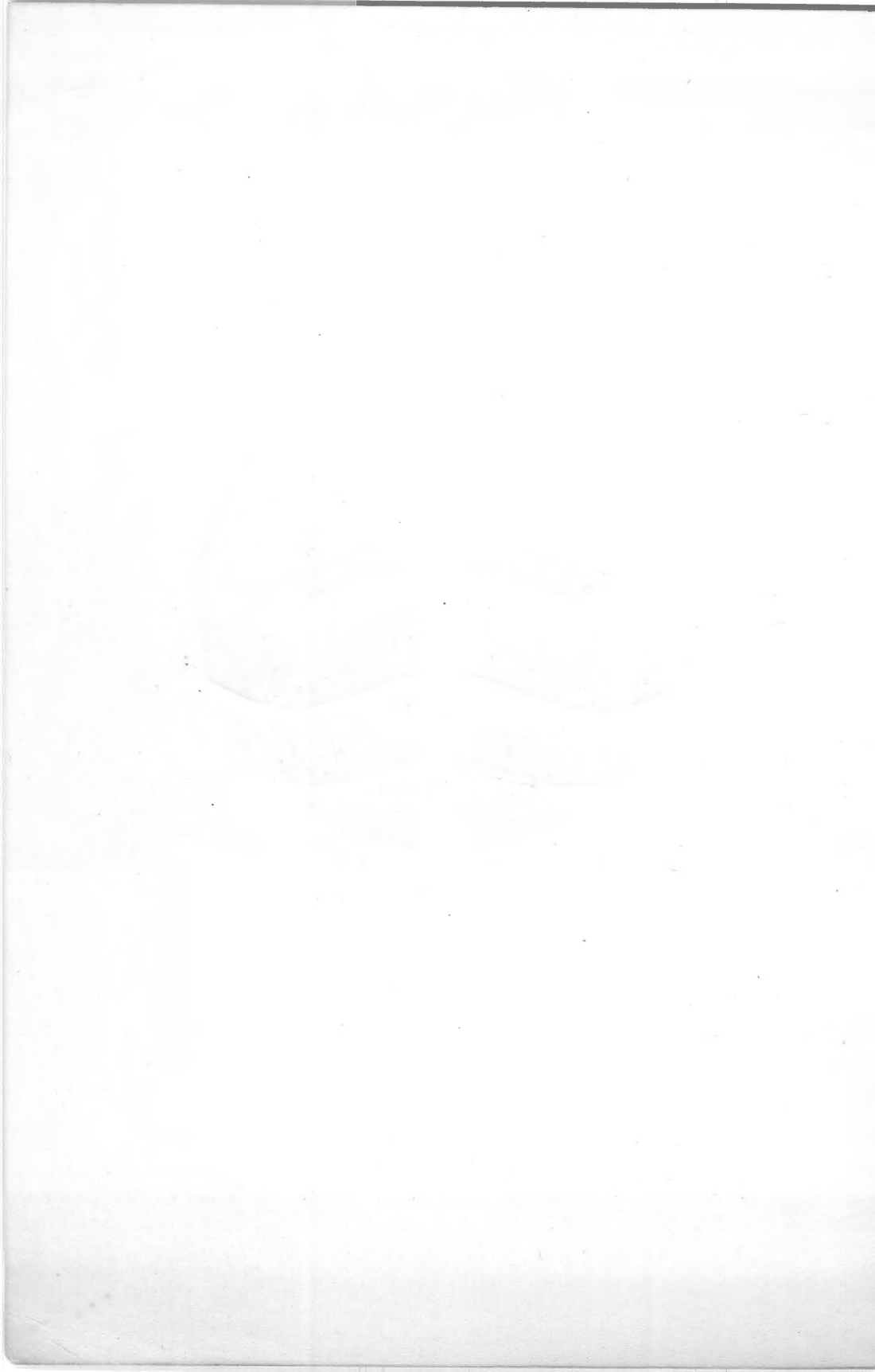


CALENDAR 1967/68



TRENT UNIVERSITY



University Calendar

FOR THE FOURTH ACADEMIC YEAR 1967/1968

Nunc cognosco ex parte



Trent University
Peterborough Ontario
Canada

Phone: Area Code 705, 748-1011

Contents

	<i>Page</i>
UNIVERSITY DIARY	5
ACADEMIC STAFF OF THE UNIVERSITY	7
OFFICERS OF THE UNIVERSITY	14
BOARD OF GOVERNORS	17
ADVISERS TO THE PLANNING COMMITTEES	18
GENERAL INFORMATION	19
<i>History, Aims, Site and Buildings</i>	19
<i>Tutorial and Seminar Teaching</i>	21
<i>Academic Year</i>	22
<i>Colleges</i>	22
<i>Peter Robinson College</i>	23
<i>Catharine Parr Traill College</i>	24
<i>Champlain College</i>	25
<i>Lady Eaton College</i>	26
<i>Library</i>	27
ADMISSION AND REGISTRATION	29
<i>Scholarships and Prizes</i>	33
<i>Bursaries</i>	40
ACADEMIC PROGRAM	41
<i>Ordinary Program</i>	41
<i>Honours Program</i>	42
<i>Graduate Studies</i>	43
<i>Academic Standing</i>	44

Contents continued

	<i>Page</i>
COURSES OF STUDY	46
<i>Ancient History</i>	46
<i>Anthropology</i>	47
<i>Biology</i>	48
<i>Chemistry</i>	50
<i>Classics</i>	52
<i>Economics</i>	54
<i>English Literature</i>	55
<i>French Studies</i>	57
<i>German</i>	58
<i>History</i>	59
<i>Mathematics</i>	61
<i>Philosophy</i>	63
<i>Physics</i>	65
<i>Politics</i>	67
<i>Psychology</i>	69
<i>Sociology</i>	71
<i>Hispanic Studies</i>	73
PRE-PROFESSIONAL STUDIES	75
MISCELLANEOUS INFORMATION	77
<i>Bookstore</i>	77
<i>University Health Service</i>	77
<i>Undergraduate Activities</i>	77
<i>Fees</i>	78
MAP OF TRENT UNIVERSITY IN PETERBOROUGH	80

University Diary 1967-68

AUTUMN TERM

Sept. 14	Thursday	New students arrive; registration begins and continues until Sept. 16
Sept. 15	Friday	Introductory seminar begins and continues until Sept. 17
Sept. 17	Sunday	Returning students arrive
Sept. 18	Monday	Classes begin
Sept. 28	Thursday	Meeting of the Senate
Oct. 6	Friday	Final date for changes in registration
Oct. 9	Monday	Thanksgiving Day
Oct. 19	Thursday	Meeting of the Senate
Nov. 3	Friday	Classes end
Nov. 6	Monday	<i>Residential Reading and Laboratory Week begins</i>
Nov. 11	Saturday	Armistice Day
Nov. 13	Monday	Classes begin
Nov. 16	Thursday	Meeting of the Senate
Dec. 8	Friday	Classes end
Dec. 9	Saturday	<i>Christmas Vacation and Reading Period begins</i>
Dec. 22	Friday	Christmas holiday to Dec. 27
Dec. 25	Monday	Christmas Day
Dec. 26	Tuesday	Boxing Day
Dec. 29	Friday	New Year's holiday to Jan. 2

WINTER TERM

Jan. 1	Monday	New Year's Day
Jan. 2	Tuesday	Classes begin

University Diary Continued

Jan. 18	Thursday	Meeting of the Senate
Jan. 26	Friday	Classes end
Jan. 29	Monday	<i>Residential Reading and Laboratory Week begins</i>
Feb. 5	Monday	Classes begin
Feb. 15	Thursday	Meeting of the Senate
Mar. 1	Friday	Classes end
Mar. 2	Saturday to	<i>Winter Reading Period</i>
Mar. 16	Saturday	
SPRING TERM		
Mar. 18	Monday	Classes begin
Mar. 21	Thursday	Meeting of the Senate
Apr. 12	Friday	Good Friday
Apr. 18	Thursday	Meeting of the Senate
May 3	Friday	Classes end
May 6	Monday	Examinations begin
May 11	Saturday	Examinations end
May 19	Sunday	<i>Summer Vacation and Reading Period begins</i>
May 20	Monday	Victoria Day
June 28	Friday	Final date for receipt of applications from mature applicants
July 1	Monday	Dominion Day
July 15	Monday	Final date for receipt of applications for supplemental examinations
Aug. 5	Monday	Civic Holiday
Sept. 2	Monday	Labour Day

Academic Staff of the University

Mrs. M. N. Ankus, B.A. (TORONTO), M.A. (QUEEN'S)

Assistant Professor of Psychology

C. A. Ashley, B.COM. (BIRMINGHAM), F.C.A., Professor Emeritus of Commerce and Past Chairman of the Department of Political Economy, University of Toronto

Visiting Professor

G. O. Aspinall, B.SC. (BRISTOL), PH.D. (BRISTOL), D.SC. (EDINBURGH), F.R.I.C., F.R.S.E.

Professor of Chemistry and Chairman of the Department

G. Bagnani, D. LITT. (ROME), F.R.S.C.

Professor in Ancient History

Mrs. Stewart Bagnani

Special Lecturer in Art

P. F. Barrett, M.SC. (QUEEN'S), PH.D. (TORONTO)

Assistant Professor of Chemistry

B. L. Beach, B.A. (ACADIA), M.A. (DALHOUSIE), PH.D. (MCGILL)

Assistant Professor of Psychology

Miss JANET P. BEWS, B.A. (QUEEN'S), M.A., PH.D. (LONDON)

Lecturer in Classics

J. M. Blackburn, B.SC. (LONDON), PH.D. (CANTAB.)

Professor of Psychology and Chairman of the Department

B. R. Blishen, M.A. (MCGILL)

Professor of Sociology

M. J. Boote, B.A. (WALES), PH.D. (MCGILL)

Professor of Economics and Chairman of the Department

S. A. Brown, B.S.A. (TORONTO), M.S., PH.D. (MICHIGAN STATE)

Associate Professor of Chemistry

-
- I. C. Chakravartty, M.SC. (GAUHATI), PH.D. (SASKATCHEWAN)
Assistant Professor of Mathematics
- R. D. Chambers, B.A. (MCGILL), B.LITT. (OXON.)
Associate Professor of English Literature and Acting Chairman of the Department
- I. D. Chapman, B.SC. (LIVERPOOL), M.A. (TORONTO)
Assistant Professor of Chemistry
- Miss Dorothy M. Coutts, M.A. (BRITISH COLUMBIA)
Assistant Professor of Sociology
- J. Dale, M.A., PH.D. (CANTAB.)
Assistant Professor of English Literature
- J. W. Earnshaw, B.A.SC. (TORONTO), PH.D. (CANTAB.)
Assistant Professor of Physics
- R. L. Edwards, M.A., D.PHIL. (OXON.)
Professor of Biology and Chairman of the Department
- W. D. R. Eldon, B.A. (WESTERN ONTARIO), A.M., PH.D. (HARVARD)
Associate Professor of Economics
- J. C. Fewster, M.A. (MANCHESTER)
Lecturer in German
- A. G. Fisher, M.A. (SASKATCHEWAN)
Assistant Professor of English Literature
- Miss M. G. Fry, M.A. (DALHOUSIE), B.LITT. (OXON.)
Assistant Professor of Philosophy
- R. Gay-Crosier, C.P.E.S., DR.-ÈS-L. (BERNE)
Assistant Professor of French
- Mrs. Lorna A. Gendreau, M.A. (QUEEN'S)
Instructor in Psychology
-

-
- J. P. González-Martín, LIC.DER., (OVIEDO), DR.DER. (ZARAGOZA)
Assistant Professor of Spanish and Acting Chairman of the Department
- Mrs. Rosa María Garrido de González, LIC.DER., DR.DER. (SEVILLA)
Lecturer in Spanish
- C. M. Greene, A.B. (AMHERST), A.M. (COLUMBIA), PH.D. (HARVARD)
Assistant Professor of History
- B. C. Gregory, B.A.SC. (TORONTO), PH.D. (CANTAB.)
Assistant Professor of Physics
- A. P. Guinand, B.SC. (ADELAIDE), D.PHIL. (OXON.)
Professor of Mathematics and Chairman of the Department
- F. A. Hagar, A.B. (HARVARD), M.A., PH.D. (CALIFORNIA), M. LITT. (CANTAB.)
Associate Professor of History
- Miss Jane H. Hamacher, B.A. (WESTERN ONTARIO), M.A. (TORONTO)
Lecturer in Psychology
- G. F. Hamilton, B.A.SC., M.A. (TORONTO), P. ENG.
Assistant Professor of Mathematics
- P. D. Harrison, M.A. (TORONTO)
Assistant Professor of Anthropology
- R. R. Heintzman, B.A. (TORONTO)
College Tutor in History
- J. P. Henniger, M.SC., PH.D. (MCGILL)
Assistant Professor of Mathematics
- B. W. Hodgins, B.A. (WESTERN ONTARIO), M.A. (QUEEN'S), PH.D. (DUKE)
Assistant Professor of History
- Mrs. Ann Hume, B.A. (LEEDS)
Instructor in Spanish
-

W. T. Hunter, B.COM. (TORONTO), M.A. (OXON.)

Lecturer in Economics

D. M. Jackson, M.A. (TORONTO)

Lecturer in French

R. G. Johnson, M.SC. (QUEEN'S)

Assistant Professor of Physics

Z. Kay, B.A. (MANITOBA), DIP.INTERNAT.LAW, M.A. (ECON.) (MANCHESTER)

Assistant Professor of Politics

K. E. Kidd, M.A. (TORONTO)

Associate Professor of Anthropology and Chairman of the Department

J. A. Lee, M.A. (TORONTO)

Lecturer in Sociology

J. LeDreff, M.A. (BRITISH COLUMBIA)

Assistant Professor of French

J. I. Lodge, M.A. (QUEEN'S), PH.D. (VIRGINIA)

Professor of Physics and Chairman of the Department

B. Mandell, LL.M. (WARSAW), M.A., B.S.C. (OXON.)

Assistant Professor of Psychology

R. E. March, B.SC. (LEEDS), PH.D. (TORONTO)

Assistant Professor of Chemistry

J. D. P. Martin, B.A. (QUEEN'S), B.L.S. (MCGILL)

Lecturer in History

Miss Christine D. Maxwell, B.SC. (WALES)

College Tutor in Biology

J. I. MacAdam, B.A. (NEW BRUNSWICK), M.A. (QUEEN'S) PH.D. (LONDON)

Associate Professor of Philosophy

J. C. McDonald, B.A. (TORONTO), M.SOC.SC., PH.D. (BIRMINGHAM)
Associate Professor of Sociology and Acting Chairman of the Department

Miss Elizabeth A. McLeod, B.A. (TORONTO)
College Tutor in Politics

W. A. McMullen, M.A. (CANTAB.)
Assistant Professor of Philosophy

J. C. Morisot, LIC.-ES-L., E.N.S., D.E.S., AGR.-ES-L. (SORBONNE)
Associate Professor of French and Acting Chairman of the Department

W. L. Morton, B.A. (MANITOBA), M.A., B.LITT. (OXON.), LL.D. (TORONTO),
D.LITT. (NEW BRUNSWICK), D.LITT. (MCGILL), F.R.S.C.
Professor of History

T. N. Murphy, B.SC. (LIVERPOOL)
Assistant Professor of Mathematics

W. F. W. Neville, B.A. (MANITOBA, OXON.)
Lecturer in Politics

J. E. Nighswander, B.SC.F. (TORONTO), PH.D. (WISCONSIN)
Assistant Professor of Biology

T. E. W. Nind, M.A. (CANTAB.)
Professor of Mathematics

J. P. O'Flinn, B.A. (OXON.)
Lecturer in English Literature

R. J. D. Page, M.A. (QUEEN'S)
Assistant Professor of History

J. S. Pettigrew, M.A. (TORONTO, CANTAB.)
Associate Professor of English Literature

W. G. Pitman, M.A. (TORONTO)

Lecturer in History

Miss J. J. W. Plumptre, B.A. (QUEEN'S)

Lecturer in German

A. H. Rees, M.A. (CANTAB., OXON), PH.D. (LONDON), F.R.I.C.

Associate Professor of Chemistry

J. C. Ritchie, B.S.C. (ABERDEEN), PH.D. (SHEFFIELD), D.S.C. (ABERDEEN)

Associate Professor of Biology

J. P. S. Robertson, M.A. (NEW ZEALAND), B.A., PH.D. (LONDON)

Professor of Psychology

S. T. Robson, B.A. (BRITISH COLUMBIA), D.PHIL. (OXON.)

Assistant Professor of History

Miss B. E. Rooke, M.A. (QUEEN'S), PH.D. (LONDON)

Associate Professor of English Literature

R. H. Sadleir, B.A. (TORONTO), M.A. (CANTAB.)

Assistant Professor of English Literature

Mrs. Gillian Sandeman, B.A. (LONDON)

Instructor in English Literature

I. M. Sandeman, B.SC. (ST. ANDREWS)

Assistant Professor of Biology

D. W. Schindler, B.S. (NORTH DAKOTA), D.PHIL. (OXON.)

Assistant Professor of Biology

E. J. Schonleber, B.A. (TORONTO), M.A. (CHICAGO)

Associate Professor of Philosophy and Acting Chairman of the Department

M. J. Sidnell, M.A. (LONDON)

Assistant Professor of English Literature

Mrs. Dawn L. Smith, M.A. (OXON.)

