>
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<td><em>Bernardini, G.</em></td>
<td>Res. Prof.</td>
<td>205PRL</td>
<td>-</td>
<td>2526</td>
<td>6-9393</td>
<td>1608 Coronado, U</td>
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<td><em>Brown, F.C.</em></td>
<td>Asst. Prof.</td>
<td>206PL</td>
<td>309PL</td>
<td>2456</td>
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<td><em>Casella, R.C.</em></td>
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- Harris, S.H. NSF Fellow 110P - 2118 - 902 S. Second, C
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- *Henry, R.W. NSF Fellow - 218P - 7-8107 1500 Carolina, U
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- Hetherington, J.H. NSF Fellow - - - 7-1289 209 W. Penn., U
- Hobart, Robert Gulf Fel. 409aP - 2564 - 7-4971 1111 W. Ill., U
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PHYSICS DEPARTMENT JUNIOR STAFF DIRECTORY
SECOND SEMESTER 1956-1957
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<td>Deem, W.C.</td>
<td>Sr. Lab, Mech.</td>
<td>152PL</td>
<td>2301</td>
<td>3550</td>
<td>503 W. Bairdley, C</td>
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<tr>
<td>DeVore, C.W.</td>
<td>Jr. Lab, Mech.</td>
<td>106b Min</td>
<td>2812</td>
<td>256</td>
<td>411 N. Ohio, Rantoul</td>
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<tr>
<td>Ditzler, E.T.</td>
<td>Sr. Lab, Mech.</td>
<td>150PL</td>
<td>2115</td>
<td>4364</td>
<td>407 W. Ellis, C</td>
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<tr>
<td>Englund, E. Ernest, L.E.</td>
<td>P.R. Lab, Asst.</td>
<td>100aPRL</td>
<td>2526</td>
<td>7-5061</td>
<td>118 W. Florida, U</td>
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<tr>
<td>Fieg, C.W.</td>
<td>Sr. Lab, Mech.</td>
<td>115PL</td>
<td>2115</td>
<td>3607</td>
<td>809 W. John, C</td>
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<tr>
<td>Flora, R.F.</td>
<td>Jr. Lab, Mech.</td>
<td>100PRL</td>
<td>2526</td>
<td>6-9802</td>
<td>RR #11, C</td>
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<tr>
<td>Flynn, E.R.</td>
<td>Lab Manager</td>
<td>216PL</td>
<td>2325</td>
<td>6-5788</td>
<td>215 Hessel, C</td>
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</tr>
<tr>
<td>Francis, P.R.</td>
<td>Jr. Accel. Eng.</td>
<td>204PRL</td>
<td>2526</td>
<td>8954</td>
<td>1102 S. Locust, C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gersbaugh, H.C.</td>
<td>Chief Clerk</td>
<td>216PL</td>
<td>2326</td>
<td>6-8148</td>
<td>1516 Sheridan, C</td>
<td></td>
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<tr>
<td>Groce, Beverly</td>
<td>Asst. Lab, Attd.</td>
<td>109PL</td>
<td>3287</td>
<td>-</td>
<td>402 W. High, U</td>
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<tr>
<td>Johnson, Barbara</td>
<td>Clerk-Typist</td>
<td>203PL</td>
<td>2123</td>
<td>7-3176</td>
<td>300 S. Goodwin, U</td>
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<tr>
<td>Johnson, G.A.</td>
<td>Sr. Lab, Mech.</td>
<td>100PRL</td>
<td>2526</td>
<td>6-4366</td>
<td>902 S. Foley, C</td>
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<tr>
<td>Kaufman, Barbara</td>
<td>Clerk-Typist</td>
<td>204PL</td>
<td>2321</td>
<td>7-8210</td>
<td>1009 Anderson, U</td>
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<tr>
<td>Kenworthy, R.D.</td>
<td>Storekeeper</td>
<td>211PRL</td>
<td>2518</td>
<td>7-4845</td>
<td>713 S. Grove, U</td>
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<tr>
<td>Kibler, D.F.</td>
<td>Sr. Lab, Mech.</td>
<td>NRL</td>
<td>2113</td>
<td>3103</td>
<td>Homer, Ill.</td>
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<tr>
<td>King, T.A.</td>
<td>Sr. Accel. Eng.</td>
<td>200PRL</td>
<td>2526</td>
<td>8522</td>
<td>1108 S. Elm, C</td>
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<td>Kling, C.E.</td>
<td>Sr. Glass Blower</td>
<td>107PRL</td>
<td>2526</td>
<td>7-2531</td>
<td>801 S. Grove, U</td>
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<td>Kreismanis, M.V.</td>
<td>Sr. Accel. Eng.</td>
<td>106NRL</td>
<td>3494</td>
<td>7-7996</td>
<td>201 S. Gregory, U</td>
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<td>Mann, G.R.</td>
<td>Sr. Elec. Tech.</td>
<td>212PRL</td>
<td>2526</td>
<td>6-9261</td>
<td>1805 S. McDonald Dr., C</td>
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<td>Marlatt, R.E.</td>
<td>Sr. Lab, Attd.</td>
<td>100PL</td>
<td>3163</td>
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<td>Box 198, Ludow, Ill.</td>
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<tr>
<td>Matteson, Bess</td>
<td>Secretary</td>
<td>209PRL</td>
<td>2526</td>
<td>10285</td>
<td>Mahomet, Ill.</td>
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<td>McCown, Della R.</td>
<td>Secretary</td>
<td>205PRL</td>
<td>2122</td>
<td>7-4957</td>
<td>1010 S. Anderson, U</td>
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<td>McGuire, C.A.</td>
<td>Jr. Elec. Tech.</td>
<td>NRL</td>
<td>2113</td>
<td>6-5873</td>
<td>1012 W. Maple, C</td>
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<td>Metivier, Jacqueline</td>
<td>Draftsman</td>
<td>121PL</td>
<td>2115</td>
<td>-</td>
<td>104 N. McCullough, U</td>
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<tr>
<td>Name</td>
<td>Rank</td>
<td>Univ. Office</td>
<td>Univ. Phone</td>
<td>Home Phone</td>
<td>Local Address</td>
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<td>Nelson, A.W.</td>
<td>Jr. Accel. Eng.</td>
<td>204 PRL</td>
<td>2526</td>
<td>4015</td>
<td>1005 S. Prairie, C</td>
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<td>Oliver, D.C.</td>
<td>Sr. Lab. Attd.</td>
<td>318 PL</td>
<td>2766</td>
<td>8550</td>
<td>1209 Carver Dr., C</td>
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<tr>
<td>Olson, R.R.</td>
<td>Jr. Accel. Eng.</td>
<td>113 NRL</td>
<td>2113</td>
<td>-</td>
<td>315 W. Birch, C</td>
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<tr>
<td>Pacini, Dixie M.</td>
<td>Clerk-Typist</td>
<td>216 PL</td>
<td>2326</td>
<td>7-6200</td>
<td>405 W. Springfield, U</td>
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<tr>
<td>Paden, Lolita</td>
<td>Clerk III</td>
<td>216 PL</td>
<td>2326</td>
<td>6-6551</td>
<td>1704 White, C</td>
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<td>Peters, A.W.</td>
<td>Jr. Lab. Attd. and Driver</td>
<td>209 PRL</td>
<td>2526</td>
<td>2032</td>
<td>Box 204, Sidney, Ill.</td>
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<td>Quick, R.H.</td>
<td>Jr. Accel. Eng.</td>
<td>204 PRL</td>
<td>2526</td>
<td>2842</td>
<td>209 W. Hessel, C</td>
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<td>Rogers, C.L.</td>
<td>Sr. Accel. Engr.</td>
<td>204 PRL</td>
<td>2526</td>
<td>6-0620</td>
<td>506 S. Mattis, C</td>
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<td>Russell, R.L.</td>
<td>Storekeeper</td>
<td>221 PL</td>
<td>2459</td>
<td>7-8664</td>
<td>1404 E. Pennsylvania, U</td>
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<td>Schwab, G.J.</td>
<td>Sr. Lab. Mech.</td>
<td>100 PRL</td>
<td>2526</td>
<td>7-2484</td>
<td>901 E. Washington, U</td>
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<td>Sharp, L. Jean</td>
<td>Tech. Computer</td>
<td>216 PL</td>
<td>2325</td>
<td>9626</td>
<td>206 E. White, C</td>
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<td>Starr, J.R.</td>
<td>Sr. Elec. Tech.</td>
<td>209 PRL</td>
<td>2526</td>
<td>2530</td>
<td>905 2 N. Rand, C</td>
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<td>Stoner, H.G.</td>
<td>Sr. Lab. Mech.</td>
<td>150 PL</td>
<td>2115</td>
<td>6-3414</td>
<td>806 S. Foley, C</td>
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<td>Stoppini, Maria</td>
<td>Jr. Lab. Attd.</td>
<td>109 PL</td>
<td>3287</td>
<td>7-0370</td>
<td>1107 W. Green, U</td>
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<td>Swanson, D.C.</td>
<td>Sr. Lab. Mech.</td>
<td>150 PL</td>
<td>2115</td>
<td>7-8734</td>
<td>803 E. Michigan, U</td>
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<td>Vermillion, D.</td>
<td>Accel. Tech.</td>
<td>6 PRL</td>
<td>2526</td>
<td>7-6949</td>
<td>908 E. Park, U</td>
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<td>Wardin, R.P.</td>
<td>Jr. Accel. Eng.</td>
<td>115 PRL</td>
<td>2526</td>
<td>6-0736</td>
<td>1803 Lynwood Dr., C</td>
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<td>Watson, P.K.</td>
<td>Jr. Lab. Mech.</td>
<td>150 PL</td>
<td>2115</td>
<td>6-2644</td>
<td>317 N. Fair, C</td>
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<td>Wills, C.A.</td>
<td>Draftsman</td>
<td>121 PL</td>
<td>2115</td>
<td>6-6391</td>
<td>803 S. Foley, C</td>
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<td>Winesburg, Carol</td>
<td>Clerk-Steno.</td>
<td>205 PRL</td>
<td>2122</td>
<td>8663</td>
<td>Loll Elm, C</td>
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<td>Witt, F.E.L.</td>
<td>P.R. Lab. Asst.</td>
<td>121 PL</td>
<td>2115</td>
<td>9547</td>
<td>1706 Princeton Dr., C</td>
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<td>Wogulis, S.G.</td>
<td>Jr. Accel. Eng.</td>
<td>NRL</td>
<td>2113</td>
<td>6-7869</td>
<td>509 E. John, C</td>
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</table>
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Allen, James S. Highest Degree Ph.D.

