A REPORT OF THE ACTIVITIES

of the

DEPARTMENT OF PHYSICS

for the year

1959-1960
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APPENDIX

RECORDS OF GENERAL ACTIVITIES
ANNUAL REPORT FOR 1959-60
PHYSICS DEPARTMENT

I. SUMMARY OF SOME MAJOR DEVELOPMENTS IN 1959-60

Professor Fred Seitz, Head of the Department, has spent the year 1959-60 as Science Advisor to the North Atlantic Treaty Organization, in Paris, France. His tour of duty will end on July 31, 1960, and he will return to the University in September. He has returned to Urbana twice during the year for consultations with the department. G. M. Almy has been Acting Head and R. J. Maurer, Acting Associate Head during Seitz's absence.

Occupation of the new building which was practically completed in September 1959 has been a continuing process during the year. Urgently needed offices were occupied in September 1959, services and research laboratories at various later times. In only one or two cases has it been necessary to interrupt research in a critical stage, e.g. the research of a Ph.D. thesis student which was nearing completion. The move has created an unfortunate geographical division in the department and has introduced many inefficiencies and added costs to operation, with respect to services, e.g., stockrooms, shops, library, and duplicating equipment. Lack of funds and the expectation that the building will be completed as soon as possible has held duplication of services to a minimum, to the annoyance of the faculty and staff at the resulting inefficiency of operation.

The faculty has been strengthened by the addition for four theorists and two experimentalists to the regular faculty and by a number of appointments to the research groups supported by contract
funds. The theorists are Professors Nishijima, R. Haag, and D. Pines (joint appointment between Physics and Electrical Engineering) and Assistant Professor Schrieffer. The experimentalists are Assistant Professor Kruse in high-energy nuclear physics and Dr. D. M. Ginsberg in low-temperature physics. Dr. H. J. Granicher of Zurich, Switzerland, has accepted a joint appointment as Associate Professor of Physics and Ceramics Engineering. His appointment was to begin on May 1, 1960, but has been delayed to July 1, 1960. The work of some of the new members will be related to on-going research in the department in a later section of this report.

Our major loss from the faculty was Associate Professor Robert Novick. He came to Illinois after receiving his Ph.D. from Columbia in 1957. His record of accomplishment in three years of really original research in atomic physics was outstanding. He accepted in invitation to return to Columbia in the fall of 1960 in a tenure position. We matched their inducements which could be stated in definite terms but could not overcome his cherished wish of many years to become a professor at Columbia.

The Engineering Physics undergraduate curriculum has been thoroughly studied and proposals for revision prepared during the year. The new curriculum has been approved by the College Policy Committee and will be presented to the College of Engineering Faculty in the fall of 1960.
Two major expansions in research programs have been planned during the year. In nuclear physics the prospects of a very high energy accelerator at the Argonne National Laboratory within a few years has led to plans for cooperative research programs between Argonne and midwest universities. In order to prepare for such research we have requested the Office of Naval Research to augment the funds provided in our general contract for research in nuclear physics. Though the ONR did not give us everything we asked for the contract funds have been increased by an annual amount of more than $350,000, to a total annual rate of just over $1,000,000, beginning in September 1960. Initial funds for one phase of the work - a bubble chamber nuclear event detector - have been provided by the Office of Scientific Research of the Air Force. Professors Goldwasser and Kruse have made very substantial progress in the construction of the apparatus, which will first be used in experiments with the 300 Mev betatron.

The second major plan for expansion in research has to do with the efforts to secure funds for a laboratory and equipment to expand interdisciplinary research in the solid state sciences. The proposal involves joint use of the planned facilities by the Departments of Mining and Metallurgical Engineering, Chemistry and Chemical Engineering, Electrical Engineering, Ceramics Engineering, and Physics. The proposal was not accepted by the Department of Defense agencies, who decided instead to support such efforts elsewhere. It was, however, included in an authorization bill submitted to Congress by the Atomic Energy Commission. By early in May 1960, the
bill had been passed by the Congress and signed by the President. If a suitable plan for the laboratory and its operation can be worked out between the University and the Atomic Energy Commission in the next six to eight months the AEC intends to seek an appropriation of $5,600,000 from the Congress in 1961 to build and equip the laboratory.

Additional details on some of the above major developments are included in the following sections.

Mrs. Della McCown, secretary of the Physics Department, retired on September 30, 1959, after forty-eight years of service to the Department. Her years of devoted and loyal work were recognized with a reception in the Library of the new Physics Building, which was also the occasion of an open house and inspection of the building for all members of the faculty and staff of the department and their families. Mrs. McCown's position was taken by Mrs. Bess Matteson who has been secretary at the betatron laboratory for several years.

II. TEACHING IN THE PHYSICS DEPARTMENT

Enrollments in courses, numbers of physics majors, degrees granted, teaching assignments are given in detail and in summary form in subsequent tables and graphs. Emphasis in this section will be given to problems which have been given special attention during 1959-60.

General Physics Courses. A continuing problem is to give the general courses taken by freshmen and sophomores the attention by the senior faculty and the financial support which they need and deserve.
These courses comprise more than two-thirds of the total teaching load of courses in the department. However, not more than one-third of the 30 FTE senior teaching faculty can be assigned to teach them, in view of the other teaching responsibilities of the department. Graduate assistants teach most of the laboratory and quiz sections.

The courses are well integrated through use of a combination of large lecture sections and small quiz and laboratory sections, and by weekly staff meetings and common assignments and examinations. In this way, it is believed that the best use can be made of in-experienced teachers.

One major problem is to find the faculty time and funds to improve apparatus for laboratory experiments and lecture demonstrations. One attack which we are using is to join in a new concerted national effort sponsored by the American Association of Physics Teachers to pool developments in apparatus, supplementary reading material, films, examinations, and other teaching aids. Professors Hulsizer and Goldwasser have participated in the national planning group. They will devote major attention in the coming year to improvements in Physics 108, the third semester of general physics for engineering and science students, which emphasizes atomic physics. We hope to be able partly to release them, and others, from normal teaching loads in order to accelerate this work. Other institutions, particularly MIT and Cal Tech, are each releasing several faculty members from other duties for this purpose.
An increase of funds for teaching laboratory improvement is the major request by the department for new expense and equipment funds in the 1961-63 budget. One possibility for obtaining such funds which deserves study is the collection of laboratory fees from students taking laboratory courses and the specific assignment of funds so collected to those courses. The amount of increase in funds needed is $4 to $5 per student per semester in the general courses and $10 to $15 per student per semester in the advanced laboratory courses - a total of $15,000 to $20,000 per year. The needed increase is about half of the present expense and equipment funds of the department for all general purposes, including costs of teaching.

Another question under discussion is the need for a separate general physics course which would take full advantage of superior high school preparation and advanced placement in physics.

**Engineering Physics Curriculum.** The curriculum, which enrolled a total of 274 students in the fall of 1959, has been thoroughly studied in the past year and modified to bring more modern physics, theoretical and experimental, into the undergraduate program, without increasing the total time spent on the physical sciences. Some difficulties have been encountered in establishing an appropriate relationship between the proposed curriculum and engineering subjects with the result that it will not be presented to the College faculty until the fall of 1960.
Graduate Courses. Graduate enrollment increased from 175 in the fall of 1958 to 225 in 1959. As a consequence, enrollments in the courses taken by many first year graduate students have been large (50-70). It is planned when the teaching staff is large enough to begin sequences such as Physics 480-481-482 and Physics 441-442 each semester, as is now done with the 300 level courses, in order to reduce the typical class size to the point where the instructor has a chance to regard his class as a group of individuals rather than a lecture audience.

The new sequence in quantum mechanics - Physics 480, 481, 482 - was begun for the first time in the fall of 1959. It replaces the sequence 481, 485, 486, in which atomic physics was taught primarily from an empirical approach with a minimum of quantum mechanics. The new sequence integrates quantum mechanics and atomic physics. The new courses have been well developed by Professor H. W. Wyld and there is good evidence that a marked improvement in presentation of subject matter has been achieved.

New subject matter in three areas has been presented in advanced seminar courses: Plasma Physics by Professor Pines, Synthesis of Elements in the Stars by Professor Becker and Group Theory with Applications by Research Assistant Professor Knox. Plans have been made to give a regular course in plasma physics, initially by Professor Pines in the second semester of 1960-61.
Chemical Physics. A new Ph.D. curriculum in Chemical Physics has been proposed by the Chemistry and Physics Departments and approved by the appropriate authorities. Chemical physics overlaps chemistry and physics in subjects of interest and methods of investigation. The distinguishing feature of the program is that it recognizes the need, in approaching equal level of education in the two basic disciplines. Professors Maurer and Slichter represent the Physics Department on the committee which will administer the curriculum.

III. NOTES ON RESEARCH IN THE PHYSICS DEPARTMENT

Nearly all of the faculty is actively engaged in research. Their efforts are usually connected with the direction of thesis research of Ph.D. candidates or in association with post-doctoral research associates and fellows. Seventy-four students registered in Physics 499 (Research) in the fall of 1959.

Some results of research in 1959-60 are suggested by the list of Ph.D. theses in this report and in the publications listed on the reports of activities of individual members of the faculty. One of the graphs shows the total number of publications in 1959-60 by members of the department in comparison with numbers in recent years. Another graph shows the FTE members of junior and senior research staff on appointment.

Table III lists the contracts through which most of the basic research in physics at Illinois is supported, with title of investigation, principal investigator, and approximate annual support in funds.
It is not appropriate to give a comprehensive or technical account of recent research in this report. The following notes mention briefly some noteworthy accomplishments, new departures, and added strength of faculty in certain fields.

Professor Bardeen's distinguished program of theoretical research in solid state physics has been expanded by the addition of Professor David Pines and Assistant Professor J. R. Schrieffer to the faculty. Professor Pines is also on the faculty of the Electrical Engineering Department, as is Professor Bardeen. This group is probably unique in this country in its accomplishments in research in cooperative atomic phenomena and their applications to such phenomena as superconductivity in metals and the properties of gaseous plasmas.

In low-temperature physics, Illinois is developing an exceptionally good and varied experimental program. Professor D. E. Mapother laid the groundwork in 1949 with his work in the properties of superconducting metals and by developing the elaborate facilities and techniques necessary for research in the field. Associate Professor J. C. Wheatley entered the field when he came to Illinois in 1952. He has greatly broadened the range of low-temperature research in the department. During the past year, he and Howard Hart, a Ph.D. candidate, have made an important contribution with their research on the self-diffusion of liquid helium of atomic weight three. Assistant Professor D. M. Ginsberg came in 1959 and in one year has made great progress in preparing to do experiments on the radiation absorption characteristics of superconductors.
Each of these men came to Illinois as a new Ph.D. and each has developed in a remarkable and independent way. Each has been appointed an A. P. Sloan Foundation Fellow, with accompanying grant. Wheatley held a Guggenheim Fellowship in 1954 and studied in Leiden. Mapother has been appointed a Guggenheim Fellow for 1960-61 and will spend a sabbatical year at Cornell University.

Professor C. P. Slichter leads the most distinguished experimental research program at Illinois which has developed entirely under the leadership of one person. His field is magnetic resonance and its applications to solid state physics. The growth and success of his students is particularly noteworthy. Three of them hold tenure positions at Princeton, Cornell, and Washington Universities, respectively, and two others hold positions of the kind most sought after in industrial laboratories - in the basic research laboratories of the Bell Telephone Company and the General Electric Company. Slichter joined the department in 1949, as a new Ph.D. from Harvard. He will return to Harvard for the second semester of 1960-61 as Morris Loeb Lecturer: a fine recognition of his ability and contributions to physics.

Professor R. J. Maurer and Associate Professor F. C. Brown and students continue an original and productive research program in the electronic properties of crystalline solids. Brown came to Illinois in 1954 from a position in Reed College. After two years of work in Maurer's group, he struck out for himself, with independent support from the Office of Scientific Research of the Air Force. He is now widely recognized for his original contributions to the understanding
of electronic phenomena in silver halide crystals.

Professor J. S. Koehler manages the broadest program of research in solids at Illinois, some of it in cooperation with the Metallurgy faculty. His field is metal physics and the great variety of the work by his group is aimed primarily at an understanding of the formation, properties, and role of imperfections, on the atomic scale, in metals. His latest acquisition of equipment is an electron microscope which will make possible new approaches to the general problem.

His ablest student at Illinois, R. O. Simmons, received his Ph.D. degree in 1957, continued two years as a Research Associate in Koehler's group, then was appointed Assistant Professor and a regular member of the Physics faculty in 1959. Simmons is now planning a departure into a new field, the study of crystals formed from the inert gases at low temperatures. Experiments with such crystals will isolate the effects of one fundamental kind of interaction between atoms.

Professor David Lazarus and his associates and students continue a concentrated and productive program in the diffusion of atoms in metals. First results are coming in of an investigation, begun two years ago, of the effects of very high pressure on diffusion. The results are sufficiently novel to insure that new information will be obtained on atomic structure in solids and the elementary processes of atomic motion in solids.
New strength to the theoretical group concerned with most recent developments in the fundamental theories of atomic and nuclear matter has been added in 1959-60 with the appointment of Professors K. Nishijima and R. Haag. Together with Professor J. D. Jackson and Associate Professors Ravenhall and Wyld, they constitute one of the ablest and most productive groups of theorists in this field.

A major addition in 1959-60 to research in nuclear physics at Illinois has been the initiation of an extensive program in high energy or elementary particle physics. The long range plan is to prepare to do experiments with the Argonne 12 billion-electron-volt proton accelerator when it is completed in 1962 or 1963, or with similar machines at other national laboratories. In the meantime the equipment developed can be tested and used for experiments with our 300 Mev betatron. Three experimental methods to be used by the group can be identified: electronic detection and analysis of nuclear events (Professors Wattenberg, Koester, Smith), bubble chamber detection and analysis (Professors Goldwasser and Kruse) and nuclear emulsion techniques (Professors Hill and Ascoli). The last is an established program but is being expanded. Goldwasser and Kruse are well along in the construction of a complex 15-inch liquid-hydrogen bubble chamber apparatus and will probably be using it in experiments with the betatron by the end of 1960. Wattenberg has been engaged in a cooperative experiment using the Brookhaven National Laboratory cyclotron.
The program has received substantial support from the Office of Naval Research by an addition, at the rate of $550,000 per year, to the present broad contract in support of nuclear physics at Illinois. The Office of Scientific Research of the Air Force has made additional substantial contributions to the bubble chamber program and to a project of Professor Levatelli's in the analysis of high energy nuclear data.

The rebuilding of the Illinois cyclotron to provide variable energy, high intensity beams of charged particles has been completed. Major efforts during the past year have been devoted to bringing the circulating beam out of the cyclotron into the experimental area and in the building and installation of apparatus for experiments. The leading out of the beam has proved to be extraordinarily difficult to accomplish in a cyclotron which covers a range of energy and employs more than one kind of particle. The problems are not completely solved. Professor J. S. Allen, who has been in charge of the cyclotron rebuilding program, has spent the second semester on sabbatical leave in Copenhagen. In his absence, Research Assistant Professor A. Yavin has very competently taken charge of the cyclotron laboratory.