Lecturer in Spanish

S. G. D. Smith, B.A. (MCGILL), M.A., B.LITT. (OXON.)

Associate Professor of Politics and Chairman of the Department

Miss Sharon Grace Smith, B.A. (SAN DIEGO), PH.D. (STANFORD)

Assistant Professor of Biology

R. A. Stairs, B.SC. (MCGILL), M.SC. (WESTERN ONTARIO), PH.D. (CORNELL)

Associate Professor of Chemistry

D. D. Stewart, M.A., PH.D. (TORONTO)

Associate Professor of German and Chairman of the Department

T. H. B. Symons, B.A. (TORONTO), M.A. (OXON.)

Associate Professor of History

H. L. Tracy, B.A. (TORONTO), PH.D. (CHICAGO)

Professor in Classics

W. R. Tyson, B.A.SC. (TORONTO), PH.D. (CANTAB.)

Assistant Professor of Physics

R. Vastokas, M.A. (TORONTO)

Assistant Professor of Anthropology

J. Wearing, B.A. (WESTERN ONTARIO), M.A. (TORONTO, OXON.), D.PHIL. (OXON.)

Assistant Professor of Politics

P. Weinzwieg, M.A. (TORONTO)

Lecturer in Sociology

Alan Wilson, M.A. (DALHOUSIE), PH.D. (TORONTO)

Associate Professor of History and Chairman of the Department

A. M. Young, M.A. (MELBOURNE, TORONTO)

Assistant Professor in Classics

Officers of the University

PRESIDENT AND VICE-CHANCELLOR

T. H. B. Symons, B.A. (TORONTO), M.A. (OXON.)

VICE-PRESIDENT

S. G. D. Smith, B.A. (MCGILL), M.A., B.LITT. (OXON.)

DEAN OF ARTS

E. J. Schonleber, B.A. (TORONTO), M.A. (CHICAGO)

DEAN OF SCIENCE

T. E. W. Nind, M.A. (CANTAB.)

ASSOCIATE DEAN OF ARTS AND SCIENCE

W. D. R. Eldon, B.A. (WESTERN ONTARIO), A.M., PH.D. (HARVARD)

ADMINISTRATIVE ASSISTANT TO THE DEAN OF SCIENCE

W. R. Tyson, B.A.SC. (TORONTO), PH.D. (CANTAB.)

DEAN OF GRADUATE STUDIES

B. R. Blishen, M.A. (MCGILL)

MASTER OF PETER ROBINSON COLLEGE

R. H. Sadleir, B.A. (TORONTO), M.A. (CANTAB.)

PRINCIPAL OF CATHARINE PARR TRAILL COLLEGE

Miss M. G. Fry, M.A. (DALHOUSIE), B.LITT. (OXON.)

MASTER OF CHAMPLAIN COLLEGE

W. L. Morton, B.A. (MANITOBA), M.A., B.LITT. (OXON.), LL.D. (TORONTO),
D.LITT. (NEW BRUNSWICK), D.LITT. (MCGILL), F.R.S.C.

LIBRARIAN

J. D. P. Martin, B.A. (QUEEN'S), B.L.S. (MCGILL)

COMPTROLLER, AND SECRETARY TO THE BOARD OF GOVERNORS

J. E. Leishman, B.COM. (TORONTO), C.A.

ASSISTANT TO THE COMPTROLLER

P. J. Lewis, B.A. (TORONTO), C.A.

FINANCIAL PLANNING OFFICER

J. M. Kennaley, B.A. (TORONTO), C.A.

DIRECTOR OF PERSONNEL AND UNIVERSITY SERVICES

W. F. McMullen, B.A.SC. (TORONTO), P.ENG.

REGISTRAR, AND SECRETARY OF THE SENATE

A. O. C. Cole, M.A. (TORONTO)

ASSOCIATE REGISTRAR

W. G. Pitman, M.A. (TORONTO)

ASSISTANT REGISTRAR

Gordon D. Pollock, M.A. (TORONTO)

UNIVERSITY ENGINEER

A. E. Parker, P.ENG.

SUPERINTENDENT OF CONSTRUCTION AND MAINTENANCE

R. C. Johnston

MECHANICAL ENGINEER

M. J. O'Brien, B.A.SC. (TORONTO), P.ENG.

SUPERVISOR OF GROUNDS

H. N. Darling

ADMINISTRATIVE ASSISTANT FOR CAMPUS PLANNING

G. F. Hamilton, B.A.SC., M.A. (TORONTO), P.ENG.

PLANNING ASSISTANT

G. A. Macdonald, B.A. (DUNELM)

DIRECTOR OF ATHLETICS

P. S. B. Wilson, B.A. (TORONTO)

DIRECTOR OF THE HEALTH SERVICE

M. F. Clarkson, M.D. (TORONTO)

ADMINISTRATIVE ASSISTANT TO THE PRESIDENT

R. R. Heintzman, B.A. (TORONTO)

ADMINISTRATIVE ASSISTANT TO THE VICE-PRESIDENT

Miss Frances Plaunt, B.A. (BRITISH COLUMBIA)

MASTER PLANNING ARCHITECT

R. J. Thom, M.R.A.I.C.

Board of Governors

C. K. Fraser, B.SC., P.ENG., *Chairman*

T. H. B. Symons, B.A., M.A., *President and Vice-Chancellor*

S. R. Adamson, C.G.A.

T. J. Bata, ESQ.

Rev. J. F. Coughlan, B.A.

N. J. Crook, D.F.C., B.A.

H. A. Dyde, O.B.E., M.C., C.D., Q.C., B.A., LL.B., B.C.L., LL.D.

J. A. Edmison, Q.C., B.A.

E. A. Forsey, M.A., PH.D., M.A., LL.D. (MCGILL), LL.D. (NEW BRUNSWICK),
D. LITT.

T. P. McMillan, ESQ.

G. C. Monture, O.B.E., B.SC., D.SC.

W. L. Morton, B.A., M.A., B.LITT., LL.D., D.LITT. (NEW BRUNSWICK), D.LITT.
(MCGILL), F.R.S.C.

J. J. Robinette, Q.C., D.C.L., LL.D.

B. D. Sandwell, B.A.

H. F. Waddell, B.A.

W. G. Ward, B.SC., P. ENG.

J. G. Wharry, B.S.A.

W. D. Whyte, M.D., F.R.C.S.

J. E. Leishman, B.COM., C.A., *Secretary*

Advisers to the Planning Committees

R. G. Ellis, B.D.S. (ADELAIDE), D.D.S., M.SC.D. (TORONTO), F.D.S., R.C.S.,
Dean of the Faculty of Dentistry, University of Toronto
Consultant on Pre-Dental Education

A. M. Gordon, A.M., PH.D. (HARVARD), Assistant Professor of Spanish,
University of Toronto
Consultant on Language Laboratory

Mrs. Mary Q. Innis, PH.B. (CHICAGO), LL.D. (QUEEN'S), Former Dean of
Women, University College, University of Toronto
Consultant on Lady Eaton College

D. G. Lochhead, B.A., B.L.S. (MCGILL), M.A. (TORONTO)
Librarian of Massey College, University of Toronto
Consultant on Library Planning

Lady Ogilvie, M.A. (OXON.), LL.D. (LEEDS, WILSON, BELFAST),
Principal of St. Anne's College, Oxford
Consultant on Lady Eaton College

Miss M. H. Seaman, M.A. (TORONTO), Dean of Women and
Principal of St. Hilda's College, University of Toronto
Consultant on Lady Eaton College

J. Warkentin, B.SC. (MANITOBA), M.A., PH.D. (TORONTO)
Associate Professor of Geography, York University
Consultant on Geography

Miss L. D. Young, B.A. (CARLETON), M.A. (ROCHESTER), PH.D. (DUBLIN),
Assistant Professor of English, Carleton University
Consultant on Lady Eaton College

General Information

History

Trent University was formally created as an independent University with full degree-granting powers by an Act of the Ontario Legislature which received Royal Assent in April, 1963. It accepted its first undergraduate class in September 1964. The creation of the University was the culmination of several years of preparation and planning, both by public-spirited citizens of the City of Peterborough and by a group of academic advisers who made up the University's Academic Planning Committee, created in 1961 under the chairmanship of the President-designate of the University, T. H. B. Symons. On July 1, 1963, more than a year before the University accepted its first class, a nucleus of University faculty members and senior administrative staff assumed full-time duties.

During the early years, the Academic Planning Committee initiated the broad academic preparation for the University and made proposals for the curriculum, library arrangements, the sciences, teaching methods, admissions and scholarship policy, and the general concepts of the University. A Campus Planning Committee, consisting also of experienced academic persons, undertook planning for the University site and architecture. The proposals of these two planning committees were accepted in full as the basic policies of the University.

Early in 1963, the University launched an appeal for \$1,520,000 to assist in the first five-year capital and operating program. The Trent University Founding Fund was generously oversubscribed at both the local and national levels. In 1964, the University was made eligible to receive federal operating grants by recommendation of the Canadian Universities Foundation.

An academic staff of 24 persons, in sixteen fields of study, took up duties at the University on July 1, 1964, for the first academic year. They were joined that September by a first-year class of 102 students, and by three students pursuing postgraduate degrees. In the second academic year, 1965-1966, the University was made up of 40 members of the faculty,

280 undergraduate students and six postgraduate students. In the third academic year, 1966-1967, there was a faculty of 61 members, with 555 undergraduate students and three postgraduate students.

The University was elected to provisional membership in the Association of Universities and Colleges of Canada in the autumn of 1965. In the spring of 1966 Trent was elected to membership in the Association of Commonwealth Universities.

Aims

Trent University aims to be a community of scholars. In spite of the complexities of the modern university—the need for narrow special fields of enquiry and for complex scientific facilities—the University believes that this simple ideal remains relevant.

The University intends to ensure, through the tutorial and seminar system of teaching, that each student is encouraged to advance at his own pace in his fields of major interest. The University insists upon a good level of scholarship and upon some continuous application to study throughout the year. The University is building and growing on a residential collegiate system because it believes that the full values of a liberal education can best be realized through the corporate life of residential colleges.

Site and Buildings

The University site is a rolling, wooded property located on both sides of the Otonabee River at the northern edge of Peterborough. The core of the site was the gift of the Canadian General Electric Company, and additional land, totalling more than 1400 acres, has been acquired to meet the needs of the University. The campus is an area of outstanding beauty, providing the environment in which to create a university of special character and good standards.

The master planning architect, Ronald J. Thom of Vancouver and Toronto, has created a development plan for the University which will provide a number of colleges, a library, science laboratories and other facilities for a university community of more than 3,500 students and academic staff. The first buildings on the site are now open and in 1968 the plan calls for the completion of another residential college, the University library, and the first science building.

In its first years, the University occupies premises within the City of

Peterborough. The main University building, Rubidge Hall, contains an attractive library and reading room, lecture and tutorial rooms, science laboratories, senior and junior common rooms, faculty and administrative offices, and a cafeteria where light meals are served. Two residential colleges are also located in the city—Catharine Parr Traill College for women and Peter Robinson College for men—offering residential accommodation and dining, common room, and teaching facilities for their members. Champlain College, the first college for men on the main site, opened last year.

Tutorial and Seminar Teaching

It is the conviction of Trent University that a university education should personally engage each student in dialogue with members of the faculty and with fellow students. To achieve this end, teaching in the University focuses on tutorial and seminar work in small groups. Students are required to prepare, by directed reading and essay writing, to take an active part in academic discussion in regular tutorials and seminars in each subject.

At the beginning of each academic year, each student is assigned to a personal supervisor of studies who is responsible for advising him on his choice of courses, for completing the student's registration in a program of studies, and for advising him on his studies as a whole throughout the academic year. In each subject, the student is assigned to a tutor who is responsible for directing his reading, writing, tutorials and seminars in that subject. An undergraduate normally takes part in one tutorial or seminar a week in each course.

Tutorials normally involve five or fewer students; seminars normally involve ten to fifteen members. In some subjects students also participate in laboratory work.

Lectures are much less central in the teaching program than in most universities. However, some lectures are offered in most subjects to guide, to clarify and to emphasize, rather than to cover prescribed material in detail. Lectures are normally open to any students who wish to attend them and are not restricted to persons enrolled in certain courses. Beyond the first year, no lectures are compulsory. Regular attendance and satisfactory participation are, however, required in tutorials and seminars, and a student's most important work centres in tutorial and seminar groups.

The tutorial and seminar system assumes that the University is a place of liberal education and of learning rather than of training or instruction.

It therefore places a special responsibility on students to discipline their own work and to express themselves frequently and well in written and oral work.

Academic Year

Trent University considers that its members are committed to their work for the entire year. The academic year has therefore been patterned to provide for both the work and the relaxation necessary for fruitful study.

Undergraduates at the University devote a considerably larger part of the whole year to their academic studies than is customary. The formal academic year is somewhat longer than at most Canadian universities, but there are more significant pauses during the year from formal class studies for reading and assimilation. The tutorial and seminar system demands that a student distribute his work more evenly throughout the year than is often the case. The academic year is therefore divided in a distinctive way, with a three-week recess in December, two weeks in March, and one-week reading and laboratory recesses in two of the three academic terms.