Academic Rank Professor Admin. Title

Time devoted to University work according to official appointment: — Full Time; — ⅔; —⅓; —½; —⅕; —⅙; —⅛ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 50 percent of full load in the fall semester and 50 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 50 percent of a full load in the fall semester and 50 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 20 clock hours per week. The principal time-consuming duties are:

Director of cyclotron project.

MEMBERSHIP ON COMMITTEES:

New Physics Building
Department: Physics Shops
Engineering Physics

College: High School Relations

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

American Physical Society, Washington, April 1957.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Electron-neutrino angular correlation in the positron decay of $^{35}\text{A}$. (With W. Herrmannsfeldt and P. Stähelin). Part of this research work will be used as a Ph.D. thesis by Herrmannsfeldt.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

Consultant with Los Alamos Scientific Laboratory, Summer 1956.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Almy, Gerald Marks

Highest Degree Ph.D.

Academic Rank Professor

Admin. Title Assoc. Head. of Dept.

Time devoted to University work according to official appointment: ___ Full Time; ___ 3/4; ___ 2/3; ___ 1/2; ___ 1/3; ___ 1/4; ___ Time.

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as 50 percent of full load in the fall semester and 50 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are: 50% full time as Associate Head of Department - administrative duties.

MEMBERSHIP ON COMMITTEES:

Department: Assistants and Fellows, Chair. Schedules
Building and Power New Physics Building, Chair.
Graduate Studies and Exams, Chair. Betatron Steering
Teacher Training, Adviser

College: Engrg. - College Policy and Development
- Space

University: Fulbright Awards
Patents (Chair.)
General Education Subcommittee on Natural Science (Chair.)

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society
American Institute of Physics

Attendance at meetings of technical societies:

American Physical Society: Chicago, November 1956
                                 New York, January 1957
                                 Washington, April 1957.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Ascoli, Giulio

Highest Degree Ph.D.

Academic Rank Assistant Professor

Time devoted to University work according to official appointment: X Full Time; ¾; ⅔; ½; ⅓; ¼; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of_____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Axel, Peter

Highest Degree: Ph.D.

Academic Rank: Associate Professor

Admin. Title: ________________________

Time devoted to University work according to official appointment: — X — Full Time; — ¾; — ½; — ¾; — ¼; — Time.

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

- Experimental Nuclear Physics concentrating on:
  - a) Photoneutron Reactions
  - b) Excited States of Nuclei,
  - c) Radioactivity.

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Colloquium
Electronics Shop
Qualifying Examination
Building Committee

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Fellow American Physical Society
Pi Mu Epsilon
Sigma Xi

Attendance at meetings of technical societies:

International Conference on Nuclear Reactions, Amsterdam, Netherlands 7/6/56-7/10/56
American Physical Society, Chicago, Illinois
American Physical Society, New York

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

STUDIES OF COMPOUND NUCLEI + PHOTONEUTRON EFFECT
MEASUREMENTS OF SHORT LIVED ISOMERS
Supervision of graduate thesis of J.O. Fox - not yet complete
Design of Photon Monochromator

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With Ira Pullman
Decay of Ce

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Miscellaneous entertaining of students

Other professional activities, including summer work:

Lecture Tour of Italy 4/4/56-5/6/56 at 8 Universities 12 lectures
Lectures at Nobel Institute, Stockholm 6/6-6/10 1956
Lecture at University of Oslo, Norway 6/11/1956
Lecture at Joint Norwegian-Dutch Atomic Energy Laboratory, Kjeller, Norway 6/13/1956
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF __Physics_____

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Bardeen, John

Highest Degree Ph.D.

Academic Rank Professor

Admin. Title

Time devoted to University work according to official appointment: ___ X Full Time; ___ 3/4; ___ 2/3; ___ 1/2; ___ 1/3; ___ 1/4; ___ Time. 50% Physics Dept., and 50% Elec. Eng. Dept.

TEACHING: Physics

Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as _____ percent of a full load in the fall semester and _____ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of _______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities: American Physical Society
National Academy of Sciences
Amer. Assn. for Advance, Science
Sigma Xi
Tau Beta Pi

Attendance at meetings of technical societies: American Physical Soc., Chicago, Nov. 1956
New York, Jan. 1957
Washington, April 1957
Nat. Acad. Sciences, Washington, April 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:


Seven Ph.D. theses under supervision.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

See attached sheet

Addresses — Title, organization addressed, and date:

See attached sheet

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Entertain students at home occasionally.

Other professional activities, including summer work:

John Bardeen - Physics

Publications:


Addresses:

Methods for studying semiconductor surface states.
At Mtg. Electrochemical Society, SanFrancisco, May 1956;
International Conference on Semiconductors, Garmisch,Germany, September 1957.

