President's Report Explains Policies of Institute

(Editor's note: The Armour Tech News at this time presents the first portion of the first general report presented by Dr. Willard E. Hotchkiss to the Board of Trustees since he took office in January, 1933. This portion of the report covers the legal steps taken in the reorganization of the Institute, the findings of the Mc-Kinsey Study of Armour's problems, and the changes in curriculum and personnel which were an outgrowth of this study. In next week's issue, we will present the second half of the president's report, which deals with the financial standing of the Institute, the plans for a future site and plant, the future position of the institution in the Chicago area, and the administration's policy of student loans and scholarships.)

The constitution and by-laws adopted on June 1, 1934, provide that the President shall make an Annual Report to the Board of Trustees.

The present administration of the Institute took office in January, 1933. The legal, educational, administrative, and financial developments since that time constitute an interwoven sequence. This report, therefrom January, 1933, to the end of the academic and fiscal year just closed.

Mission, Institute Consolidated

The legal status of the Institute and its properties has been greatly clarified during this time. Able and untiring efforts of the late Lester L. Falk so far untangled a maze of legal relationships between Armour Mission and Armour Institute of Technology that on October 25, 1933, the two Boards of Trustees were in a position to vote a merger of the corporations under the name of Armour Institute of Technology. On April 6, 1934, after some unavoidable delay, the merger was finally consummated.

When it appeared early in 1934 that the operating deficit in last year's budget would not be met by contributions it became imperative to release trust funds for this purpose. Conference was had with Mr. John E. MacLeish and Mr. Homer H. Cooper of Scott, MacLeish and Falk, of which firm Mr. Falk had been a partner, and the services of Mr. Cooper as general counsel were generously made available without cost to the Institute. As such, he at once undertook a comprehensive legal analysis of all the properties which the present Armour Institute of Technology had acquired through the merger with Armour Mission and otherwise. His findings were embodied in an extensive brief upon the basis of which Judge Hugo Friend of the Circuit Court of Cook County entered a favorable decree on August 9, 1934. This decree accomplished the following results:

- 1. It confirmed the acts of the Boards of Trustees of Armour Mission and Armour Institute of Technology, and the consolidation of those two corporations.
- 2. It authorized the new corporation to negotiate for disposition of and give clear title to certain real estate under the direction of the court.
- 3. It permitted the sale or hypothecation of securities in restricted endowment funds up to \$100,000 for the purpose of meeting the uncovered deficit in the 1933-34 budget under the Institute's undertaking to restore the fund when able.

Contributions

amount of legal detail involved in bring. preparing the brief and carrying the suit through the court and the extra- From the standpoint of the type ordinary wisdom with which Mr. of school Armour is and has been. Cooper handled the whole proceed- and of necessary financial and time ings places his contribution, to- limitations, it appears that Argether with that of the late Mr. mour in common with many other Falk, in a unique position and engineering schools has had a tendmakes it in both dollars and moral ency to overload some of its curvalue easily the outstanding contri- ricula with useful but somewhat spebution of the academic year just cialized subjects which are expensive closed.

Another contribution of excep- sive, too many such subjects limit

tional value to the Institute during | unduly the time available for basic the past fiscal year was the gift of \$2500 from a friend of long standing to cover the cost of the Survey | are recognized as indispensable. For by James O. McKinsey and Com- the most part, specialization can be pany, authorized soon after the presen administration assumed office. graduate work or in industrial and Due to the fact that Mr. McKinsey | engineering research laboratories. contributed his own services to the value of several thousand dollars from this gift available for general expenses. There were also sevshort of meeting the need.

from January, 1933, payments of previous pledges, should also be retive changes.