Approximately two years ago the kinds of physics which can be done with the 300 Mev betatron had been rather broadly studied, at Illinois and in other centers. Theoretical studies of pion physics and other subjects of medium high energy physics suggested, however, that additional fruitful work could be done if the betatron
were improved in certain respects. With funds provided by the Office of Naval Research the improvements were undertaken, primarily under the leadership of Professor Clark Robinson. They have now been largely completed. They include improving the operation of the betatron at the highest energy its magnetic field can reasonably sustain; providing permanent, heavy shielding against unwanted radiation; improvements in controls, calibration of energy and reliability of operation; mechanical means of placing and rotating experimental equipment (crane and gun mount); and a new gas liquifier, the more readily to provide the liquid hydrogen and helium targets used in many experiments.

These improvements have been accomplished without prolonged shut-down periods so that the machine has been continually used for a variety of experiments in photomuclear physics.

Professor Hans Frauenfelder has been in the forefront of the newest developments in low-energy nuclear physics since he came to Illinois in 1952. He is a leader and authority in the field of angular correlation of successive nuclear radiations. He was one of the first to exploit the consequences of the proposal and theory of Yang and Lee on non-conservation of parity in certain kinds of nuclear interactions. In the past year, he has moved energetically into the new field opened by the discovery of Mössbauer that gamma radiations of extremely sharp definition in frequency can be obtained from certain radioactive nuclei when they are in a crystal lattice and radiate without the usual recoil of the nucleus. His work is characterized by his quick grasp of the significance
of new discoveries and the great energy with which he organizes an attack upon investigations which are thus made possible.

He has organized a conference on the physics opened to investigation by the Mössbauer discovery to be held at Allerton Park on June 6, 7, 8, 1960. Approximately fifty physicists from the United States and Europe will attend.

Professors P. Axel and A. O. Hanson have, in the past year, brought into successful operation a two-year equipment development in connection with research with the 22 Mev betatron. The purpose is to identify each nuclear interaction caused by the continuous energy spectrum of x-rays from the betatron with the energy of the particular x-ray photon which caused the event. It is a difficult technique to develop and to use but it removes one of the most troublesome limitations on precision studies of photonuclear interactions with the betatron. J. S. O'Connell's Ph.D. thesis, expected to be completed in the summer of 1960, will contain the first results obtained with the new method.

Professor Adler and Professor Wyman have contributed substantially to the teaching program in the Physics Department in addition to their work in the Nuclear Engineering program. The latter includes great progress in the planning and procurement of the nuclear reactor and auxiliary equipment which will be reported directly. Adler has also done some original research in aspects of reactor theory.
Joint Appointments Between Physics and Other Departments or Laboratories in the University

An increasing number of physicists at Illinois hold joint appointments or participate in research in departments other than the one in which they hold appointment. Twenty-five physicists, who in 1959-60 have such joint associations, are listed below, distributed by kind of connection with the Physics Department. Together they constitute about a third of the total group considered to be the Physics Faculty and, indeed, could make up a balanced and distinguished physics department themselves.

These kinds of appointments and associations have developed almost entirely since 1950. They reflect the closing of the time interval between scientific discovery and its applications. Progress on the frontiers of many fields of applied science requires the knowledge and methods of modern physics.
### Joint Appointments or Association Between Physics and Other Departments (II Semester 1959-60)

<table>
<thead>
<tr>
<th>Associated Department or Laboratory</th>
<th>Faculty Distributed by Kind of Connection with Physics Department</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Salary partly or fully from Physics Budget</td>
</tr>
<tr>
<td>Ceramics</td>
<td>H. J. Granicher</td>
</tr>
<tr>
<td>Chemistry</td>
<td>J. P. Hummel</td>
</tr>
<tr>
<td>Electrical Eng.</td>
<td>J. Bardeen</td>
</tr>
<tr>
<td></td>
<td>D. Pines</td>
</tr>
<tr>
<td></td>
<td>P. Handler</td>
</tr>
<tr>
<td>Min. + Met. Eng.</td>
<td>V. Celli</td>
</tr>
<tr>
<td>Nuclear Engineering</td>
<td>F. T. Adler</td>
</tr>
<tr>
<td></td>
<td>M. Wyman</td>
</tr>
<tr>
<td>Coordinated Science Laboratory</td>
<td>C. W. Sherwin</td>
</tr>
<tr>
<td></td>
<td>A. T. Nordsieck</td>
</tr>
<tr>
<td></td>
<td>R. D. Hill</td>
</tr>
<tr>
<td></td>
<td>P. G. Kruger</td>
</tr>
<tr>
<td></td>
<td>E. M. Lyman</td>
</tr>
<tr>
<td>Digital Computer Laboratory</td>
<td>J. N. Snyder</td>
</tr>
<tr>
<td></td>
<td>L. D. Fosdick</td>
</tr>
<tr>
<td></td>
<td>B. McCormick</td>
</tr>
</tbody>
</table>
IV. ADDITION TO PHYSICAL FACILITIES

NEW PHYSICS BUILDING

The first stage of the new Physics Building was completed in September, 1959. Offices were occupied immediately. It would have been impossible to house the staff without them. Shops, library and stockroom were transferred and in operation by early November and much of the research activity assigned to the new building was moved during the first semester.

Although the building is quite completely occupied, its use is handicapped by the decision of the state government not to release $280,000 appropriate to complete and equip the building in the current biennium (1959-61). About $50,000 for movable equipment was available from the 1957-59 funds, and an equal amount was appropriated but not released from 1959-61 funds. The major purpose of the remainder of the 1959-61 appropriation of $280,000 was to provide the cooling equipment for the air-conditioning system. It is acutely needed since the air circulation system is installed and balanced and the Physical Plant objects to local installation of air conditioning where it is especially needed to operate apparatus under summer conditions.

The plans and working drawings for the second stage of the building are completed. The College of Engineering committee on buildings has again given it the highest priority among new buildings for the College. It is hoped that it can be completed in the 1961-63 biennium. If it is not, the department will have to restrict
enrollment in certain courses. In the meantime the department's operation is awkwardly and inefficiently divided between two buildings. Alterations in the old building necessary for its effective use are suspended because they are inappropriate if the department is to move out within a few years.

A brief description of the new building prepared in another connection, and a plan showing layout and use of rooms are given below. The basement is not included. In the first stage it is mainly used for physical plant purposes except for storage areas.

Some General Specifications and Comments on the New Physics Building at Illinois

1. The building is a solid block, 200' x 160' x 5 floors floors (including basement) plus a one-story extension for two lecture rooms. The first stage, essentially completed, has dimensions 100' x 160'. It contains research labs, offices and services.

2. Considerations determining the "solid-block" construction were the following:
   a. Limited land available at site, desirability of limiting height of building to four floors above ground.
   b. Economy of construction
   c. Economy of installations of central air conditioning and ventilation
   d. Compactness with respect to personal communication,
average distance to stockroom, shop, library, mail center, etc.

e. Interior space is adequate and in some cases desirable for teaching laboratories, class rooms, some research purposes, some services. The layout permits most offices, library and about 75% of the research space above ground to be in exterior rooms with windows.

3. General features of construction

a. Reinforced concrete columns and floors, dense concrete block walls with painted finish, brick exterior, aluminum windows with supper sash fixed, lower sash inward opening hopper-type (double); window sill 52" from floor to give exterior wall maximum usefulness.

b. Columns on 20' x 20' module. Floor to floor interval, 12'. Research laboratories 20' x 20', or 20' x 30', except special cryogenic laboratory 20' x 60'. Offices 10' x 20' for one or two senior staff or up to four assistants.

c. Lesser corridors lined on one side with built-in wood cabinets with shelves, for storage near research laboratories and offices.

d. Finish: painted concrete walls; asbestos-tile floors in most rooms, some concrete; acoustical tile ceilings, adhesive or hung, depending on use of area; utilities generally exposed in laboratories.
4. Utilities provided in research laboratories.
   a. Two gas outlets on each of two walls.
   b. One air outlet
   c. Sink with two cold water faucets (hot water not piped to labs). One or two water outlets and standpipe drain on each of two walls, for cooling water circuits, as for pumps.
   d. Four-wire 3-phase 120/208 electrical service with distribution box and thermal circuit breakers in each lab. Three walls have 110 volt 20-amp outlets every 2 or 3 feet. One 20-ampere 3-phase outlet on each of two walls. Power in exterior labs provided from overhead exposed bus-duct. Capacity of bus duct specified to provide power simultaneously in all laboratories at rate of 18 watts/square foot, with small line drop in bus (1 or 2%). Thus a 20 x 20 lab was rated at 7 kw. Installed equipment in use in any lab might be several times this average figure but anticipated simultaneous load in all labs is substantially smaller than 18 watts/square foot.
   e. No d.c. or other power distributed from central source (battery, generators). Special power needs are provided from local power supplies.
   f. Air-conditioning will be provided in all areas of building except storerooms and certain service areas. The system includes high-velocity, double distribution ducts with mixing boxes, thermostatically controlled,
in each room. Winter ventilation and heat are provided with the same air distribution system; there is also a small steam radiator under each window, with central interlocked with air system. For air conditioning design purposes it was assumed that experimental equipment in laboratories will generate heat at the rate of 10 watts per sq. foot of lab area.

5. Area and cost of building.

Approximate cost of first stage when air conditioning is completed will be $2,000,000. Its gross area is about 80,000 sq. ft; net area for departmental use is 50,000 sq. ft. This figure excludes land costs but includes approximately $100,000 for fixed and movable equipment.
Betatron Auxiliary Buildings. Funds have been obtained to complete two urgently needed additions to research space at the betatron laboratory. These are 1) a 40' x 80' area for hydrogen liquifying equipment and assembly of experimental apparatus and 2) a 40' x 60' experimental area for the 22 Mev betatron. Half of the hydrogen building was built in 1959. Both projects can now be completed with funds, amounting to $55,400, provided in approximately equal amounts by the Non-Recurring Appropriation Committee and the new matching-funds building program of the National Science Foundation.

The buildings will be built with prefabricated metal on good foundations, with concrete floors. With utilities, the total cost for 5600 square feet will be approximately $90,000.

Particular credit is due Professor Clark Robinson for an excellent presentation to the National Science Foundation of the need and proposed use of the space.

Materials Research Laboratory. Since 1956 Professor Seitz has repeatedly pointed out to the federal agencies who want to support an expansion of basic research in the solid state sciences in the Universities that the chief bottleneck to expansion is lack of space. Two detailed proposals have been developed for interdisciplinary research programs at Illinois involving physics, ceramics, metallurgy, electrical and chemical engineering, and possibly other sciences. The latest proposal contemplated a capital investment of $3,600,000 for a laboratory and $2,000,000 for equipment.
The Department of Defense through its Advanced Research Projects Agency invited such proposals in 1959. It received about thirty. Illinois survived the first elimination which reduced the number to eight. But when the final choices were made in February, 1960, Illinois was not one of the final three chosen.

The Illinois proposals had also been submitted to the Atomic Energy Commission. The University was pleasantly surprised to learn in March, 1960, that the AEC had included the proposed laboratory and equipment in an authorization bill presented to the Congress. The bill was passed by both House and Senate and was signed by the President about May 14, 1960. It is the intention of the AEC to request in 1961 a federal appropriation of $5,600,000 to build and equip the Illinois laboratory provided that, in the meantime, a satisfactory plan can be developed with the University for the construction and operation of the laboratory.

The problems of developing a plan which is agreeable to five or more cooperating departments and which meets conditions imposed by the University and by the AEC will be numerous and thorny. At the same time, this extraordinary opportunity to develop a unique university program in solid state science deserves the best efforts of everyone concerned.
SECOND FLOOR
NEW PHYSICS BUILDING – FIRST STAGE
NEW PHYSICS BUILDING - FIRST STAGE
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>
</tr>
</thead>
<tbody>
<tr>
<td>Basic physics (&quot;100&quot; courses)-regular</td>
<td>1521</td>
<td>1542</td>
</tr>
<tr>
<td>Basic physics (&quot;100&quot; courses)-corres.</td>
<td>36</td>
<td>16</td>
</tr>
<tr>
<td>&quot;200&quot; and &quot;300&quot; courses</td>
<td>564</td>
<td>588</td>
</tr>
<tr>
<td>Graduate (&quot;400&quot; courses)</td>
<td>245</td>
<td>240</td>
</tr>
<tr>
<td>Total registrations</td>
<td>2366</td>
<td>2386</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:

Undergraduates - Physics Major (LAS) 25
Undergraduates - Physics Curriculum (LAS) 94
Undergraduates - Engineering Physics Curriculum 297
Undergraduates or Graduates - Teacher Training 8
Graduate Majors in Physics 226

Total Physics Majors 650

C. Degrees Conferred

The degrees conferred are shown in the following table. The June 1960 figures are tentative (pre-commencement) and will be corrected to actual in next year's report.

<table>
<thead>
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Table II. Ph.D. Theses Completed in 1959-60

Renato Bobone - Transverse Polarization of Conversion Electrons Following Beta-Decay

James H. Bredt - A Study of Low Temperature Electrical Resistance Recovery in Cold Worked Copper Crystals

Roy Emrick - The Effect of Hydrostatic Pressure on the Anneal of Quenched-in Vacancies in Gold

John D. Fox - Photoneutron Cross Section Near Threshold

Howard Hart - Low Temperature Properties of Helium$^3$, Self-diffusion and Liquid Helium$^3$

James J. Jackson - The Production of Vacancies in Pulsed Gold

Neal Laurance - Self-diffusion of the Chloride Ion in Sodium Chloride

Robert Mieher - Quadrupolar Nuclear Relaxation

Kendal T. Rogers - Superconductivity in Small Systems


John K. Robe - Photoconductivity in Potassium Bromide Containing F Centers

William W. Simmons - Pure Quadrupole Resonance in Indium Metal.
TABLE III. Government Contracts in the Physics Department

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<thead>
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<th>Contract Number</th>
<th>Subject and Principal Investigator</th>
<th>Current Year</th>
<th>Est. Yearly Amt.</th>
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Total, Government Contracts 1,417,331
Total, Foundation Grants (See Table IV) 57,700
Grand Total $1,475,031
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Figure 2

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

- Bachelor's Degrees
- Master's Degrees
- Doctor's Degrees
Figure 3

Teaching and Research Staff

- Senior Staff Teaching
- Junior Staff Teaching
- Senior Staff Research
- Junior Staff Research

Postdoctoral Fellows
Predoctoral Fellows
Figure 4

Physics Department Publications in Scientific Journals

--- Articles
--- Letters to Editor
First Semester Registrations in Physics Courses 1952-53 to Date

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Summary of Registrations in Physics Courses During Summer Sessions 1951 to Date

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## Teaching Assignments and Course Enrollments
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|           |         | Asst.Prof. | U. E. Kruse       | 2.     | -      |   |           |                         |
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| Assistant |         | A. R. Hoffman| .50    | 2 2    |       |   |           |                         |
| Assistant |         | R. T. LaBarge| .50    | 1 3    |       |   |           |                         |
| Assistant |         | K. K. Kanazawa| .50    | 2 2    |       |   |           |                         |
| Assistant |         | D. M. Linekin| .50    | 2 2    |       |   |           |                         |
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| Assistant |         | R. E. Schwemm| .50    | 2 2    |       |   |           |                         |
| Assistant |         | D. S. Wollan | .50    | 2 2    |       |   |           |                         |
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## Teaching Assignments and Course Enrollments
### In Advanced Courses | I Semester 1959-60

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|            |         | Assoc.Prof. Ravenhall | 1 |    |   |   |     |             |
|            |         | Assistants         |        |    |   |   |     |             |
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|            |         | &quot; Joesten .50      | 2      | 2  |   |   |     |             |
|            |         | &quot; Klein .50        | 2      | 2  |   |   |     |             |
|            |         | &quot; Beveridge .50    | 2      | 2  |   |   |     |             |
|            |         | &quot; O'Fallon .50     | 2      | 2  |   |   |     |             |
|            |         | &quot; Mikkor .50       | 2      | 2  |   |   |     |             |
|            |         | &quot; Mikkelson .50    | 2      | 2  |   |   |     |             |
|            |         | &quot; Langreth .50     | 2      | 2  |   |   |     |             |
|            |         | &quot; Douglas .50      | 2      | 2  |   |   |     |             |
|            |         | Morrison .50       | 2      | 2  |   |   |     | (Lab. set up) |
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DEGREES CONFERRED

June 1959

Ph.D. in Physics

Stephen Reynolds Arnold
Gloria E. Winkle deWit
Frederick August Otter, Jr.
William Manos Portnoy

M.S. in Physics

James Leroy Boettler
Carl Ernest Carlston
Dwight William Carpenter
John Irving Connolly
Richard Byrd Crittenden
Roberta Ann DiNovi
Frank Curtis Douglas
John Seymour Edwards
Robert Thomas Galla
Peter Vance Gray
Kay Keiji Kanazawa
John David Steben
Richard Rodney Steck
Gene Henry Wojciechowski

M.S. in Teaching of Physics

George Harold Hans

B.S. in Engineering Physics

Caesar Ghilarducci
Thomas Ronald Hofmann
Marvin Saunders Jacques
James William Shively
Charles Joseph Ulrick
Charles Robert Zartman

B.S. in L.A.+S. (Physics Major)

Michael Perry Germano

B.S. in Physics (L.A.+S.)