Research leading to point contact transistor.
Nobel Prize lecture, Stockholm, December 1956;
American Physical S ociety, Washington, April 1957.

Theory of superconductivity.
National Academy of Science, April 1957
Princeton University, April 1957.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  Bartlett, James H.  Highest Degree  Ph.D.

Academic Rank  Professor  Admin. Title

Time devoted to University work according to official appointment:  x Full Time;  3/4;  2/3;  1/2;  1/3;  1/4;  Time.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:  University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:  Language

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
- American Physical Society, Sigma Xi
- Electrochemical
- Marine Biological Laboratory, Woods Hole, Mass.

Biophysics Society

Attendance at meetings of technical societies:
- Electrochemical Society, Cleveland
- American Physical Society, New York
- Biophysics, Columbus

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
- Wave Equation for spin $\frac{1}{2}$ (completed)
- Cosmotron stability for 2 degrees of freedom (completed)
- Anodic Behavior of Copper in HCl (completed)
- Wave Equation for ground state of helium atom (in progress)
- "..." tetravalent nucleus (in progress)

Supervised thesis by R.S. Cooper

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

- Cosmotron stability for 2 degrees of freedom (New York Univ June '56)
- Convection, Overshoot and Oscillations (in press, Jour. Electrochem Soc) with R.S. Cooper
- Anodic Transients for Copper in HCl (Technical Report No. 3 for OAK) 1956
-...

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Bassani, G. Franco

Highest Degree: Laurea in Physics (Italy)

Academic Rank: Research Associate

Time devoted to University work according to official appointment: Full Time; 3/4; 2/3; 1/2; 1/3; 1/4; Time. Resigned Dec. 31, 1956.

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Becker, Robert A.  Highest Degree: Ph.D.

Academic Rank: Professor  Admin. Title: 

Time devoted to University work according to official appointment: X Full Time;  3/4;  2/3;  1/2;  1/3;  1/4;  Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 5 to 10 clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Fellows and Assistants
            Placement
            Engineering Physics Advisor

College: Placement

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

- American Physical Society (Fellow)
- American Institute of Physics
- Sigma Xi

Attendance at meetings of technical societies:


Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

- Studies of Mo$^{91}$ to No$^{91}$ decay scheme, completed
- $\beta$-decay scheme completed
- Further study of Ho$^{164}$ scheme in progress
- In progress

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

- With F.B. Smith, N.B. Gove, R.W. Henry

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

Research appointments at betatron.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Bernardini, Gilberto
Highest Degree: Ph.D.

Academic Rank: Professor
Admin. Title:

Time devoted to University work according to official appointment:  X Full Time;  ¾;  ½; ½; ¼; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 50 percent of full load in the fall semester and 50 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 50 percent of a full load in the fall semester and 50 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

- With M. Beneventano, D. Carlson-Lee, G. Stoppini, L. Tau

- With M. Beneventano, D. Carlson-Lee, G. Stoppini, L. Tau


Publications—Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

- With M. Beneventano, D. Carlson-Lee, G. Stoppini, L. Tau


- With M. Beneventano, G. Stoppini, L. Tau

- With L.B. Auerbach, I. Filosofo, A.O. Hanson, A.C. Odian, T. Yamagata

Addresses—Title, organization addressed, and date:


Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Brown, Frederick C.          Highest Degree: Ph.D.

Academic Rank: Assistant Professor       Admin. Title:                      

Time devoted to University work according to official appointment:   __ Full Time;   ___ 3/4;   ___ 2/3;   ___ 1/2;   ___ 1/3;   ___ 1/4;   ___ Time:

TEACHING:   Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___ percent of full load in the fall semester and ___ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:   Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ___ percent of a full load in the fall semester and ___ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

Library Comm.

College:

English Comm. of Engineering College

University:

Technical Societies and Advisory Groups:

Sponsor, Omega Beta Pi, Pre-Med. Honorary
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Soc.
American Assoc. of Physics Teachers

Attendance at meetings of technical societies:

Amer. Physical Soc. Philadelphia Meeting Mar. 21, 1957
Symposium on color centers, Argonne Nat. Lab., Nov. 1956

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

1. Transient Photoconductivity in AgCl
2. Electron Mobility below 77°K in AgCl
3. Mobility of Electrons in AgCl below 77°K,
   (With F. Dart, Article in Preparation)

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With N. Wainfan

Addresses — Title, organization addressed, and date:

2. Electronic Conductivity of Silver Halides, Phys. Dept. Univ. of Rochester, Nov. 1956

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Sponsor Omega Rho Pi, Psi Epsilon Honorary
Attend most meetings.

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Casella, Russell C. Highest Degree Ph.D.

Academic Rank Research Associate Admin. Title

Time devoted to University work according to official appointment: X Full Time; __¾; __½; __½; __¾; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___ percent of full load in the fall semester and ___ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ___ percent of a full load in the fall semester and ___ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:


Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Research in progress: Calculation of band structure of a hypothetical carbon solid and comparison of results with those for diamond. Analysis of cohesion in both systems.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Chew, Geoffrey F.  Highest Degree: Ph.D.

Academic Rank: Professor  Admin. Title: 

Time devoted to University work according to official appointment:  Full Time; 3/4; 1/2; 1/4; Time.  On Leave 1956-1957.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as percent of full load in the fall semester and percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:  University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With F.E. Low, M.L. Goldberger


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Chiarotti, Gianfranco
Highest Degree: Doctor in Physics (Italy)

Academic Rank: Assistant Professor
Admin. Title:

Time devoted to University work according to official appointment: 100% Full Time; 100% 3/4; 100% 2/3; 100% 1/2; 100% 1/4; 100% Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 0 clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
Società Italiana di Fisica

Attendance at meetings of technical societies:
Symposium on Color Center, Argonne National Laboratory, October 31st November 3rd, 1956
Meeting of the American Physical Society, Washington, April 25, 27, 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
Effect of plastic deformation on optical properties of KBr and KI (individual research)
Photoproduction of V₁ centers. (with N. Inchauspé)

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Photoproduction of V₁ centers (with N. Inchauspé). Report for limited distribution.

Addresses — Title, organization addressed, and date:
Effect of Low Temperature Plastic Deformation upon the Optical Properties of the Alkali Halides. Symposium on Color Centers, Argonne National Laboratory Nov. 1st, 1956

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS

COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Cooper, Leon N. Highest Degree Ph.D.

Academic Rank Research Associate Admin. Title

Time devoted to University work according to official appointment: __ Full Time; ___ 3/4; ___ 2/3; ___ 1/2; ___ 1/3; ___ 1/4; _____ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as _____ percent of full load in the fall semester and _____ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

Unofficially taught a field theory course during II Semester.

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Off-Campus: M.I.T. Physical Science Study Committee

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society.

Attendance at meetings of technical societies:

American Physical Society: Chicago, Nov. 1956
New York, January 1957
Philadelphia, March 1957
Washington, April 1957

Many Body Conference - Stevens Institute of Technology.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Theory of superconductivity.
Supervised research of graduate student - Robt. Hobart.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With J. Bardeen and J. R. Schrieffer

Addresses — Title, organization addressed, and date:

Columbia University, May 17, 1957
Univ. of Minnesota, May 29, 1957
Ohio State University, November 1956
Johns Hopkins University, February 1957.

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Dart, Francis E.  Highest Degree: Ph.D.

Academic Rank: Associate Professor  Admin. Title: 

Time devoted to University work according to official appointment: __Full Time; ___ 3/4; ___ 2/3; X 1/2; ___ 1/3; ___ 1/4; ___ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___ percent of full load in the fall semester and ___ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ___ percent of a full load in the fall semester and ___ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Feingold, Arnold M.  
Highest Degree: Ph.D.

