1125-47-2024 **Waleed K. Al-Rawashdeh*** (walrawashdeh@mtech.edu), Montana Tech, West Park Street, Butte, MT 59701. *Essential Norm of Weighted Composition Operators on Bargmann-Fock Spaces.*

Let φ be an entire self-map of the n-dimensional Euclidean complex space $\mathbb{C}^n$ and ψ be an entire function on $\mathbb{C}^n$. A weighted composition operator induced by φ with weight ψ is given by $(W_{\psi,\varphi}f)(z) = \psi(z)f(\varphi(z))$, for $z \in \mathbb{C}^n$ and f is entire function on $\mathbb{C}^n$. For any $p > 0$ and $\alpha > 0$, the Bargmann-Fock $\mathcal{F}^p_\alpha(\mathbb{C}^n)$ consists of all entire functions f on $\mathbb{C}^n$ such that $\|f\|^p_{p,\alpha} = \int_{\mathbb{C}^n} |f(z)|^p e^{\frac{-\alpha p}{2}|z|^2} dv(z)$ is finite. In this talk, we study weighted composition operators between Bargmann-Fock spaces $\mathcal{F}^p_\alpha(\mathbb{C}^n)$ and $\mathcal{F}^p_\alpha(\mathbb{C}^n)$ for $0 < p, q < \infty$. In particular, we characterize the boundedness and compactness of these operators, when $0 < p, q < \infty$. We also present an estimate of the essential norm of these operators, when $1 < p \leq q < \infty$. (Received September 20, 2016)