Undergraduates are expected to do considerable academic work outside term, and tutors take particular care in guiding undergraduates in this work. A reading program which does not preclude summer employment, but to which the University attaches great importance, is assigned over the longer summer vacation. Work done during vacation periods forms an integral part of each year's work and is taken into account in determining academic standing.

The University's location in the Trent Valley makes it an attractive site for a summer program. Arrangements may be made by interested students to live in residence for a six-week summer term, and to make use of the library, laboratories, and other University facilities during this period.

Colleges

The residential college system is at the heart of Trent University. All students and members of the academic staff are members of a college in which they have an opportunity to live and work together in a relatively small academic community within the larger body of the University. Much formal academic work is done in the colleges, and various social and athletic organizations also exist within them. In the college communities, undergraduates find both formal academic guidance and the fellowship of other students and members of the academic staff.

Enrolment in each of the men's and women's colleges includes representation from all disciplines and all years of study, and includes both resident members and members who live at home in the Peterborough area. Non-resident members of the colleges enjoy full use of the college facilities and take active parts in college life.

The college system is designed to offer genuine and constant opportunities to cross those boundaries between different subjects and fields of study which so often hinder liberal discussion in a university. The isolation of subjects, frequently reflected in the physical plans of universities, can be avoided in one based on the college system by bringing together, within each college, students and faculty from all disciplines of the University.

Each college offers for the use of its members a dining room, common rooms, a reference and browsing library, seminar rooms and tutorial offices. The first two colleges, Peter Robinson College and Catharine Parr Traill College, were opened in September, 1964. The first college to be established on the campus and the third college within the University, Champlain College for men, opened this year. A committee of consultants and members of the academic staff have completed the planning for the fourth college, Lady Eaton College for women, which is to be opened on the campus in 1968. Facilities provided by colleges are similar, whether in town or on the main campus.

The Master Plan of the University provides for the establishment over the years of more than a dozen colleges.

PETER ROBINSON COLLEGE

MASTER

R. H. Sadleir, B.A. (TORONTO), M.A. (CANTAB.)

SENIOR DON

I. D. Chapman, B.SC. (LIVERPOOL), M.A. (TORONTO)

CHAIRMAN OF THE ACADEMIC COMMITTEE

J. S. Pettigrew, M.A. (TORONTO, CANTAB.)

ASSISTANT TO THE MASTER

J. O. Stubbs, B.A. (TORONTO)

Named to honour the founder of Peterborough, the Hon. Peter Robinson, who led a group of more than two thousand Irish settlers to the area in 1824-25, Peter Robinson College opened in September, 1964, as the first college for men of Trent University. Teaching, residential and recreational facilities are located in several neighbouring buildings in a residential area of Peterborough. Both the physical arrangements and the program of the

College are planned to relate learning and living; non-resident members are encouraged to take a full part in all aspects of its life.

College House is the centre of the life of Robinson College. While completely renovated and expanded, this Victorian building still retains its handsome carved staircase and its splendid moulded ceilings. The library of the College is growing and makes reference books and general reading available to students. A new linking building, which blends the traditional and the modern, contains teaching offices for members of the faculty as well as rooms for seminars and meetings of undergraduate clubs and organizations. All members of the College are drawn together in the dining hall where guests may be entertained and where special lectures, meetings, concerts, receptions and dances can be held.

In addition to study-bedrooms for undergraduates, the buildings of the College provide accommodation for some members of the faculty. These resident dons, together with other members of the faculty who are Fellows of the College, are able to assist the undergraduates' college government carry out a varied cultural, athletic and social program.

CATHARINE PARR TRAILL COLLEGE

PRINCIPAL

Miss M. G. Fry, M.A. (DALHOUSIE), B.LITT. (OXON.)

SENIOR TUTOR

I. M. Sandeman, B.SC. (ST. ANDREW'S)

SENIOR DON

Miss Janet Bews, B.A. (QUEEN'S), M.A., PH.D. (LONDON)

ASSISTANT TO THE PRINCIPAL

Miss Elizabeth A. McLeod, B.A. (TORONTO)

The first women's college is named in honour of Catharine Parr Traill (1802-1899), a pioneer settler of the Peterborough district, botanist, and author of *The Backwoods of Canada* and numerous other works.

Traill College enjoys the gracious setting of a number of attractive old homes in a peaceful residential area. Each house accommodates resident students in study bedrooms while also offering academic and recreational facilities for all women students. Each house also accommodates a member of faculty as Resident Don. In 1966 and 1967 study bedrooms for an additional 100 women students, along with tutorial offices, seminar rooms and don's suites, are being built to tie in with the existing College buildings. The College common rooms and dining hall are furnished to invite relaxation and conversation. The Thursday "Fellows Dinner", at

which members of the academic staff who are Fellows of the College are present, has become an important College tradition. Many Fellows of the College have their tutorial offices in the College and teach in its seminar rooms. They actively assist in the development of college life, taking particular interest in the college library and in projects in the fine arts.

Each year Fellows and students of Trail College invite persons of academic distinction to visit the College for a few days as Visiting Scholars, meeting informally with members of the College and sharing in the life of the College in every way.

Students maintain the College library on an honour system, and the undergraduates' College Cabinet sponsors a varied program of academic, cultural, social and athletic activities. Non-resident students are welcomed as active contributors to all aspects of College life.

CHAMPLAIN COLLEGE

MASTER

W. L. Morton, B.A. (MANITOBA), M.A., B.LITT. (OXON.), LL.D. (TORONTO), D.LITT. (NEW BRUNSWICK), D.LITT. (MCGILL), F.R.S.C.

SENIOR TUTOR

C. M. Greene, B.A. (AMHERST), M.A. (COLUMBIA), PH.D. (HARVARD)

SENIOR DON

B. C. Gregory, B.A.SC. (TORONTO), PH.D. (CANTAB.)

RECORDER DON

B. L. Beach, B.A. (ACADIA), M.A. (DALHOUSIE), PH.D. (MCGILL)

The first building on the University's Nassau campus, and the third college within the University, is Champlain College for men. This College, the name of which honours the great explorer and founder of New France, hugs the shores of the Otonabee River in the Trent Valley. Of the river, Champlain wrote three and a half centuries ago:

*Nous passasmes par plusieurs lacs, qui sont
d'assez belles estenduës, comme aussi ladite
riuere qui passe parmy, est fort abondante
en bons poissons, etant certain que tout ce
païs est fort beau & plaisant. Le long du
riuage il semble que les arbres y ayent este
plantez par plaisirs, en la plusparts
des endroits.*

Samuel de Champlain

Voyages et Descouvertes Faites en la Nouvelle France,
depuis l'année 1615 jusques a la fin de l'année 1618.

The buildings of the College include residential and academic facilities for a community of more than 300 resident and non-resident members.

Twin cornerstones for the College, one inscribed in English and one in French, were laid by the Hon. John Robarts, Q.C., LL.D., Prime Minister of Ontario, and the Hon. Jean Lesage, P.C., Q.C., LL.D., then Prime Minister of Quebec, in a colourful ceremony in October, 1965. The occasion marked the 350th anniversary, to the very month, of Champlain's historic voyage of discovery through the Valley of the Trent which may have taken his expedition down the Otonabee, passing within a few feet of the site of the College and through the centre of the University's campus.

These buildings, designed by the Master Architect of the University, Ronald J. Thom, are distinguished both in style and utility, and seek to enhance the experience of university life. The staircase plan in the two residential courts and the single study-bedrooms give every opportunity for study and the good life. Tutorial offices, seminar rooms and the lecture hall are designed to fit the method of study followed in Trent University. The College library is spacious and well appointed. The dining hall, which accommodates the entire membership of the College, adds to the dignity of College life. The Junior Common Room, Senior Common Room and Graduate Students' Common Room provide comfortable accommodation for general reading, conversation and company. A squash court and the river at the steps of the College suggest how sports may begin to develop in the College

LADY EATON COLLEGE

Lady Eaton College, the fourth college within the University and the first women's college on the Nassau site, is expected to open in September, 1968. Named in honour of Flora McCrea Eaton, a native of nearby Omemee and one of the original honourary sponsors of the University, the College will be a residential and academic community for more than 250 undergraduates and graduates, both resident and non-resident, as well as members of the academic staff. Situated on high ground to the west of Champlain College. Lady Eaton College will provide residence accommodation for some 220 students together with study rooms for both resident and non-resident members of the College. In addition to common room, dining and library facilities, the College will provide a permanent home for the Lady Eaton Collection of Eskimo Art. Construction is expected to begin early in 1967.

Library

J. D. P. Martin, B.A. (QUEEN'S), B.L.S. (MCGILL)

Librarian

B. Cossar, B.A. (QUEEN'S), B.L.S. (MCGILL)

Administrative Assistant to the Librarian

E. C. Guillet, B.A. (TORONTO), M.A. (MCMASTER), LL.D. (QUEEN'S)

Consultant on Canadiana to the Librarian

Miss H. Kelley, B.A. (QUEEN'S), B.L.S. (TORONTO)

Principal Cataloguer

Miss M. Hargrove, B.H.SC., B.L.S. (TORONTO)

Assistant Reference and Circulation Librarian

Miss A. Skorski, B.A. (TORONTO), B.L.S. (MCGILL)

Assistant Order Librarian

The University Library is the centre of university scholarly activity. At present it occupies the lower floors in the south wing of Rubidge Hall with space for reference, reading and stack facilities. The main book collection, housed in open-access stacks and designed primarily to meet current student needs, will number more than 75,000 volumes by September, 1967, and is rapidly expanding to serve both student and faculty readers. Further book and reader space will be added during the summer to the present facilities which provide space for a hundred readers and 60,000 volumes. In the reference reading area there is a reference collection of 4,000 volumes and a current periodicals collection of almost 1,000 titles.

A number of special collections have been formed and, to support the University's interest in Canadian studies, the Library has concentrated on the acquisition of Canadiana. This collection has been augmented by such gifts as the G. M. Douglas Arctic collection, the Perkins Bull collection of prints, and the Lady Eaton collection of Eskimo art. The local collection of materials relating to the Trent Valley has been enriched by the acquisition of family and institutional papers and a wide variety of other archival materials.

The recently established Library of Religion, incorporating the Bishop Webster Collection, provides printed source material for scholars in religion, philosophy, history and related subjects.

An important feature of library development within the University is the creation of the libraries of Catharine Parr Traill College, Peter Robinson College and Champlain College. Each College library seeks to

provide a basic reference collection and works used in first and second year courses, as well as a browsing collection. Special interests within each college are beginning to be reflected in their browsing collections which members of the colleges select and purchase themselves. At Catharine Parr Traill College, for example, a good collection in the fine arts is being formed. It is the purpose of recent expansion of the town college libraries and the new Champlain College library to provide study space within the colleges for non-resident students to encourage them to spend as much time as possible in, and to identify themselves with, their college.

The Trent University Library is approved by the Federal Government as a selective depository for Canadian Government documents. Since October, 1963, it has been a participating member of the Ontario New Universities Library Project, financed by the Ontario Government and designed to assist new universities in Ontario in quickly acquiring basic undergraduate book collections.

The first phase of the permanent University Library will be the fourth building to be constructed on the Nassau site and is expected to open in 1968. It is designed to accommodate a collection of 300,000 volumes.

Admission and Registration

ADMISSION REQUIREMENTS

I. NORMAL REQUIREMENTS

To be considered for admission to Trent University, a candidate should normally have standing in at least seven Ontario Grade 13 credits, in at least four subject areas, with an average of at least 60%. English must be one of the four subjects for admission to the Bachelor of Arts program. The University recommends, but does not require, standing in another language.

Candidates seeking admission to the Bachelor of Science program must present standing in Mathematics A and B; at least two of Physics, Chemistry or Biology; and a subject or subjects not chosen above to secure a minimum of seven credits.

The following Ontario Grade 13 subjects (or their equivalent) are approved subjects for purpose of admissions to Trent University:

ONE CREDIT: Biology, Chemistry, Physics, Geography, History, Music or Art. A candidate may not offer both Music and Art.

TWO CREDITS: English, French, German, Greek, Italian, Latin, Russian, Spanish or Mathematics A (alone).

THREE CREDITS: Mathematics A and B

In lieu of Ontario Grade 13 Music, standing in one of the following examinations of the Royal Conservatory of Music of Toronto or equivalent is accepted: (i) Grade 8 Practical with Grade 2 Theory: (ii) Grade 4 Theory. If the RCMT or equivalent examinations are offered, candidates must have the required overall average for the course sought on the academic credits offered. RCMT or equivalent examination marks are not included in the calculation of the overall average.

Applicants who are taking Grade 13 in two years must write at least five departmental credits in June, 1967, if they wish to be considered on the basis of admission requirements for September, 1967. Candidates who submit fewer than five credits written in June, 1967, along with credits written in previous years will be expected to submit their standing in nine credits. Preference will be given those students completing Grade 13 (or

equivalent) in one year. *Possession of the minimum requirements does not in itself guarantee admission, and the limitation of residential accommodation makes early application advisable.* Applications may be made as soon as Christmas examination results are available. Although it is not compulsory, applicants for admission to Trent University are encouraged to submit the results of OSAT to be administered by the Ontario Institute for Studies in Education. The submission of any or all results of achievement tests in English, Physics and Mathematics would also be welcomed.

2. EQUIVALENTS TO ONTARIO GRADE 13

Alberta, Manitoba, Nova Scotia, Saskatchewan—Grade 12

British Columbia, New Brunswick—Grade 13

Newfoundland—First year, Memorial University

Prince Edward Island—Third year Certificate of Prince of Wales College

Quebec—McGill Senior School Certificate, Senior High School Leaving Certificate, English Catholic Senior High School Leaving Certificate (Fifth Year High School—Grade 12)

England and Wales, West Indies, East and West Africa, Hong Kong—General Certificate of Education (or University of Hong Kong Matriculation Certificate), with (a) passes in at least five subjects, two of which must be at Advanced Level; or (b) passes in four subjects of which three must be at Advanced Level; or School and Higher School Certificate (credits on the School Certificate, and subsidiary passes on the High School Certificate are equated with ordinary level passes on the General Certificate of Education; principal or main subject passes on the Higher School Certificate are equated with advanced level passes on the General Certificate of Education).

Scotland—The Scottish Leaving Certificate.

U.S.A.—First-year university credits (a minimum of 30 semester hours) from accredited institutions. Normally, a United States High School Graduation Diploma is not sufficient for admission, but the University invites applications from superior students who have graduated from schools of recognized excellence. Applicants are required to submit College Entrance Examination Board scores. Students from areas other than those listed above should submit full details and available certificates to the Registrar for evaluation.

3. EXCEPTIONS TO NORMAL REQUIREMENTS

The University is prepared to consider applications from the following:

(a) Candidates who, while failing to meet the regular requirements, can

satisfy the University that they are likely to be successful in university work. Such candidates will be considered for admission only if exceptional abilities or circumstances are involved, and should attach to their application a letter giving details that might be helpful to the Admissions Committee. Applications from such candidates cannot normally be considered unless submitted before June 30 of the year in which the applicant seeks admission.

(b) Candidates at least 25 years old on January 1 of the year in which they make application, whose academic record shows no major weaknesses, and whose maturity may well compensate for deficiencies in the formal requirements. Such candidates should attach to their applications a letter giving details that might be helpful to the Admissions Committee. Applications from such candidates cannot normally be considered unless submitted before June 30 of the year in which the applicant seeks admission. Scores of the Scholastic Aptitude Test of the College Entrance Examination Board must be submitted by all such applicants.

