1107-13-177 **Janet Cowden Vassilev*** (jvassil@math.unm.edu), Albuquerque, NM 87131. *Radical-like Closures.* Preliminary report.

We consider closure operations defined on the set of ideals of a commutative ring which are defined via various properties on the set of ideals which share the same radical. In particular if I is a radical ideal and $\mathcal{P}$ is the set of ideals with radical I, we say a closure c is *weakly I-bounded* if there exists an ideal J in $\mathcal{P}$ such that for all ideals $K \in \mathcal{P}$ such that $K \subseteq J$, $K^c = J^c$. A closure c is *I-DCC* if for any chain of ideals in $\mathcal{P}$ the chain induced by the closures of the ideals consists of finitely many ideals. We compare weakly I-bounded and I-DCC closures and show that all I-DCC closures are weakly I-bounded. However, we give examples of closures which are weakly I-bounded which are not I-DCC. (Received January 13, 2015)