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directly behind each other, marred the lifting effect. Whole masses of cells which seemed hardly within the reach of air current appeared to be solely useless ballast.

On the working program for the winter in Harmondsport, therefore, was placed the search for a more advantageous grouping of the cells, the program being carried out mainly by the younger element. Oliding experiments were suggested. which were taken up with enthusiass. Faithful to the aim set by Mrs. Boll, vis., to arrive at real flight on the shortest route, there were soon rather eclectic preceedings, and thus a gliding machine was adepted, which came next to that of the brothers Voisin in France. In appearance it resembled the Herring-Chanute apparatus, but the most important part of that, the automatic steering tail, was replaced by a rigidly connected surface behind the wings. As wind wanes, small vertical planes at both sides behind the wing tips, were employed. The results of these gliding experiments resembled these of mest of the of the old able school. The obligation was missing to overcome the initial difficulties. And the light motor showed itself in too alaring a proximity. Lilionthal, Herring and the Wrights attained such enjoyable results, just because for the time being they were not at all able to one more than the gliding problem and were therefore given to the subject with heart and soul. It is rather an impediment for true progress, that gliding is more difficult in the boginning than dynamical flight, for the simple reason that it becomes so uninteresting and laborious in a calm, that "flying in the wind" is simply a necessity. Hebody has as yet