Richard Balsam
John Robert Baskett
Dwight Ellston Isbell
Peter Nathan Kramer
Wallace Elder Lloyd
Charles Curtis Tonies
August 1959

B.S. in Engineering Physics
William Maurice Golden
William Raymond Harrison
Richard James Wallstrom

B.S. in Physics (L.A.+S.)
Paul Karl Richards

October 1959

M.S. in Physics
Stuart Bermon
James Norman Budwey
Eduardo Pereira del Casal
Richard Donald Koshel
Joseph Albert Libchaber
Wesley Northey Mathews, Jr.
Clifford William Mendel, Jr.
Wayne Bryce Nelson
Mitchell Thomas, Jr.
Arthur Wachowski

B.S. in Engineering Physics
Charles Gustave Stenberg
Ph.D. in Physics
Robert Lee Mieher

M.S. in Physics
Richard Keith Ahrenkiel
Van Fonken Wilford Bluemel
James Robert Boyd
Robert Gerald Cawley
Brent C. Cummings
Richard Leo Frederickson
Howard Michael Gilder
Stanley Phillip Gudder
David Walter Haremeister
Randolph Hartvig Jeppeson
John Wilbert Kanz
Ronald Norman Lee
Charles Herbert Neuman
Tin Ohn
John Richard Parsons
Otis Granville Peterson
David Nieman Pipkorn
William Reese
Richard White Siegel
Dominic Orestes Skaperdas
Roy Stephen Tucker
Emery Clarance Wisman
Charles Gordon Wohl

February 1960

B.S. in Teaching of Physics
Alfred Eugene Riccomi

B.S. in Physics (L.A.+S. Curriculum)
Francis Donald Buckley
Sanders Robert Dolce

B.S. in Physics
Richard William Blomme
Richard James Burton
James Francis McInerney
Norman Lewis Pruvost
Raymond J. Sarwinski
Earl David Shaw
Richard Bruckner Statham
Candidates for Degrees in Physics  June 1960

Ph.D. in Physics

James Bredt
Renato Bobone
Roy Morton Emmick
John Fox
Howard Roscoe Hart, Jr.
James Joseph Jackson
Neal Laurance
Kendall True Rogers
William W. Simmons
Jack Ullman
Jack Robe

M.S. in Physics

Gilbert Alan Clark
Richard Anderson Craig
Morris William Firebaugh
Ernst Gerald Fester
Joseph Carl Hafele
Marvin Leo Harding
Daniel Warren Hone
James David Leslie
Andre Robert Marguinaud
George Herman Nickel
Samuel Joseph Penny
Thomas Clayton Piper
Daniel Rubinstein
Glenn Tavernia Sincerbox
Irwin Spirn
Alice Anne Summerbell
John Warren Wilkins
Billy Bruce Williams
Stanley George Wogulis
John Henry Young
Daniel Rubinstein

B.S. in Teaching of Physics

Roger William Bohm

B.S. in L.A.+S. (Physics Major)

David Martin Gray
Bernard Lee Haertjens

B.S. in Engineering Physics

John Peter Berney
David George Clay
John Richard Clem
Joseph Robert Cudzik
Roger Malcolm Derby
Karl Robert Gardner
Edward Ray Gray
William James Hanko
Paul Gates Ingerson
Richard Dimick Jenks
Eric Neal Koch
Robert Maurice Lansford
Louis John Lanzerotti
Douglas Martin Lapp
Elmer Eugene Lewis
Paul Richard Lipinski
Don Leroy Mueller
Russell Lewis Putnam

B.S. in L.A.+S. (Physics Curriculum)

Richard Ray Allen
Lionel Maynard Bloom
James Donald Harvey
Harvey Kenneth Shepard
James Spencer Taylor
James Thomas Tough
James Stanley Trefil
October 1, 1959

PHYSICS DEPARTMENT COMMITTEES AND ADVISERS
(First name is chairman)

<table>
<thead>
<tr>
<th>GENERAL</th>
<th>TEACHING</th>
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<tr>
<td>Advisory</td>
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<td>(Chairman to be elected)</td>
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<td>Building</td>
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<td>German: Kruger, P.G.</td>
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PUBLIC RELATIONS

- Physics Club
- Hulsizer, R.I.
- Lazarus, D.

Popular Lectures
- Koester, L.J.

Orientation Lectures
- Sherwin, C.W.
- Becker, R.A.

Open House
- Wheatley, J.C.
- Ascoli, G.
- Yavin, A.I.
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| Light                                               |
| Hulsizer, Almy                                     |

| Thermodynamics                                    |
| Maurer, Mapother                                   |

| Kinetic Theory, Stat. Nucl.                       |
| Brown, Wheatley                                   |
Physics Colloquium

"Weak Interactions of Mu Mesons"
Dr. L. Wolfenstein, Carnegie Institute of Technology, Pittsburgh, Pennsylvania
May 14, 1959

SPECIAL COLLOQUIUM

"Range of Displaced Atoms in Solids"
Professor G. Leibfried, University of Aachen and Oak Ridge National Laboratory
May 18, 1959

SPECIAL COLLOQUIUM

"Isotope Enrichment by Countercurrent Electromigration in Molten Salts and Metals"
Professor Arnold Lunden, Chalmers University of Technology (Göteborg) and Iowa State College
May 20, 1959

"Self Diffusion and Nuclear Spin Relaxation in He$^3$"
Dr. R. L. Garwin, IBM Corporation, Watson Scientific Computing Laboratory, Columbia University
May 21, 1959

"Remarks on the Physics Conference at Kiev"
Prof. J. D. Jackson
September 24, 1959

"The Interaction of Pions with Pions"
Prof. L. J. Koester
October 1, 1959

"Optical Properties of Semiconductors"
Prof. H. Y. Fan, Purdue University
October 8, 1959

"An Experimental Determination of the Stability of Nucleons"
Prof. H. Frauenfelder
October 15, 1959

"Equilibrium Vacancy Concentrations in Metals"
Dr. R. O. Simmons
October 29, 1959

SPECIAL COLLOQUIUM

Professor F. Seitz - on NATO
November 2, 1959

"Electronic Properties of Semi-Metals"
Professor A. Lawson, University of Chicago
November 12, 1959
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1959-1960

Physics Colloquium (cont'd)

JOINT COLLOQUIUM - PHYSICS AND ASTRONOMY

"The Extreme Properties of Matter"
Sir Charles Darwin, F.R.S., Cambridge, England
November 19, 1959

"Acceleration and Stability of Plasma Beams"
Professor D. Finkelstein, Stevens Institute of Technology
December 3, 1959

"Electrons in a Box"
Prof. Morrel H. Cohen, University of Chicago
December 10, 1959

"Statistical Properties of Atomic and Nuclear Energy Levels"
Dr. Norbert Rosensweig, Argonne National Laboratory
December 17, 1959

"Nuclear Resonance Absorption and Nuclear Zeeman Effect in Fe 57"
Prof. Hans Frauenfelder
January 7, 1960

"High Energy Physics Program in Great Britain"
Prof. C. C. Butler, Imperial College of London
January 14, 1960

JOINT COLLOQUIUM - ELECTRICAL ENGINEERING AND PHYSICS

"Physical Processes Responsible for Ionization of Upper Atmosphere"
Professor A. H. Waynick, Director of Ionospheric Research Lab., and Head of Department of Electrical Engineering, Pennsylvania State University
February 17, 1960

"The Use of p-n Junctions as Ionization Chambers"
Dr. James W. Mayer, Hughes Aircraft Company
February 18, 1960

"Nuclear Forces Inside Complex Nuclei"
Prof. A. Wattenberg
February 25, 1960

"Ferromagnetism and Superconductivity"
Dr. Bernd Matthias, Bell Telephone Laboratories, Murray Hill, New Jersey
March 3, 1960

"Coherence in the Decay of Excited Atoms"
Prof. George W. Series, Oxford University and Bell Telephone Laboratories, Murray Hill, New Jersey
March 10, 1960

"The Problem of Parity of the K Mesons"
Prof. R. Dalitz, University of Chicago
March 17, 1960

"Studies of Trapped Radiation and Cosmic Rays"
Prof. John Simpson, University of Chicago
March 24, 1960
Physics Colloquium (cont'd)

"Some Elementary Aspects of Einstein's Theory of Gravitation"
Prof. Francis E. Low, Massachusetts Institute of Technology, Cambridge, Massachusetts
March 31, 1960

"Point Imperfections in Metals"
Prof. J. S. Koehler
April 7, 1960

"Exchange Effects in Paramagnetic Resonance"
Dr. George Pake, Stanford University, Stanford, California
April 21, 1960

"The Recent Experimental Research with the Tandem Vandegraaff"
Dr. H. E. Gove, Physics Director, Atomic Energy Lab., Chalk River, Ontario
May 5, 1960

"Recent Experiments on the Mössbauer Effect in Fe-57"
Dr. Stanley Hanna, Argonne National Laboratory
May 19, 1960

"Recent Experiments at CERN"
Dr. A. W. Merrison, CERN, Geneva, Switzerland
May 26, 1960

NUCLEAR SEMINARS

"Notes from A.P.S. Washington Meeting"
Illinois Staff Members
May 7, 1959

SPECIAL NUCLEAR SEMINAR

"Scintillation Chambers"
Prof. A. Roberts, University of Rochester
May 11, 1959

"10^15 ev Interactions in Nuclear Emulsions"
Dr. E. Lohrmann, University of Chicago
May 14, 1959

"Elements Produced by Rapid Capture of Neutrons in Stars"
Prof. R. A. Becker
May 21, 1959

JOINT THEORETICAL AND NUCLEAR SEMINAR

"Single Particle Energies in Nuclear Reactions"
Dr. G. E. Brown, University of Birmingham, England
September 22, 1959

"Some Items from U.S.S.R. - illustrated"
Prof. C. S. Robinson
September 24, 1959
SEMINAR REPORT
1959-1960

Nuclear Seminars (cont'd)

"The Geneva Conference, September 1959"
  Prof. E. L. Goldwasser
  October 1, 1959

"The Geneva Conference - September 1959, cont'd"
  Prof. E. L. Goldwasser
  October 8, 1959

"The Resonance Absorption and Fluorescence of Nuclear Gamma Rays"
  Dr. S. Hanna, Argonne National Laboratory
  October 15, 1959

"Transistors in Nuclear Physics"
  Dr. R. Miller, Yerkes
  October 29, 1959

"Low Energy K" Proton Scattering"
  Dr. U. E. Kruse
  November 5, 1959

"Low Energy K" Proton Scattering"
  Dr. U. E. Kruse
  November 12, 1959

"The Analysis of Bubble Chamber Data"
  Prof. J. N. Snyder
  November 19, 1959

"Molecular Beam Studies of Nuclear Magnetic Structure Effects, including Octupole Moments"
  Dr. M. N. McDermott
  December 3, 1959

"Resonance Reactions with Generalized One-Level Approximations"
  Dr. H. Lustig
  December 10, 1959

"Collective Model and the Decay of Ta_{182}"
  Prof. P. Axel
  December 17, 1959

"Doppler Effect"
  Prof. A. H. Taub
  January 7, 1960

"Solid State Detectors for Charged Particles"
  Prof. A. Yavin
  January 14, 1960

"K Production from Nucleon-Nucleon Collisions"
  Dr. Sherwood Parker, University of Chicago
  February 11, 1960
Nuclear Seminars (cont'd)

"The Dependence on Atomic Number of the Nuclear Photo-Effect at High Energies"
  Prof. A. Wattenberg
  February 13, 1960

"Measurement of Electron Polarization by Electron-Electron Scattering"
  Mr. Jack Ullman
  February 25, 1960

"Reactions with \(^3\text{H}\) and \(^3\text{He}\)"
  Prof. E. Bleuler, Purdue University
  March 9, 1960

"Transverse Polarization of Conversion Electrons"
  Mr. R. Bobone
  March 17, 1960

"Experiments on Polarized Neutrons in the Energy Region of a Few MEV"
  Dr. H.-J. Gerber
  March 24, 1960

"High Energy Experiments with Nuclear Photographic Emulsions"
  Dr. M. W. Friedlander, Washington University, St. Louis, Missouri
  March 31, 1960

"Brief Report on the Last MURA Meeting"
  Prof. L. J. Koester
  April 7, 1960

"University of Illinois Nuclear Reactor"
  Prof. M. E. Wyman
  April 21, 1960

SPECIAL NUCLEAR SEMINAR

"Resonance Absorption of Recoil-Free Gamma-Rays in Solids"
  Prof. R. Mössbauer, California Institute of Technology and the University of Munich, Germany
  May 4, 1960

"Tests for the Asymmetry of Inertia"
  Prof. C. W. Sherwin
  May 5, 1960

"Scattering of High Energy K⁻ Mesons from Hydrogen and Deuterium"
  Dr. Bruce Cork, University of California, Berkeley, California
  May 20, 1960

JOINT NUCLEAR AND THEORETICAL SEMINAR

"Nuclear Forces and Nuclear Matter"
  Prof. Steven Moszkowski, University of California, Los Angeles, California
  May 25, 1960

"μ⁻ Capture Experiments"
  Dr. William Kernan, Argonne National Laboratory
  May 26, 1960
THEORETICAL SEMINARS