4. SPECIAL REQUIREMENTS

(a) Candidates from areas where English is not a common language will be required to provide evidence of a knowledge of English sufficient to enable them to profit from their university studies.

(b) Candidates wishing to study Chemistry, French, Latin, Mathematics or Physics at the University should have Ontario Grade 13, or equivalent standing in that subject.

(c) Candidates wishing to study Biology as a major subject at the University are required to present Ontario Grade 13, or equivalent standing in Chemistry.

(d) Candidates who propose to proceed to another university for studies in Medicine or Dentistry should consult this calendar's section on Pre-Professional Studies for details about the entrance requirements for faculties of Medicine and Dentistry in Ontario.

5. ADMISSION WITH ADVANCED STANDING

The University will consider applications from students of other universities for admission with advanced standing. Applicants for advanced standing must send with the application their Ontario Grade 13 certificates, or equivalents, and must arrange for the forwarding of official transcripts of their university records direct to the Registrar of Trent University. To enter with advanced standing, students must complete the regular summer reading assignments.

6. SPECIAL STUDENTS

The University may enrol a limited number of special students pursuing part-time programs. Individual applications for admission as special students will be considered on their merits by the Admissions Committee.

7. DEBARMENT

No student will be admitted to any year who has failed twice to obtain a year's standing at Trent or another university.

ADMISSION PROCEDURES

Application forms, available from the Registrar, should be completed and sent to the Registrar, preferably between January and June in the year for which the applicant seeks admission.

Early admission to the University will be granted to candidates who have maintained an outstanding record of achievement throughout secondary school. These candidates will be notified of their admission prior to the completion of their Grade 13 final examinations.

Guaranteed admission will be granted to some candidates, final admission being contingent upon their attaining certain standards in the Ontario Grade 13, or equivalent, examinations. The standards demanded of those guaranteed admission will be specified in the letter granting guaranteed admission.

Candidates for admission from outside Ontario, or candidates from Ontario who wrote Grade 13 examinations before 1964, must submit Grade 13, or equivalent, certificates or certified copies of these, showing their standing in each subject. Certificates are not required for the Ontario Grade 13 examinations of 1964 and later years.

Candidates for admission may be asked to attend an interview with the Admissions Committee.

Each admitted candidate will receive a medical report form from the University. The form should be completed, preferably by the candidate's regular physician, and sent to the University Health Service before registration.

Each candidate for admission will be notified of the University's decision concerning his or her application as early as possible.

REGISTRATION

Entering students who have been notified of their admission to the University will register in person during the Introductory Seminar.

Registration is complete when an undergraduate has been informed of

his admission by the University, has met with the Head of his College, has paid at least the first instalment of his fees, and has completed registration in an approved program of studies with his supervisor of studies.

Any change in registration must be completed not later than October 6 in consultation with the undergraduate's supervisor of studies. A fee of \$10 may be charged to those registering late.

Scholarships and Prizes

Trent University has a generous scholarship program designed to reflect its insistence on high standards and to reward and encourage its leading students.

Through the generosity of private donors, about 25 scholarships have been endowed; these scholarships will be awarded to students entering the University and in course. In addition, the University awards a generous number of scholarships to students entering the University with high standing. All scholars of the University hold the title University Scholar.

No separate application for scholarships awarded by the University is necessary since all students with high standing will automatically be considered for them. All University scholarships may be held in conjunction with other scholarships awarded by external agencies when their conditions permit, up to a normal maximum of \$1,500 in 1967-68. In order to be considered for scholarships, students entering first year must write at least five of the seven credits required for admission in June, 1967. No student applying for admission to the University after August 1, 1967, will normally be considered for a scholarship.

The University endeavours to guarantee all scholarship holders, including those from Peterborough and the surrounding area, places in residence if they wish them.

Champlain Scholarships

Champlain Scholarships are available for students of exceptionally high academic achievement and promise, whether entering the University or in course. Each scholarship has an annual value of \$1,500 for students living in residence and of \$1,000 for non-residents, and will be renewed each year at full value so long as the holder's work is of high standard.

Ten Champlain Scholarships are available in the academic year 1966-67. Five are open to all students. In addition, one Champlain Scholarship is available to students in each of the following categories:

- (a) students normally resident in British Columbia, Alberta, Saskatchewan or Manitoba;
- (b) students normally resident in Ontario;
- (c) French-speaking Canadians;
- (d) students normally resident in Quebec or one of the four Atlantic Provinces;
- (e) students normally resident in another country.

Holders are given the title of Champlain Scholar.

Peterborough Examiner Scholarship

The scholarship, the gift of Peterborough Examiner Co. Ltd., of the value of \$1,200 for one year, is available to an outstanding student entering first or a higher year and living in residence. The holder is given the title of Peterborough Examiner Scholar.

Trent University Scholarships

Trent University Scholarships of the normal maximum value of \$200 for one year are available to students of high academic achievement entering first or higher years in the University.

Bata Scholarship

The scholarship, the gift of Thomas J. Bata of Batawa, Ont. — one of the original honorary sponsors of the University and a member of the Board of Governors — is of the value of \$550 for one year. The holder is given the title of Bata Scholar.

Roscoe F. Downey Scholarships

Two scholarships, the gift of the late Roscoe F. Downey of Peterborough, each of the value of \$100 for one year, are available to entering students, one from Peterborough County and one from Victoria County. Holders are given the title of Roscoe F. Downey Scholar.

Faculty Scholarship

A scholarship, the gift of a member of the academic staff of Trent University, of the value of \$500 for one year, is available to an entering student living in residence. The holder is given the title of Faculty Scholar.

Reginald R. Faryon Scholarships

These six scholarships are the gift of the Quaker Oats Company of Canada and are named in memory of one of Trent University's most dedicated and revered founders, the late Reginald R. Faryon. Each Faryon Scholarship is of the value of \$400 for one year. Holders are given the title of Faryon Scholar.

Rufus Gibbs Scholarships

Five scholarships, the gift of Rufus C. Gibbs—a member of a Peterborough family and now resident in Vancouver—each of the value of \$500 for one year, are available for annual award to students in all years, on the basis of academic standing, all-round achievement and character. Holders are given the title of Rufus Gibbs Scholar.

The Institute of Chartered Accountants of Ontario Scholarship

This scholarship, the gift of the Institute of Chartered Accountants of Ontario, of the value of \$300, is awarded to a third-year student with first-class standing in second year.

Francis Dean Kerr Scholarship

The scholarship, the gift of Mrs. F. D. Kerr of Peterborough, is named in honour of her late husband who was one of the original honorary sponsors of the University, and is of the value of \$550 for one year. The holder is given the title of Francis Dean Kerr Scholar.

William Allan Newell Scholarship

The scholarship, the gift of Judson Newell of Prescott, Ont., is named in honour of his father, the chairman and founder of the Newell Manufacturing Co. Ltd. Of the value of \$550 for one year, it is available to an entering student proceeding to the degree of Bachelor of Science. The holder is given the title of William Allan Newell Scholar.

The Peterborough Chapters, I.O.D.E. Centennial Scholarships

Five scholarships, the gift of the Peterborough Chapters of the IODE, each of the value of \$200 for one year, are available for award to entering students from the City of Peterborough in the academic year 1967-1968. Holders are given the title of IODE Centennial Scholars.

Katherine E. Scott Scholarships

Two scholarships, the gift of Dr. C. M. Scott of Peterborough, are named in honour of his late wife. Each scholarship is of the value of \$550 for one year. Holders are given the title of Katherine E. Scott Scholar.

H. Clare Sootheran Scholarship

The gift of the late H. Clare Sootheran, a citizen of Peterborough, this \$250 annual scholarship is awarded for excellence in the Faculty of Arts. The holder is given the title of Sootheran Scholar.

Externally Awarded Scholarships

A number of scholarships (and bursaries) are awarded by bodies outside the University. A number of corporations, for instance, have special pro-

grams for dependents of their employees.

Particular attention is drawn to the Ontario Scholarships, which are awarded by the Province of Ontario to outstanding Ontario students. Information about these and application forms for them may be obtained from school principals.

SCHOLARS 1966-67

Champlain Scholars

H. A. V. Arthur, Barbados,
West Indies
Miss S. Atwood, Camp Borden
L. W. Donkor, Accra, Ghana
Miss B. Finlayson, Ottawa
Miss M. Jackson, London
D. F. T. Perry, Toronto
Miss E. A. Ridler, Willowdale
S. Stohn, Toronto
Miss F. Withers, Toronto
C. E. Wright, Gananoque

University Scholars

G. D. Aitken, Toronto
D. Barron, Ottawa
Miss V. Beauchamp, Arnprior
S. Book, Ancaster
Miss F. Braithwaite, Downsview
Miss A. Clark, Montreal, Que.
Miss E. Clysdale, Peterborough
P. Cragg, Ottawa
G. Evans, Moscow
Miss S. Fry, Oshawa
P. Fox, Peterborough
Miss C. Gilmore, Kingston
I. Graham, Codrington
Miss S. Grimmett, Aurora
Miss M. Harrington, Lindsay
R. Inglis, Ottawa
Miss W. Jackson, Peterborough
Miss J. Johnston, Toronto
Miss J. Judds, Arnprior
Miss S. Knapik, Batawa

Miss L. Kulaszka, Brighton
R. Laycock, Toronto
Miss M. Lisk, Blenheim
J. LeSauvage, Heron Bay
Miss V. Marks, Toronto
Miss L. Martin, Peterborough
Sister Mary Josephine, Peterborough
Miss C. Mazurkewick, Port Arthur
Miss M. Miller, Whitby
Miss J. McCartney, Peterborough
Miss S. McGill, Amherstburg
Miss S. McLennan, Arnprior
Miss N. Moore, Peterborough
G. O'Brian, Toronto
Miss S. O'Reilly, Sarnia
Miss M. Pelletier, Orono
W. Phillips, Trenton
Miss E. Porteous, Cavan
Miss M. Potter, Burford
Miss L. Powell, Trenton
G. Richards, Peterborough
Miss L. Sibley, Tory Hill
D. Sims, Downsview
Miss B. Sissons, Markham
Miss S. Smith, Oshawa
Miss L. Spicer, Peterborough
Miss V. Stephens, Sault Ste. Marie
Miss P. Stevens, Centralia
Miss R. Taylor, Claremont
Miss C. Tennant, Peterborough
J. Thorp, Ottawa
A. Thwaites, Burlington
Miss J. Ulyot, Camp Borden
Miss A. Zeller, Cooksville

Peterborough Examiner Scholar

D. L. Brodie, Toronto

Dewart Scholar

Miss M. E. Ziroff, Peterborough

Faryon Scholars

Miss J. Judd, Arnprior

Miss L. Kulaszka, Brighton

Miss M. List, Blenheim

Sister M. Josephine, Peterborough

Miss J. Nagengast, Winnipeg, Man.

Miss C. Szulak, Oshawa

Francis Dean Kerr Scholar

Miss M. Swiss, Peterborough

Rufus Gibbs Scholars

Miss M. M. Free, Omemee

R. G. Korth, Agincourt

Miss D. M. Lasenby, Peterborough

Miss P. R. Orvis, Peterborough

Miss B. Sissons, Markham

Katherine E. Scott Scholars

Miss S. Fry, Oshawa

Miss R. Taylor, Claremont

Bata Scholar

Miss J. Johnston, Toronto

Roscoe F. Downey Scholars

Miss M. Harrington, Lindsay

Miss L. Martin, Peterborough

PRIZES

The Consul General's Prizes in French

These prizes, the gift of the Consul General of France, are awarded annually to the four leading undergraduates in French studies within the University.

Philip Creighton Writing Prize

This prize, the gift of Philip W. B. Creighton of Toronto, is awarded annually to an undergraduate who shows excellence in writing submitted as part of the regular assignments during the academic year.

The Don's Award

This award, the gift of the dons of Peter Robinson College, is given in the Winter Term to a student of Peter Robinson College in any year who has contributed significantly to the life of the College and whose academic performance in relation to his ability is clearly satisfactory. The award will not normally be given to a student twice.

Fellows' Prize

This prize, the gift of the Fellows of Catharine Parr Traill College, is awarded annually to the student of that College who shows the greatest improvement in academic work in the year.

Gadfly Prize

This prize, the gift of the academic staff in Philosophy, is available for award annually to the leading undergraduate in Philosophy entering his or her graduating year. The prize commemorates Socrates' description of

himself as one who rouses and reproves the society in which he lives just as a gadfly awakens a sluggish horse.

Hon. Leslie Frost Prize

This prize, the gift of the Hon. Leslie M. Frost, P.C., Prime Minister of Ontario from 1949 to 1962 and Member of the Legislative Assembly of Ontario for the constituency of Victoria from 1937 to 1963, is awarded annually to the leading undergraduate in the first year course in History.

Lorna Gibbons Harris Prize

This prize, the gift of Professor Robin S. Harris in honour of the memory of his mother, Lorna Gibbons Harris of London, Ont., is awarded annually to the leading undergraduate in the first year course in English Literature.

Hon. George S. Henry Prize

This prize, in memory of the Hon. George S. Henry, Prime Minister of Ontario from 1930 to 1934, and Member of the Legislative Assembly of Ontario for the constituency of East York from 1913 to 1943, is awarded annually to the leading undergraduate in the first year course in Politics.

Ian McLean Creative Writing Prize

This prize, the gift of Mr. Ian McLean of Montebello, Que., is awarded annually to an undergraduate who shows excellence in writing submitted as part of regular assignments during the academic year.

Midwives' Prize

This prize is the gift of the three members of the Universities Liaison Committee who assisted at the birth of Trent University, and who did so much to make the birth a happy one: Professor J. M. Blackburn, then of Queen's University; Dean Frank Stiling, of the University of Western Ontario; and Dr. M. St. A. Woodside, Vice-President of the University of Toronto. Professor Blackburn, Dean Stiling and Dr. Woodside were named by the heads of their universities to act as a liaison committee between these three universities and the Founding Board of Trent University in its early years. The prize is awarded annually to the undergraduate with the highest overall standing in the first year.

The Peterborough Professional Engineers Wives' Association Prize

This prize, the gift of the association, is awarded to an undergraduate who shows excellence in the second year courses in Physics or Chemistry.

Victor T. Ridley Memorial Prize

This prize, the gift of Mrs. V. T. Ridley in memory of her husband,

Victor T. Ridley of Peterborough, is awarded annually to the leading undergraduate in the first year in Mathematics.

Hon. Sidney Smith Prize

This prize is named in honour of the Hon. Sidney Smith, Member of the Legislative Assembly of the United Province of Canada for the West Riding of Northumberland from 1854 to 1861, Postmaster General of the United Province of Canada from 1858 to 1862, and elected Member of the Legislative Council for the United Province of Canada for the Trent Division from 1861 to 1863. It is the gift of the Hon. S. Bruce Smith, Chief Justice of Alberta, and of Muriel Turner and H. G. H. Smith, Q.C., of Winnipeg, and is awarded annually to the leading undergraduate majoring in Politics and History in the second year.

Tom Patterson Fund

The gift of an anonymous donor, this fund has been established to assist an undergraduate wishing to attend the Universities of Canada Stratford Seminar. At the request of the donor this has been named for H. Thomas Patterson, founder and planning consultant of the Stratford Shakespearean Festival Foundation.