Academic Rank: Assistant Professor  
Admin. Title: 

Time devoted to University work according to official appointment:  
- Full Time; 
- 2/3; 
- 1/2; 
- 1/3; 
- 1/4; 
- Time.

TEACHING: 
Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: 
Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

Theoretical Nuclear Physics; level structure of light nuclei; tensor forces; and the shell model.

OTHER DUTIES: 
University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Nuclear Seminar Committee (Chairman) 
Language Examinations (French)

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
- American Institute of Physics
- American Physical Society
- American Association of Physics Teachers
- Sigma Xi

Attendance at meetings of technical societies:
- American Physical Society meetings at:
  - Chicago, Ill. Nov. 23, 14 (1956)
  - New York City, N.Y., Jan. 30-Feb. 2 (1957)

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
- Derivation of vector shell model from tensor forces. Study of 3-body vector forces as affecting shell model. Three-body vector forces applied to level structure of $^6_	ext{Li}$ and $^7_	ext{Li}$.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING—DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Filosofo, Italo

Highest Degree: Laurea in Physics (Italy)

Academic Rank: Research Associate

Admin. Title:

Time devoted to University work according to official appointment: Full Time; ¾; ½; ½; ½; Time. Contract expired Feb. 28, 1957.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With I. Modena, E. Pohl, J. Pohl-Rüling
The increase in the total cosmic ray intensity and in the positive excess due to the solar flare of 23rd February 1956. Il Nuovo Cimento Ser. 10, 2: 1112-1118 (1956).

With G. Bernardini, L.B. Auerbach, A.O. Hanson, A.C. Odian, T. Yamagata

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: FRAUENFELDER, HANS  Highest Degree: Ph.D.

Academic Rank: Associate Professor  Admin. Title:

Time devoted to University work according to official appointment:  
Full Time;  3/4;  2/3;  1/2;  1/3;  1/4;  Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

- Nuclear Physics - Parity and electron polarization
- Surface Physics - Investigation of surfaces by radioactivity
- Solid State - Superconductivity and phase transitions.

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 3 clock hours per week. The principal time-consuming duties are:

Committee meetings

MEMBERSHIP ON COMMITTEES:
- N ew Physics Building
- Department: Undergraduate Studies
- Library
- Chemistry Laboratory

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society  
Swiss Physical Society  
Italian Physical Society

Attendance at meetings of technical societies:

International Conference on Nuclear Structure, Amsterdam, 1956  
International Conference on High Energy Physics, Rochester, 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Supervision of four graduate Ph.D. theses and two research students.  
See listing on other side of sheet.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With N. Levine, A. Rossi, S. Singer  

With R. Bobone, E. von Goeler, N. Levine, H.R. Lewis, R.N. Peacock, A. Rossi, G. DePasquale  
Parity and the polarization of electrons from $^{60}$Co. Phys.Rev. 106: 386-387(L), (1957).

Addresses — Title, organization addressed, and date:

"Angular Correlation": Univ. Maryland 5-20-56; Univ. Hamburg (Germany) 7-9, 10-56; Univ. Bonn 7-12-56; Univ. Heidelberg 7-13-56; General Electric Co. 12-4-56; Sylvania 12-7-56.

"Parity": Rochester 4-17-57; Oak Ridge National Lab. 5-8-57; Princeton University 5-16-57.

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Goldwasser, Edwin L. Highest Degree: Ph.D.

Academic Rank: Assistant Professor Admin. Title:

Time devoted to University work according to official appointment: Full Time; ⅓; ⅔; ½; ⅝; ⅞; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 25 percent of full load in the fall semester and 25 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 75 percent of a full load in the fall semester and 75 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: H.S. Science Teaching Aids Betatron Steering Social

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

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

Attendance at meetings of technical societies:

American Physical Society: Chicago, November 1956
New York, January 1957

High Energy Conference, University of Rochester, April 14, 1957.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Am currently working on an experiment which is designed to give detailed information on the angular distribution of neutral pions produced by photons impinging on protons.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With D. Carlson-Lee

With L.J. Koester, Jr.

Addresses — Title, organization addressed, and date:

Comparison of photomeson experiments with theoretical predictions calculated through use of the dispersion relations. Univ. Rochester conference on High Energy Physics, April 14, 1957.

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

I am participating in a project, sponsored by a group at M.I.T. with support from the National Science Foundation, directed toward improvement of the teaching of physics in high schools. I am currently engaged in the writing of a section of the textbook which will be tried in the course that is being developed.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Gonser, Ulrich

Highest Degree: Dr. rer. nat. (Germany)

Academic Rank: Research Associate

Admin. Title:

Time devoted to University work according to official appointment: Full Time; 3/4; 2/3; 1/2; 1/3; 1/4; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications in writing state:
'Radiation Damage Experiments and the Question about Thermal Spikes in III-V Compounds'
'Radiation-induced Phase Changes in Metals and Semiconductors'

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With B. Okkerse

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Handler, Paul

Highest Degree: Ph.D.

Academic Rank: Assistant Professor

Admin. Title: ____________

Time devoted to University work according to official appointment: ___Full Time; ___¾; ___½; ___⅐; ___¼; ________ Time. 2/3-time in Electrical Engineering Dept.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___⅐ percent of full load in the fall semester and ___½ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Hanson, Alfred O.  Highest Degree: Ph.D.

Academic Rank: Professor  Admin. Title:

Time devoted to University work according to official appointment: — Full Time; — ¾; — ⅔; — ⅓; — ⅛ Time.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Betatron Steering

College:

University: Radiation Hazards Committee

PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:


Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

- Torino, Italy- 10 lectures on photonuclear reactions; 4 lectures on neutron physics as applied to nuclear reactors.
- Purdue Univ., Nov. 16, 1956. "Proton Compton Effect"

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Hill, Robert D.  Highest Degree: Sc.D.

Academic Rank: Professor  Admin. Title:

Time devoted to University work according to official appointment:  100% Full Time;  75%  50%  25%  10%  Time.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:  University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: LIBRARY
GRADUATE

College: LIBRARY

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

**American Physical Society.**

Attendance at meetings of technical societies:

**Chicago Meeting of American Physical Society, November 1956.**

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

- **Supervision of J.E. Crew's Thesis on Interaction of 1.5 Bev Pions with Emulsion Nuclei**. (Presented June '57).

- **Research in progress: Interaction of K-Minus Particles with Nuclei.**

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

- **With S.D. Johansson, F.T. Gardner**

  Production and annihilation of an antiproton in a nuclear emulsion.


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

**Consultant: Brookhaven National Lab, L.I. N.Y., August 15 - Sept. 10, 1956.**
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING—DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Hulsizer, Robert I. Highest Degree: Ph.D.

Academic Rank: Professor Admin. Title: ____________

Time devoted to University work according to official appointment: — Full Time; — ¾; — ½; — ⅛; — ¼; — Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Building Committee
Undergraduate Curriculum
Liberal arts majors in Physics, advisor

College:

University:

Technical Societies and Advisory Groups:
Editorial Board, Review of Scientific Instruments
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

- Fellow, American Physical Society
- Member, Sigma Xi
- Phi Beta Kappa

Attendance at meetings of technical societies:

- American Physical Society, Chicago, November 1956
- New York, February 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:


Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

- Faculty advisor, Christian Science Organization at the U. of Ill.
- Chaperone dances at EK, ΔΦ

Other professional activities, including summer work:

- Consultant to ONR on data processing techniques
- To McDonnell Aircraft Co. on radar design
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Hummel, John P.  Highest Degree: Ph.D.