SPECIAL THEORETICAL SEMINAR

"Perturbation Theory of a Fermion Gas with Interaction"
Prof. N. M. Hugenholtz, Institute for Advanced Studies, Princeton, New Jersey
May 8, 1959

"The Mandelstam Representation"
Dr. M. Grisaru
May 19, 1959

"Radiative Corrections to Weak Interactions"
Mr. Sam Harris
May 26, 1959

JOINT THEORETICAL AND NUCLEAR SEMINAR (this seminar is also listed in the Nuclear Seminar Section)

"Single Particle Energies in Nuclear Reactions"
Dr. G. E. Brown, University of Birmingham, England
September 22, 1959

"Applications of the Mandelstam Representation"
Dr. M. Grisaru
October 6, 1959

"Applications of the Mandelstam Representation" - conclusion
Dr. M. Grisaru
October 13, 1959

"Recent Work on the Two Nucleon Problem at Livermore and Berkeley"
Dr. H. P. Noyes, Radiation Laboratory, Livermore, California
November 2, 1959

"B.C.S. Theory of Superconductivity and Quantum Electrodynamics"
Prof. Y. Nambu, University of Chicago
November 17, 1959

"Structure of the Fermi Interaction"
Dr. G. Salzman, University of Colorado
November 30, 1959

"Relative Parity of $\Sigma$ and $\Lambda$ from $\Sigma^+ + d \rightarrow \Lambda + p + p""
M. Muraskin
January 12, 1960

"Hamiltonian Formalism in Quantum Field Theory"
Dr. H. Araki
March 8, 1960

"Preview of Symanzik's Friday Seminar"
Dr. H. Araki
March 15, 1960

"The Many Particle Structure of Green's Functions in Field Theory"
Dr. K. Symanzik, Institute for Advanced Study, Princeton, New Jersey
March 18, 1960
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Theoretical Seminars (cont'd)

"Transport Theory from a Field Theoretic Viewpoint"  
  Prof. Paul Martin, Harvard University  
  April 5, 1960

"Intermediate Boson Theory of Weak Interactions"  
  Prof. K. Nishijima  
  May 3, 1960

SPECIAL THEORETICAL SEMINAR

"Superconductivity and Elementary Particles"  
  Dr. Y. Nambu, University of Chicago  
  May 20, 1960

JOINT NUCLEAR AND THEORETICAL SEMINAR (this seminar is also listed in the Nuclear seminar Section)

"Nuclear Forces and Nuclear Matter"  
  Prof. Steven Moszkowski, University of California, Los Angeles, California  
  May 23, 1960

"π-ν Interaction"  
  Prof. G. Chew, University of California, Berkeley, California  
  May 30, 1960

"MISCELLANEOUS SEMINARS"

SPECIAL SEMINARS

"A Fixed Frequency Cyclotron for Relativistic Energies"  
  Dr. T. A. Welton, Oak Ridge National Laboratory  
  June 15, 1959

"Direct Interaction"  
  Prof. S. T. Butler, Australia  
  June 15, 1959

SEMINAR ON NEUTRON CAPTURE GAMMA RAYS  
Groshev from Moscow, Bollinger and others from Argonne National Laboratory  
September 1, 1959

JOINT ELEC. ENGR. AND PHYSICS SEMINAR

"Semi-conductor Diodes with Narrow p-n Junctions"  
  Dr. Leo Esaki, Sony Corporation, Tokyo, Japan  
  November 11, 1959

COMPUTER SEMINAR

"Non-Linear Differential Equations with Periodic Coefficients"  
  Prof. J. H. Bartlett  
  December 14, 1959
Miscellaneous Seminars (cont'd)

**MANY BODY PROBLEM SEMINARS**

"The Present Status of the Many-Body Problem"
Prof. D. Pines
October 12, 1959

"Green's Function Method in the Many Body Problem"
Prof. J. R. Schrieffer
October 19, 1959

"Green's Function Method in the Many Body Problem" - cont'd.
Prof. J. R. Schrieffer
October 26, 1959

"Green's Function Method in the Many Body Problem" - cont'd.
Prof. J. R. Schrieffer
November 2, 1959

"Green's Function Method in the Many Body Problem" - cont'd.
Prof. J. R. Schrieffer
November 9, 1959

"The Theory of the Fermi Liquid"
Prof. John Bardeen
November 16, 1959

"The Theory of the Fermi Liquid" - cont'd.
Prof. John Bardeen
November 23, 1959

"The Green's Function Method and the Fermi Liquid"
Prof. J. R. Schrieffer
November 30, 1959

"System of Interacting Bosons"
Prof. D. Pines
December 7, 1959

"System of Interacting Bosons" - cont'd.
Prof. D. Pines
December 14, 1959

"Carrying Coals to Newcastle - or the BCS Theory from a Correlation Function Viewpoint"
Prof. Paul Martin, Harvard University
April 4, 1960

"Two Component Green Functions"
Prof. J. R. Schrieffer
May 23, 1960
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**Miscellaneous Seminars (cont'd)**

**IONIC CRYSTALS SEMINARS**

"Electronic Properties of Silver Halides"
Prof. F. C. Brown
October 14, 1959

"Holes in Silver Bromide"
Mr. R. C. Hanson
October 21, 1959

"Theory of Optical Absorption in Ionic Crystals. I. - The Wannier Exciton"
Dr. R. S. Knox
October 28, 1959

"Color Centers in KBr and KCl at Very Low Temperatures"
Dr. J. Cape
November 4, 1959

"Slow Electrons in Ionic Crystals. I"
Dr. T. D. Schultz
November 18, 1959

"Slow Electrons in Ionic Crystals. II"
Dr. T. D. Schultz
November 24, 1959

"Photoconductivity in Alkali-Halides"
Dr. R. L. Wild
December 2, 1959

"Theory of Optical Absorption in Ionic Crystals. II - Direct Transitions"
Dr. R. S. Knox
December 16, 1959

"Exciton Spectra of Alkali Halides"
Dr. Fred Fischer
January 13, 1960

"Binding and Semiconducting Properties of Some Sulphides and Oxides"
Dr. T. Masumi
February 3, 1960

"V-1 Centers"
Mr. J. D. Kingsley
March 2, 1960

"Effects of Electron Irradiation on Alkali Halides"
Dr. Fred Fischer
April 6, 1960

"Indirect Optical Transitions in NaCl-Ag"
Dr. T. D. Schultz
May 23, 1960
SOLID STATE SEMINARS, Spring 1959

Fri., Feb. 6       L. C. ALLEN, MIT        Recent Calculations of Energy Bands in Metals
Fri., Feb. 13      GLORIA DE WIT, Urbana  Dislocations in Anisotropic crystals
Fri., Feb. 20      D. E. MAPOTHER, Urbana  Critical Field Curves of Superconducting Pb and Sn
Thu., Feb. 26      P. H. YUSTER and C. J. DELBECQ, Argonne  Electron and Hole Traps in Alkali Halides containing impurities (30 min.)
                  W. PRIMAK, Argonne  Annealing of radiation damage in vitreous silica (30 min.)
Fri., Feb. 27      R. V. COLEMAN, Urbana  Properties of Iron Whiskers
Fri., Mar.  6      J. K. GALT, BTL  Cyclotron resonance in Bismuth, Graphite, and Zinc
Fri., Mar. 13      J. J. MARKHAM, Zenith  Phonodynamics and the Shape of the F-Band
Fri., Mar. 20      C. A. SWENSON, Iowa State College  Phase transitions in mercury and cerium
Fri., Mar. 27      F. A. HAMM, Minnesota Min. & Mfg. Co.  Study of the Motion of Holes in the Silver Halides
Thu., Apr.  2      D. R. FRANKL, Sylvania  Theory of Surface conduction in semiconductors
Fri., Apr. 10      F. SEITZ, Urbana  Present status of V Centers
Fri., Apr. 17      E. R. DOEBBS, Brown  Solid Argon
Fri., Apr. 24      K. J. TEGARDEN, Rochester  Excitons and Band-to-band transitions in the Alkali Halides
Fri., May  1       F. A. OTTER, Urbana  Low Temperature Heat Capacity of an Aluminum Alloy
Fri., May 8  N. M. HUGENHOLTZ, Institute Perturbation Theory of a Fermi Gas with Interaction

Fri., May 15  J. E. GEUSIC, BTL Recent Solid State Maser Developments at BTL

Mon., May 18  G. LEIBFRIED, Aachen & Oak Ridge Displacement of Atoms in Solids

Wed., May 20  A. LUNDEN, Goteborg & Iowa State Isotope Enrichment by counter-current electromigration in molten salts and metals

Fri., May 22  H. RABIN, NRL Some studies of the X-ray Expansion and Coloration of Alkali Halide Crystals

Fri., May 29  J. W. MCCCLURE, National Carbon Band Structure and Magnetic Properties of Graphite

Fri., June 5  G. RICKAYZEN, Urbana Recent thoughts on the Theory of Superconductivity
Fri., Sep.25  H. KAWAMURA, Osaka-Tokyo
            Some Experiments on "Good Crystals" of
            Alkali Halides

Fri., Oct. 9  T. INUI, Tokyo
            The Electronic Structure of Color Centers
            in Alkali Halides

Fri., Oct.16  R. W. SHAW, Urbana
            The Superconducting Transition in Lead

Fri. Oct. 23  W. A. HARRISON, General Electric
            The Electronic Structure of Polyvalent Metals

Fri., Oct.30  D. G. THOMAS and J. J. HOPFIELD, Bell
            Excitons in Zinc Oxide and Cadmium Sulphide

Fri., Nov. 6  T. H. BLEWITT, Oak Ridge
            Radiation Damage in Metals

Fri., Nov.13  G. ASCARELLI, Urbana
            Recombination of electrons and donors in
            n-type Germanium

Fri., Nov.20  D. M. GINSBERG, Urbana
            Far infrared properties of superconducting metals

Mon., Nov.30  L. MULDAWER, Temple
            Electrical conductivity studies of solid
            solutions of Silver and Gold Alloys

Fri., Dec. 4  F. REIF, Institute of Metals, Chicago
            Ions in Liquid Helium: A Microscopic Method
            to Study Superfluidity

Fri., Dec.11  J. J. JACKSON, Urbana
            Rate of Production of Thermal Vacancies in Gold

Fri., Dec.18  P. HANDLER, Urbana
            Surface States, Semiconductor Surfaces, and
            Grain Boundaries

Fri., Jan. 8  S. RODRIGUEZ, Urbana
            Linear Antiferromagnetic Chain

Fri., Jan.15  H. EHRENREICH, General Electric
            Aspects of the electron theory of III-V
            Compounds
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<th>Date</th>
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<td>Fri., Feb. 5</td>
<td>A. H. MILLER, Urbana</td>
<td>Impurity Conduction at Low Concentrations</td>
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<td>Fri., Feb.19</td>
<td>H. HAKEN, General Electric</td>
<td>Renormalization of charge and mass of electrons in semiconductors</td>
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<td>Fri., Feb.26</td>
<td>G. D. CODY, RCA</td>
<td>Thermal Conductivity of semiconductors at High temperatures</td>
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<td>Fri., Mar. 4</td>
<td>H. SUHL, ETL</td>
<td>Corrections to the random phase approximation in the next order</td>
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<td>Fri., Mar.11</td>
<td>T. G. NILAN, Urbana</td>
<td>Stored Energy Release Below 80°K in Deuteron-irradiated Copper</td>
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<td>Mon., Mar.15</td>
<td>G. K. HORTON, Univ. of Alberta, Edmonton</td>
<td>The Statistical Mechanics of the Ideal Inert Gas Solids</td>
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<td>Fri., Mar.18</td>
<td>F. C. BROWN, Urbana</td>
<td>Photoconductivity and Hall Effect in AgBr at Low Temperatures</td>
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<td>Fri., Mar.25</td>
<td>F. ENGLERT, Cornell</td>
<td>A Dielectric formulation of the quantum statistics of interacting particles</td>
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<td>Fri., Apr. 8</td>
<td>V. CELLI, Urbana</td>
<td>Simplified energy band calculations in solids</td>
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<td>Fri., Apr.15</td>
<td>G. D. WHITFIELD, Urbana</td>
<td>Electron-phonon interactions and the deformation potential theorem</td>
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<td>Fri., Apr.22</td>
<td>F. G. FUMI, Cornell</td>
<td>Remarks on the Born Model of Ionic Solids</td>
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<td>Fri., Apr.29</td>
<td>R. M. EMRICK, Urbana</td>
<td>Pressure Effect on Vacancy Annealing</td>
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<td>Fri., May 6</td>
<td>W. S. CLOUD, DuPont</td>
<td>Evidence for an Antiferromagnetic-Ferrimagnetic transition in Cr-modified Mn2Sb</td>
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<td>Fri., May 13</td>
<td>J. W. MITCHELL, Virginia</td>
<td>Plastic Deformation of Crystals of the Silver Halides</td>
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1960

Fri., May 20  P. G. KLEMENS, Westinghouse  
Thermal Conductivity of Solids at Low Temperatures

Fri., May 27  T. A. LONGO, Sylvania, Northlake, Ill.  
The Nature of the Peak and Valley Currents in Germanium Tunnel Diodes

Fri., June 3  R. L. MIEHER, Urbana  
Nuclear Spin Lattice Relaxation
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<td>1733 West Haven Dr., Urbana</td>
<td></td>
</tr>
<tr>
<td>Runyon, Shirley</td>
<td>Secretary-Betatron</td>
<td>209PRL</td>
<td>2526</td>
<td>6-8822</td>
<td>609 S.Randolph,C</td>
<td></td>
</tr>
<tr>
<td>*Russell, R.L.</td>
<td>Storekeeper</td>
<td>221FL</td>
<td>2459</td>
<td>7-4268</td>
<td>1404 E.Pennsylvania,U</td>
<td></td>
</tr>
<tr>
<td>*Schwab, G.J.</td>
<td>P.R.Lab.Asst.</td>
<td>100aNPB</td>
<td>2526</td>
<td>7-2484</td>
<td>901 E.Washington, Urbana</td>
<td></td>
</tr>
<tr>
<td>*Stoner, H.G.</td>
<td>Sr.Lab.Mech.</td>
<td>120NPB</td>
<td>2115</td>
<td>6-3444</td>
<td>806 S.Foley,C</td>
<td></td>
</tr>
<tr>
<td>*Swanson, D.C.</td>
<td>Sr.Lab.Mech.</td>
<td>150PL</td>
<td>2301</td>
<td>7-8734</td>
<td>803 E.Michigan,U</td>
<td></td>
</tr>
<tr>
<td>Trotter, Dorothy</td>
<td>Secretary to Prof. Seitz</td>
<td>205NPB</td>
<td>2458</td>
<td>5-1236</td>
<td>907 E.California,U</td>
<td></td>
</tr>
<tr>
<td>Varadi, Bela</td>
<td>Jr.Lab.Mech.</td>
<td>100PRL</td>
<td>2526</td>
<td>-</td>
<td>106 W.Healey,C</td>
<td></td>
</tr>
<tr>
<td>*Vermillion, Donald</td>
<td>Accel.Tech.</td>
<td>104PRL</td>
<td>2526</td>
<td>7-6949</td>
<td>910 Burkwood Dr., Urbana</td>
<td></td>
</tr>
<tr>
<td>*Wallstrom, Richard</td>
<td>Accel.Engr.I</td>
<td>204PRL</td>
<td>2526</td>
<td>7-5876</td>
<td>2905 E.Main,U</td>
<td></td>
</tr>
<tr>
<td>*Watson, P.K.</td>
<td>Sr.Lab.Mech.</td>
<td>120NPB</td>
<td>2115</td>
<td>6-2644</td>
<td>317 N.Fair,C</td>
<td></td>
</tr>
<tr>
<td>*Wells, E.Anne</td>
<td>Clerk-Steno.II</td>
<td>303NPB</td>
<td>3872</td>
<td>-</td>
<td>37 Blue Spruce Dr., Urbana</td>
<td></td>
</tr>
<tr>
<td>*Wills, C.A.</td>
<td>Engr.Draftsman I</td>
<td>104NPB</td>
<td>2115</td>
<td>6-6391</td>
<td>803 S.Foley,C</td>
<td></td>
</tr>
<tr>
<td>*Wise, F.S.</td>
<td>P.R.Lab.Asst.</td>
<td>120NPB</td>
<td>2115</td>
<td>6-5636</td>
<td>215 Edge Brook Dr., Urbana</td>
<td></td>
</tr>
<tr>
<td>*Witt, F.E.L.</td>
<td>P.R.Lab.Asst.</td>
<td>104aNPB</td>
<td>3866</td>
<td>2-9547</td>
<td>1706 Princeton Dr., Urbana</td>
<td></td>
</tr>
<tr>
<td>*Zorns, O.M.</td>
<td>Sr.Lab.Mech.</td>
<td>120NPB</td>
<td>2115</td>
<td>7-5759</td>
<td>R.R.2, Urbana</td>
<td></td>
</tr>
</tbody>
</table>
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME       Felix T. ADLER            Highest Degree    Ph.D. in engineering
Academic Rank Professor of physics and nuclear 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 ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

Reactor physics investigations, in particular in developing approximation methods suitable for a better understanding of neutron resonance absorption and neutron thermalization.