Survey Findings

In January, 1933, when the new fore, will cover the whole period | administration took up its duties the Development Committee, created and given large powers by resolution of the Board of Trustees on September 4, 1931, had just completed an extensive survey of Engineering Education. This study out ing carried on by certain members of which had evolved the so-called of the faculty with the use of In-Armour Development Plan had not concerned itself primarily with internal conditions at Armour. The McKinsey Study, of which mention for industry and for the advance of has just been made, constituted engineering science, and there is no among other things, a re-examination of the Armour Plan directed especially toward the solution of pressing problems with which the Institute was immediately confronted. The Study was carried on | inate the teacher's interests nor to in close co-operation with the ad- conflict directly or indirectly with ministration and the staff.

> to practical measures would have to take account of the historical background of the Institute and of the nature and quality of the service which it had rendered in the past. Out of this background there has come an accumulated good-will reflected in a flow of qualified applicants for admission from year to research to its credit, its immediate year which has meant an actual at- contribution must lie first in the tendance of upwards of 800 stu- soundness of its curriculum, the dents and an unquestioned poten- quality of its teaching, and in the tial attendance considerably great- offectiveness of its administration. er. The Survey naturally explored Its present task is to maintain exways and means of consolidating this | cellence in these lines without easy good-will.

> wisdom required to define, much less the period covered by this report, to standardize, the art of good and for some time prior thereto, has teaching or even good administra- been one of crisis, and crisis forces tion, the Survey considered man by retrenchment. But here again our man the personnel of the teaching situation differs from that of most and administrative staffs, primarily | American colleges, if at all, only in from the standpoint of the service degree and not in kind, and rewhich each person was in a position | trenchment frequently becomes to render the Institute, both indi- stimulus to improvement. vidually and as a member of a working team. Similar consideration was given to questions of curriculum.

Although there were several features of the so-called Development Plan which were based upon an abstract approach considerably different from the path of Armour's past development, the present administration proceeded from the premise that for some time to come the Institu'e will continue in all essentials to be the same type of school it has been heretofore. This premise assumes a four-year undergraduate College of Engineering and Architecture in which students are given opportunity to qualify as beginning These proceedings, in which the practitioners in their professions, heirs of the late Philip D. Armour and at the same time are able to seco-operated generously, enabled the cure such fundamental education as Institute to meet a current emerg- will promote their growth and aid ency and to carry on while bringing | them in discharging whatever reoperating income and expense more sponsibilities their native talents, nearly into balance. The vast training and opportunities may

> Study Shows Over-Specialization to maintain. Besides being expen-

subects, which in all competent discussion of engineering education more profitably carried on either as

Some Subjects Substandard Another weakness which the Surthere was a residue of some \$800 | vey revealed was also one widely prevalent in American education. It arose from the fact that the organeral contributions of \$1000 and a ization and teaching of certain imconsiderable number of \$500 but as | portant subjects had not kept pace indicated above, the total fell far with the times, nor with standards recognized as essential for an out-Since this report covers the period standing engineering school. Without implication of criticising indisome \$45,000, made between Janu- viduals, this appeared to be notably ary and June, 1933, in fulfillment of | true in English, in the Social Sciences and in Shop Courses. Considering corded. These payments were ap- the question of teaching as a whole plied to the operating deficit of the it is believed that our discoveries year 1932-33. Further discussion of also ran true to form for colleges finances will follow references to generally. Some teaching of excepcertain educational and administra- tionally high order was found, a preponderance of good teaching, and some very poor teaching. Substantially the same thing can be said in respect to internal administration.

In addition to the problems directly connected with teaching, administrative personnel and curriculum. the new administration found i necessary to consider almost immediately a closely related question arising out of the research and teststitute equipment. It is the policy of the Institute to encourage its teaching staff to undertake research occasion to define research in a narl row or highly restricted sense. It is, however, highly essential that any pecuniary features of work done for industry be not permitted to domhis teaching obligations. It is also Study Covers Personnel, Curriculum of course axiomatic from a business It was obvious that any approach standpoint that the school in all such cases receive adequate consideration for the wear and tear on its equipment. If work that is not strictly research is done, prices charged for it should, in fairness, be higher than commercial prices.