Academic Rank: Instructor  Admin. Title: 

Time devoted to University work according to official appointment: ___ Full Time; ___ 3/4; ___ 1/2; ___ 1/3; ___ 1/4; ___ Time.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___ percent of full load in the fall semester and ___ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ___ percent of a full load in the fall semester and ___ percent in the spring semester. Major projects and areas of specialization are:

1. Study of low yield photonuclear reactions at energies below 25 Mev.

2. Study of photospallation and photofission at energies up to 340 Mev.

OTHER DUTIES:  University duties not directly credited to teaching and research occupy an average of ___ clock hours per week. The principal time-consuming duties are:

Committee Work

MEMBERSHIP ON COMMITTEES:

Department:  None

College:  Nuclear Engineering

University:  Radiation Hazards Committee

Technical Societies and Advisory Groups:  None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

None

Membership in technical societies and fraternities:

American Chemical Society
Sigma Xi

Attendance at meetings of technical societies:

None

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

1. Study on radioactive xenon fission products using scintillation spectroscopy (Senior thesis of Daniel A. Netzel in chemistry).
2. In progress (graduate student work)—Radiochemical study of the high energy photospallation of As and Bi.
3. In progress (graduate student work)—Radiochemical study of the yields of \( (\gamma, \alpha) \) and \( (\gamma, \alpha n) \) reactions at low energies.
4. In progress—determination of \( (\gamma, \alpha) \) yields at low energy by direct counting of the emitted alpha particles.

Publications—Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

None

Addresses—Title, organization addressed, and date:

"What is Known about the Dangers of Nuclear Fallout"
Champaign Lions Club, May 22

None

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

None

Other professional activities, including summer work:

None
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Inchauspé, Nicolas

Highest Degree: Ph.D.

Academic Rank: Research Associate

Admin. Title:

Time devoted to University work according to official appointment: Full Time; ¾; ½; ½; ¼; Time.

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
**PROFESSIONAL ACTIVITIES:**

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Argonne Symposium on Color Centers. Contributed paper:
Photoconductivity in additively colored alkali-halides.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Photoproduction of \( V_1 \) centers. (with Chiarotti)

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With F. Bassani
Position of the alpha and beta bands in alkali-halide crystals.

Photoconduction in KBr and KI crystals containing F centers. *Phys. Rev.* June 1957

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: John, Jr. Walter

Highest Degree: Ph.D.

Academic Rank: Instructor

Admin. Title:

Time devoted to University work according to official appointment: Full Time; 3/4; 2/3; 1/2; 1/3; 1/4; Time.

TEACHING:
Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:
Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

Research in photomeson production at 300 m eV

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Open House
Subcommittee on building plan (lab space)

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:
Washington D.C. meeting of American Physical Society
Chicago " "
Photomuclear conference in Chicago.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

In collaboration with E. Stoppini measured the photoproduction of neutral pions from hydrogen. The first trial was successful and a publication is being prepared. More measurements will be made July 1-August 57.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Excitation functions for ($\alpha$,xn) reactions on lead. Phys. Rev. 103:
704-713 (1956).


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  Kanzaki, Hiroshi

Highest Degree Bachelor of Engrg. (Japan)

Academic Rank Research Associate Admin. Title

Time devoted to University work according to official appointment:  Full Time; ¾; ½; ¼; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are: Imperfections in Crystalline Solids.

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:  Doctor of Engineering, Univ. of Tokyo (JAPAN).

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Kerst, Donald William

Highest Degree: Ph.D.

Academic Rank: Professor

Time devoted to University work according to official appointment: — Full Time; — ¾; — ½; — ¼; — Time. On Leave 1956-57 - Technical Director of Midwest Universities Research Association.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With K.R. Symon, L.W. Jones, L.J. Laslett, K.M. Terwilliger

With K.R. Symon, L.J. Laslett, L.W. Jones, K.M. Terwilliger

Addresses — Title, organization addressed, and date:

Feshman Forum Lecture, University of Wisconsin, April 30, 1957
"Accelerators in High Energy Physics"

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Koehler, James S. 

Highest Degree Ph.D.

Academic Rank Professor

Admin. Title

Time devoted to University work according to official appointment: X Full Time; ¾; ½; ¼; Time. (On leave II Semester 1956-57)

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Physics Library (I Sem.)

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Koester, Louis J

Academic Rank: Research Assistant Professor

Time devoted to University work according to official appointment: Full Time; 3/4; 2/3; 1/2; 1/3; 1/4; Time.

TEACHING:
Teaching program for the current academic year was reported to the Bureau of Institutional Research as 23 percent of full load in the fall semester and 33 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:
Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 67 percent of a full load in the fall semester and 67 percent in the spring semester. Major projects and areas of specialization are:

Experiments on photoproduction of mesons with the 300 Mev betatron.

OTHER DUTIES:
University duties not directly credited to teaching and research occupy an average of 0 clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:
Department: Social Committee, Nuclear Seminars, Betatron Seminars

College: Social Committee

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society

Society of the Sigma Xi

Attendance at meetings of technical societies:

MURA Technical Group Meeting, Madison, Wisc., Nov. 3, 4, 1956
Meetings of the American Physical Society at Chicago, Illinois
November 27, 28, 1956.
Meetings of the American Physical Society at New York, New York
Jan. 30, Feb. 2, 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Development of counting equipment for an experiment on the angular distribution of \( \pi^0 \) photoproduction in hydrogen. The experiment is now in progress and will be a thesis topic for George Modesitt.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With E.L. Goldwasser

With F.E. Mills

Addresses — Title, organization addressed, and date:

Photoproduction of \( \pi^0 \) Mesons. Colloquium of the Dept. of Physics, State University of Iowa, February 19, 1957.

Addresses:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

Participation in the Physical Science Study Committee, a group studying the teaching of Physics in High Schools and preparing a new textbook and teaching aids.

Entertainment of students in home.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF ____________

May 1, 19__, to April 30, 19__,

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME ____________ Kruger, P. Gerald

Highest Degree ____________ Ph.D.

Academic Rank ____________ Professor

Admin. Title

Time devoted to University work according to official appointment: ____________ X ____________ Full Time; ____________ 3/4; ____________ 2/3; ____________ 1/2; ____________ 1/3; ____________ 1/4; ____________ Time. (On half-time leave 1956-57)

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as ____________ percent of full load in the fall semester and ____________ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ____________ percent of a full load in the fall semester and ____________ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of ____________ clock hours per week. The principal time-consuming duties are:

Half-time as Acting Director of MURA Laboratory at Madison, Wis., also Individual Member representing U. S. in MURA & Member of MURA Board of Directors

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting: None

Membership in technical societies and fraternities: Same as last year.

Attendance at meetings of technical societies: Physical Society Thanksgiving Meeting in Chicago Nov 1956; and New York Meeting Jan 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Surviv irradiation of mouse-brain tumors involving "Baron slow Neutron Irradiation" process in collaboration with Dr. Vogel of ANL.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work: Summer 1956; Full Time Acting Manager of Work at Modern, Wis.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Lavatelli, Leo S. Highest Degree Ph.D.

Academic Rank Associate Professor Admin. Title

Time devoted to University work according to official appointment: Full Time; ¾; ½; ½; ¼; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

- Ness physics in nuclear emulsions
- Programming for the Alliance

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 3 clock hours per week. The principal time-consuming duties are:

- Physics Department Social Committee (Chairman)

MEMBERSHIP ON COMMITTEES:

Department: 1) Open House and Physics Club
2) Social

College: Exhibits and Tours.

University: No

Technical Societies and Advisory Groups: No
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

1. Low Energy Meson Spectrum from Nuclear Targets in progress
2. Program for intense to determine Meson Phase Shifts using the dispersion relations (ref. V. Halpern, Schlein)
3. Program for intense to evaluate hadron wave function for photomeson production in deuteron (ref. C. Bernardini and G. Stoppeletti)

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Lazarus, David

Highest Degree: Ph.D.