OTHER DUTIES: University duties not directly credited to teaching and research occupy an average of 30-35 clock hours per week. The principal time-consuming duties are:

Advising in developing nuclear engineering program (planning courses, Ph.D. program, staff additions; formulation of proposal to increase the research potential of reactor)

MEMBERSHIP ON COMMITTEES:

Department: Qualifying examinations

College: Nuclear Engineering Committee and its subcommittees

University:

Technical Societies and Advisory Groups: Argonne National Laboratory, Advisory Committee AEC, Idaho Division, Reactor Engineering Division, Control Division.
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society
American Nuclear Society
American Association of Physics Teachers

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:

A direct method for the evaluation of the line shape functions, with Y. D. Naliboff.
Monte Carlo programs for neutron flux and resonance escape investigations, with H. D. Naliboff, G. H. Nickel.
Analog computer solutions of some reactor problems, with A. Baxter.

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


Addresses — Title, organization addressed, and date:

AMU - ANL Engineering Education and Research Conference, ANL Jan 25-26, 1960
Panel Member on "Nuclear Engineering Educational Programs."

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.):

Considerable contact with nuclear engineering graduate students on an informal basis.

Other professional activities, including summer work:

Consulting for Stanford Research Institute, Menlo Park, Cal.
Consulting on Reactor Design (Maritime Reactor Evaluation) for General Atomic Consultant to ANL and UCRL - Livermore
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 19__ to April 30, 19__

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Donatella G. ADLER

Highest Degree: Ph.D.

Academic Rank: Research Assistant Professor

Admin. Title: __________

Time devoted to University work according to official appointment: ______ Full Time; ______ ¾; ______ ⅔; ______ ½; ______ ⅓; ______ ⅔; ______ 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:

Analysis of π-P scattering at 915 MeV. Sponsor of the Project is Professor L. S. Lavatelli. The major project is Research on data processing and analysis of data obtained in high energy physics experiments.

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:

Società Italiana di Fisica. 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:

Analysis of $\pi - p$ scattering at 915 Mev. Development of digital computer routines for the IBM 650, for least squares fitting of experimental data.

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution: under the name D. Baroncini


1960: Alcune proprietà del reattore a doppio core (Burn-up program for a two-core converter reactor) Comitato Naz. Ric. Nucleari, Italy

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: James S. ALLEN
Highest Degree: Ph.D.

Academic Rank: 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 50 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 50 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:

Supervision of cyclotron rebuilding

MEMBERSHIP ON COMMITTEES:
Department: Machine Shop, Drafting; Engineering Physics Advisers

College: Radiation Hazards; Graduate

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

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  G. M. ALMY

Academic Rank  Professor  Admin. Title  Acting Head of Department

Highest Degree  Ph.D.

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 ______ 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 50 clock hours per week. The principal time-consuming duties are:

  Administration of Physics Department

MEMBERSHIP ON COMMITTEES:

  Assistants and Fellows Chairman
  Department:  Building Chairman
  Graduate Student Advisers Chairman

  College:  Building

University:  Educational Policy (Senate)
            Future Programs
            Committee on Committees (Senate)
            Future of Extension Division

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:

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Daniel S. Alpert

Highest Degree: PH.D.

Academic Rank: Professor

Admin. Title: Director, CSL

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:

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: Huzihiro ARAKI
Highest Degree: M.S. (over)

Academic Rank: Research Associate
Admin. Title:

Time devoted to University work according to official appointment: X 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:

Quantum theory of fields, especially its mathematical foundation

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:  Ph.D. (June 1960) Princeton University

Membership in technical societies and fraternities: None

Attendance at meetings of technical societies:

1960 Midwest Conference on Theoretical Physics. April 1-2, 1960
Purdue University, Lafayette, Indiana

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

See reverse page

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


Hamiltonian Formalism and the Canonical Commutation Relations in Quantum Field Theory (Thesis. Submitted as a paper to Annals of Physics)


Addresses — Title, organization addressed, and date:

The Hamiltonian Formalism in Quantum Field Theory, Physics Department, Yale, Univ. April 11, 1960

The Structure of the n-Point Function in p-Space, Physics Department, Princeton University, April 15, 1960

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: Gianni ASCARELLI
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 ______ 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:
   American Physical Society
   Italian Physical Society

Attendance at meetings of technical societies:

   Detroit Meeting, American Physical Society, March 21, 1960

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

   Cyclotron resonance in silver bromide
   Recombination of electrons and donors in germanium
   Low temperature breakdown in germanium

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

Addresses — Title, organization addressed, and date:

   Low Temperature Breakdown in n-type Ge; Recombination of Electrons and Donors in Ge. American Physical Society, March 1960. (Detroit Meeting)

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Giulio ASCOLI

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 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: Open House

College: Open House

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:

Research on instabilities in plasmas: in progress

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 to the Physical Science Study Committee of the Educational Services, Inc.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Peter AXEL

Highest Degree: Ph.D.

Academic Rank: 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:

(Low Energy) experimental nuclear physics

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:

Director of 25 Mev Betatron Operation and Maintenance

MEMBERSHIP ON COMMITTEES:

Department: Colloquium, Electronics Shop, IAS Physics Adviser.

College: High School Relations

University: Preparation of Secondary School Science Teachers

Technical Societies and Advisory Groups:

Co-Chairman for 1959 Photonuclear Conference (Gordon Conference) Meriden, N. H.
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

- Gordon Research Conference on Nuclear Chemistry, July 1959
- Gordon Research Conference on Photonuclear Reactions, August 1959

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

- The photo neutron cross section near threshold. (Thesis: J. D. Fox)
- Polarization of bremsstrahlung.
- Production and use of monochromatic gamma rays.

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.):

Miscellaneous counseling and entertaining of graduate students

Other professional activities, including summer work:

Consultant at Argonne National Laboratory; Physical Science Study Committee for preparation of High School Physics Course; summer visitor to Radiation Laboratory, Berkeley, Calif.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: John BARDEEN

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title

Time devoted to University work according to official appointment:

- Full Time;
- 3/4;
- 2/3;
- 1/2;
- 1/3;
- 1/4;


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:

Solid state theory, superconductivity, semiconductors. Direct contract research in Physics and E. E. Depts.

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:

Work on University committees

MEMBERSHIP ON COMMITTEES:

Department: Graduate and Research Committees, E. E. Dept. Also several committees for examination for Ph.D.

College:

University: Executive Committee, Graduate College. Visiting Speakers Committee

PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:


Attendance at meetings of technical societies:

Superconductivity Conference, Cambridge, Eng., June 30-July 4, 1959
Midwest Conf. on Theor. Physics, Purdue, Univ., April 1, 1960.

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. Rickayzen and L. Tewordt) Theory of Thermal Conductivity of Superconductors, Phys. Rev. 113, 982(1959)

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.):

Occasionally entertain students at home.

Other professional activities, including summer work:

Did research at Univ. of Copenhagen, Feb. 15-June 15, 1959 on sabbatical leave; also visited laboratories in France, Belgium, Holland, Sweden, Germany, Israel, England.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

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

Academic Rank: Professor
Admin. Title: __________

Time devoted to University work according to official appointment: __ Full Time; ___ 2/3; ___ 2/6; ___ 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 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
- Electrochemical Society
- Biophysical Society
- Sigma Xi
- Marine Biological Laboratory, Woods Hole, Mass.

Attendance at meetings of technical societies:
- Electrochemical Society, May, 1959 (Philadelphia); October, 1959 (Columbus)
- Physical Society, January, 1960 (New York)
- Biophysical Society, February, 1960 (Philadelphia)

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
- Non-linear differential equations with periodic coefficients (completed)
- Passivation of iron in sulphuric acid (with J. L. Ord) (in progress)
- Anodic behavior of copper in phosphoric acid (with F. H. Giles) (completed)
- Feasibility of brain models (in progress)

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

Addresses — Title, organization addressed, and date:
- Anodic Films on Copper in Phosphoric Acid, Electrochemical Society, Oct. 21, 1959
- Artificial Intelligence, Purdue Univ. Dept. of Physics, Nov. 7, 1959.
- Nonlinear differential equations with periodic coefficients, Univ. of Ill., Computer Seminar, December, 1959.

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  Robert A. BECKER

Highest Degree  Ph.D.

Academic Rank  Professor

Time devoted to University work according to official appointment:  Full Time; 3/4; 3/8; 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 percent of full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

Study of element abundance, and of element synthesis in the stars. Several processes are involved.

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:

1. Assistants and Fellows Committee takes about 2 weeks of solid work in February.
2. Consultation with students.

MEMBERSHIP ON COMMITTEES:

Department:  Assistants and Fellows LAS Advisor

College:

University:  Selection of National Science Foundation Cooperative Fellows

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Fellow, American Physical Society
American Institute of Physics
American Astronomical Society

Attendance at meetings of technical societies:

1. Special Conference on Neutron-Capture reactions, Los Alamos, October, 1959
2. Special Conference on Peaceful Applications of Nuclear Explosions, Los Alamos July, 1959

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

In progress: further studies of element synthesis via the rapid capture process believed to occur in supernovae

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

(with W. A. Fowler) "Abundances of the Rare-Earth Nuclei Produced by Rapid Neutron Capture in Supernovae" Phys. Rev. 115, 1410 (1959)

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:

Held a grant from the Guggenheim Foundation permitting me to work on element synthesis studies at Cal Tech during the summer of 1959.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Frederick C. BROWN

Highest Degree: Ph.D.

Academic Rank: Associate Professor

Admin. Title: _______________________

Time devoted to University work according to official appointment: ______ Full Time; ______ ¾; ______ ⅔; ______ ½; ______ 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:

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: Chairman, LAS Advisers
Undergraduate Studies 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:

International Conference on Color Centers, Oregon State College, Corvallis, Oregon
Sept. 10, 1959
American Physical Society, Detroit, Marcy 21, 1960

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

Research on electronic properties of ionic crystals under Air Force contract AF 49(658)797 including various studies of photoconductivity, electron and hole mobility and magnetoresistance in the silver and alkali halides.

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, 1952 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: J. H. CAHN

Highest Degree: Ph.D.

Academic Rank: Associate Professor of Physics and Admin.

Title: 

Time devoted to University work according to official appointment: 

--- 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 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:
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME John A. Cape

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 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:

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:

Color centers in alkali halides

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME __________________________ Highest Degree Ph.D.

Vittorio Celli Research Associate

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 ______ 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:

Italian 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:

Energy band calculations of compounds with zincblende structure.
Discrete elastic theory of dislocations.
Theoretical explanation of the anomalous electronic specific heat of some alloys.

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: Santimay CHATTERJEE  Highest Degree: Ph.D.

Academic Rank: Research 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 ______ 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:
- Medium energy spiral ridge cyclotron
- Photonuclear and inverse reactions
- Precision magnetic field measurements
- Solid state detectors

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:

Mowat Gold Medal of the University of Calcutta, India

Membership in technical societies and fraternities:

American Physical Society
Fellow of the Indian Physical Society

Attendance at meetings of technical societies:

American Physical Society meeting at Washington, May 1959; Cleveland, Nov. 1959.

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

The remodelled University of Illinois cyclotron
Energy analysis of the cyclotron external beam
Photonuclear and inverse reactions
Application of the solid state detectors

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

A Proton Probe for Measuring Magnetic Field. (with Van Bluemel) Tech. Rept. no. 16 ONR contract Nonr 1834(05) April 22, 1960

Addresses — Title, organization addressed, and date:

Variable Energy Spiral Ridge Cyclotron of the Univ. of Illinois. APS Meeting at Cleveland, Ohio, Nov. 28, 1959.

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Robert V. Coleman

Highest Degree: Ph.D.

Academic Rank: Research Assistant Professor

Admin. Title:

Time devoted to University work according to official appointment: \( \times \) Full Time; \( \frac{3}{4} \); \( \frac{2}{3} \); \( \frac{1}{2} \); \( \frac{1}{3} \); \( \frac{1}{4} \); \( \frac{1}{5} \) Time.

TEACHING: Teaching program for the current academic year was reported to the Bureau of Institutional Research as \( \ldots \) percent of full load in the fall semester and \( \ldots \) 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 \( \ldots \) 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:

American Physical Society

Attendance at meetings of technical societies:

Meeting of Electrochemical Society, Columbus, Ohio, October 15, 1959
Meeting of AEC at Chapel Hill, N. C., March 19, 1960

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

High pressure work on diffusion and electrical conductivity.

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: John E. Crew

Highest Degree: Ph.D.

Academic Rank: Research 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 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

High energy nuclear physics: properties of strange particles

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: none

College: none

University: none

Technical Societies and Advisory Groups: none
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:

Washington meeting of the American Physical Society, April 25-28, 1960

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

Penetration of 0.4 Mev electrons in air from a gun source. Completed, to be published

Search for anomalous decays of Σ hyperons in nuclear emulsion. In progress

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  Giovanni DE PASQUALI

Highest Degree  Dipl. Eng.

Academic Rank  Research Associate

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 _____ 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:

Radiochemistry

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: Roy M. EMRICK

Highest Degree: Ph.D.

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.