Sound Teaching is First Thought While Armour has much important access to great resources. Armour's Without arrogating to itself the problem now, its problem during all Curriculum and Personnel Adjustments

From this background it is possible to take stock of the various adjustments in curriculum and personnel that have taken place since January, 1933. The first major adjustment was assumption of jurisdiction by the Institute over all research and testing activity in which Institute equipment is employed. This action of course had the effect of abrogating contracts and undertakings based on any different concept. The change affected both the relationships between the Institute and faculty members who do work of this kind and the mutual relationships between such faculty members themselves. There are a num ber of details in connection with previous arrangements which it is not necessary to rehearse, but the principal effect of the change was to place a new emphasis upon the obligations to the Institute which faculty members assume in carrying on engineering work for industry with Institute equipment.

Finnegan to Coordinate Research In order to make a consistent policy effective, Professor Joseph B Finnegan was appointed Director of Research and Testing, and given specific instructions including the following items:

1. All arrangements concerning research, testing and consulting activity by members of the faculty, in which the use of Institute equipment is a factor, are to be made a matter of record with the Director of Research and Testing.

2. The Director of Research and Testing is responsible for insuring payment to the Institute of an amount adequate to cover the wear and tear on Institute equipment in connection with such activities.

The Director of Research and testing, the Dean, and the Direcare jointly responsible for scheduling research and testing activity by members of the faculty so as to avoid conflict with teaching and other obligations to the Institute.

4. The Director is advised that it is the policy of the Institute, in harmony with the above provisions, to encourage members of the faculty to carry on research in cooperation with industry.

5. The Director is instructed to coing the scope of the industrial research program, always in harmony with the policies set forth in paragraphs one, two and three, above.

justified the present approach to with business and engineering 615. Eight full-time and five partal and a financial piont of view. With | year to a study of business policy |

the revival of industry it is believed that a program of engineering engineer. In the course of this research in cooperation with industry will become an increasingly important part of Institute activity.

Conduct Survey of Shop Courses

The second major adjustment o the new administration was a temporary suspension of Shop Courses. While this action was taken under the pressure of financial necessity and reduced immediate expenses nearly \$20,000, its justification rests primarily upon educational grounds. Looking toward early re-estab-

lishment of Shop Courses, a comprehensive investigation to ascertain the most advantageous set-up of such courses was at once undertaken by a faculty committee with Professor Joseph B. Finnegan as chairman and Professor Philip C Huntly as vice-chairman. The re port of this committee is a document of which the Institute has reason to be proud; its publication at an early date is contemplated. Shop courses in conformity with the recommendations of this report will be started as soon as the exigencies of the budget permit; provision for them is the next item in our educational program. It is to be hoped that the new courses can be instituted early enough so that no student will have graduated from Armour without having the benefit of shop work.

Enlarge English Department It will be recalled that English was also mentioned as a subject in which the McKinsey Report report revealed that instruction was not up-to-date. Much of the English offered was estimable but it was not well articulated nor was the required work adequate in amount. Although one member of the English staff was retired last year and one this year, a third member has had the scope for his talents enlarged and two highly competent instructors have been added to the staff with a net saving of \$2600. The more pertinent to student need and its amount nearly doubled. Even the present amount is close to the minimum recognized by the Society for the Promotion of Engineering Education.

Correlate Business, Engineering In Social Sciences the problem was more complex. Difficulty arose in part from a tendency of engieering students to regard non-engieering work lightly, in part from alumni and colleagues alike, has had operate with members of the fac- heavy schedules and in part from to be retired for disability. ulty and with industry in enlarg- the rather casual way in which Social Science courses had previously gone to better paying positions, six been embodied in the curriculum. teachers were released by suspen-Prolonged deliberation led to the sion of Shop Courses, and readjustpresent organization of work in this | ments following the McKinsey field. Instruction now aims to em- Study displaced fifteen others. Five Research to be Increasingly Vital | phasize the relationship of subject- | men previously on full time are now Experience of more than a year | matter to the actual work of an engi- | on part time. The reduction in pay under the new orientation has amply | neer. To this end, the courses start | roll from the above changes is \$86,this subject both from an education- problems and proceed in the senior time men have been added to the

and public policy as they affect the study, the student is introduced to such subjects as accounting and cost finding, principles of industrial management, and elements of economics and finance. After a careful survey of results in numerous engineering schools the traditional course in general economics has been omitted.