Academic Rank: Associate Professor

Admin. Title:

Time devoted to University work according to official appointment: __ Full Time; ___ 3/4; ___ 2/3; ___ 1/2; ___ 1/3; ___ 1/4; ___ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___ percent of full load in the fall semester and ___ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ___ percent of a full load in the fall semester and ___ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ___ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Fellowship and Assistantship

Radioactive Records

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:  

Membership in technical societies and fraternities:  

Attendance at meetings of technical societies:  
Am. Phys. Soc. - Chicago - Nov '56; New York - Jan '57; 
Philadelphia - March '57; Washington - April '57. 
Nat. Acad. of Science - Wash. - April '57.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:  
Research in solid state physics - continuing - 
Directing thesis research of graduate students.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:  
With A.B. Kuper, J.R. Manning, C.T. Tomizuka  
Diffusion in ordered and disordered copper-zinc. Phys. Rev. 104:  
1536-1541 (1956).

With C.T. Tomizuka  

With B. Okkerse  
Addresses — Title, organization addressed, and date:  
"Solid State Physics" - DePauw Univ., Greencastle, Ind. - Nov. '56  
"Diffusion" - National Acad. of Sciences, Wash. D.C. - April '57  
"Diffusion in Metals" - Univ. of Chicago - June '56

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:  
Control Systems Lab - Summer '56
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Loomis, Francis Wheeler

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title: Director, Control Systems Laboratory

Time devoted to University work according to official appointment: Full Time; 3/4; 1/2; 1/4; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as percent of full load in the fall semester and percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

ADMIN.: 100%

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Aids to High School Science Teaching

College: Engineering - Executive

University: Faculty Advisory


Technical Societies and Advisory Groups: Scientific Manpower Commission

Harvard Univ. Visiting - Physics

Military-Industrial Conference

Bulletin of Atomic Scientists - Board of Sponsors
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Fellow: Amer. Physical Society; Amer. Institute of Physics; Optical Soc. America; Amer. Assn. for Adv. of Science
Member; National Academy of Sciences; Amer. Assn. Univ. Professors; Amer. Assn. Physics Teachers; Illinois Academy of Science; Chaos Club (Chicago and Washington, D.C.).

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS

COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Low, Francis E.  Highest Degree Ph.D.

Academic Rank Associate Professor  Admin. Title

Time devoted to University work according to official appointment: X Full Time; ¾; ½; ¼; Time. On leave 1956-1957.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 33 percent of full load in the fall semester and 33 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With G.F. Chew, M.L. Goldberger


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Lyman, Ernest M.                      Highest Degree: Ph.D.

Academic Rank: Professor                      Admin. Title:

Time devoted to University work according to official appointment: X Full Time; ¾; ½; ⅔; ¼; Time. (50% in Physics and 50% in Control Systems Lab.)

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 50 percent of full load in the fall semester and 50 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 50 percent of a full load in the fall semester and 50 percent in the spring semester. Major projects and areas of specialization are: in Control Systems Laboratory.

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 6 clock hours per week. The principal time-consuming duties are: Committees

MEMBERSHIP ON COMMITTEES:

Department: Physics Building
            Undergraduate Studies
            Engineering Physics
            Control Systems Lab Executive Committee

College: Undergraduate scholarship
         Lisle Rose Award
         Station Policy and Development

University: Executive Faculty of the Graduate College

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:


Attendance at meetings of technical societies:

Am. Physical Society - N. Y. meeting - January 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Classified research in Control Systems Laboratory

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Classified publications in Control Systems Laboratory

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Mapother, Dillon E.  Highest Degree: Ph.D.

Academic Rank: Associate Professor  Admin. Title: 

Time devoted to University work according to official appointment: — Full Time; — ¾; — ½; — ⅓; — ¼; — Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 1-2 clock hours per week. The principal time-consuming duties are:

Advice & assistance to Physical Plant, liquid nitrogen plant, Admin of liquid helium service.

MEMBERSHIP ON COMMITTEES:

Department: Machine Shops & Drafting Building Committee.

College: 

University: 

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society

Attendance at meetings of technical societies:

- Philadelphia Meeting - " " Mar. 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:


Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

- Pressure Effect and Isotope Effect in Superconducting Lead. (Talks on more or less the same title have been given at:
  1) Naval Research Laboratory, Washington, D.C., July, 1956
  2) Los Alamos Scientific Laboratory, Aug, 1956
  4) Physical Colloquium, Washington Univ., St. Louis, May, 1957

- Low Temperature Techniques, Research Dept., Farnsworth Electronics Co., April, 1957

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

- Consultant to Oak Ridge National Laboratory until Sept 1956
- " " Los Alamos Scientific Laboratory (including visit to Los Alamos for 2wks in Aug, 1956)
- " " Farnsworth Electronics Co., April, 1957
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Maurer, Robert J. Highest Degree: Ph.D.

Academic Rank: Professor Admin. Title:

Time devoted to University work according to official appointment: ___ Full Time; ___ ¾; ___ ½; ___ ⅓; ___ ¼; ___ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: 
Advisory; Building and Power; Graduate Studies and Exams; Library

College:

University:

PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting: none

Membership in technical societies and fraternities:
American Physical Society

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

- Ionic Mobility in CsBr and CsI (with D. Lynch and N. Lamarche)
- Color Centers in Alkali Halides (with J. Role)
- Ionic Mobility in KBr (with A. Müller)

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With Dale Compton
Self-diffusion and electrical conductivity in silver chloride.

Addresses — Title, organization addressed, and date:

Excitons in Alkali Halides, Dept. of Physics,
University of Rochester, November, 1956

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Newell, George S. Highest Degree Ph.D.

Academic Rank Assistant Professor Admin. Title

Time devoted to University work according to official appointment: ___X___ Full Time; ___¾; ___⅔; ___⅓; ___⅓ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___ percent of full load in the fall semester and ___ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ___ percent of a full load in the fall semester and ___ percent in the spring semester. Major projects and areas of specialization are:

Paramagnetic resonance

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ___ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES: None

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Nordsieck, Arnold T.  Highest Degree: Ph.D.

Academic Rank: Professor  Admin. Title: 

Time devoted to University work according to official appointment:  

- Full Time;  
- 3/4;  
- 3/8;  
- 1/2;  
- 1/8;  
- 1/4;  
- Time. 50% in Physics Dept. and 50% in Control Systems Lab.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 50 percent of full load in the fall semester and 50 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 50 percent of a full load in the fall semester and 50 percent in the spring semester. Major projects and areas of specialization are: in Control Systems Laboratory

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Odian, Allen C.                      Highest Degree: Ph.D.
Academic Rank: Research Associate          Admin. Title:

Time devoted to University work according to official appointment:   Full Time;   3/4;   1/2;   1/4;   Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 33 percent of full load in the fall semester and 33 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 67 percent of a full load in the fall semester and 67 percent in the spring semester. Major projects and areas of specialization are: The scattering of X-rays by protons.

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Aids to High School Science Teaching
Betatron Steering

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

- American Physical Society
- Sigma Xi

Attendance at meetings of technical societies:


Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

High School Physics Committee

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

- With A. Wattenberg, P.C. Stein, H. Wilson, R. Weinstein

- With G. Bernardini, L.B. Auerbach, I. Filosofo, A.O. Hanson, T. Yamagata


- With R.C. Stein, A. Wattenberg, B.T. Feld, R. Weinstein

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF ___Physics_____

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Okkerse, Boudewijn

Highest Degree D.Sc.