Research assistant 5/1/59 - 2/29/60 1/2 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 50 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are: Solid state physics. See above

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:
Ph.D. University of Illinois June 1960

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

Attendance at meetings of technical societies:
American Physical Society, Detroit Meeting, March, 1960

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

Thesis: The effect of hydrostatic pressure on the anneal of vacancies quenched in gold

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: T. E. FEUCHTWANG

Highest Degree: ___________

Academic Rank: Research Associate

Admin. Title: ___________

Time devoted to University work according to official appointment: ______ Full Time; ______ ¾; ______ ⅔; ______ ⅓; ______ 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:

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: Fred FISHER

Highest Degree: Dr. rer. nat.

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 ______ 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:

Solid state physics: alkali halides, absorption spectra in the ultra violet, excitons, ion conductivity, luminescence.

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: None

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Luminescence glow curves in alkali chlorides; ion conductivity in KCl.

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:

Zur Kinetik der F-Zentrenbildung bei Elektronenbestrahlung. Z. Physik 154, 524-52 (1959)

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME _______________________________ Highest Degree __________________

Academic Rank Res. 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:

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: Hans FRAUENFELDER

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title:

Time devoted to University work according to official appointment: __ Full Time; __/4; __/4; __/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:

- Nuclear physics: investigation of the polarization of conversion electrons in beta decay.
- Mössbauer absorption: investigation of the recoilless resonance absorption of the gamma ray from iron-57 and application to problems of irradiation theory and solid state physics.
- Surface physics: Investigation of the surface processes with radioactive materials.

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

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:

- Parity non-conservation: Möller scattering. Completed, thesis written by Dr. J. D. Ullman
- Transverse polarization of conversion electrons. Completed by Mr. R. Bobone and thesis written.

See reverse side for other research in progress.

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

- (With H. R. Lewis, J. F. Cochran, D. E. Mapother, R. N. Peacock)
  A method for measuring magnetic fields in superconductors. Z. für Physik 158A 26-34 (1960)
- (With G. DePasquali, S. Margulies, N. R. Peacock)
  Electron and photon polarization (lectures given at the International School of Physics of the Italian Physical Society, June 29-July 11, 1959 at Varenna)

Addresses — Title, organization addressed, and date:
- Colloquium - Nuclear resonance absorption and solid state applications. Inst. of Metals, Univ. of Chicago. April 19, 1960.

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:

- Sabbatical Leave at CERN, Geneva, Switzerland until 30 Sept. 1959.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Hiroshi FUJIWARA

Highest Degree: Ph.D.

Academic Rank: Research Associate

Admin. Title: 

Time devoted to University work according to official appointment: Full Time; 

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:

Solid state physics: vacancy quenching in gold; internal friction of gold and aluminum

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:

Detroit meeting of the American Physical Society, Marcy, 1960

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

Completed: vacancy quenching in gold.
In progress: internal friction of gold and aluminum.

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: Marvin Garfinkel

Highest Degree: Ph.D.

Academic Rank: Research Associate

Admin. Title:

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

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:

Low temperature physics

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

Attendance at meetings of technical societies:

New York meeting of the American Physical Society, Jan 27-Feb 1, 1960

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

Effect of pressure on the critical field of lead
Effect of pressure on the critical field of tin
Thermal conductivity of superconducting tin

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

Addresses — Title, organization addressed, and date:

Pressure effects in lead. RCA Laboratory seminar, January 1960

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  Edward L. GARWIN

Highest Degree  Ph.D.

Academic Rank  Research Assistant Professor

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  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:

See over

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:  None

College:  None

University:  None

Technical Societies and Advisory Groups:  None
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:

Cleveland Meeting of the American Physical Society, November, 1959
Washington Meeting of the American Physical Society, April, 1960

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

Research in progress to measure the width of a nuclear energy level as a function of the time elapsed between formation of the state and detection of the photon emitted thereby. This employs the Mössbauer effect as the detection mechanism for the width of the energy level.

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


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 for Space Technology Laboratories, Los Angeles, Calif. on theoretical and experimental problems in plasma physics.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Hans-Jürgen GEBER

Highest Degree: Ph.D.

Academic Rank: Research Assistant Professor

Admin. Title: ____________

Time devoted to University work according to official appointment: _______ Full Time; _______ 3/4; _______ 3/5; _______ 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:

See over

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: None

College: None

University: None

Technical Societies and Advisory Groups: None
**PROFESSIONAL ACTIVITIES:**

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

*Users Meeting, Argonne National Laboratory, Spring, 1960.*

*American Physical Society, Washington, April, 1960.*

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

*In progress: Deuteron-Compton effect (with Drs. Hanson and Wattenberg)*

*Studies of Experiments for the Determination of Parities of Strange Particles (with Dr. Wattenberg)*

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: Donald M. Ginsberg

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:

The determination of the high-frequency electromagnetic properties of superconducting metals by the use of far infrared spectroscopy

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: None

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society
Illinois Academy of Science

Attendance at meetings of technical societies:

Washington meeting of the American Physical Society, April, 1960

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

I have designed an experiment for measuring the wavelength dependence of the absorption of far infrared radiation in the surface of superconducting metals. The equipment has been designed, and is nearing completion. The samples have been prepared. Measurements will commence this summer.

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.):

None

Other professional activities, including summer work:

None
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Edwin L. Goldwasser

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title:

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

- Investigations of photoproduction of π mesons from nucleons.
- Design and construction of liquid hydrogen bubble chamber to be used in extension of above work

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

- University of Illinois representative to the Council of Associated Midwest Universities

MEMBERSHIP ON COMMITTEES:

Department: General Physics Lecture Apparatus, Engineering Physics Advisers

College: Improvement of Teaching

University: Chairman of Argonne Accelerator Users Group; Chairman of U of I group working on Teacher's Guide for PSSC high school physics course; Member of Council of Federation of American Scientists.

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:

U. of Ill. representative to International Conference on Instrumentation for High Energy Physics, Geneva, Switzerland, Sept. 1959

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

Completed experimental run to make new evaluation of threshold photoproduction of $\pi^-$ mesons. Analysis in progress. Will serve as thesis material for Richard Carrigan.

Construction of 1⁄4" liquid hydrogen bubble chamber is now in progress

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:

Spent summer 1959 at Brookhaven National Lab. studying hydrogen bubble chamber design and techniques. Attended three 3-day conferences on Improvement of Teaching of College Physics, sponsored by AMPT, Ed. Services, Inc. and NSF.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Andrew V. GRANATO

Highest Degree: Ph.D.

Academic Rank: Research Assistant Professor

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

(Appointment expired in August. Month-by-month appointment thereafter to finish work in progress)

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:

- Measurement of energy stored in deuteron bombarded copper: radiation damage

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: None

College: None

University: None

Technical Societies and Advisory Groups:
None
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:

**Stored energy release below 80°H in deuteron irradiated copper**

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME M. T. GRISARU

Highest Degree Ph.D.

Academic Rank Research Associate

Time devoted to University work according to official appointment: x Full Time; ¾; ½; ⅓; 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:

Theoretical nuclear physics

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: None

College: None

University: None

Technical Societies and Advisory Groups: None
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:

Work on applications of the Mandelstam representation to nucleon-nucleon scattering (to be published)

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:
Spent the month of August at Berkeley in order to become acquainted with the current work of Mandelstam, Chew and others on dispersion relations.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Etienne GUION

Highest Degree: Agrégation (Physics)

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.

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 50 percent of a full load in the fall semester and 50 percent in the spring semester. Major projects and areas of specialization are:

Research on radiation damage

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: None

College: None

University: None

Technical Societies and Advisory Groups: None
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 with Prof. Koehler on his project of radiation damage. Studies of imperfections introduced in silver and aluminum by irradiation at very low temperatures by deuterons.

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

(with A. Guinier) Internal double reflection in a nearly perfect crystal.
J. of Applied Physics, 20, 522-28(1959)

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: Rudolf HAAG  Highest Degree: Dr. rer. nat.
Academic Rank: Professor  Admin. Title: 

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

Quantum theory of fields, in particular mathematical foundations thereof.

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: None  
College: None  
University: None  

Technical Societies and Advisory Groups: None
**PROFESSIONAL ACTIVITIES:**

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

*Midwest Conference on Theoretical Physics, Lafayette, Indiana April 1, 2, 1960*

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

*Work at the University of Illinois begun only in February, so no progress report as yet.*

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

*(with F. Coester) Representation of states in a field theory with canonical variables. Phys. Rev. 117, 1137-45(1960).*

Addresses — Title, organization addressed, and date:

*"Canonical formalism in quantum field theory," Enrico Fermi Institute, University of Chicago, April 22, 1960.*

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:
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Paul Handler

Highest Degree: Ph.D.

Academic Rank: Assistant Professor

Physics and Electrical Engineering

Admin. Title:

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

Joint Appointment with Elec. Eng.

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:
American Physical Society

Attendance at meetings of technical societies:
Electrochemical Society, Columbus, Ohio, 1959
International Conf. on Semiconductor Surfaces, Washington, Dec. 1959
Detroit Meeting of American Physical Society March, 1960

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
Supervised the completion of one Master's thesis/ supervised 3 graduate students,
1 postdoctoral.
Supervised semiconductor Laboratory in general

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:
(With W. Portnoy) Electronic surface states and the clean germanium surface.

Addresses — Title, organization addressed, and date:
"Clean semiconductor surfaces." Inter. Conf. on Semiconductor Surfaces, Washington DC Dec. 1959

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.):

Consultant to the Monsanto Chemical Co.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Alfred O. Hanson

Highest Degree: Ph.D.

Academic Rank: Professor

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

Engineering Physics Advisor

MEMBERSHIP ON COMMITTEES:

Department: Qualifying and Proficiency Examination

College: Nuclear Engineering Curriculum

University: Radiation Hazards Committee

Technical Societies and Advisory Groups:

National Science Foundation: Fellowship Evaluation Panel for Physics; Graduate Fellowship Awards (Feb. 16-19) 1960
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:

Co-chairman: Gordon Conference on Photonuclear Reactions, Meriden, N. H.,
N. Y. Meeting American Physical Society, Jan. 27-30, 1960

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

Two theses in progress: H. E. Hall on "The Intensity at the High Energy Limit of
the Bremsstrahlung Spectra"; R. S. Jones, "Compton Effect in Deuterium at 220 Mev."

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

115, 633-635(1959)

Addresses — Title, organization addressed, and date:

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

Other professional activities, including summer work:

Summer, 1959 - Consultant: Stanford Research Inst. (Calif.)
Occasionally (1 day) Naval Research Laboratory (Washington, D. C.)
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Howard R. Hart, Jr.

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 ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

Low temperature physics. See over.

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:

Ph.D. Univ. of Illinois (Final in March)

Membership in technical societies and fraternities:

American Physical Society
Sigma Xi

Attendance at meetings of technical societies:

Detroit meeting, American Physical Society, March, 1960

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

The measurement of the diffusion coefficient of the magnetization of liquid He$_3$, and the measurement of the nuclear susceptibility of liquid He$_3$ below 1° K.

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


Addresses — Title, organization addressed, and date:

"Self-diffusion in Liquid He$_3$," Colloquia at Johns Hopkins Univ (March 3, 1960) and Inst. of Metals, Univ. of Chicago (April 12, 1960)

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
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  Kornelius A. HERSHBAHCH  Highest Degree  Dr. rer. nat.

Academic Rank  Research Associate  Admin. Title

Time devoted to University work according to official appointment:  x Full Time;  ___¾;  ___½;  ___⅓;  ___⅔;  ____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:

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:

Radiation damage on aluminum and gold: in progress.

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: R. D. HILL

Highest Degree: Ph.D.

Academic Rank: 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:

ON Coordinate Science Laboratory
Research project

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 Studies and Examinations

College: Library

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

Attendance at meetings of technical societies:

Washington, D. C., Meeting of American Physical Society, April 1960

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

Investigations of K-meson scattering and Σ hypern decay are still continuing.

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


A number of other classified secret reports, Coordinated Science 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:

Secret classified project work with Stanford Research Inst. during summer, 1959.
UNIVERSITY OF ILLINOIS

COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Robert I. Hulsizer

Academic Rank: Professor

Highest Degree: Ph.D.

Admin. Title:

Time devoted to University work according to official appointment:

- Full Time; 3/4; 3/4; 1/2; 1/4; 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:

- Low temperature physics - effect of inter-ionic interactions on alignment of nuclei of paramagnetic salts

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, Undergraduate Studies, Adviser to Physics Club, Executive Committee of CSL

College: Ad hoc committee on Honors Program for Engineering 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, American Association of Physics Teachers, American Association of University Professors

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:

None completed. See page one for research in progress.

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

None

Addresses — Title, organization addressed, and date:

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.):

Other professional activities, including summer work:

Consultant for Educational Services, Inc., on High School Physics program; member of Conference on the Improvement of College Physics Teaching
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

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

Academic Rank: Assistant Professor    Admin. Title:

Time devoted to University work according to official appointment:

- Full Time; - ¾; - ½; - x ½; - ½; - ¼; - ___ Time.  (1/2 time in Chemistry, IAS college)

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: (Office provided by another department)

- Studies of yields and excitation functions of low yield photonuclear reactions at low energies and photospallation reactions at high energies.

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. (See below)

MEMBERSHIP ON COMMITTEES:

Department: None

College: Nuclear Engineering Curriculum Committee

University: Radiation Hazards Comm., - Graduate College
           University Safety and Fire Prevention Committee

Technical Societies and Advisory Groups:

None
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, Milwaukee Wisc., June, 1959
Gordon Research Conference on Photonuclear Reactions, Meriden, N. H., August, 1959

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

Research in Progress:
1) Study of Al-27(γ, 2pn)Mg-24 reaction cross section
2) Study of relative yields of In-117 isomers in the Sb-121(γ,x)reaction
3) Study of photospallation reactions on V-51

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.):

Informal lectures on Chemical Processing of Nuclear Fuels to nuclear engineering students, Sprin, 1960.

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

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: John David Jackson

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 _______ percent of a full load in the fall semester and _______ percent in the spring semester. Major projects and areas of specialization are:

High energy and elementary particle physics

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:

Preparation, administration and grading of departmental qualifying examinations
Screening, judging, and corresponding with applicants for research associateships in theoretical nuclear physics
Sitting on preliminary oral examinations

MEMBERSHIP ON COMMITTEES: Advisory Committee (Chairman)
Committee on Graduate Studies and Examinations (Chairman)

Department:

College: None

University: None

Technical Societies and Advisory Groups:

None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society
Canadian Association of Physicists

Attendance at meetings of technical societies:

1959 Inter. Conf. on High Energy Physics, Kiev, USSR, July 15-24(1959)
1960 Annual Meeting, American Physical Society, N. Y., Jan 26-30(1960)

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

Phenomenological studies of K-meson interactions
Theses in progress
Photoproduction of pions from nucleons - J. McKinley
Emission and absorption of nuclear radiations - Harris

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

(with H. W. Wyld, Jr.) Effect of \( K^0 - K^- \) mass difference on \( K^- - N \) interactions at low energies. Nuovo Cimento 13, 85-95(1959)

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.):

None

Other professional activities, including summer work:

Consultant, Physical Research Laboratory, Space Technology Laboratories, Los Angeles, Cal. Writing of textbook on classical electrodynamics at the graduate level.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME __ Darko JAMNIK ______________________ Highest Degree __ Dipl Physics

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 _____ percent of a full load in the fall semester and _____ percent in the spring semester. Major projects and areas of specialization are:

Experimental work with the 22 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:

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:
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Robert S. Knox

Highest Degree: Ph.D.

