1125-11-1465   **Laura Hall-Seelig*** (`hallseeligl@merrimack.edu`). *A history of studies of a certain pair of Diophantine equations.*

The search for solutions to the pair of Diophantine equations $xyz = 1$ and $x + y + z = k$ for rational integers k has captured the interest of number theorists since the 1960s, when it was first proven that this pair of equations has no nontrivial rational solutions with $k = 1$. This talk will present a history of the search for simultaneous solutions to this pair of equations in integers of number fields of small degree, with a particular emphasis on several collaborations with H.G. Grundman. (Received September 16, 2016)