THE AUSTRALIAN NATIONAL UNIVERSITY

FACULTY OF SCIENCE

DEPARTMENT OF ZOOLOGY

ANNUAL REPORT 1970

Staff: Professor : J.D. Smyth, Ph.D., M.A., Sc.D. (Dub.)
                   (Resigned December 1970)

Readers : W.L. Nicholas, B.Sc., Ph.D. (Liv.)
          C.H. Tyndale-Biscoe, M.Sc. (N.Z.),
          Ph.D. (W. Aust.)

Senior Lecturers : A.H. Weatherley, B.Sc. (Syd.),
                   M.Sc. (Tas.), Ph.D. (Glas.)
                   R.E. Barwick, M.Sc. (N.Z.), Ph.D. (ANU)
                   J.R. Short, B.Sc. (W. Aust.),
                   D. Phil. (Oxon.), B.Sc. (Aberd.)
                   C. Bryant, M.Sc., Ph.D. (Lond.)
                   V.A.P. Harris (B.Sc.), Ph.D. (Lond.)
                   P.A. Janssens, B.Sc., Ph.D. (Sheff.)

Lecturers : T.G. Marples, M.Sc. (N.Z.), Ph.D.
            (Georgia)
            M.J. Howell, B.Sc. (N.Z.), M.Sc. (Well),
            Ph.D. (ANU)

Senior Demonstrators: R.K. Pengilley, B.Sc., M.Sc. (ANU)
                      1 Vacancy

Demonstrator : Ruth H. Prowse, B.Sc. (ANU)

Research Assistants : Rhonda Morrow, B.Sc. (ANU)
                      Josephine Bancroft, B.Sc. (ANU)
                      Sumati Viswanathan, B.Sc. (Toona)

Museum Assistant : Raj K. Jha, Ph.D. (Alberta)
Enrolments:

Enrolments for most semester courses were high and generally exceeded predictions. Some class numbers exceeded laboratory facilities and it is likely that restriction in enrolments in some units can be anticipated in future years.

Building:

The landscaping of the courtyard was completed this year and makes a pleasant and useful addition to the building.

General Activities:

The general research and teaching activities of the Department were supplemented throughout the year by Wednesday afternoon seminars given by invited speakers. Evening seminars by Ph.D. and Honours students also form a regular part of the Department’s work.

Visits: Dr Nicholas visited the University of Papua New Guinea during the year to act as an external examiner to the Department of Biology.

Study Leave:

Dr V. Harris was on study leave in the United Kingdom during the year.

Visitors:

The Department was pleased to continue to provide laboratory accommodation and facilities for two Australian-American Education Foundation visitors - Dr T. Berra and Dr S. Wilcox. Several other research workers from other laboratories spent short periods working in the Department.

Research:

The research interests of the staff and postgraduate students cover an extensive range of interests and space will not permit detailed comment on them. The range is reflected in the list of publications attached.

The Department continued to receive substantial generous financial aid from outside sources and it is a pleasure to acknowledge from the following:-

The Australian Wool Board
The Australian Meat Research Committee
Rural Credits Development Fund
C.S.I.R.O.
World Health Organization
U.S. National Institutes of Health
Australian Universities Research Grants Committee
International Conferences:

Dr Nicholas and Professor Smyth attended the 2nd International Congress of Parasitology in Washington (Sept 6th - 12th 1970), where they presented invited papers and acted as Chairmen on various Symposia.

Resignations:

Professor Smyth: to become Professor of Parasitology, Imperial College, London.

Miss M. Davies: to visit North America and Canada.

Dr T. Berra: Fulbright Scholarship terminated - he has been appointed Senior Tutor in the Department of Biology, U.P.N.G.

Publications:

BERRA, T.M.† 1970.

BERRA, T.M.† & GUNNING, G.E.† 1970.
Repopulation of experimentally decimated sections of streams by longear sunfish, Lepomis megalotis.

Moniliformis dubius and Macracanthorhynchus hirudinaceus.
Na K, Ca and Mg content and Na and K active transport.
Experimental Parasitology, 27: 33-43.

Moniliformis dubius: osmotic responses.
Experimental Parasitology, 27: 44-52.


BROCKELSBY, K.† & BARWICK, R. 1970.

* Former member. Based on work done while a member of the Department.
† Not a member of this University.
+ Visiting Research Worker.


† Not a member of this University.

* Former member. Based on work done while a member of the Department.


* Former member. Based on work done while a member of the Department.
### The Australian National University

#### Department of Zoology Analysis of Student Performance

<table>
<thead>
<tr>
<th>1 Subject or Unit</th>
<th>2 Enrolled as at 30.4.70</th>
<th>3 Wastage (i.e. 2 - 5)</th>
<th>4 Wastage plus failure (i.e. 3 - 11)</th>
<th>5 Sitting</th>
<th>6 High Distinction</th>
<th>7 Distinction</th>
<th>8 Credit</th>
<th>9 Pass with Merit</th>
<th>10 Pass</th>
<th>11 Fail</th>
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<td>75 95</td>
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<td>3 4</td>
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"One student sitting for special exam in Feb. 1971."