EDITORIAL

The Editorial Committee of the Forestry Club presents to the public this, the second issue of its journal. In the first number it was stated that the journal intended in future issues to extend the range of technical articles, and to publish the researches conducted by the School. An attempt has been made in this issue to fulfil that promise, and the bulk of the matter herewith presented is composed of original articles embodying the result of investigations by members of the club.

A compliment was paid to the first issue by the "Press," which, in an article devoted to the School of Forestry, stated that "the usefulness of this journal is as real and as remarkable as the fact that it exists." We hope, therefore, that the reception so cordially given to the first number will be extended to the second, and that the journal will prove a medium of information worthy of the name "Te Kura Ngahere"—"The Sacred Lore of the Forest."

THE SCHOOL OF FORESTRY

COURSES OF STUDY IN FORESTRY.

For the benefit of those readers, particularly prospective students in forestry, who did not see the previous issue of this journal, it is repeated that the Canterbury College School of Forestry offers three distinct courses in forestry training to suit the needs of the three classes of men likely to attend for instruction in subjects for this profession. These three courses are the Degree, the Associate, and the Ranger courses.

The Degree course is that laid down for the degree of Bachelor of Forestry Science in the University of New Zealand, and is intended for the training of professional foresters with a high degree of technical knowledge. It requires a four-year course of study leading to a degree, which is of the same standard as any other arts or science or professional degree granted by the University.

During the past year the University Senate has greatly modified the prescriptions and arrangement of courses to make for better balance of work and more efficient co-ordination of teaching, so that as it now stands the course prescribed has the approval of foresters and educators throughout New Zealand, and sets as high a standard of accomplishment as any forestry degree elsewhere.

The new syllabus for the Degree course is briefly as follows:—

"Degree of Bachelor of Forestry Science."

Intermediate Examination (First Year). The subjects shall be:—

1. Biology (one paper):—As for the course in Home Science.
2. Physics (one paper):—As for the Medical Intermediate Examination.
3. Inorganic Chemistry (one paper):—As for the Medical Intermediate Examination.
4. Organic Chemistry (one paper):—As for the Medical Intermediate Examination.
First Professional Course and Examination
(Second Year). The subjects shall be:
1. Elements of Forestry.
2. Forest Mensuration.
3. Surveying and Drawing.
5. Forest Geology.
7. Forest Chemistry, Part I. (Optional, except for students who intend to specialise in Forest Chemistry or Utilisation).

Second Professional Course and Examination
(Third Year). The subjects shall be:
2. Dendrology.
3. Forest Zoology.
4. Forest Exploitation and Utilisation.
5. Forest Chemistry Part II. (Optional).

Students must also satisfactorily attend a course of instruction in Silviculture Part I. and Forest Management Part I., as preparatory to the work in these subjects to be done during the following year.

Third Professional Course and Examination
(Fourth Year). The subjects shall be:
1. Silviculture.
2. Forest Management.
3. Forest Protection.
4. Forest Law, Policy and Administration.
5. Economics, History and Development of Forestry.
6. Specialised Studies:

In addition to the work prescribed above, a candidate in his third professional year will be occupied in the more intensive study of one of the following subjects, which will be chosen by the student in consultation with those who direct the studies:—(a) Logging engineering, (b) silviculture, (c) forest management, (d) chemistry of a forest product, (e) forest entomology, (f) forest botany, ecology, dendrology, mycology, (g) forest economics, (h) other forestry work as may be arranged under supervision. The time which must be devoted to this special study must be not less than twelve hours per week throughout the session, and a special examination will be held in the subject chosen by the candidate.

Before obtaining his degree, the candidate must furnish a certificate that, after matriculation, he has spent at least twelve months in the actual practice of forestry operations in the forest, and has shown competence to the satisfaction of the teacher of Forestry in a recognised school. The candidate must, in addition to the above, submit a forest diary or series of diaries showing the actual periods and places in which he was so occupied. This diary must be of a technical, descriptive, and critical nature in reference to the practical forestry operations with which he was associated.

The candidate must also produce a "first-aid" certificate from the St. John Ambulance Association.

The fee for the Degree shall be seven guineas.