Academic Rank Research Associate

Admin. Title

Time devoted to University work according to official appointment: Full Time; 3/4; 1/2; 1/2; 1/4; Time. Resigned Nov. 30, 1956

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as ____ percent of full load in the fall semester and ____ percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ____ percent of a full load in the fall semester and ____ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of ____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


With U. Gonser
**Radiation damage experiments in III-V-compounds.** *Phys. Rev.* **105**: 757-759(L), (1957).

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS

COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Palmer, Wilfred

Highest Degree Ph.D.

Academic Rank Research Associate

Admin. Title

Time devoted to University work according to official appointment: \( \times \) Full Time; \( \frac{3}{4} \); \( \frac{2}{3} \); \( \frac{1}{2} \); \( \frac{1}{3} \); \( \frac{1}{4} \); _____ Time.

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as \( 0 \) percent of full load in the fall semester and \( 0 \) percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as \( 100 \) percent of a full load in the fall semester and \( 100 \) percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of _______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
American Physical Society
American Institute of Physics
Society of Sigma Xi

Attendance at meetings of technical societies:
AEC Conference on Physics of Metals, Chicago, June 1956

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Low temperature annealing of radiation damage in Cu, Ag, and Cu-Vi alloy.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Radcliffe, John M.  
Highest Degree: Ph.D.

Academic Rank: Research Associate  
Admin. Title: ____________________

Time devoted to University work according to official appointment:  
• Full Time; • ¾; • ½;  
• ⅔; • ¼; • Time.

TEACHING:  
Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  
Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

- Transport phenomena in solids: mobility of electrons in ionic crystals; conduction in homopolar crystals at high field strengths.

OTHER DUTIES:  
University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Member of the American Physical Society

Attendance at meetings of technical societies:

Attended March 1957 meeting of the APS at Philadelphia, Penn.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Calculations on mobility in homopolar crystals at high field strengths taking account of the energy exchange in collisions of electrons with acoustic phonons; calculations on ionic crystals in progress.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With L. Pincherle

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Robinson, Clark S. 
Highest Degree: Ph.D.

Academic Rank: Professor
Admin. Title:

Time devoted to University work according to official appointment: 
- X Full Time; ¾; ⅜; ⅙ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 20 percent of full load in the fall semester and 20 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 80 percent of a full load in the fall semester and 80 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 20 clock hours per week. The principal time-consuming duties are:

- Supervision of 300 Mev betatron
- Miscellaneous unofficial technical and administrative duties related to laboratory as a whole, such as radiation hazards study, advising on employees, electronics shop and stockroom matters, committee work, freshman registration, student advising.

MEMBERSHIP ON COMMITTEES:

- Assistants and Fellows
- Department: Betatron Safety Committee
- 300 Mev Steering Committee

College:

University:

Technical Societies and Advisory Groups:

Illinois Academy of Science- Science Talent Committee
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
- American Physical Society
- Amer. Assn. Advance. Science
- Illinois Academy of Science
- American Geographical Society

Attendance at meetings of technical societies:
- American Physical Society: Chicago, November 1956
- New York, Jan. 1957
- AEC Conference on Accelerator Shielding, N.Y., Nov. 1956
- General Meeting of Midwestern Universities Res. Assn., Madison, Nov. 1956

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Directing Ph.D. Theses:
- R.C. Miller- Scattering of high energy positrons, and large angle pair production in lead.
- J.H. Malmberg- Small angle photoproduction of $\pi^+$ mesons.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Advising of individual high school students and undergraduates.

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS

COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Seitz, Frederick

Academic Rank Professor

Highest Degree Ph.D.

Time devoted to University work according to official appointment: X Full Time; 3/4; 3/8; 1/2; 1/8; 1/4; — Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as _____ percent of a full load in the fall semester and _____ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are: Technical Director of Control Systems Laboratory.

MEMBERSHIP ON COMMITTEES:

Department: Physics Colloquium

College: University Research Board (Grad. College)

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


With J.S. Koehler


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Sherwin, Chalmers W.                      Highest Degree: Ph.D.

Academic Rank: Professor                        Admin. Title:

Time devoted to University work according to official appointment: ___X Full Time; ___⅓; ___⅔; ___½; ___⅓; ___¼; _______ Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as ___100 percent of full load in the fall semester and ___100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ___ percent of a full load in the fall semester and ___ percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _____ clock hours per week. The principal time-consuming duties are:

Committee work

MEMBERSHIP ON COMMITTEES:

Department: 

College: Committee for the Improvement of Teaching

University:

Technical Societies and Advisory Groups:

Scientific Advisory Board to the Chief of Staff, U.S. Air Force
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With F. Kodman, J.J. Kovaly, W.C. Prothe, J. Melrose


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  Slichter, Charles P.  Highest Degree  Ph.D.

Academic Rank  Professor  Admin. Title

Time devoted to University work according to official appointment:  X Full Time;  ¾;  ½;  ½;  ¾;  Time.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:  University duties not directly credited to teaching and research occupy an average of ______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:  
- Undergraduate Study
- LAS Curriculum
- Aids in H.S. Science Teaching

College:  

University:  

Technical Societies and Advisory Groups:  Board of Editors, Physical Review
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities: American Physical Society (Fellow).

Attendance at meetings of technical societies: Chicago, Philadelphia meetings, American Physical Society.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

- Nuclear resonance studies of atom movements in metals (theses of J. Spokes, W. Simmons, R. Miecher).

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work: Alfred P. Sloan Fellow during summer (continuing winter research).
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Smith, James H. 
Highest Degree: Ph.D.

Academic Rank: Assistant Professor Admin. Title:

Time devoted to University work according to official appointment: — Full Time; — ¾; — ½; ¾; ½; — Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of —— clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:
Department: High School Science Teaching Aids
Engineering Physics Advisor
Department Advisory
Open House and Physics Club

College: Petitions and Records

University: None

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society

Attendance at meetings of technical societies:

American Physical Society Chicago Conference on Photonuclear Reactions Chicago

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Completed one phase of high energy photonuclear effect.

Commenced photodisintegration work at lower energies.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:


Unfortunately this is a different W.H. Smith.

Addresses — Title, organization addressed, and date:

High Energy Photonuclear Reactions in Light Elements
Nuclear Physics group Bureau at Standards Feb 20.

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

Committee for the Improvement of High School Physics Teaching.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Snyder, James Newton
Highest Degree: Ph.D.

Academic Rank: Associate Professor
Admin. Title:

Time devoted to University work according to official appointment: Full Time; 3/4; 2/3; 1/2; 1/3; 1/4; Time. On leave 1956-1957.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as percent of full load in the fall semester and percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Stähelin, Peter

Highest Degree: Dr. Sci. Nat. (Switzerland)

Academic Rank: Research Associate

Admin. Title: 

Time devoted to University work according to official appointment: _Full Time; _3/4; _3/8; _1/2; _1/8; _1/4; _Time.

TEACHING:
Teaching program for the current academic year was reported to the Bureau of Institutional Research as _0 percent of full load in the fall semester and _0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:
Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as _100 percent of a full load in the fall semester and _100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of _0 clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

American Physical Society Washington 1957

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Measurement of Recoil Spectrum in $\beta$-decay of $^{35}$Cl

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Radial Stability of Orbits in a Spiral Ridge Cyclotron

and, together with V. Blumen, J. Carole, Field Modulation Produced by Flat Spiral Sheaths in a Cyclotron Magnet,

Nopr. 1834(05), Technical Report No 1 and No 2

Addresses — Title, organization addressed, and date:

Colloquium, Physics Dept. E.T.H. Zürich, Jan 25, 1957 on Recoil Spectrum of $^{35}$Cl

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  Stoppini, Gherardo

Highest Degree  Doctor in Physics

Academic Rank  Research Associate

Time devoted to University work according to official appointment:  X  Full Time;  3/4;  1/2;  1/2;  1/4;  Time.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as  0  percent of full load in the fall semester and  0  percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as  100  percent of a full load in the fall semester and  100  percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:  University duties not directly credited to teaching and research occupy an average of  0  clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Society of Physics.
Società Italiana di Fisica.

