

A number of other replies have been received from parties representing several of the most important industries in the Province, giving the respective number of employes, that it would be advantageous to their business, or calling, to have educated in the several departments of study proposed to be taught in the Technical School. These and the replies from which the following extracts have been taken are in the possession of Mr. Edwards, Secretary, Department of Public Works, Toronto, where anyone desiring it can refer to them.

EXTRACTS FROM ANSWERS TO QUESTIONS ON
TECHNICAL EDUCATION.

1. *From a Civil Engineer.*—"I consider the establishment of such a School would be an inestimable blessing to the Province. From the want of such a School, coupled with the peculiar circumstances of the Country, I believe there is a rapid depreciation in the theoretical knowledge, as well as in the manipulative skill, of those engaged in the various occupations proposed to be improved by the different classes of studies named in the subjoined list."
2. *From a Civil Engineer.*—"I am only surprised that this School was never encouraged in Canada years ago. I am now glad to think we shall soon be able to get at home, men of more practical and useful knowledge than formerly, without having to invite parties from abroad. Were there space, I might write pages in favor of it."
3. *From a Civil Engineer.*—"All the subjects mentioned would be of great importance to the Surveyor, Civil Engineer or Architect."
4. *From a Civil Engineer.*—"Will be one of the most useful Intitutes in the Dominion. In a word, the College you purpose erecting is a Canadian necessity,—the inauguration of which reflects credit upon the Ministry."
5. *From a Civil Engineer.*—"Recommends that students should have opportunities, during their course of study, of seeing actual work. Also recommends periodical visits to public works in progress."
6. *From a Civil Engineer.*—"It is not possible for an enquirer to know too much."
7. *From a Civil Engineer.*—"To those intending to adopt the profession of Civil Engineer or Land Surveyor, a knowledge of Geology and the practical working of mines would be advantageous."
8. *From a Civil Engineer and Provincial Land Surveyor.*—"My opinion is that it would be highly beneficial and useful to have such a School established in this Province."
9. *From a Civil Engineer and Provincial Land Surveyor.*—"I consider that the Government deserve the greatest credit for the establishment of an Institution which must necessarily prove a monument to its honor, and confer lasting benefits on society."
10. *From a Civil Engineer and Architect.*—"In conclusion I may say that I hail with great pleasure the opening of a School or College, with the necessary Library, apparatus, &c., such as now contemplated, as it will give the artisan or mechanic an opportunity of improving himself in the various branches of his particular trade or profession, and which, I have no doubt, will be gladly availed of by large numbers."
11. *From a Civil Engineer.*—"There are about 200 mechanics employed in the undermentioned establishment, all of whom would be benefited, more or less, by the establishment of Evening Lectures and Classes, illustrated by models and diagrams, where the subjects mentioned would be taught."
12. *From a Civil Engineer.*—"The Establishment, in addition to Class and Lecture Rooms and their accessories, should contain a Library of reference, a Laboratory, with the necessary furnishings, and a Museum for Geological and Mineralogical specimens, and for models of all such objects of Art and Nature as it may be deemed desirable to acquire and preserve."
13. *From a Civil Engineer and Provincial Land Surveyor.*—"It seems evident that the Institution proposed to be established cannot fail to be beneficial to the Province in several respects. To myself, great inconvenience has occurred through want of assistants, having a correct general knowledge of the first principles of Geometry and of Mathematics."
14. *From a Civil Engineer.*—"I think the efforts of such a School should be to supply a knowledge of such matters as are not likely to be obtained from a professional man in active employment, rather than profess to turn out men qualified, in all respects, to practice the respective professions. Workshops would be indispensable to the student of Civil and Mechanical Engineering."
15. *From a Civil Engineer.*—"This School will be most invaluable."
16. *From a Civil Engineer and Provincial Land Surveyor.*—"I would respectfully suggest that at least one of the Professors be an Engineer of acknowledged ability, and one who understands the climatic difficulties of this country. There is now no School in the Country where young men, intending to make Engineering their business for life, can acquire the necessary theoretical education. This is very important to the Country, as so many public works must yet be built and maintained."
17. *From a Civil Engineer.*—"In France and Germany all Engineers are required to pass through a course of study, such as above described, at some of the numerous Schools of Science, Schools of

Mines and Machinery, which are plentifully distributed throughout Central Europe and France. In Canada a School of Technical Science would unquestionably be of very great service in providing for the future Engineers and Manufacturers of the Dominion, such a thorough knowledge of the scientific foundation of their respective pursuits, as is now furnished alike in Europe and the United States."