RECIPIENTS OF UNIVERSITY PRIZES: 1965-66

Consul General's Prize

G. D. Aitken, Peterborough
Sister Mary Irene, Peterborough
C. E. Wright, Gananoque
Miss M. E. Ziroff, Peterborough

Philip Creighton Prize

Miss P. R. Orvis, Peterborough

The Dons' Award

R. G. Korth, Agincourt
R. Lerpiniere, Lively

Fellows' Prize

Miss S. M. McBride, Peterborough

Gadfly Prize

R. G. Korth, Agincourt

Honourable Leslie Frost Prize

R. P. Gillis, Cameron

Lorna Gibbons Harris Prize

Sister M. Josephine, Peterborough

Honourable George S. Henry Prize

H. A. V. Arthur, Barbados,
West Indies

Ian M. McLean Prize

D. L. Brodie, Toronto

Midwives' Prize

Miss C. O. Achareke, Umuahia,
Nigeria

Victor T. Ridley Memorial Prize

Miss C. O. Achareke, Umuahia,
Nigeria

Honourable Sidney Smith Prize

D. Martin, Newcastle

BURSARIES

Philip Black Award

The award is the gift of Isadore and Morris Black of Peterborough in memory of their father, Philip Black—the first Rabbi in Peterborough. Value: \$50.

Reginald R. Faryon Bursary

The award is the gift of the Peterborough Branch of B'nai B'rith in memory of Reginald R. Faryon. Value: \$50.

Peterborough Chapter of Hadassah Bursary

The award is the gift of the Peterborough Chapter of Hadassah. Value: \$100.

Agneta Holt Award

The award is the gift of the University Women's Club of Peterborough as a memorial to the late Mrs. Agneta Holt. The amounts, conditions and recipients are determined by the Club.

Women's Auxiliary Branch No. 575 to Royal Canadian Legion,

Bridgenorth, Bursary

The award is the gift of the Women's Auxiliary Branch No. 575 of the Royal Canadian Legion, Bridgenorth, and is for award to a son or daughter of a veteran residing in Smith Township. Value: \$50.

'In Course' Bursaries of the Atkinson Charitable Foundation

These bursaries may be awarded to meritorious Ontario undergraduates in second and higher years. Information and application forms are available from the Registrar.

UNIVERSITY AFFAIRS STUDENT AID PROGRAM

The Province of Ontario and the Government of Canada provide a program of grants and loans to university students through the University Affairs Student Aid Program. This program is not based on academic standing but is related to the established need of the student in the individual year of the University. Awards are made by the Department of University Affairs, after assessment of need, and are divided between provincial grants and Canada Student Loans according to a formula established by the Government. Students may obtain details of this program through school officials or from: Student Awards Officer, Department of University Affairs, 481 University Ave., Toronto 2.

Students from outside Ontario who need financial assistance in university are strongly urged to consult with officials in their schools about available loan and bursary assistance. The University has a bursary fund to assist needy students not eligible for government assistance.

Academic Program

The Faculty of Arts and Science of the University offers at the undergraduate level both an ordinary program leading in three years to the degrees of Bachelor of Arts and Bachelor of Science and an honours program leading in four years to these same degrees with Honours. At the graduate level, a limited number of qualified students may be admitted to programs leading to the degrees of Master of Arts and Master of Science and, in some cases, to the degree of Doctor of Philosophy. The degree programs are designed to be flexible so that the particular needs and interests of individual students may be satisfied. Each student chooses his program in consultation with his supervisor of studies, who seeks to ensure that the program is coherent and well-ordered.

VACATION READING AND STUDY

The value of the academic program depends to a considerable extent on reading and study done during the vacations, especially during the summer. The academic staff carefully supervises this reading and study, considered an integral part of every course.

RESIDENTIAL READING AND LABORATORY WEEKS

During the two residential reading and laboratory weeks, students continue their studies at the University under the guidance and supervision of their tutors. The library and laboratories are open to students during these periods although no formal class meetings or examinations are held.

Ordinary Program

In the ordinary program, undergraduates study five courses in each academic year. In the first year of the three-year program, undergraduates register in five courses in five subjects. In their second and third years, undergraduates may choose to pursue a fairly broad single-major program, or a fairly specialized joint-major program.

1. *Single-major program.* This program is designed for the undergrad-

uate who wishes a broad general education, with concentrated work in a single subject to provide a focal point of study. In the second year a single-major program consists of two courses in one subject (the 'major' subject), and three courses in three other subjects (the 'minor' subjects). In the third year, a single-major program consists of two or three courses in the major subject and three or two courses in minor subjects. Thus, of the fifteen courses in the degree program, five or six are in the major subject.

2. *Joint-major program.* This program is designed for the undergraduate who wishes a fairly specialized education in two subjects. In the second year, a joint-major program consists of two courses in each of two subjects (the 'major' subjects) and a fifth course in a minor subject. In the third year, a joint-major program consists of two courses in each subject and a fifth course in either a minor or a major subject. Thus, of the fifteen courses in the degree program, five or six are in each of the major subjects.

3. *Minor subjects.* While the major subject(s) must be studied throughout the three years of the program, minor subjects need not necessarily be continued from year to year. Courses in minor subjects in second and third years need not necessarily be chosen from courses primarily prescribed for second and third year respectively.

4. *Bachelor of Science in the ordinary program.* Undergraduates proceeding to the degree of Bachelor of Science in the ordinary program are normally required to take at least eleven courses (of the total of fifteen required for the degree) in Science and Mathematics.

Honours Program

1. Four year honours programs, leading to the degrees of Bachelor of Arts (Honours) and Bachelor of Science (Honours), are available in a number of disciplines. As the University expands and develops, additional honours programs will be offered. It is expected that in 1967-68 honours programs will be offered in the following disciplines: Biology, Chemistry, English, French, History, Mathematics, Philosophy, Physics, Politics, Sociology.

2. Both single-major and joint-major honours programs are available. Students intending to apply for admission to honours programs should consult as early as possible with chairmen of the departments concerned and with their supervisors of studies concerning available programs.

3. Undergraduates shall normally apply for admission to honours programs at the end of the second year of university studies; in exceptional cases applications will also be considered from students at the end of the third year of studies. Second-class overall standing and second class in the proposed field(s) of honours study are normally necessary in the preceding year for admission to the honours program.

4. Normally undergraduates study five courses in each of their first three academic years. In the single-major program, after first year, not less than two courses are in one subject (the 'major' subject). In the fourth year, four or five courses or their equivalent will normally be taken in the major or related subject(s). In some subjects an examination involving an external examiner may be required.

5. The fourth year programs of studies for undergraduate students for 1967-68 will be determined during the third year by the chairmen of departments concerned, in consultation with the students and supervisors of studies. Final confirmation of the acceptance of students into the fourth year and approval of the students' proposed programs of study will be given at the end of the third year by the Committee on Undergraduate Studies.

Graduate Studies

Programs of graduate studies, leading to the degrees of Master of Arts, Master of Science and Doctor of Philosophy, are available in a few areas of studies to a limited number of graduate students. Further information concerning these programs is available from the Registrar.

Academic Standing

ASSESSMENT OF STANDING

Work done during term and in the reading periods, any mid-year or other examinations, and the final examinations will be considered in determining an undergraduate's final standing in each course.

GRADES

The passing grades in all courses in all academic years are: first class, second class, third class, and, in minor courses only, fourth class. An undergraduate with exceptionally high first-class standing will receive a grade of first class with distinction; an undergraduate with very high second-class standing will receive a grade of upper second class. The failing grades are E and F. In the ordinary program an E grade may permit the writing of a supplemental examination.

In each academic year, undergraduates are informed of their standing in each course and of their overall standing.

STANDING REQUIRED

For successful completion of an academic year, the following standings are required:

Ordinary Program: First Year

A minimum of fourth-class standing in the individual courses, and overall third-class standing are normally required. Third class standing is required in subjects in which an undergraduate wishes to major.

Ordinary Program: Second and Third Years

A minimum of fourth-class standing in minor courses and of third-class standing in major courses, and overall third-class standing are required.

Ordinary Program: Supplemental Examinations

One supplemental examination will be permitted, in first year or minor courses of the ordinary program only, (i) when E standing has been obtained in the course concerned, and (ii) when passing standing has been obtained in other subjects. A supplemental examination must be passed in the following August examinations; if it is not, the undergraduate will

automatically fail the year. A fee of \$15 is charged for the preparation and grading of each supplemental examination. Candidates for supplemental examinations must submit to the Registrar, by July 15, a completed form of application accompanied by the fee of \$15.

Honours Program

Regulations governing academic standing in the Honours Program will be published in a supplement to this Calendar in the spring.

AEGROTAT STANDING

Petitions for special consideration because of sickness or misfortune should be sent to the Registrar within forty-eight hours of the close of the examination period together with medical certificates and other material. The University may grant aegrotat standing, or permission to write examinations in August.

UNSATISFACTORY WORK

The University may, at any time, ask any student whose work is unsatisfactory to withdraw from the University.

WITHDRAWAL

A student who withdraws from the University before March 1 of any academic year shall not be granted any academic standing. A student who withdraws on March 1 or thereafter shall be deemed to have failed his year.

DEBARMENT

A student who has twice failed to qualify for standing for a year's work, at Trent or another university, will be debarred from the University.

APPEALS

All papers assigned a failing grade and all those assigned upper second-class or first-class grades will be reread by another examiner. Before final publication the standings of each undergraduate will be reviewed by a Committee of the Senate. Nevertheless, every student has the right to appeal against standing assigned on any paper regardless of whether it received pass or failing standing. A fee of \$15 will be charged for the handling of an appeal, but the fee will be refunded if a grade is raised.

Courses of Study

The subjects which follow are those offered in the academic year 1967-68. Further subjects will be offered in succeeding years.

Courses normally taken in first year are numbered 10, 11, etc.; those in second year, 20, 21, etc.

Each undergraduate chooses the courses constituting his program in consultation with his supervisor of studies.

In every subject, enrolment in second and higher year courses presupposes satisfactory completion of the summer reading program.

Descriptions of fourth-year courses will first be published in a supplement to this Calendar.

The University reserves the right to make such changes in courses as it deems desirable or necessary.

ANCIENT HISTORY

G. Bagnani, D.LITT. (ROME), F.R.S.C.
Professor in Ancient History

Ancient History may be studied as a minor subject in the ordinary and honours programs. Enrolment is limited in each course and permission must be sought from the department. Students majoring in History or Classics who wish to elect courses in Ancient History as a part of their major program should consult the chairman of the department concerned. *Ancient History 10* is normally the prerequisite for other courses in Ancient History.

Ancient History 10

The history of Greece to the death of Alexander, with special emphasis on political and cultural history.

Ancient History 20

The Hellenistic Monarchies and the rise and decline of the Roman Republic.

Ancient History 30

The Roman Empire from Augustus to Justinian, with special emphasis on social and economic developments and the establishment of Christianity.

ANTHROPOLOGY

K. E. Kidd, M.A. (TORONTO)

Associate Professor of Anthropology and Chairman of the Department

P. D. Harrison, M.A. (TORONTO)

Assistant Professor of Anthropology

R. Vastokas, M.A. (TORONTO)

Assistant Professor of Anthropology

Anthropology may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary program.

Anthropology 10

Introductory Anthropology. A survey of the four branches of anthropology: Physical Anthropology, Archaeology, Cultural Anthropology, and Linguistics. Major topics of discussion will be human development, principles of archaeology and a brief world survey of archaeology, patterns of culture among pre-literate peoples, and an examination of structural linguistics. Where applicable, Canadian examples will be used. Prerequisites: none, but Grade 13 Biology is desirable.

Anthropology 20

Cultural Anthropology. An analysis of the dimensions of culture in pre-literate societies, considered in terms of technology, social organization and ideology, including a survey of current approaches to the study of culture. Prerequisite: *Anthropology 10* or permission of department.

Anthropology 21

Selected themes in New World Archaeology. Method and theory of American archaeology and a study of some problems and areas. Prerequisite: *Anthropology 10* or permission of department.

Anthropology 30

Applied Anthropology. An analysis and appraisal of the resources of Anthropology in the area of cultural dynamics, and a critical survey of conscious use of anthropological information and theory in the introduction of new ideas and techniques. Prerequisite: *Anthropology 20* or permission of department.

Anthropology 31

Ethnohistory. The principles of ethnohistory and the application of those principles to the New World context. Native cultures and their interactions with European cultures after the introduction of the latter are studied from source material, as are some of the problems arising from such contacts. The archaeology of the historic period is also surveyed. Prerequisite: *Anthropology 10* and *Anthropology 20*.

BIOLOGY

R. L. Edwards, M.A., D.PHIL. (OXON.)

Professor of Biology and Chairman of the Department

J. C. Ritchie, B.SC. (ABERDEEN), PH.D. (SHEFFIELD), D.SC. (ABERDEEN)

Associate Professor of Biology

J. E. Nighswander, B.SC.F. (TORONTO), PH.D. (WISCONSIN)

Assistant Professor of Biology

I. M. Sandeman, B.SC. (ST. ANDREWS)

Assistant Professor of Biology

D. W. Schindler, B.S. (NORTH DAKOTA), D.PHIL. (OXON).

Assistant Professor of Biology

Miss Sharon Grace Smith, B.A. (SAN DIEGO), PH.D. (STANFORD)

Assistant Professor of Biology

Miss Christine D. Maxwell, B.SC. (WALES)

College Tutor in Biology

Mrs. J. C. Federovich, M.SC. (MANITOBA)

Demonstrator

Mrs. G. N. Gillespie, M.A. (TORONTO)

Demonstrator

Biology may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs. Students planning to major in Biology are advised to take Biology, Chemistry and Mathematics at Grade 13 level. Biology 10 is a prerequisite for all other courses in Biology.

All courses in the first three years, and normally three courses in the fourth year, involve laboratory work. In the fourth year of the honours program an opportunity will be given to study a limited number of aspects in considerable detail.

The regular courses for undergraduates studying Biology are as follows:

- a) Biology as a minor subject in ordinary and honours programs:
Biology 10, Biology 20 or 21, one other course in Biology.
- b) Biology as a major subject in the ordinary program:
Biology 10, 20, 21, 30, 31 and 32.
- c) Biology as a joint major subject in the honours program:
Biology 10, 20, 21, 30, 31, 32, and two other courses in Biology.
- d) Biology as a single major subject in the honours program:
Biology 10, 20, 21, 30, 31, 32, and five other courses which may be either in Biology or in another field approved by the Department of Biology.

Students planning to take Biology at any level should arrange their program of studies in such a way that the necessary prerequisites can be met. The following course patterns are recommended for those taking Biology as a single major subject.

1ST-YEAR *Biology 10, Chemistry 10, Mathematics 10*, and at least one other science.

2ND-YEAR *Biology 20, Biology 21, Chemistry 21, Mathematics 22*, and one other course.

3RD-YEAR *Biology 30, Biology 31, Biology 32*, and at least one other science.

Biology 10

General Biology. A presentation of biological principles as displayed by both animals and plants.

Biology 20

The animal kingdom. A comparative study of the main groups of animals, their structure, development, physiology, life history, and phylogenetic relationships. Prerequisite: *Biology 10*.

Biology 21

The plant kingdom. A comparative study of the main groups of plants, their structure, development, physiology, life history, and phylogenetic relationships. Prerequisite: *Biology 10*.