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 __ 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 in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

See over

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:

Seminar arrangements

MEMBERSHIP ON COMMITTEES:

Department: Solid state seminars

College: None

University: None

Technical Societies and Advisory Groups:

None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society

Attendance at meetings of technical societies:

International symposium on color centers, Corvallis, Oregon, September, 1959.
(Not a technical society meeting)

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

Interpretation of absorption peaks in pure alkali halides; interpretation of photoconductivity and Hall effect in silver halides, mainly AgBr; theory of localized vibrations near imperfections (impurities); theory of autoionization of F-center electrons. (All individual research)

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

Exciton states in crystalline argon. " " 2, 265-80(1959)

Addresses — Title, organization addressed, and date:

"Exciton states in ionic crystals," paper given at Corvallis conference (above).

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:

Consulting with Argonne National Laboratory (6 weeks in summer, randomly in winter); consulting with Zenith Radio Corporation (one week).
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: James S. KOEHLER
Highest Degree: Ph.D.

Academic Rank: 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 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:
- Irradiation damage of solids
- Quenching in of lattice defects
- Dislocation behavior
- Electron microscopy

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: Chairman - Library committee

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

Invited paper - Detroit meeting American Physical Society

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. deWit) Influence of elastic anisotropy on dislocation contribution to elastic constants, Phys. Rev. 116, 1121 (1959)
Internal friction and dislocations. American Society for Metals (October, 1959 - (in Press)

Addresses — Title, organization addressed, and date:

"Present knowledge of irradiation damage in solids," APS, March, 1960 (invited paper)
"Irradiation damage in metals," Battelle Memorial Institute, February, 1960.

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME Louis J. KOESTER, Jr. Highest Degree Ph.D.

Academic Rank Associate Professor Admin. Title

Time devoted to University work according to official appointment: Full Time; %; %; %; %; %; 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:

MEMBERSHIP ON COMMITTEES:

Department: Open House (Chairman) Popular Lectures (Committee-of-one) Qualifying and Proficiency Examinations

College: Open House and Tours

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

  American Physical Society
  Illinois Academy of Science
  Sigma Xi

Attendance at meetings of technical societies:

  Washington meeting of the American Physical Society, April 25-28, 1960
  MURA, Madison Wis., January 8-9, 1960
  Associated Midwest Universities Users Group, Argonne, Illinois, Jan. 15-16, 1960

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

  On Sabbatical leave until Sept. 1. at CERN. While there completed a study of the pion-pion interaction and how to measure it.
  Made an investigation of the stability of nucleons. We performed an experiment which showed the lifetime of protons and neutrons against decay into lighter particles to be at least 100 times greater than had been shown previously.
  At Illinois: correlated pions and protons ejected from helium-4 by x-rays. Initiated as thesis research of Arthur Walker.
  Photodisintegration of helium-3.

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


Addresses — Title, organization addressed, and date:

  "Photoproduction of $\pi^0$ mesons," talk given at the Swiss Federal Institute and at the University of Zurich, Switzerland, July 8, 1959.

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:

  Physical Science Study Committee.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: P. Gerald Kruger

Highest Degree: Ph.D.

Academic Rank: 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: Foreign Languages - German

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. Physical Society meeting, Washington, April, 1960
" " " " New York, Jan., 1960

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

Classified research

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

Classified reports on military problems.

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 1959: Consultant to Stanford Research Inst., but working with a group of physicists at U. of Ill.
Member of Board of Directors of MURA for 1959-60.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Ulrich E. Kruse

Highest Degree: Ph.D.

Academic Rank: Assistant Professor

Admin. Title

Time devoted to University work according to official appointment: 1 Full Time; ¾; 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 ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

High energy nuclear physics

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: Open House

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
  American Physical Society

Attendance at meetings of technical societies:
  Argonne Users Group
  Data retrieval conference, Chicago

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
  In progress: Construction and use of liquid hydrogen bubble chamber
  Completed: Analysis of some K⁻ p interaction (while at UCRL last summer)

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:
  (with M. Nauenberg) Analysis of K⁻ p interactions. UCRL 8888 (1959)

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.):
  Research with Alvarez group at UCRL, summer 1959.

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

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Leo S. Lavatelli

Highest Degree: Ph.D.

Academic Rank: Professor

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 ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

AF 661 — Project Director. Analysis and interpretation of data with digital computers in the field of high energy physics.

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

Advising students
Committee work (see below)

MEMBERSHIP ON COMMITTEES:

Department: Engineering Physics Student Adviser.
Social

College: Exhibits and Tours

University: None

Technical Societies and Advisory Groups:

Departmental liaison for Illinois Junior Academy of Science State Meeting.
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:

Analysis of 915 MeV π⁻p elastic interactions is continuing.

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.):

A great deal of informal counselling of students in Physics 107.

Other professional activities, including summer work:

Argonne Users Group of Associated Midwest Universities, Jan. meeting 1960.
Physical Science Study Committee.
NAME: David LARAVUS

Highest Degree: Ph.D.

Academic Rank: Professor

Time devoted to University work according to official appointment: 100% 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 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

Studies of point defects in 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:

Committees, examinations, student advisory work

MEMBERSHIP ON COMMITTEES:

Department: Social, Assistants and Fellows, Engineering Physics Advisors

College: Lyle Rose Award

University: Graduate College Fellowship

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Fellow, American Physical Society
Sigma Xi

Attendance at meetings of technical societies:

American Physical Society, Detroit meeting, March 1960
American Physical Society, Washington meeting, April May, 1959

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

Continuing research on problems in solid-state physics.
Three thesis students (R. Emrick, C. B. Pierce, J. Mullen) expected to complete Ph.D. this year. Three new students starting research.

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

Diffusion in metals, Progress report to ABC, June 1, 1959.

Addresses — Title, organization addressed, and date:

Co-author of four papers presented at Detroit APS meeting, March, 1960.

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.):

Informal counseling, entertaining students

Other professional activities, including summer work:

Consultant to Phys. Science Study Committee on development of new High School physics course; consultant to CSL. Other consulting.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Franco LEVI

Highest Degree: Libera Docenza

Academic Rank: Research Assistant Professor

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 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 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:

- Italian Physical Society
- Italian Society for Experimental Biology

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:

- Effetti delle radiazioni sui semiconduttori. Energia nucleare 6, 693-95 (1959)

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Edgar L. Fischer

Highest Degree: Ph.D.

Academic Rank: Research 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: None

College: None

University: None

Technical Societies and Advisory Groups:

Colloq. Spectroscopicum International (President)
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society
Physical Society, London
Swiss Physical Society
Society for Applied Optics (Germany)

Attendance at meetings of technical societies:

2nd Conference on Semiconductor Surfaces Dec., 1959 Washington
Symposium on Measurement of High Temperatures March, 1960 Chicago

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

In progress: vacuum spectroscopy; Mössbauer effect; surface physics

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

Spektrographen und Monochromatoren fur die Vakuumspektroskopie. Chimia (Aarau) 13, 277-83(1959)

Addresses — Title, organization addressed, and date:

2 speeches at the 8th Internat. Congress of Spectroscopy.

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:

Organization of the 8th International Congress on Spectroscopy in Lucerne 1959.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Harry Lustig

Highest Degree: Ph.D.

Academic Rank: Visiting Research Assistant Prof.

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:

Theoretical nuclear physics

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:

American Physical Society
Sigma Xi
Phi Beta Kappa
Fed. of American Scientists

Attendance at meetings of technical societies:

Meetings of APS at Cleveland, New York, Washington
Midwest Conf. on Theoretical Physics (Purdue)

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

(See publications, plus the following, still in progress:)

1. General derivation of average reaction and scattering cross section
2. Preparation of pedagogical review paper on the Mössbauer effect (for American J. of Physics)

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

1. Inelastic scattering of neutrons by beryllium. NDA Rept. Phys. 605, August 1959.

2. Angular distribution of neutrons elastically scattered by U-238. NDA Rept. 725 Dept 1959


4. (with E. S. Troubetzkay and M. H. Kalos) Fast neutron cross sections of Fe, Si, Al, and


Addresses — Title, organization addressed, and date:

Many talks to church groups, PTA's, etc., on nuclear policy, dangers of nuclear war, radiation and related topics. (Spring and Summer, 1959)

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 at Nuclear Development Corp. of Am.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Ernest M. Lyman

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title

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

\[
\begin{align*}
\text{Time} & \quad \text{Fraction} \\
\text{1/2} & \quad \text{1/4} \\
\text{1/4} & \quad \text{1/4} \\
\text{1/4} & \quad \text{1/4} \\
\end{align*}
\]

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:

- Engineering Physics Curriculum Advisor
- Supervision of lecture and laboratory nonacademic assistants

MEMBERSHIP ON COMMITTEES:

Department:
- Undergraduate Studies
- Engineering Physics Advisory
- General Physics Lecture Apparatus

College: Placement

University: Senate Budget

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society
American Association of Physics Teachers
Sigma Xi
AAUP

Attendance at meetings of technical societies:

Argonne Accelerator Users Group: Meetings in June 1959 and January 1960
MURA July, 1959
American Physical Society, Washington meeting, May 1959

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

Research in CSL on high voltage breakdown in high vacuum.

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


Addresses — Title, organization addressed, and date:

"Particle Separators", Argonne Users Group, June 6, 1959.

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:

Consulting for summer with Stanford Research Institute; Consulting for Argonne Accelerator Division.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME  Dillon E. MAPOTHER  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;
— 1/8; — 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:

Student advising, University Liquid Nitrogen Service, Academic Freedom Committee of AAUP Chapter (practically a full-time job the last 3 months), miscellaneous problems in labor relations (very time consuming)

MEMBERSHIP ON COMMITTEES:

Department:  Machine Shop and Drafting, Safety, Liquid Helium Service

College:  Committee to negotiate with Laboratory Mechanics

University:  Patent Committee, University Fellowship Committee

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society, American Association of Physics Teachers, Sigma Xi, AAUP

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:

Reexamination of isotope effect in supercond. Pb; Parabolic deviations in critical field curves of Hg, In, Sn, and T; Hysteretic effects in supercond. transition in Pb; Calorimetric study of effect of precip. hardening in superconducting Al; He3 refrigerator (in progress); Electronic specific heats in superconductors (in progress); Thermal conductivity of superconducting Pb (in progress).

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


Addresses — Title, organization addressed, and date:

Lectures on current status of experimental superconductivity at the following places: Büttinger University, July 1959; Corfu Summer School, July 1959; U. of I. Metallurgy Colloq. and Argonne National Lab. December, 1959.

Paper on parabolic deviations of superconductors, also paper on isotope effect, Detroit Meeting APS, March 1960.

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.):

Student advising, talk on academic freedom to McKinley Foundation Grad. Students

Other professional activities, including summer work:

Probably my augen labors on behalf of academic freedom for the AAUP should be recorded here.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Taizo MASUMI  

Highest Degree: Ph.D.

Academic Rank: Research Associate  

Admin. Title: ____________________________

Time devoted to University work according to official appointment:  

1. Full Time;  
2. 3/4;  
3. 2/3;  
4. 1/2;  
5. 1/4;  
6. ___ 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:

Electronic properties of ionic crystals

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: None

College: None

University: None

Technical Societies and Advisory Groups: None
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: Robert Joseph Maurer

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title: Acting Associate Head

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: Building; Graduate Students and Exams; Library; Qualifying and Proficiency Exams

College: Long-Range Plans; Teaching Improvement; Student-Faculty Liaison

University: (Solid State Advisory Panel, ONR)
(Solid State Advisory Committee, OSR)
(Committee, Advisory to OOR, National Research Council)
(Advisory Screening Committee, Committee on International Exchange of Persons, National Research Council)

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Fellow, American Physical Society

Attendance at meetings of technical societies:

American Physical Society, Detroit, Michigan, March 21-24, 1960

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

With Dr. F. Fischer: Fundamental absorption in alkali halides.
With Dr. J. Cape: V centers in alkali halides.
With Mr. H. Rockstad: Growth of alkali halide crystals.
J. Robe, Ph.D. Thesis: Photoconductivity in KBr.

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

Addresses — Title, organization addressed, and date:

Color Centers in Alkali Halides, International Symposium on Color Centers, Oregon State College, Corvallis, Oregon, September, 1959

Color Centers in Alkali Halides, Westinghouse Research Laboratory, Pittsburgh, Penn., April 14, 1960

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: Monsanto Chemical Co.; A. O. Smith Company; Naval Ordnance Laboratory; Naval Research Laboratory.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Mark H. McDermott

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:

- Spins and moments of radionuclides by optical orientation
- Atomic beams magnetic 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:

Department: None

College: None

University: None

Technical Societies and Advisory Groups:

None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Ph.D. Columbia University 1959

Membership in technical societies and fraternities:

American Physical Society

Attendance at meetings of technical societies:

American Physical Society, New York Meeting, January 1960

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

Spins and moments of radionuclei by optical orientation

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

Hyperfine structure of $^{199}\text{Hg}$ and $^{201}\text{Hg}$; properties of metastable states of mercury. Phys Rev 119 (in Press)

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.):

Informal student seminar, first semester

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

NAME: Robert Lee MIEHER

Academic Rank: Research Associate

Highest Degree: Ph.D.

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 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: None

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Ph.D. University of Illinois

Membership in technical societies and fraternities:

American Physical Society
Institute of Radio Engineers

Attendance at meetings of technical societies:

Detroit meeting of American Physical Society, March 1960

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

Nuclear and electron spin resonance

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

Nuclear relaxation via quadrupole coupling, Phys. Rev. Letters 4, 57(1960)

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Allan H. Miller
Highest Degree: Ph.D.

Academic Rank: Research Associate
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 ______ 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:

Solid state physics

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: None

College: None

University: None

Technical Societies and Advisory Groups:

None
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:

Detroit Meeting, American Physical Society, March, 1960

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

Superfluidity

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


Addresses — Title, organization addressed, and date:

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
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Kaushik NISHIJIMA

Highest Degree: Ph.D. (equivalent)

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 ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

Theoretical nuclear physics

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: None

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
- American Physical Society
- Physical Society of Japan

Attendance at meetings of technical societies:

1960 Midwestern Conference on Theoretical Physics, April 1,2 Purdue Univ.

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

Quantum Theory of Fields
(1) Asymptotic conditions and perturbation theory (paper written for publication)
(2) Application of the first (graduate thesis for M. Muraskin)

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: Arnold NORDECK

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title:

Time devoted to University work according to official appointment: Full Time; \( \frac{3}{4} \); \( \frac{2}{3} \); \( \frac{1}{2} \); \( \frac{1}{3} \); \( \frac{1}{4} \); Time. 50% CSL, 50% Physics Department

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:

- Kinetic theory of gases
- Statistical mechanics
- Quantum theory
- Classical electrodynamics

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: Computing machines, graduate school

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:

None

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

Classified research

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

Classified reports

Addresses — Title, organization addressed, and date:

Many talks, all classified

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: Robert Novick

Highest Degree: Ph.D.