18. *From a Civil Engineer and Provincial Land Surveyor.*—"The time has arrived in this Country when persons, desirous of being engaged in any of the learned professions, will have to get a more suitable education than heretofore. In fact, in every department of Science and Art it is essential that a more elevated education be obtained."
19. *From a Mechanical Engineer.*—"A School of Technology must be of an eminently practical nature, both by Lecture, Study and, above all, good Models to illustrate all the various branches of Mechanics and especially Engineering, and by practical men or none. The theory for quite a season should play only a subordinate part,—it will mature as the Institution gets consolidated."
20. *From a Professor of Natural Science.*—"As a general answer, I should consider a School, such as is proposed, most important for the young men of Canada. It may furnish a most important supplement to that higher education which falls within the province of a Faculty of Arts in a University, and it may afford a special education of a high order to those who have not the time or means to pursue a University curriculum. Its indirect influence on the intellectual character of the working classes will also be a great benefit."
21. *From a Superintendent of Mines.*—"There is a great want of Superintendents and Firemen with even elementary knowledge of mining. A want which the proposed School would seem well calculated to supply."
22. *From a Provincial Land Surveyor.*—"In so far as our own profession appertains to the foundation of a College, of the style contemplated, we consider it would be invaluable, as at present there is no Institution in the Province that has a regular course of study suitable for the requirements of a Provincial Land Surveyor. We should recommend for this branch, as a course of study, all the subjects required by statute for final examination in our profession, with the addition of Algebra."
23. *From a Provincial Land Surveyor.*—"I am certain that our present training and practice in Astronomical Surveying is too slight, and a more thorough knowledge of the practical part of it would greatly assist our profession to come up to its proper standard."
24. *From a Provincial Land Surveyor.*—"Any one who has given the subject any thought cannot but be of the opinion that such a School is in every way desirable and is very much needed."
25. *From a Woollen Manufacturer.*—"It will be of much advantage to the Woollen Manufacturer to study Chemistry as applied to colouring, and the effect of different oils on wool, also designing new patterns."
26. *From a Woollen Manufacturer.*—"It would be a great advantage to us if our employees were more skilled in Mechanics, not merely that there will be less breakage to the Machinery, but also, because a skilful operative is very apt to discover readily any improvement that may be made. Nearly all of the improved Woollen Machinery now in use, has been brought to its present perfect state by skilful operatives."
27. *From a Woollen Manufacturer.*—"A thorough knowledge of Mechanical Engineering, Chemistry as applied to Manufactures, and Figure and Decorative Drawing and Designing would be of immense benefit to one or two of my leading hands."
28. *From a Cloth Manufacturer.*—"I think it would be of great benefit to the Manufacturing interests of the Province to have a School where Mechanics and Chemistry would be taught."
29. *From a Woollen Manufacturer.*—"Superior scholarship in any and all branches is the true foundation of mechanical excellence as well as professional."
30. *From a Woollen Manufacturer.*—"In this Country, factories are generally superintended by persons who have risen from a lower employment by their perseverance and natural abilities, but are consequently wanting in theoretical or scientific knowledge, and therefore are too apt to work as they have seen done before, instead of striking out improvements, or adapting methods of foreign manufactures which require to be varied to suit the trade of the Country. The course of instruction you propose would in a great measure overcome this fault."
31. *From a Woollen Manufacturer.*—"Dyeing is an important part of our work and no one, we think, can be a really good dyer who has not a knowledge of Chemistry."
32. *From a Woollen Manufacturer.*—"We are sure that such a School will be very much approved. We find it very much to our disadvantage in having none that are well educated in those different branches."
33. *From a Woollen Manufacturer.*—"A knowledge of Mechanics would be a valuable acquisition to a number of our employees. It would give a better understanding of the laws which govern the working of the Machinery with which they are daily connected. Chemistry would suit our dyers. Few practical dyers have more than a very limited knowledge of the science. A good dyer with a knowledge of Chemistry would always command a large salary."