

# SE&T Colloquium Series-Fall 2016

Speaker	Dr. Olivier Heubo-Kwegna Department of Mathematical Sciences
Title	<i>Rings whose ideals form a BL-algebra</i>
Abstract	<p>Connections between commutative rings and ordered structures have been intensively studied and many interesting properties, such as the so called Krull-Kaplansky-Jaffard-Ohm Theorem that provides a one-to-one correspondence between the group of divisibility of a Bezout domain and l-groups (lattice ordered groups), have been obtained. Another example is the recent work by Belluce and Di Nola that describes the rings for which the lattice of ideals forms an MV-algebra.</p> <p>Inspired by the latest, we aim to characterize rings for which the lattice of ideals form a BL-algebra, these rings are called BL-rings. The talk consists of first enclose the BL-rings in a well-known class of rings called multiplicative rings. This will be followed by some examples of BL-rings and examples some multiplication rings that are not BL-rings; connection with Baer rings, Von Neumann regular, and arithmetic rings will be made. Finally, we will attempt to completely describe the BL-ring using the celebrated universal algebra result by Birkhoff on "decomposition" of algebras as subdirectly irreducible algebras.</p>
Date	Tuesday, November 1
Time	4:10-5:00pm
Place	Pioneer 240
	Refreshments will be served at 4:00pm.