Biology 30

General Ecology. The relationship of plants and animals to their biotic and abiotic environment. Prerequisite: *Biology 20 or 21. Mathematics 22* is recommended.

Biology 31

General Physiology. The fundamental principles governing the functions of both animals and plants. Prerequisites: *Biology 20* or *21* and *Chemistry 21* or department permission.

Biology 32

General Cytology and Genetics. Microscopic structure and chemical composition of cytoplasmic and nuclear components of cells and tissues. Relation of the cell to fundamental genetic principles. Prerequisites: *Biology 20* or *21*.

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

CHEMISTRY

G. O. Aspinall, B.SC. (BRISTOL), PH.D. (BRISTOL), D.SC. (EDINBURGH), F.R.I.C.,
F.R.S.E.

Professor of Chemistry and Chairman of the Department

R. A. Stairs, B.SC. (MCGILL), M.SC. (WESTERN ONTARIO), PH.D. (CORNELL)
Associate Professor of Chemistry

S. A. Brown, B.S.A. (TORONTO), M.S., PH.D. (MICHIGAN STATE)
Associate Professor of Chemistry

A. H. Rees, M.A. (CANTAB., OXON.) PH.D. (LONDON), F.R.I.C.
Associate Professor of Chemistry

P. F. Barrett, M.SC. (QUEEN'S), PH.D. (TORONTO)
Assistant Professor of Chemistry

I. D. Chapman, B.SC. (LIVERPOOL), M.A. (TORONTO)
Assistant Professor of Chemistry

R. E. March, B.SC. (LEEDS), PH.D. (TORONTO)
Assistant Professor of Chemistry

Mrs. M. L. Amyotte, B.SC. (DUBLIN)
Demonstrator

Miss K. Simon, B.SC. (KERALA), M.SC. (SAUGAR)
Demonstrator

Chemistry may be studied as a minor subject or as a single-major or joint-major subject in the ordinary and honours programs. The normal prerequisite for the study of Chemistry is Grade 13 (Ontario) Chemistry, or its equivalent. *Chemistry 10* is the normal prerequisite for all other courses in Chemistry.

Except in the fourth year, each course involves weekly laboratory work in addition to lecture, tutorial and seminar hours.

Chemistry 10

General Chemistry. An introductory course in physical and inorganic chemistry. Atoms, molecules, crystals, chemical binding, ions, electrolysis, reaction rate, equilibrium, inorganic and organic descriptive chemistry.

Chemistry 20

Elementary Physical Chemistry. Kinetic theory of gases, thermodynamics, phase equilibria, chemical kinetics. Prerequisite: *Mathematics 10*.

Chemistry 21

Elementary Organic Chemistry. Structure, synthesis, and reactions of the principal classes of organic compounds, with an introduction to principles underlying reaction mechanisms and stereochemistry.

Chemistry 30

Physical Chemistry. Introduction to quantum chemistry, chemical bonding, statistical mechanics, spectroscopy, electrochemistry and theory of reaction rates. Prerequisite: *Chemistry 20*.

Chemistry 31

Organic Chemistry. A study of aliphatic, aromatic, and heterocyclic compounds, with stress on modern methods and concepts in stereochemistry, reaction mechanisms, and physical properties. Prerequisite: *Chemistry 21*.

Chemistry 32

Inorganic Chemistry. Atomic structure and its relation to chemical properties of the element, valence theory, stereochemistry of inorganic compounds, co-ordination compounds, oxidation potentials. Prerequisite: *Chemistry 20*.

Chemistry 33

General Biochemistry. An introduction to the biochemistry of animals, higher plants, and microorganisms, including composition of tissues, formation and metabolism of biologically important compounds, enzymes and biocatalysis, nucleic acids, biological oxidation, photosynthesis, vitamins, hormones, chemistry of the blood and of the digestion and absorption of food-stuffs. Prerequisite: *Chemistry 21*. (Undergraduates wishing to register for this course are strongly advised to have completed *Chemistry 20* and *Biology 10*.)

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

CLASSICS

H. L. Tracy, B.A. (TORONTO), PH.D. (CHICAGO)

Professor in Classics

A. M. Young, M.A. (MELBOURNE, TORONTO)

Assistant Professor of Classics

Miss Janet P. BEWS, B.A. (QUEEN'S), M.A., PH.D. (LONDON)

Lecturer in Classics

Courses are offered in Latin, in Greek and in Greek and Latin Literature in translation.

Both Greek and Latin may be studied as minor subjects, or as single-major or joint-major subjects in the ordinary program.

Greek and Latin Literature may be studied as a minor subject in the ordinary program. Ontario Grade 13 Latin, or its equivalent, is normally prerequisite to the study of Latin.

Course Requirements

LATIN

(a) Latin as a single-major in the ordinary program:

Latin 10, 20, 21, 30, 31, 32.

(b) Latin in a joint-major ordinary program in Latin and a subject other than Greek:

Latin 10, 20, 21, and two additional courses.

(c) Latin as a minor subject:

Latin 10, 20, and one additional course.

GREEK

(a) Greek as a single-major in ordinary programs:

Greek 10, 20, 21, 30, 31, 32.

(b) Greek in a joint-major ordinary program in Greek and a subject other than Latin:

Greek 10, 20, 21, 30, and one additional course.

(c) Greek as a minor subject in the ordinary program:

Greek 10, 20, and either 21 or 30.

CLASSICS

(a) Latin in a single-major ordinary program:

Latin 10, 20, 21, 30, 31, 32.

Greek 10, 20, and either 21 or 30.

(b) Greek in a single-major ordinary program:

Greek 10, 20, 21, 30, 31, 32.

Latin 10, 20, and one additional course.

(c) Latin and Greek in a joint-major ordinary program:

Latin 10, 20, 21, and two additional courses.

Greek 10, 20, 21, 30, and one additional course.

Latin 20 and *21* alternate with *Latin 30, 31* and *32*: the latter courses will be offered in 1967-68 both to second and to third year undergraduates.

Each Greek and Latin Literature course will be offered once in three years: in 1967-68 the course to be offered is *Greek and Latin Literature 30*. The course is available to undergraduates in any year.

Latin 10

Oratory, Lyric Poetry: Cicero, Catullus, Horace.

Latin 20

Epic Poetry: Virgil, Ovid. (Not offered in 1967-68.)

Latin 21

History: Cicero's Letters, Sallust, Livy. (Not offered in 1967-68.)

Latin 30

Philosophy, Didactic Poetry: Cicero, Lucretius, Virgil.

Latin 31

Roman Comedy, Satire: Plautus, Terence, Horace.

Latin 32

The Silver Age: Pliny, Tacitus, Juvenal.

Greek 10

Beginners' Greek. (A special course may be offered for students with Ontario Grade 13 Greek or equivalent.)

Greek 20

Plato, *Citro*; *Apology*; Herodotus, *Histories*.

Greek 21

Homer, *Iliad*; *Odyssey*.

Greek 30

Aeschylus, *Prometheus Bound*; Sophocles, *Antigone*; Euripides, *Hippolytus*.

Greek 31

Plato, *Republic*; Aristotle, *Ethics*; Greek Lyric Poetry (selections).

Greek 32

Thucydides, *History of the Peloponnesian War*; Xenophon, *Hellenica*; Aristophanes, *Acharnians*.

Greek and Latin Literature 10

Epic Poetry, Didactic Poetry, Roman Comedy. (Not offered in 1967-68.)

Greek and Latin Literature 20

Greek Drama; Roman Elegy, Bucolic Poetry, and Satire. (Not offered in 1967-68.)

Greek and Latin Literature 30

Historiography, Biography, Literary Criticism, Romance.

ECONOMICS

M. J. Bootc, B.A. (WALES), PH.D. (MCGILL)

Professor of Economics and Chairman of the Department

W. D. R. Eldon, B.A. (WESTERN ONTARIO), A.M., PH.D. (HARVARD)

Associate Professor of Economics

W. T. Hunter, B.COM. (TORONTO), M.A. (OXON.)

Lecturer in Economics

Economics may be studied as a minor subject, or as a single major or joint-major subject in the ordinary program. *Economics 10* is a prerequisite for all other courses in Economics. *Economics 20, 21, and 30* must be included among the major courses.

Economics 10

Principles of Economics. The price system, determinants of national output, international trade.

Economics 20

The price system.

Economics 21

Statistical concepts and their application to Economics.

Economics 30

National output, employment, and growth.

Economics 31

International trade, balance of payments, trade and development.

ENGLISH LITERATURE

R. D. Chambers, B.A. (MCGILL), B.LITT. (OXON.)

Associate Professor of English Literature and Acting Chairman of the Department

J. S. Pettigrew, M.A. (TORONTO, CANTAB.)

Associate Professor of English Literature

Miss B. E. Rooke, M.A. (QUEEN'S), PH.D. (LONDON)

Associate Professor of English Literature

J. Dale, M.A., PH.D. (CANTAB.)

Assistant Professor of English Literature

A. G. Fisher, M.A. (SASKATCHEWAN)

Assistant Professor of English Literature

R. H. Sadleir, B.A. (TORONTO), M.A. (CANTAB.)

Assistant Professor of English Literature

M. J. Sidnell, M.A. (LONDON)

Assistant Professor of English Literature

J. P. O'Flinn, B.A. (OXON.)

Lecturer in English Literature

Mrs. Gillian Sandeman, B.A. (LONDON)

Instructor in English Literature

English Literature may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

The regular courses for undergraduates studying English are as follows:

(a) English as a minor subject in ordinary and honours programs:

English 10, 20 and a further course;

(b) English as a major subject in the ordinary program:

English 10, 20, 21, 30, 31, (with the option of one further course in English);

(c) English in a joint-major honours program in English Literature and a related subject:

English 10, 20, 21, 30, 31, 32, 33, and an eighth course;

(d) English in a single-major honours program in English Literature: a minimum of eleven English courses, including:

English 10, 20, 21, 30, 31, 32, 33.

Requests to substitute alternative courses for those regularly prescribed will be considered individually.

In all English courses, students will be expected and encouraged to pursue special studies in authors, fields and topics of particular interest to them.

A short series of lectures and projects introducing bibliographical method will be given in conjunction with *English 20*.

English 10

Studies in English Literature. The course concentrates on the work of a few major poets, dramatists and novelists, mainly of the 19th and 20th Centuries. The course is a normal prerequisite for further courses in English Literature.

English 20

Studies in English literature of the Renaissance, with special attention to Shakespeare and Milton.

English 21

Studies in English poetry of the 19th Century.

English 30

Studies in English literature of the Restoration and 18th Century.

English 31

Studies in English drama to 1642, with special attention to Shakespeare.

English 32

Studies in English literature of the Victorian period.

English 33

Studies in Middle English literature, with special attention to Chaucer. (Not offered in 1967-68.)

English 34

Studies in Modern Literature. (Available normally only to students honouring in English Literature.)

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

FRENCH STUDIES

J. C. Morisot, LIC.-ÈS-L., E.N.S., D.E.S., AGR.-ÈS-L. (SORBONNE)

Associate Professor of French and Acting Chairman of the Department

R. Gay-Crosier, C.P.E.S., DR.-ÈS-L. (BERNE)

Assistant Professor of French

J. LeDreff, M.A. (BRITISH COLUMBIA)

Assistant Professor of French

D. M. Jackson, M.A. (TORONTO)

Lecturer in French

French may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs. The normal prerequisite is Grade 13 French or its equivalent.

All courses involve regular language laboratory practice and extensive work in the writing of French. Emphasis is thus placed upon increasing undergraduates' ability to write and speak the language, as well as upon developing their awareness of French civilization in general and of French literature in particular.

French 10

Survey of French literature, from the Middle Ages to the present; French civilization. Composition. Oral French.

French 20

French literature of the 17th and 18th Centuries—theatre, poetry and novel: works by Corneille, Racine, Molière, Marivaux, Beaumarchais, Boileau, La Fontaine, Chénier, Prévost. Composition. Prerequisite: *French 10*.

French 21

French literature of the 17th and 18th Centuries—thinkers and moralists: Descartes, Pascal, La Rochefoucauld, La Bruyère, Montesquieu, Diderot, Rousseau, Voltaire. Oral French. Available only to students majoring in French.

French 30

French theatre from 1850 to the present: Becque, Claudel, Giraudoux, Anouilh, Sartre, Montherlant, Camus, Ionesco. French-Canadian literature. Composition. Prerequisite: *French 20*.

French 31

French poetry from Nerval to the present: Nerval, Leconte de Lisle, Baudelaire, Verlaine, Rimbaud, Mallarmé, Valéry, Claudel, Apollinaire. Oral French. Available only to students majoring in French.

French 32

The French novel from Balzac to the present: Balzac, Stendhal, Flaubert, Zola, Gide, Proust, Mauriac, Saint-Exupéry, Sartre, Camus, Malraux. Stylistics. Available only to students majoring in French.

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

GERMAN

D. D. Stewart, M.A., PH.D. (TORONTO)

Associate Professor of German and Chairman of the Department

J. C. Fewster, M.A. (MANCHESTER)

Lecturer in German

Miss J. J. W. Plumpton, B.A. (QUEEN'S)

Lecturer in German

German may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary program.

German 10

Designed for students with little or no knowledge of German, this course provides an introduction to German grammar with intensive oral practice in the language laboratory; reading of selected texts in German literature. Students are not permitted to take both *German 10* and *Spanish 10*.

German 11

An introduction to German literature and thought of the period 1850-1950; lectures and readings in the history of German civilization; grammar review, composition and conversation. An important part of the oral work will be carried on in the language laboratory. Prerequisite: Grade 13 German or permission of the department.

German 20

German literature and thought from Nietzsche to Brecht. Prerequisite: *German 11* or permission of the department.

German 21

The Age of Goethe I. A study of the beginnings of modern German literature, with special attention to Lessing, Goethe and Schiller. Composition. Prerequisite: *German 11* or permission of the department.

German 30

The Age of Goethe II. A study of selected works by Goethe, Schiller, Holderlin and Grillparzer. Prerequisite: *German 21*.

German 31

The Romantic Movement; a reading course. Studies in Romantic literature from Wackenroder to Heine. Prerequisite: Registration in *German 30* or permission of the department.

German 32

History of the German language; introduction to mediaeval German literature. Prerequisite: *German 11*.

HISTORY

Alan Wilson, M.A. (DALHOUSIE), PH.D. (TORONTO)

Associate Professor of History and Chairman of the Department

W. L. Morton, B.A. (MANITOBA), M.A., B.LITT. (OXON.), LL.D. (TORONTO), D.LITT. (NEW BRUNSWICK), D.LITT. (MCGILL), F.R.S.C.

Professor of History

F. A. Hagar, A.B. (HARVARD), M.A., PH.D. (CALIFORNIA), M.LITT. (CANTAB.)

Associate Professor of History

T. H. B. Symons, B.A. (TORONTO), M.A. (OXON.)

Associate Professor of History

C. M. Greene, A.B. (AMHERST), A.M. (COLUMBIA), PH.D. (HARVARD)

Assistant Professor of History

B. W. Hodgins, B.A. (WESTERN ONTARIO), M.A. (QUEEN'S), PH.D. (DUKE)

Assistant Professor of History

R. J. D. Page, M.A. (QUEEN'S)

Assistant Professor of History

S. T. Robson, B.A. (BRITISH COLUMBIA), D.PHIL. (OXON.)

Assistant Professor of History

J. D. P. Martin, B.A. (QUEEN'S), B.L.S. (MCGILL)

Lecturer in History

W. G. Pitman, M.A. (TORONTO)

Lecturer in History

R. R. Heintzman, B.A. (TORONTO)

College Tutor in History

History may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours program. *History 10* is the normal prerequisite for all other courses in Canadian history. *History 23* is the normal prerequisite for all other courses in Modern European history. Permission of the department is necessary for departures from these rules.