Academic Rank: Associate Professor

Admin. Title:

Time devoted to University work according to official appointment: Full Time; % ; % ; % ; % ; % 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:

I. Optical orientation of atoms

II. Study of the interaction of atomic ions with crystalline surfaces

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: Qualifying Examination; Engineering Physics Advisor

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:
- American Physical Society
- Tau Beta Pi
- Institute of Radio Engineers
- AAUP
- Sigma Xi

Attendance at meetings of technical societies:
- Ann Arbor Conference on Optical Pumping

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
1. Spin exchange orientation of nitrogen atoms, Mr. W. W. Holloway
2. Optical orientation of ions, Mr. J. DeFord
3. Optical orientation of radioactive atoms, Mr. W. Bauer and Mr. D. Trimmer.
4. Optical orientation of isomeric nuclei, Mr. N. Stein.
5. Development of dispersion filters, Miss A. Summerbell

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 to Brookhaven National Laboratory.
- Physicist, Brookhaven National Laboratory, August 1959.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: James S. O'Connell

Highest Degree: M.S.

Academic Rank: Research Associate

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:

Photonuclear reactions: development of photon monochrometer

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: 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:

Gordon Conference on Photonuclear Reactions, Meriden, N. H., August 1959

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

Completed experimental part of thesis research

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


Addresses — Title, organization addressed, and date:

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:
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF    PHYSICS    

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME    Roy Norman PEACOCK    Highest Degree    Ph.D.

Academic Rank    Research Assistant Professor    Admin. Title

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    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:

Surface physics

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

College:    None

University:    None

Technical Societies and Advisory Groups:    None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Attendance at meetings of technical societies:

2nd Conference on Semiconductor Surfaces  Dec., 1959, Washington

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

Surface physics
Mössbauer scattering

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


Addresses — Title, organization addressed, and date: Letters (In Press) (1960)

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: David PINES

Highest Degree: Ph.D.

Academic Rank: Professor of Physics and Electrical Engineering

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

MEMBERSHIP ON COMMITTEES: Physics: Foreign Language - French

Colloquium

Department:

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
- 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:

Research in progress on various aspects of the many-body problem, including the theory of plasmas, the intermediate density electron gas, superconductivity, and superfluidity.

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: David Geoffrey RAVENHALL  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;  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:

Theoretical nuclear physics

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 Committee; Computer Service Committee; Advisory 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:

Research completed this year or in progress, including individual research, supervision of graduate theses, and research aimed at improvement of teaching:
  Work on atomic spin-exchange collisions, and final-state interaction effects in electron excitation of hydrogen, completed.
  Scattering of K^- mesons by emulsion nuclei, and general high-energy scattering (in progress).

Publications — Co-author, Title, Journal or Publisher, Volume, Page, and Date; including reports prepared for limited distribution:
  None

Addresses — Title, organization addressed, and date:
  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:
  Consultant on the Physical Science Study Committee's program for a high school physics text. (NSFoundation)
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Sergio RODRIGUEZ

Academic Rank: Research Assistant Professor

Highest Degree: Ph.D.

Time devoted to University work according to official appointment: x Full Time; 3/4; 1/2; 1/2; 1/2 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: None

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

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 temperature behavior of an ideal anti-ferromagnet
2. Scattering of slow neutrons by magnetic crystals

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

1. Electrodynamics of charge carriers of negative effective mass in crystals, Phys. Rev. 115, 821 (1959)
2. Linear antiferromagnetic chain, Phys. Rev. 116, 1474 (1959)

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, C. S.  Highest Degree: Ph.D.

Academic Rank: Research 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:

Major project: Precise measurement of photoproduction of positive pions from hydrogen.

Areas of specialization: Meson physics, accelerators, scintillation counters, electronics, magnets.

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:

Supervision of 300 Mev Betatron; improvement program for 300 Mev Betatron; miscellaneous semi-technical and non-technical duties relating to the Betatron Laboratory, such as personnel matters and planning of improvements or additions.

MEMBERSHIP ON COMMITTEES:

Department: Assistants and Fellows; Safety; Freshman advisers.

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society; Illinois State Academy of Science

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:

In progress: Precise measurement of photoproduction of positive pions from hydrogen (with P. M. Baum)

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:

Study of Russian language (3 courses completed)
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: J. Robert Schrieffer

Highest Degree: Ph.D.

Academic Rank: Assistant Professor

Time devoted to University work according to official appointment: √ Full Time; ¾; ½; ¼; ⅛; 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: Computer services

College: None

University: None

Technical Societies and Advisory Groups: None
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

American Physical Society

Attendance at meetings of technical societies:


Midwest Conference in Theoretical Physics at Purdue, April 1960

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

Coherent and incoherent processes in plasmas.
Collective excitation in superconductors
Two stream instability in electron-hole plasmas.

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 work: General Atomic, LaJolla, Calif. 1959. Work carried out on the theory of plasma instabilities in semiconductors. Also, theoretical work on thermoelectric effects in gaseous and solid state devices.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Bert SCHROER

Highest Degree: Dipl. Phys.

Academic Rank: Research Associate

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 ______ 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:

Theoretical nuclear physics

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:

Midwest Conference on Theoretical Physics, Lafayette, Indiana April 1-2, 1960

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

With Professor Haag and Dr. Araki, study of the mathematical foundations of quantum field theory and the use of functional integration as an approximation method.

Study of the analytical properties of scattering amplitudes.

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

None

Addresses — Title, organization addressed, and date:

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
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Theodore D. Schultz

Highest Degree: Ph.D.

Academic Rank: Research Assistant Professor

Admin. Title: ____________________________

Time devoted to University work according to official appointment: X Full Time; __3/4; __2/3; __3/4; __1/2; __3/4; __1/2; _______ 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:

See over

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:

American Physical Society
Sigma Xi

Attendance at meetings of technical societies:

American Physical Society meeting, New York, January 1960

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

1) Optical absorption in alkali halides (indirect transition)
2) Antiferromagnetism.
3) Recombination in semiconductors

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: Frederick SEITZ

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title: Head, Physics Department

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

On leave of absence, academic year 1959/60 CERN NATO

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:
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME      Roger Shaw
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:

See over

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:  None
Department:
College:
University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Ph.D. in Physics, University of Illinois

Membership in technical societies and fraternities:

American Physical Society

Attendance at meetings of technical societies:

American Physical Society, March meeting at Detroit, 1960

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

Superconducting critical field measurements on mercury, tin, indium and tantalum
Isotope effect in superconducting lead.

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


Addresses—Title, organization addressed, and date:

"Irreversibility in the superconducting transition of lead," Dept. of Physics, U. of Ill., October 16, 1959.


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.):

Considerable informal counseling and entertaining of students.

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

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Chalmers W. SHERWIN

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title: Assoc. Director CSL

Time devoted to University work according to official appointment:  x Full Time; 3/4; 2/5; 1/2; 1/5; 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:

  Nuclear physics
  Electronics  )  see publications

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

  CSL administrative tasks

MEMBERSHIP ON COMMITTEES:

Department: Orientation Lectures, Qualifying Examination, Engineering Physics Advisers

College:

University:

Technical Societies and Advisory Groups:

  Scientific Advisory Board to Chief of Staff, USAF
  Board of Consultants, Convair
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:

- Electromagnetic mass and the inertial properties of nuclei, with R. D. Rawcliffe, CSL Report I-92

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: Ralph O. SIMMONS
Highest Degree: Ph.D.

Academic Rank: Assistant 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 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:

- Imperfections in crystalline solids
- Radiation damage

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:

- Engineering Freshman Adviser
- Committee work

MEMBERSHIP ON COMMITTEES:

Department:
- Advisory
- Assistants and Fellows

College:
- Student English

University:
- Senate Committee on Rhodes Scholarships

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
Phi Beta Kappa
Pi Mu Epsilon

Attendance at meetings of technical societies:

APS Meeting, March 21-24, Detroit, 1959.

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

Completed: See publication list


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: James H. SMITH
Highest Degree: Ph.D.

Academic Rank: Associate 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 ________ percent of a full load in the fall semester and ________ percent in the spring semester. Major projects and areas of specialization are:
See over

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 and counselling students

MEMBERSHIP ON COMMITTEES:

Department: Engineering Physics Advisers (Chairman)
Undergraduate Studies

College: Petitions and Records
Scholarship

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:
   Washington APS meeting, May 1, 1959
   Gordon Conference on Photonuclear Reactions, Meriden N. H., August 1959

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

   Research in progress on high energy photonuclear effect with and without meson production and polarization of neutrons from the photodisintegration of deuterium. These projects involve supervision of three Ph.D. thesis projects.

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

   None

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:
   Consulting for Educational Services Inc. on High School physics teaching problems.
   Taught an NSF Institute for High School physics teachers at Immaculate Heart College, Los Angeles, Summer 1959.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Charles P. SLICHTER

Highest Degree: Ph.D.

Academic Rank: Professor

Admin. Title:

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

MEMBERSHIP ON COMMITTEES:

Department:
- Undergraduate curriculum, Chm.
- LAS Physics
- Qualifying Examinations

College:
- Policy and Development

University:
- Research Board

Technical Societies and Advisory Groups:
- Board of Editors, the Physical Review; Executive Committee, Division of Solid State Physics of the American Physical Society
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

Fellow, American Physical Society

Attendance at meetings of technical societies:

American Physical Society

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

Doctoral research is underway or completed by R. L. Mieher, W. W. Simmons, W. Holton H. Blum, J. Garth, D. Ailion, J. Bushnell, N. Fernelius, F. Lurie. Two theses were completed (by R. L. Mieher, W. W. Simmons)

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 research at the Univ. of Illinois, Contributor to work of the Physical Science Study Committee (preparing a new high school physics course); Consultant, The Texas Instrument Co.
UNIVERSITY OF ILLINOIS
COLLEGE OF ENGINEERING — DEPARTMENT OF PHYSICS

May 1, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: James H. Snyder

Highest Degree: Ph.D.

Academic Rank: Research Professor

Time devoted to University work according to official appointment: ______ Full Time; ______ ¾; ______ ⅔; ______ 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.)

Administration

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:

Administer ILLIAC

MEMBERSHIP ON COMMITTEES:

Department:

College:

University: Data Processing Committee
Applied Mathematics Committee

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Membership in technical societies and fraternities:

- American Physical Society
- Association for Computing Machinery
- American Society for Engineering Education
- Pi Mu Epsilon, Phi Beta Kappa, 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:

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


Addresses — Title, organization addressed, and date:

- Midwest University Computer Group, Chicago, April 1960.

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: William A. Steiert, Jr.                                      Highest Degree: Ph.D.

Academic Rank: Research Associate                                      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 ______ 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:  None

Department:

College:

University:

Technical Societies and Advisory Groups:
PROFESSIONAL ACTIVITIES:

New degree, and name of institution granting:

Ph.D. California Institute of Technology

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:

In progress: low temperature measurements on liquid helium three

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

None

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: Albert WATTENBERG

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 ______ 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:

High energy nuclear physics

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 energy seminars

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:

Magnetic moment of the lambda
Compton effect on the deuteron

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


(with Ozaki, Weinstein, Glass, Loh, Niemela) 28 capture and nuclear pair correlations.


Addresses — Title, organization addressed, and date:


"High energy photoeffect," Nuclear seminar, Univ. of Illinois.

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, 1959: Visiting Professor, Univ. of Calif. at Berkeley. Quantum Mechanics.
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: John C. WHEATLEY
Highest Degree: Ph.D.

Academic Rank: Associate Professor

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 percent of a full load in the fall semester and percent in the spring semester. Major projects and areas of specialization are:

Major area: Low temperature physics
Projects: Properties of liquid helium three Magnetism in crystals Nuclear properties of metals

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

Committee work
Student counselling

MEMBERSHIP ON COMMITTEES:
Department: Machine shop, drafting; class schedules; open house (chm.); engineering physics advisers; proficiency examinations.

College: Program

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) Self diffusion and susceptibility of $\text{He}_3^3$ - Thesis: H. R. Hart, Jr.
2) Thermal conductivity of $\text{He}_3^3$.
3) Specific heat of $\text{He}_3^3$.
4) Magnetic properties of rare earth ethyl sulfates.
5) Free precession in copper and aluminum.

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

(with H. R. Hart, Jr.) Self diffusion in liquid $\text{He}_3^3$. Phys. Rev. Letters $\frac{1}{4}$, 1 (1960)

(with G. L. Salinger) Nuclear precession in metallic copper at temperatures below $10^\circ$K. Report to AEC, 2/25/60.

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: George Whitfield

Highest Degree: Ph.D.

Academic Rank: Research Associate

Time devoted to University work according to official appointment: Full Time; ¾; ¾; ½; 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 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

Solid state. See over

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: None

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

Attendance at meetings of technical societies:

Washington meeting of American Physical Society, April 25-28, 1960

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

Theory of electron phonon interactions in non-polar semiconductors

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, 1959 to April 30, 1960

RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Robert L. Wild

Highest Degree: Ph.D.

Academic Rank: Visiting NSF Fellow

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:

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: H. W. WYLD, Jr.  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 ______ percent of a full load in the fall semester and ______ percent in the spring semester. Major projects and areas of specialization are:

Theoretical nuclear physics. See over.

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: Theoretical seminar, qualifying examination, LAS adviser

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
   Sigma Xi

Attendance at meetings of technical societies:
   New York meeting of American Physical Society
   Midwest Conference on Theoretical Physics (Purdue University)

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

1. Radiation by plasma oscillations in a bounded plasma in a magnetic field (to be published in Physics of Fluids).
2. Longitudinal plasma oscillations in an electric field. (in press)
4. Supervision of research by graduate student, T. S. Yoon, on decay of bound mu mesons.

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

(with J. D. Jackson) Effect of $K^0-K^-$ mass difference on $K^-N$ interactions at low energies. Nuovo Cimento 13, 85-95 (1952)

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:
   Consulting for Space Technology Laboratories, Los Angeles, Calif, Summer 1959.
   Papers listed above as 1) and 2) were completed this year and written at Space Tech. Lab.
   Research
RECORD OF TEACHING, ADMINISTRATION, RESEARCH, AND GENERAL ACTIVITIES

NAME: Marvin E. Wyman

Highest Degree: Ph.D.

Academic Rank: Professor of Physics and Nuclear 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 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 30 clock hours per week. The principal time-consuming duties are:

MEMBERSHIP ON COMMITTEES:

Department: Open House

College: Nuclear Engineering
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
   American Association of Physics Teachers
   Sigma Xi
   American Nuclear Society

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:

MS thesis on graphite subcriticals

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.):

Entertained nuclear engineering students

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

NAME: Avivi I. Yavin

Highest Degree: Ph.D.

Academic Rank: Research 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 100 percent of a full load in the fall semester and 100 percent in the spring semester. Major projects and areas of specialization are:

- Cyclotron rebuilding project
- Research in nuclear physics, in magnet problems and in solid state detectors for charged particles

OTHER DUTIES:

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

- Acting director of cyclotron laboratory (second semester)

MEMBERSHIP ON COMMITTEES:

Department: Open house

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:

1. Injection from a cyclotron
2. Solid state detectors
3. Supervision of students designing experiments for cyclotron
4. Cyclotron performance

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


Addresses — Title, organization addressed, and date:

(In press)

(on the advisability of injections from a cyclotron. MURA Report 496 August 10, 1959.

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.):

Entertaining students at home

Other professional activities, including summer work:

One month at MURA, Madison, Wis., summer 1959
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