1106-46-209 **Dr. nihar kumar mahato*** (nihariitkgp@gmail.com), IIITDM Jabalpur, P.O. : Khamaria, Jabalpur, M. P. 482 005, India. *Equilibrium Problems, multi-valued, variational-like inequalities.*

In this presentation, we establish the existence and uniqueness solutions of a generalized mixed equilibrium problem (in short, (GMEP)) using the generalized relaxed η-α-monotonicity in Banach spaces. We also present a hybrid iteration scheme by the generalized f-projection operator to find a common element of the solutions of the (GMEP) and the set of fixed points of an infinite family of quasi-ϕ-nonexpansive mappings in a uniformly smooth and uniformly convex Banach space. Moreover, the strong convergence of the newly proposed method under generalized relaxed η-α-monotonicity is considered. (Received August 11, 2014)