History 10

Canadian History: an introduction. A study of the history of Canada to the present with an examination of major Canadian problems such as Canadian-American relations, the nature of regionalism in Canada, the position of French Canada; local and Ontario history; and more specialized topics.

History 21

American History: social, economic and political developments from the Colonial Period to the end of the Civil War.

History 22

British Empire and Commonwealth: the British Empire from 1783 and its transformation into the present Commonwealth.

History 23

Modern European History: selected topics, with emphasis on the 19th and 20th Centuries.

History 30

Canadian History: selected topics. In 1967-68 attention will be given to the development and problems of Canadian federalism.

History 31

American History: social, economic and political developments since the Civil War.

History 32

British History: the 19th and 20th Centuries, with emphasis on social, economic and political developments.

History 33

Modern European History: Germany in the 19th and 20th Centuries.

History 35

Modern European History: Revolutionary France from the early 18th Century to the Dreyfus Affair.

History 39

Historiography: studies in the historical method of some of the great historians from the Ancient World to the present. (Limited enrolment and only by permission of the department.)

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

MATHEMATICS

A. P. Guinand, B.SC. (ADELAIDE), D.PHIL. (OXON.)

Professor of Mathematics and Chairman of the Department

T. E. W. Nind, M.A. (CANTAB.)

Professor of Mathematics

I. C. Chakravartty, M.SC. (GAUHATI), PH.D. (SASKATCHEWAN)

Assistant Professor of Mathematics

G. F. Hamilton, B.A.SC., M.A. (TORONTO), P.ENG.

Assistant Professor of Mathematics

J. P. Henniger, M.SC., PH.D. (MCGILL)

Assistant Professor of Mathematics

T. N. Murphy, B.SC. (LIVERPOOL)

Assistant Professor of Mathematics

Mathematics may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs. *Mathematics 10*, *20* and *30* must be included among the major courses. *Mathematics 10* is a prerequisite for all other courses in Mathematics. Normal prerequisites for *Mathematics 10* are algebra, geometry and trigonometry for students who wrote Grade 13 before 1967, and Mathematics A and B, or equivalent, for students writing Grade 13 in 1967.

Mathematics 10

General Mathematics. The course consists of two parts, given concurrent-

ly: (i) Introduction to differential and integral calculus, with applications to rates of change, maxima and minima, areas, and volumes. Separable differential equations; (ii) Topics from limits, series, plane co-ordinate geometry, and advanced plane trigonometry. Definition of a group with simple illustrations.

Mathematics 20

General Mathematics. This course is a continuation of *Mathematics 10*, and includes partial differentiation, multiple integrals, differential equations, elementary properties of complex variables, a formal treatment of Fourier series, determinants, and the coordinate geometry of lines, planes and spheres in three dimensions.

Mathematics 21

Applied Mathematics. Elementary statics and dynamics of particles and rigid bodies. Hydrostatics.

Mathematics 22

Numerical mathematics and probability. Solution of equations by numerical methods. Iterative methods. Finite differences and interpolation. Least squares. Probability distributions. Correlation.

Mathematics 23

Introduction to concepts of modern algebra. Sets, algebraic systems.

Mathematics 30

Theory of functions. This course is a continuation of *Mathematics 20*, and includes a more rigorous treatment of the foundations of analysis, conditions for the convergence of Fourier series, Fourier integrals, functions of a complex variable. Cauchy's theorem, residues, and the Gamma function.

Mathematics 31

Applied Mathematics. General theories of classical mechanics. Lagrange's and Hamilton's equations. Variational principles. Some attention to foundations of quantum mechanics and special relativity. Prerequisites:

Mathematics 20 and 21.

Mathematics 32 and 33

Classes will be held on the topics listed below. Any two of these classes may be combined to constitute one course in Mathematics for a degree program.

(a) Differential equations. Prerequisites: *Mathematics 20.*

(b) Linear algebra, matrices. Prerequisite: Permission of the Mathematics Department.

- (c) Topology of point sets. Prerequisite: Permission of the Mathematics Department.
- (d) Analytic and projective geometry. Prerequisite: *Mathematics 20*.
- (e) Number theory. Prerequisite: *Mathematics 20*.
- (f) Probability theory. Prerequisite: *Mathematics 20*.

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

PHILOSOPHY

E. J. Schonleber, B.A. (TORONTO), M.A. (CHICAGO)

Associate Professor of Philosophy and Acting Chairman of the Department

J. I. MacAdam, B.A. (NEW BRUNSWICK), M.A. (QUEEN'S), PH.D. (LONDON)

Associate Professor of Philosophy

Miss M. G. Fry, M.A. (DALHOUSIE), B.LITT. (OXON.)

Assistant Professor of Philosophy

W. A. McMullen, M.A. (CANTAB.)

Assistant Professor of Philosophy

Philosophy may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

Philosophy 10 is the normal prerequisite for all other courses in Philosophy. With the approval of his supervisor of studies, and subject to other requirements, an undergraduate may, in any year of his program, register for any course in Philosophy.

Candidates for the honours degree who are studying Philosophy as a major subject devote their fourth academic year to work in Philosophy which is both intensive and comprehensive, involving the writing of a research paper. The individual program of studies of a student in honours Philosophy is arranged each year by the student in consultation with the Chairman of the department or his representative not later than the beginning of the last term of the year preceding enrolment in the program.

Philosophy 10

An introduction to philosophical enquiry through the study of classical problems in their historical and textual setting; with an introduction to traditional formal logic.

Philosophy 20

Problems of Philosophy I: a study of selected philosophical problems with special emphasis on fundamental questions of moral philosophy and the philosophy of religion.

Philosophy 21

Ancient Philosophy I: Thales to Plato. (Offered in 1967-68.)

Philosophy 22

Modern Philosophy I: Descartes to Kant. (Offered in 1968-69.)

Philosophy 23

An introduction to political philosophy. A study of some major writings, including selections from Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Burke and Mill; and analysis of certain concepts, such as liberty, equality and justice. (Offered jointly by the academic staffs in Politics and Philosophy.) Prerequisite: *Politics 10*, or *Philosophy 10*, or permission of the department.

Philosophy 24

Logic.

Philosophy 30

Problems of Philosophy II: a study of selected problems dealt with by Marxist, analytical, existentialist and phenomenological philosophers with a view to discussing the nature of philosophy itself.

Philosophy 31

Ancient Philosophy II: Aristotle to Plotinus. (Offered in 1968-69.)

Philosophy 32

Modern Philosophy II: Hegel to the present. (Offered in 1967-68.)

Philosophy 33

Political philosophy: collectivist theory. Major works of some of the following authors will be studied intensively: Hegel, Marx and Engels, Durkheim, Toennies and Weber, plus some contemporary sociological theorists. Attention will be given to philosophical postulates and moral and conceptual problems of collectivist theory. (Offered jointly by the academic staffs in Politics and Philosophy. Offered in alternate years; available in 1967-68.) Prerequisite: *Politics 20*, or any two Philosophy courses, or permission of the department.

Philosophy 34

Research Tutorial. Intended to encourage and develop special philosophical interests, research tutorials are available on the recommendation of the undergraduate's supervisor of studies in consultation with the academic staff in Philosophy.

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

PHYSICS

J. I. Lodge, M.A. (QUEEN'S), PH.D. (VIRGINIA)

Professor of Physics and Chairman of the Department

J. W. Earnshaw, B.A.SC. (TORONTO), PH.D. (CANTAB.)

Assistant Professor of Physics

B. C. Gregory, B.A.SC. (TORONTO), PH.D. (CANTAB.)

Assistant Professor of Physics

R. G. Johnson, M.SC. (QUEEN'S)

Assistant Professor of Physics

W. R. Tyson, B.A.SC. (TORONTO), PH.D. (CANTAB.)

Assistant Professor of Physics

Physics may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

Physics 10 and *Mathematics 10* are prerequisites for all other courses in Physics. Each course, unless otherwise indicated, involves weekly laboratory work in addition to lecture, tutorial and seminar hours. Ontario Grade 13 credits, or equivalent, in Mathematics A and B and Physics, are normal prerequisites for *Physics 10*.

Undergraduates choosing Physics as a major subject will ordinarily elect the following courses:

- (a) Physics as a major subject in the ordinary program: *Physics 10*, two second-year courses selected from *Physics 20, 21, 22*, two third-year courses of which one must be *Physics 31*, with *Mathematics 20* as a prerequisite.
- (b) Physics as a single-major honours program: *Physics 10, 20, 21, 30, 31, 32*, and five fourth-year courses supported by *Mathematics 10, 20, 21, 30, 31*. Two laboratory periods per week must be participated in during the fourth year.

(c) Physics in a joint-major honours program with a related subject: *Physics 10, 20 or 21, 31*, and four additional courses approved by the Department, supported by *Mathematics 10, 20, 21, 30, 31*.

(d) Undergraduates electing no more than two courses in Physics as minor subjects should in general choose *Physics 10* and *Physics 20*.

Requests to substitute alternative courses for those regularly prescribed will be considered in relation to individuals' overall programs.

It is to be noted that *Mathematics 31* is a requirement for all fourth-year courses.

Physics 10

Elementary Physics. Particle dynamics, translational and rotational, wave motion, electricity, physical optics, quantum physics (wave nature of matter), special relativity.

Physics 20

Thermodynamics and Introductory Modern Physics. Thermodynamic systems, the laws of thermodynamics, entropy, kinetic theory. Special relativity, quantum phenomena, atomic structure, radioactivity and nuclei.

Physics 21

Electricity and Magnetism. Circuit theory, electrostatics, magnetostatics, electric and magnetic properties of matter, Maxwell's equations. Laboratory. Circuit theory and basic electronics.

Physics 22

Mechanics. Offered by the staff in Mathematics as *Mathematics 21*. No laboratory.

Physics 30

Optics. Propagation, reflection, refraction, interference, diffraction, polarization, optical instruments. Prerequisites: *Physics 21, Mathematics 20*.

Physics 31

Modern Physics. Special relativity, introductory quantum mechanics, atomic structure, nuclear physics, cosmic rays and the elementary particles. Prerequisites: *Mathematics 20, Physics 20 or 21*.

Physics 32

Electronics. Electrodynamics, elementary solid state, solid state and vacuum diodes, vacuum and gas tubes, transistors and other solid state

devices, microwaves and microwave electronic devices. Laboratory. Electronics and microwaves. Prerequisites: *Physics 21, Mathematics 20*.

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request in the spring of 1967.

POLITICS

S. G. D. Smith, B.A. (MCGILL), M.A., B.LITT. (OXON.)

Associate Professor of Politics and Chairman of the Department

Z. Kay, B.A. (MANITOBA), DIP.INTERNAT.LAW, M.A. (ECON.) (MANCHESTER)

Assistant Professor of Politics

J. Wearing, B.A. (WESTERN ONTARIO), M.A. (TORONTO, OXON), M.A., D.PHIL. (OXON.)

Assistant Professor of Politics

W. F. W. Neville, B.A. (MANITOBA, OXON.)

Lecturer in Politics

Miss E. A. McLeod, B.A. (TORONTO)

College Tutor in Politics

Politics may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

In the ordinary program, undergraduates who major in Politics must include *Politics 10, 20 and 30* among their five or six major courses.

Undergraduates seeking an honours degree in Politics must include *Politics 10, 20 and 30* among their six courses in Politics during the first three years. In the fourth year the honours program involves further specialized courses, a research paper and a comprehensive examination.

Politics 10

An introduction to the study of Politics, designed to acquaint undergraduates with the general framework of political institutions and thought. Emphasis is given to Canadian government and politics and to selected major political concepts.

Politics 20

An introduction to political philosophy. A study of some major writings, including selections from Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Burke and Mill; an analysis of certain concepts, such as liberty,

equality and justice. (Offered jointly by the academic staffs in Politics and Philosophy.) Prerequisite: *Politics 10*, or *Philosophy 10*, or permission of the department.

Politics 21

American government. A study of the constitution and the political institutions of the United States: the Presidency, Congress, the judiciary, and political parties. The course will include an examination of current political questions and recent political research. Prerequisite: *Politics 10* or permission of the department.

Politics 22

International Politics. A study of power, diplomacy, and of theories and problems of international relations. This course will also examine the foreign policies of selected major and minor states. Prerequisite: *Politics 10* or permission of the department.

Politics 30

Political philosophy: collectivist theory. Major works of some of the following authors will be studied intensively: Hegel, Marx and Engels, Durkheim, Toennies and Weber, plus some contemporary sociological theorists. Attention will be given to philosophical postulates and moral and conceptual problems of collectivist theory. (Offered jointly by the academic staffs in Politics and Philosophy. Offered in alternate years; available in 1967-1968.) Prerequisite: *Politics 20*, or any two Philosophy courses, or permission of the department.

Politics 31

Political philosophy: liberal democratic theory. Intensive study of the major works of some of the following authors: Hobbes, Locke, Rousseau, Bentham, Mill, Sidgwick, Green and Hart. Attention will also be given to the special problems of this type of theory. (Offered jointly by the academic staffs in Politics and Philosophy. Offered in alternate years; not available in 1967-1968.) Prerequisite: *Politics 20*, or any two Philosophy courses, or permission of the department.

Politics 32

International Law and Institutions; an examination of the major elements of public international law, with major emphasis on the institution of the United Nations and its organs. Prerequisite: *Politics 22*.

Politics 33

Comparative government: A study of the government and politics of the United Kingdom and some nations of Western Europe. Prerequisite: *Politics 10* or permission of the department.

Politics 34

Canadian federalism: An examination of the development and problems of Canadian federalism. (Offered jointly by the academic staffs in Politics and History.) Prerequisite: *Politics 10*, or *History 10*, or permission of the department.

Politics 35

Special topics in political thought. A reading course, open only to undergraduates majoring in Politics, designed to provide an opportunity for more intensive study of a certain period or authors studied concurrently in *Politics 30*. Prerequisite: *Politics 20*.

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

PSYCHOLOGY

J. M. Blackburn, B.SC. (LONDON), PH.D. (CANTAB.)

Professor of Psychology and Chairman of the Department

J. P. S. Robertson, M.A. (NEW ZEALAND), B.A., PH.D. (LONDON)

Professor of Psychology

Mrs. M. N. Ankus, B.A. (TORONTO), M.A. (QUEEN'S)

Assistant Professor of Psychology

B. L. Beach, B.A. (ACADIA), M.A. (DALHOUSIE), PH.D. (MCGILL)

Assistant Professor of Psychology

B. Mandell, LL.M. (WARSAW), M.A., B.SC. (OXON.)

Assistant Professor of Psychology

Miss Jane H. Hamacher, B.A. (WESTERN ONTARIO), M.A. (TORONTO)

Lecturer in Psychology

Mrs. Lorna A. Gendreau, M.A. (QUEEN'S)

Instructor in Psychology

Psychology may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary program. *Psychology 10* is normally a

prerequisite for other courses in Psychology. Students in the general program should normally include *Psychology 10* in the first year, two courses in Psychology at the second year level, and two or three courses in Psychology in their final year. *Mathematics 22* (Statistics) must also be taken in conjunction with *Psychology 21*.