Social Science Study Increased

While work in the Social Sciences as now offered is of such a nature that no thoughtful engineer or engineering student can fail to recognize its necessary place in engineering education, it has not been the purpose to set up the Social Science courses on any narrow breadand-butter basis any more than the fundamental science and engineering courses are on that basis. Elective courses in History and Political Science have been retained, and other elective courses will be offered to as great an extent as budget and schedule limitations permit. The total amount of required work in the Social Sciences is fifteen semester hours, or roughly double the number prior to the academic year 1933-34.

In the case of Social Sciences it has not been possible as it was in Shop Courses and English to realize any immediate or ultimate saving. On the contrary, there was an increase of some \$8500 in the cost of instruction in this field, which amount has been materially reduced by changes this year.

Faculty Changes Made

The faculty as a whole has undergone considerable change during the past two years.

At the beginning of the present school year it lost one of its highly esteemed members, Professor Van Bauman Teach of the Department of Mathematics, who was taken by death on September 8, 1934.

Dr. George L. Scherger, whose cosmopolitan versatility has made tors and Chairmen of departments organization and content of the him a prominent figure in Chicago work has been improved and made life, has been granted a leave of absence from his service as Chaplain and Professor of History and Political Science, in order that he may devote his full time during the current year to the pastorate of St. Paul's Church with which he has been long associated.

Professor Charles W. Leigh, whose fine culture, comradeship and distinction as teacher and scholar have made him beloved by students,

Two members of the faculty have (Continued on page 5)

SOCIETY IS SLOWLY RISING

TYPE WHICH IS CALLED THE

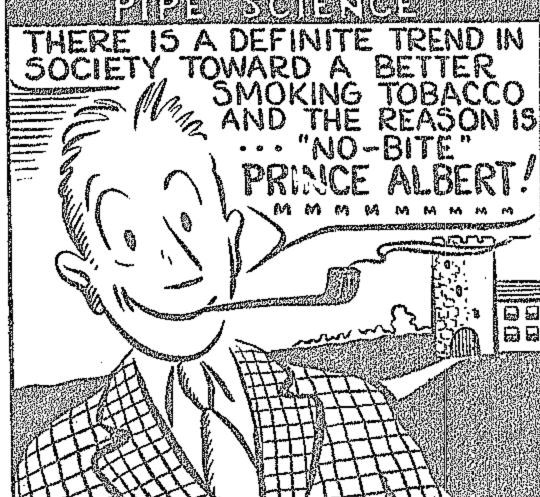
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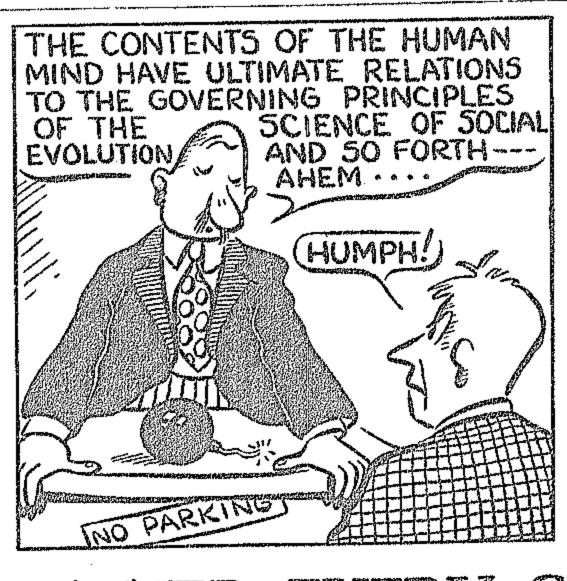
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