1117-05-236 **Akira Saito*** (asaito@chs.nihon-u.ac.jp), Sakurajosui 3-25-40, Setagaya-Ku, Tokyo 156-8550, Japan, and **R.E.L. Aldred** and **Jun Fujisawa**. *Forbidden subgraphs and 2-factors in graphs.*

For a non-trivial connected graph H, a graph G is said to be *H-free* if G does not contain an induced matching which is isomorphic to H, and for a set $\mathcal{H}$ of non-trivial connected graphs, G is said to be *$\mathcal{H}$-free* if G is H-free for every $H \in \mathcal{H}$. The authors of this talk have previously proved that if $2 \leq |\mathcal{H}| \leq 3$ and there exists an integer $N = N(\mathcal{H})$ such that every graph G in the class of connected $\mathcal{H}$-free graphs of order $\geq N$ and minimum degree ≥ 2 contains a 2-factor, then one member of $\mathcal{H}$ is a star. In this talk, we determine the remaining elements in $\mathcal{H}$ and hence give a complete characterization of the pairs and triples of forbidden subgraphs that guarantee the existence of a 2-factor in this class. (Received January 15, 2016)