Psychology 10

Introduction to General Psychology. A survey of psychology, with emphasis on the experimental approach to the study of behaviour.

Psychology 20

Learning and motivation. A survey of major experiments and theories in animal and human learning and motivation.

Psychology 21

Experimental Psychology. An introduction to the problems and methods of experimental psychology. This course will include at least two hours of laboratory work a week, and is to be taken concurrently with *Mathematics*.

Psychology 22

Developmental Psychology. A study of the principal factors in the psychological development of the human being from infancy through childhood and adolescence. Characteristic problems of adjustment at different stages will also be discussed.

Psychology 30

Advanced Experimental Psychology and Statistics. An intensive study of experimental methods and advanced statistical techniques in selected areas of psychology. This course will include at least two hours of laboratory work a week. *Psychology 21* and *Mathematics 22* are prerequisites.

Psychology 31

Personality and Abnormal Psychology. The personality theories of Freud, Jung, Adler, Horney, Sullivan, Lewin, Sheldon, Eysenck, Dollard and Miller, Murray, Allport, and others. Classification and dynamics of abnormal behaviour.

Psychology 32

Applied Psychology. The application of psychological methods to personnel and industrial psychology, child and educational psychology, abnormal and clinical psychology, correctional procedures, and other topics.

Psychology 33

Perception. The perceptual process underlying an individual's apprehen-

sion of his environment: the organizations and interaction of patterns of stimulation, and the ways in which expectancies, memories, frames of reference and other cognitive functions enter into the structuring of the percept. Topics include colour, form, and space perception; pictorial perception; attention and perceptual curiosity; the effects of learning and motivation.

Psychology 34

Social Psychology. A discussion of recent developments in the objective study of attitude measurement, attitude change, person perception, prejudice, communication, small group interactions, delinquency, mass movements, and other topics.

SOCIOLOGY

J. C. McDonald, B.A. (TORONTO), M.SOC.SC., PH.D. (BIRMINGHAM)

Associate Professor of Sociology and Acting Chairman of the Department

B. R. Blishen, M.A. (MCGILL)

Professor of Sociology

Miss Dorothy M. Coutts, M.A. (BRITISH COLUMBIA)

Assistant Professor of Sociology

J. A. Lee, M.A. (TORONTO)

Lecturer in Sociology

P. Weinzwieg, M.A. (TORONTO)

Lecturer in Sociology

Sociology may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

Sociology 10, 20 and 30 must be included among the major courses in the ordinary program.

Sociology 10, 20, 30, 32 and 43 must be included among the nine Sociology courses required to complete the single-major honours program.

Students following this program are advised to choose a combination of additional courses from related disciplines: Anthropology, Economics, History, Political Science, and Psychology. The selection of particular courses should be made in consultation with the department. The fourth year of the program will include a comprehensive examination.

Sociology 10, 20, 30 and 32 must be included among the six or seven

Sociology courses required to complete the joint-major honours program.

Students planning to undertake post-graduate work in Sociology, unless they are prepared to spend an extra qualifying year, are advised to follow the single-major honours program.

Sociology 10

Introduction to Sociology. An introduction to the basic principles and concepts of sociological study. An examination of the elements of social structure and social behaviour—social relations, social groups, cultural norms and values, and institutions—against the background of both simple and complex societies.

Sociology 20

Social Stratification. Theory and research on the relationships among political, economic and social power, including the theories of Marx, Weber, Veblen and Schumpeter. Discussion of the criteria of social class, social class and behaviour and social mobility. Prerequisite: *Sociology 10* or permission of department.

Sociology 21

Industry and Society. An examination of the organization of work in complex and simple societies through an analysis of the division of labour, formal and informal work structure and behaviour, labour-management relations, and occupational and professional roles. Prerequisite: *Sociology 10* or permission of the department.

Sociology 22

Family and Kinship. An analysis of the structure and functions of family and kinship, including the family as an agency of primary socialization, an examination of childhood, adolescence, courtship, marriage, parenthood and old age, and a discussion of trends and problems affecting the contemporary family. Prerequisite: *Sociology 10* or permission of the department.

Sociology 23

Cultural Anthropology. An analysis of the dimensions of culture in non-literate societies, considered in terms of technology, social organization and ideology, including a survey of current approaches to the study of culture. Prerequisite: *Anthropology 10*, or permission of department.

Sociology 30

Sociological Theory. The history of sociological theory, with special

reference to the contributions of Marx, Durkheim, Pareto, Weber and Parsons; the development of a set of basic criteria with which to assess the adequacy of sociological theories, past and present. Prerequisite: *Sociology 10*.

Sociology 31

Canadian Society. The institutional framework of Canadian society compared with other modern, urban, industrial societies.

Sociology 32

Social Research. Seminars and exercises dealing with the techniques of social research. During the course the undergraduate applies these techniques to some specific research project of his own. Prerequisite: *Sociology 10*.

Sociology 33

Social Psychology. A discussion of recent developments in the objective study of attitude measurement, attitude change, person perception, prejudice, communication, small group interactions, delinquency, mass movements and other topics.

Fourth Year Honours Course details will be announced in a supplement to this Calendar, available on request, in the spring of 1967.

HISPANIC STUDIES

J. P. González-Martín, LIC.DER. (OVIEDO), DR.DER. (ZARAGOZA)

Assistant Professor of Spanish and Acting Chairman of the Department

Mrs. Rosa María Garrido de González, LIC.DER., DR.DER. (SEVILLA)

Lecturer in Spanish

Mrs. Dawn L. Smith, M.A. (OXON.)

Lecturer in Spanish

Mrs. Ann Hume, B.A. (LEEDS)

Instructor in Spanish

Spanish may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary programs.

There is no prerequisite to beginning the study of Spanish, but in view of the intensive language study which is required, some previous study of French, Italian or Latin is strongly recommended.

All courses require regular language laboratory practice. The oral aspect of Spanish is stressed from the outset, and individual oral examinations are considered in determining final standing.

Undergraduates enrolled in *Spanish 10* must be prepared to work intensively to equip themselves for courses in the second year which are conducted at a level comparable to that of the French program. Students are not permitted to take both *Spanish 10* and *German 10*.

Spanish as a minor subject in the ordinary program:
Spanish 10 or *11*, *20* or *21*, *30* or *31* or *32*.

Spanish as a major subject in the ordinary program:
Spanish 10 or *11*, *20*, *21* and two or three of *30*, *31*, *32*.

Spanish 10

Beginners' course in Spanish. This course consists of an introduction to grammar and reading, and practice in oral Spanish. Texts include a grammar and two readers presenting simplified stories and excerpts from works by contemporary authors.

Spanish 11

Introductory course for undergraduates with Grade 13 standing, or equivalent, in Spanish. The course involves practice in composition and oral work and an introduction to the South American novel.

Spanish 20

Curso General de Civilización y Literatura Española. This course will be a general survey of the history and literature of the Hispanic peoples, together with the evolution and the concept of Hispanic cultures. The course is conducted in Spanish.

Spanish 21

Conversación y Composición Española. A general course of Spanish conversation, composition and pronunciation, including tutorials and laboratory work. The course is conducted in Spanish.

Spanish 30

Historia del Arte y del Pensamiento Español. The course provides lectures and seminars on the Arabic, Romanic, Gothic, Renaissance and Modern Art periods; a study of Spanish painting with emphasis on El Greco, Velázquez, Goya, Ribera, Zurbarán, Picasso, Dalí, Miró, Rivera and Orozco, as well as the historic thought of each epoch. Slides are used.

Spanish 31

Curso de Literatura Española. Renacimiento y Barroco. The course provides lectures and seminars on the Renaissance and Baroque periods with emphasis on Juan del Encina, Gil Vicente, Lope de Rueda, Garcilaso de la

Vega, 'Lazarillo de Tormes,' Fray Luis de León, Sta. Teresa de Jesús, San Juan de la Cruz, Cervantes, Lope de Vega, Tirso de Molina, Góngora, Quevedo, Vélez de Guevara, Ruiz de Alarcón and Calderón de la Barca.

Spanish 32

Curso de Literatura Española. Neoclasicismo y siglo XIX. The course provides lectures and seminars on these periods with emphasis on Feijoo, Leandro F. Moratín, Cadalso, Duque de Rivas, Espronceda, Larra, Zorrilla, Bécquer, Pedro Antonio de Alarcón, Valera and Leopoldo Alas "clarín."

Pre-Professional Studies

The University believes that there is considerable merit in studying at one university before proceeding to professional study at another. The curriculum has therefore been planned to offer attractive courses which meet the academic requirements of Ontario's professional faculties for students proposing to proceed to another university for professional studies.

The academic requirements for admission to some professional Faculties are summarized below:

DENTISTRY

While the University of Western Ontario will shortly be establishing a Faculty of Dentistry, there is at the present time only one Faculty of Dentistry in Ontario, that of the University of Toronto. All applicants for admission to this faculty must meet two requirements:

- (1) Standing in Ontario Grade 13, or equivalent, with an average of at least 60% in at least seven credits and at least four subjects which provide good background for the subjects specified below:
- (2) Clear standing in a first-year university program beyond the Grade 13 level (such as the first-year ordinary program at Trent University), with standing in English, Physics, Chemistry and Zoology.

Possession of these requirements renders a candidate eligible for selection; it does not guarantee admission. Prospective students of Dentistry are advised to consult very carefully the calendar of the Faculty of Dentistry in the University of Toronto or other Canadian universities in which they are interested.

LAW

For admission to the study of Law, at least two years of university study beyond the Grade 13 level are required.

MEDICINE

The Faculties of Medicine at Queen's University, the University of Toronto and the University of Western Ontario, require all candidates for admission to have completed either two-year pre-medical courses which they offer, or three years of study, with courses appropriate for prospective medical students, at another recognized university. So that students may take full advantage of the science courses at Trent University which will prepare them for the professional study of Medicine, they are advised to complete the secondary school program in Mathematics A and B, Physics and Chemistry.

All Canadian Faculties of Medicine have many more applicants than they can admit, and possession of the entrance requirements does not guarantee admission. Prospective medical students are advised to consult very carefully the calendar of any Faculty of Medicine in which they are interested.

CHARTERED ACCOUNTANCY

The Institute of Chartered Accountants of Ontario has placed Trent University on the list of approved universities whose graduates are eligible for entry into the Institute's course of studies. Graduates of the University are, therefore, eligible for the accelerated three-year course, as well as for the regular five-year course in Chartered Accountancy offered by the Institute.

ONTARIO COLLEGES OF EDUCATION

Interim High School Assistants' Certificate, Type B: Graduates of the ordinary program of Trent University meet the requirements for admission to the professional course leading to the Interim High School Assistants' Certificate, Type B. Endorsation of Certificate, Type B, is given to candidates offering five university courses with an overall average of second class standing, above the level of Grade 13, in a subject taught in Ontario schools. Students intending to qualify for admission to the course leading to the Interim High School Assistants' Certificate, Type B, must

include in their programs at least seven courses in at least three high school subjects.

Interim High School Assistants' Certificate, Type A: For admission to the course leading to Type A certificates in the Ontario Colleges of Education, four years of university study beyond the Grade 13 level are required. Graduates of the ordinary program however may become eligible for admission to the course leading to Type A certificates in a number of ways.

Further information for prospective teachers is available from the Registrars of the Colleges of Education.

Miscellaneous Information

BOOKSTORE

Arrangements have been made to ensure that prescribed textbooks and the necessary stationery are readily available to undergraduates.

UNIVERSITY HEALTH SERVICE

The University makes available to undergraduates in its University Health Service a consultation and advisory service, as well as emergency treatment and medical care for minor illnesses and athletic injuries.

For information about insurance coverage under the Ontario Hospitals Plan, and various private health insurance programs, students should consult the head of their college at the time of their registration in September.

UNDERGRADUATE ACTIVITIES

The undergraduates of Trent University have developed a rich program of social, cultural and athletic activities. Student government, newspapers and a literary magazine, dramatic, music and film societies, as well as a variety of clubs and discussion groups have been established. In addition, the City of Peterborough offers to undergraduates the advantages of an excellent public library and regular visits by musicians, theatrical companies and art exhibits.

The recreation program of the University is wide and varied, centering upon both the permanent campus among the hills and waterways of the Trent Valley and facilities within the City of Peterborough. The campus of over 1,400 acres, with more than a mile of river flowing through its

centre, offers a natural setting for outdoor and aquatic activities. A number of gymnasiums, pools, tennis courts, rinks, field and arenas are centres for both indoor and outdoor athletic activities within the city. The University at present includes swimming, rowing, canoeing, sailing, hiking, tennis, soccer, touch football, curling, basketball, hockey, badminton, volleyball and fencing in its athletic program.

RELIGION

Trent University is a multi-denominational University. Undergraduates are encouraged to take part in the religious life of the City of Peterborough and to organize religious societies and activities at the University.

CONDUCT AND DRESS

Undergraduates are expected to conduct themselves at all times in a manner appropriate to members of a university.

Undergraduates wear the University gown on formal academic occasions, including lectures, seminars, tutorials, formal visits to members of the faculty, and various college functions. University gowns may be purchased from the University Porter or rented from him for a nominal fee each year.

Fees

ACADEMIC FEES

The total fee for full-time undergraduates for the academic year is \$550. This figure includes registration and tuition fees, and incidental fees of \$50 for health services, athletics and student activities.

Fees are due and payable on the day of registration; they may, however, be paid in two instalments, in which case the total is increased by \$5. Instalments are payable on or before the day of registration (\$280) and on or before Jan. 18 (\$275). Cheques should be made payable to Trent University and mailed to, or paid at, the Office of the Comptroller. A charge of \$3 per month will be imposed on overdue accounts.

Tuition fees are refundable only in special cases and at the discretion of the University. Incidental fees are not refundable.

Undergraduates applying for registration after the prescribed dates may be charged a late registration fee of \$10.

Information concerning graduate fees is available from the Registrar.

The tuition fee for special students is \$125 for each course. Special students are also required to pay incidental fees of \$10 for each course taken.

RESIDENCE FEES

The fee for room and board for the academic year (excluding the vacation periods) is \$815.

Residence fees are due and payable on the day of registration; they may, however, be paid in three instalments with an additional charge of \$10 as indicated below:

\$345 on or before the day of registration

\$255 on or before Jan. 2, 1968

\$225 on or before Mar. 18, 1968

A charge of \$3 per month will be imposed on overdue accounts.

NON-RESIDENTS' FEE

Non-residents are encouraged to enter fully into the life of their colleges, and accordingly make considerable use of College facilities. A non-resident fee of \$65 including \$25 to be applied against meals taken in College is payable by all full-time non-resident students in addition to the academic fee. This fee is payable at the same time as academic fees; if paid in instalments, the two instalments are \$35 and \$30.

Certain further fees may be charged in appropriate circumstances.

All fees are subject to change.

Trent University in Peterborough

- RUBIDGE HALL
- CATHARINE PARR TRAILL COLLEGE
- △ PETER ROBINSON COLLEGE
- CHAMPLAIN COLLEGE
- SITE OF TRENT UNIVERSITY