Attendance at meetings of technical societies:

Washington Meeting of the APS.

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Photoproduction of charged pions in Deuterium.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With M. Beneventano, D. Carlson-Lee, G. Bernardini, L. Tau.

With M. Beneventano, G. Bernardini, L. Tau.

Addresses — Title, organization, address, and date:

With M. Beneventano, G. Bernardini, L. Tau

With W. John
A P, Q coincidence method for the measurement of \( \pi^0 \) photoproduction. Sent to Nuovo Cimento.

Voluntary student faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

With M. Beneventano, G. Bernardini, D. Carlson-Lee, L. Tau

Other professional activities, including summer work:

With D. Carlson-Lee, L. Tau
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  Suzuki, Taira
Highest Degree  B.S.  (Japan)

Academic Rank  Research Assistant Professor  Admin. Title

Time devoted to University work according to official appointment:  X Full Time;  3/4;  2/3;  1/2;  1/3;  1/4;  Time.

TEACHING:  Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:  Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES:  University duties not directly credited to teaching and research occupy an average of _______ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

No change

Attendance at meetings of technical societies:

Sep. 6-8, 1956, International Conference at Lake Placid, N.Y.
Nov. 1956 and March, 1957, American Physical Society Meeting

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Mechanical Effects of Color Centers in Additively Colored KCl Crystals

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Importance of surface sources to the onset of plastic flow in KCl crystals.

Addresses — Title, organization addressed, and date:

1. Mechanical Effects of F-Centers in KCl Crystals, read before the American Physical Society Meeting, March, 1957.


Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Tewordt, Ludwig
Highest Degree: Dr. rer. nat. (Germany)

Academic Rank: Research Assistant Professor
Admin. Title:

Time devoted to University work according to official appointment: Full Time; ¾; ½; ½; ½; ¼; Time.

TEACHING:

Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH:

Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

Lattice relaxations and formation energies for interstitials in copper. Calculations especially for two interstitial-configurations: the first one, where the interstitial lies at the center of an elementary cube of the f.c.c., the second is the "crowdion".

OTHER DUTIES:

University duties not directly credited to teaching and research occupy an average of ____ clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Calculations for formation energies and lattice relaxations for two hypothetical interstitial models in copper; estimate of the resistance of associated interstitial-vacancy pairs.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

with W. Franz: "Befreiung von Elektronen durch Feld und Stoss ", in " Halbleiterprobleme ", Band IV; Publisher: Prof. Dr. W. Schottky; 1957;

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
UNIVERSITY OF ILLINOIS

COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Tichelaer, Gerrit W. Highest Degree Dr. Ingenieur
Academic Rank Research Associate Admin. Title
Time devoted to University work according to official appointment: Full Time; 3/4; 2/3; 1/2; 1/3; 1/4; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 0 percent of full load in the fall semester and 0 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

KONINKLIJKE NEDERLANDSE CHEMISCHE VERENIGING
VERENIGING VAN DELFTSE INGENIEURE

Attendance at meetings of technical societies:

AMERICAN PHYSICAL SOCIETY MEETING NOV. 1956, CHICAGO

MARCH 1957, PHILADELPHIA

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

IN PROGRESS: ELASTIC AFTER EFFECT IN Ag-Zn ALLOYS

AT HIGH PRESSURES

Publications—Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses—Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Weneser, Joseph
Highest Degree: Ph.D.

Academic Rank: Assistant Professor
Admin. Title:

Time devoted to University work according to official appointment: — Full Time; — ¾; — ½; — ¼; — Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as — percent of full load in the fall semester and — percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as — percent of a full load in the fall semester and — percent in the spring semester. Major projects and areas of specialization are:

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of — clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department:
1) Advisory
2) Graduate Studies and Exams
3) Library
4) Computing Service

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

- Member American Physical Society
- Sigma Xi
- Phi Beta Kappa

Attendance at meetings of technical societies:

- Meeting of American Physical Society - Chicago Meeting Nov 56
- N.Y. Meeting Feb 57

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

- Graduate Theses - 1) Effects of Nuclear Structure on Internal Conversion
- 2) Higher order Effects in Nuclear Beta Decay

Research - Electromagnetic Nuclear Interactions

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

- With E.L. Church

- With E.L. Church

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

- Summer 1956 - Nuclear Research at U.of I.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF Physics

May 1, 1956 to April 30, 1957

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Wheatley, John C. Highest Degree: Ph.D.

Academic Rank: Assistant Professor Admin. Title:

Time devoted to University work according to official appointment: Full Time; 3/4; 3/8; 1/2; 1/8; 1/4; Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as 100 percent of full load in the fall semester and 100 percent in the spring semester. (Department secretary may fill in this information.)

RESEARCH: Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as 0 percent of a full load in the fall semester and 0 percent in the spring semester. Major projects and areas of specialization are:

1) Low Temperature Physics
2) Nuclear Orientation

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Undergraduate Studies

Aids to H.S. Science Teaching

College: Programs

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

1) Thermal contact and insulation below 10 K.
2) Nuclear Alignment of Co^{58}. (Part of Griffing's thesis. Siemens magnesium nitrate. (Estle's thesis).)
3) Ballistic measurements of rotational cooling in cerium magnesium nitrate.
4) Ballistic measurements of rotational cooling in cobalt ammonium double sulfate.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

With T.L. Estle

With T.L. Estle, D.P. Griffing

With D.P. Griffing

Addresses — Title, organization addressed, and date:

2) Rotational Cooling, University of Chicago Colloquium, April 2, 1957.

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:

Research, Univ. of Illinois, June 15 - Aug. 15.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Yoshida, Sho  
Highest Degree: Sc.D.

Teaching program for the current academic year was reported to the Bureau of Institutional Research as ________ percent of full load in the fall semester and ________ percent in the spring semester. (Department secretary may fill in this information.)

Research:
Percent of official appointment time devoted to research was reported to the Bureau of Institutional Research as ________ percent of a full load in the fall semester and ________ percent in the spring semester. Major projects and areas of specialization are:

Other Duties: University duties not directly credited to teaching and research occupy an average of ________ clock hours per week. The principal time-consuming duties are:

Membership on Committees:
Department:
College:
University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:

Addresses — Title, organization addressed, and date:

Voluntary student-faculty activities (for example, attendance at student meetings, participation in them, individual informal counseling with students, entertaining students in your home or elsewhere, etc.):

Other professional activities, including summer work:
Sherrin - Reidel

Slichter - Connor

Stoppin - Touschek

Bernardini -

Carlson -

Suguki -

Temaat - T. Franz

Tomiyama - Blatt

Wenger - church

Wheatley - Estle

Estle - Griffin

Griffin -

81. Article
11. Letters

Edited

Displacement of atoms during irradiation

Improved techniques in chemical kinetics

Detection of gamma rays in vacuum by the average volume per photon

Exptl. verification of Bochvar's nuclear polarizability effect

Photomicrographic description of photometeric production of photoelectrons.

Photoelectric production of positive ions in hydrogen.

Photoproduction of charged pions in deuterons.

Cross sections near threshold for charged pions in deuterium.

Importance of surface source to onset of plastic flow.

Binding of electrons due to field emitted electrons.

The solid state self-diffusion in silver.

Electron-monopolos transitions in atomic nuclei.

Effect of finite size on internal correlation in antiferromagnetic disintegration of the deuteron.

Rotation cooling in cerium magnesium nitrate.

Thermal contact circulation below 10 K.

Nuclear alignment of Co 58.