1131-11-411   **Corey Stone***, 4066 Brant St, San Diego, CA 92103. *Higher Fitting Ideals of Iwasawa Modules.* In their 1984 paper, Mazur and Wiles proved the Iwasawa main conjecture, which says that the initial (zeroth) Fitting ideal of the classical Iwasawa module associated to an abelian extension of $\mathbb{Q}$ is generated by a p-adic L-function. Since then, other authors have proven main conjectures for various other fields, and have used them to attack other conjectures in number theory. In a 2003 paper, Kurihara formulated an extension of the main conjecture, asking how the higher Fitting ideals are generated by special values of L-functions, and proving his conjecture for the first Fitting ideal of certain abelian extensions of $\mathbb{Q}$. In this talk, we will give a proof of this conjecture for all of the higher Fitting ideals in the case when the base field is $\mathbb{Q}$ (Received July 18, 2017)