The second course of study is that of Associateship of the Canterbury College School of Forestry, and is a course laid down by Canterbury College alone, carrying with it no University status. The course is modelled on the Degree course, but is a three-year course of purely professional work, omitting the first year of study in pure science required for the Degree. While in many respects the professional courses studied for the Associateship are identical with those for the Degree, a slightly lower standard is required for the Associate course. Students taking up this course must have matriculated into the University of New Zealand. The course is designed primarily for men who have allowed some years to elapse since matriculating, and who have been engaged in forestry work of a strictly practical nature. The course supplies the needful theoretical background to supplement their practical experience, and will prove of value to forest guards and rangers of some length of service who wish to fit themselves for higher positions in field executive work. Newcomers to forestry will rarely be advised to take up this course, as either the Degree or the Ranger course will be found more suited to their needs.

The Ranger course comprises a series of lectures, laboratory and field work in forestry covering either two or three years, depending upon the time available and financial resources of the individual student. The course is intensely practical, and its aim is to turn out men fully qualified to do plane and topographical surveying as needed for forestry work; to estimate timber; to make field and reconnaissance surveys; and to handle nursery and plantation projects in an executive capacity—in other words, men capable of taking hold of field routine, taking charge of field crews and assuming responsibility for project work. The men for whom this course is suited are primarily, though not necessarily, those rather older than the average University student, and who already have had some experience in some line of forestry work, either as forest guards, plantation and nursery workers, bushmen or field men on survey parties, and who, for lack of secondary education or for financial reasons, are prevented from taking the Degree or Associate courses.

In scope the course is intensely practical,
stress being laid upon the field application of the work. The subjects taken are:—Mensuration, surveying, forest protection, wood technology, forest utilisation, forest botany, dendrology, silviculture, forest law and administration and elementary courses in logging engineering and forest management. As much of the work as is possible is done in the field under actual field conditions—at the School’s forest nursery; in the large plantation areas adjacent to Christchurch which have been placed at the disposal of the School for practice work; at the sawmills and forest utilisation plants of the city and in the virgin forest of Westland, where the annual three-weeks Spring Camp of the School is held. It is hoped that in the future, when the staff of the School becomes large enough to handle the work, the field period for the Ranger course students may be extended to cover a whole term each year in practical applied forestry carried on by the students under supervision of the staff.

Matriculation is not required for the Ranger course studies, the course being open to all men who show ability to profit by their work. Certificates are granted by Canterbury College to those students successfully completing courses of study in this branch of instruction.

Of considerable moment to intending forestry students is the matter of fees and expenses incurred in attending a course at Canterbury College.

For the Degree student, lecture and laboratory fees payable to the College will total about £20 per year, while University examination fees will amount to an additional £5 per annum. For the Associate course the lecture and laboratory fees will be approximately the same, while no University fees will be incurred. Fees in regard to the Ranger course will total about £18 per year. In addition to fees, books, stationery, etc., will on an average call for an additional sum of £8 each year. Accommodation can be secured very reasonably in Christchurch, varying from 25/- to £2 per week, according to quality and distance from the College. At Rolleston House, the student hostel maintained by Canterbury College, the charge is 30/- per week, or about £45 for the College session.

In considering these costs, the prospective student should bear in mind that opportunity is offered for remunerative employment in practical forestry work with the State Forest Service and other organisations, during the first term vacation, and the long vacation of over three months in the summer, during which time it is possible to make from £50 to £75, much of which should be saved, as the student worker is generally in camp or baching.

**EXAMINATION RESULTS.**

The following is the class list for the 1926 Annual College Examination:—

- **Degree Course.**
  - Intermediate Examination—Biology, Inorganic Chemistry, Physics, Russell, A. W., Biology: Skipworth, M. R.

**OUR NEW ROOMS.**

The School can no longer call itself homeless. Up to the end of the 1926 Session the School had no permanent building accommodation of its own, but its chief indoor activities were carried out in the Department of Biology, where the lectures and laboratory periods were held, and where the museum, library, and field equipment were housed. Last November, however, the new rooms allotted to the School in the old Boys’ High School buildings were finally available, and the School “moved in.” On the ground floor, near the main entrance, is the museum, where the various wood specimens are being set up and arranged on shelves round the walls. Cabinets for smaller wood specimens, herbarium material, forest insects, etc., are in course of construction. This museum will be available, through permit, for the general public, and it is hoped that the many forest enthusiasts in Canterbury will make full use of it. Opening off the museum are the library and the office of the typiste, who acts as librarian and operates a small telephone exchange for the whole building. On the first floor is the forestry laboratory, well fitted up with benches,