

counter-shaft, &c. This gift was very much appreciated by the students.

John Bertram & Sons, the celebrated machine makers of Dundas, gave us a 20-inch drilling machine, new and complete in all its parts, and forming a really valuable addition to our list of appliances.

As respects our own manufactures, we are necessarily as yet compelled to make various tools with which to make other tools, or to do required work; for we prefer making everything that we reasonably can make, to buying; inasmuch as making is one of the functions of the mechanical department, while buying is not. The consequence is that our work does not bulk so largely in show as it does in usefulness and value. We have worked along a variety of lines during the past session, and have either finished, or got far under way, a number of useful machines. A list of these may not be out of place here.

1. A reversible boring head, capable of boring cylinders 9 inches long and from  $2\frac{1}{2}$  to 5 inches diameter. Finished.

2. Two boring bars for boring and finishing smaller holes (finished). Made by Jackson.

3. Two sets of iron shift pulleys. Made by Merritt and MacLennan.

4. Four split pulleys, wood, (in action). Made by MacLennan.

5. A 7-inch gear cutting engine for iron and brass. Built principally by Fortescue and Graham.

6. A  $\frac{1}{2}$  horse-power electro-motor, with resistance coils. Built by Baker and Scott.

7. Four working mechanical models. Built by MacLennan.

8. Two carpenters' benches. Built by Lavell, Spotswood, Cotton, and Wells.

9. Two step-ladders. Built by Wells and Kirkpatrick.

10. Two saw-horses. Built by Wells and Squire.

11. 16-inch wall drilling machine, not quite completed. Built by Squire.

12. One gig saw, not quite completed. Built by Merritt.

13. One drawing table, not quite completed. Built by Spotswood, Graham and Anglin.

14. Various small tools, hangers, shafting, &c.

In all the foregoing cases the students named did the greater part of the work, but of course they received more or less of both instruction and assistance. Mr. Carmichael designed the motor; the most of the other things were designed by myself.

The machines which we most need at present and which we cannot hope to make, in the near future at least, on a scale sufficiently large for our purposes, are a shaping machine, which will cost something less than \$300, and a No. 7 Barnes lathe, or an equivalent one costing somewhere about \$200.

We are trying to do good work in the mechanical department, and although working under disadvantages arising from limited resources, I yet believe that we are doing good work; and with proper encouragement from the public and from friends of the University who believe in this new departure, and in extending the usefulness of the institution, we have no fear for the success of the undertaking, and I cordially invite the members of this Council, and every other person interested in the work, to visit the building and see for himself what is being done.

Besides my regular work as Professor of Mathematics in the University, I have given two sets of lectures on astronomy, one descriptive and the other practical, a set of lectures on the principles of mechanism, and in the latter part of the session as many lectures as I could manage upon the mechanism, etc., of the steam engine.

My assistant, Mr. Carmichael, besides doing a part of the mathematical work, of which there is necessarily a large amount to be done in every properly equipped university, has given courses of lectures on electricity and on thermodynamics, subjects which have been made quite familiar to him by his three years' residence at Johns Hopkins University.

## GRADUATES AND PRIZEMEN.

### MEDICAL GRADUATES.

P. G. Bannister, Kingston, Jamaica; V. Barber, Toronto; A. W. Bellamy, North Augusta; W. E. Carscallen, Tamworth; S. J. Drummond, Almonte; H. E. M. Douglas, Kingston, Jamaica; J. C. Dunning, Napanee; C. B. Dyde, B.A., Kingston; A. B. Ford, M.A., Kingston; Rev. S. H. Gould, B.A., Kingston; J. J. Harty, Kingston; F. L. Hill, Economy, N.S.; F. G. Huffman, Napanee; W. G. Kelly, Kingston; A. S. Knight, Cataraqui; A. Letellier, Peterboro'; G. W. Mylks, Glenmore; J. H. McArthur, Ottawa; A. W. P. A. McCarthy, Stapleton; M. F. McDermott, Kingston; A. F. McLaren, Lancaster; D. B. Neish, Port Royal, Jamaica; A. E. Ross, B.A., Cobden; W. B. Scott, Port Hope; H. Walker, Belleville.

E. A. Croskery, Perth, has passed all examinations for his degree, but being under age, now nineteen, cannot receive it. The degree will be conferred upon attaining his majority.

G. W. Mylks and C. B. Dyde are University medalists.

### PRIZE WINNERS.

Prize of \$25 awarded on examinations in senior anatomy, senior physiology, and senior materia medica—W. J. Simpson, Kingston.

House Surgeons, Kingston General Hospital, awarded on results of final examinations—C. B. Dyde, B.A., and G. W. Mylks; E. A. Croskery and V. Barber coming next in order.

### MASTERS OF ARTS.

R. W. Anglin, Kingston; H. Carmichael, Spencer-ville; S. Louise Cloney, St. Catharines; G. E. Dyde, Kingston; T. H. Furlong, Simcoe; Eliza Henstridge, Portsmouth; R. F. Hunter, Smith's Falls; S. E. Marty, Mitchell; S. W. Mathews, Peterboro'; K. P. R. Neville, Newburg; A. O. Paterson, Carleton Place; M. R. Reid, Fellows; J. S. Shortt, Calgary.

### BACHELORS OF ARTS.

R. W. Alcombrack, Cataraqui; K. Beaton, Orillia; J. W. C. Bennett, Almonte; Annie A. Beyd, Kingston; Jessie Cameron, Almonte; J. D. Craig, Kingston; J. A. Crozier, Grand Valley; J. H. Dolan, Carleton Place; J. R. Frizzell, Munster; G. A. Ferguson, Admaston; R. Galbraith, Guelph; Annie E. Gordon, Ottawa; D. L. Gordon, Stapleton; W. A. Guy, Camden East; J. R. Hall, Teeswater; J. C. Hamilton, Smith's Falls; A. T. Hawley, Napanee; Catherine Harvey, Sydenham; J. R. Ingram, Lind-