1070-00-201 **H. Qin** (qinhz@hotmail.com), Institute of Mathematics, Shandong University of Technology, Zibo, Shandong , Peoples Rep of China, and **Y Lu*** (ylu@bloomu.edu), Department of Mathematics and Computer Scienc, Bloomsburg University, Bloomsburg, PA 17821. *On the representation problems of infinite series with Harmonic numbers.*

For integers p and q, we obtain the representaions of the following extended Euler sums

$$\sum_{n=1}^{\infty}\frac{1}{n^q}\sum_{r=1}^{kn}\frac{1}{r^p},\ \ \sum_{n=1}^{\infty}\frac{(-1)^{n-1}}{n^q}\sum_{r=1}^{kn}\frac{1}{r^p},\ \ \sum_{n=1}^{\infty}\frac{1}{n^q}\sum_{r=1}^{kn}\frac{(-1)^{r-1}}{r^p},\sum_{n=1}^{\infty}\frac{(-1)^{n-1}}{n^q}\sum_{r=1}^{kn}\frac{(-1)^{r-1}}{r^p}$$

in terms of the Riemann zeta function and the Hurwitz function when $p+q$ is odd. If $p+q$ is even, these sums are also expressed in terms of the Riemann zeta function. (Received February 11, 2011)