

To expert chemistry is due not only the scientific exactness with which the coloring materials are prepared, in order that niceties of shade and color may result, but also that the dyes when applied may be permanent while permitting of no injury to the yarn.

That the many delicate and costly machines necessary in an up-to-date carpet factory may be productive of the best results and maintained in a state of proper efficiency, technical skill of the highest order must be largely and constantly employed, and in this respect alone the carpet industry offers most diversified opportunities to the graduates of our schools of practical science. Nor does the matter end with the providing of employment of a strictly scientific nature. There is so much to be known in each of the many branches of the industry that none but men of good mental ability can have a place in any department of it. There is the expert wool buyer, who must be versed in the comparative values (monetary and technical) of the wools of all countries, and of the grades, yields, virtues, defects and peculiarities of each; the wool cleaner, carder and spinner, on whose skill dependence must be placed for evenly spun, strong yarn, economically made, and produced on time; the scourer and dyer, who must be expert and careful in order that the animal oil necessarily used in the carding may be removed without making tender the yarn, and who, especially in Canada, where the bright, clear sunshine is trying to color tints, must be master in all that pertains to his department. Then there is the weaver, who is responsible for evenness of surface, proper matching, good selvage, general uniformity, and many other essentials to the fabrication of a good carpet, and who at the same time must not only be alert to all matters that are new in fabrication, but able to mould them to the circumstances of his own work. Even the finisher must be possessed of intelligence and skill, for in the final work to be done on a roll of carpet dropped threads, knots, rough shearing and other items may easily cause considerable loss. Finally, there is the salesman. The national value of expert travelling salesmen of the class necessarily employed in this industry is, perhaps, not thoroughly appreciated for