Student enrolments in 1964 were as follows:

Part I, 37; Part II, 10; Part III, 6; Part IV, nil;
M.Sc., 6; and Ph.D. students, 6.

The first year enrolments were fewer than anticipated. No particular reason is apparent for this, and since the number is still rather small, this may be largely a chance variation. There were some withdrawals during the first term in first year, and the performance of students in first year was noticeably uniform in comparison with earlier years, there being only one failure in 28 of those who sat for the Part I examination. Likewise, no particular reason seems to be associated with this performance. The net result of smaller intake but higher pass rate in first year coupled with satisfactory performance in later years, has led to a satisfactory teaching year.

The number of postgraduate students is approaching the maximum which the Department can accommodate in its present temporary location in the north-west wing of the Physics Building, and if the present trend of enrolment of such students continues, restriction of acceptance of some applicants otherwise suitable will become necessary.

The staff of the Department was further strengthened by the appointment of Dr. R. B. Knox, whose interests are primarily in Physiological Genetics. His appointment brings the academic staff to eight.

Further purchases of equipment for teaching and research were satisfactory, and included four Phytotron cabinets, two of which were placed in the Ceres phytotron, and two cabinets established in the Department's glasshouse and experimental plot location. There has been continued and effective student and staff work associated with Ceres.

Preliminary plans were prepared during the year for the permanent building of the Botany Department, which is to be located adjoining the Zoology Department - a suitable location which reflects the development of some common courses in Biology, which will be presented jointly by the combined staffs of the two Departments commencing in 1965. The introduction of these courses was agreed to by Faculty during 1964.
The following publications from members of staff appeared during the year:


PRYOR, L.D. "Aspects of poplar growing and utilization in Australia", *Appita*, 17, 5, 126-133, 1964

WITTMANN, W., "A cytological study of the "free nuclear divisions" in Macrozamia Communis (Johns.) carried out on t-irradiated material", *Radiation Botany*, 4, 1964.
THE AUSTRALIAN NATIONAL UNIVERSITY

FACULTY OF SCIENCE

DEPARTMENT OF BOTANY

ANNUAL REPORT 1965

Staff: Professor: L.D. Pryor, D.Sc., (Adel)

Senior Lecturers D.M. Paton, B.Sc., Ph.D. (Tas)
J.A. Carnahan, M.Sc., Ph.D. (N.Z.)
E.G. Brittain, B.Sc., Ph.D. (Melb)

Lecturers M.A. Aston, M.Sc.Agr. (Syd)
O.R. Byrne, B.Sc., Ph.D. (Adel) Genetics
G.A. Chilvers, B.Sc.Agr. (Syd)
R.B. Knox, B.Sc., (Edin) Ph.D. (Birm.)
M.I. Whitecross, M.Sc., Ph.D. (Syd)

Senior Demonstrators M.I.H. Brooker, B.Sc.Agr. (Adel)
W. Wittmann, Ph.D. (Vienna)

Research Assistant D.K. McIntyre, B.Sc., (N.E.)

Teaching

Enrolments increased in 1965 exceeding 50 in First Year. This number taxed the space available in the temporary quarters in the Physics Department which is still in use by the Department. However the teaching problem for the preliminary course was considerably aided by the introduction of closed circuit television which improves the presentation of the laboratory part of the course.

Enrolments and Examinations

<table>
<thead>
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<th>Course</th>
<th>Enrolments</th>
<th>Sat for Examination</th>
<th>Passed</th>
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<tr>
<td>Botany I</td>
<td>52</td>
<td>51</td>
<td>37</td>
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<tr>
<td>Biol. Sci. BII</td>
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<td>3</td>
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<tr>
<td>Botany III</td>
<td>11</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>Biol Sci. C II</td>
<td>33</td>
<td>33</td>
<td>29</td>
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<tr>
<td>Hons Bot. VI</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>M.Sc.</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Ph.D</td>
<td>6</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>
Staff

Mr. M.A. Aston joined the staff of the Department towards the end of the year on his return from Davis, California.

Accommodation

The space available is now inadequate for all the activities of the Department and the position and the position cannot be satisfactorily remedied until the completion of the new building planned for the end of 1967. Considerable progress was made with preliminary design and it is hoped that tenders will be called during the coming year. Because of the anticipated reduced student intake in 1967, owing to the effect of modifications in the Secondary School courses in New South Wales, a critical situation which otherwise would have developed will be avoided until 1968, but it is vital that the additional accommodation which will be provided by the new building be available then.

Researches

Research was continued in fields similar to those in progress in the previous year and the facilities available to the Department were improved by the construction of four additional glasshouses on the campus which was completed, including one with a section which is lightproof to permit experiments involving control of day length. The controlled environment cabinets were increased by a further two and plans were completed and tender documents prepared for the construction of an addition to the ancillary building which will permit the housing eventually of eight cabinets together with associated equipment. The main lines of research continue to be physiology of the induction of flowering, ultra-structure, experimental taxonomy, certain aspects of genetics and a number of studies of eucalyptus.

Herbarium

Cataloguing of the Gauba Herbarium continues and it is anticipated that this will be completed in another twelve months. Continual additions have been made to the collection during the year.

Conferences and Overseas Visits

A number of members of staff attended the ANZAAS meeting at Hobart and read papers. Professor Pryor visited Chile and Honduras to examine the performance of Eucalyptus planted in the country and to advise on future experiment with the genus in those countries.
**Publications:**

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Year</th>
<th>Title</th>
<th>Journal, Volume, Pages</th>
</tr>
</thead>
</table>

* Based on work done prior to joining this University

+ No longer a member of the Department.