## STONEAN RESIDUATED LATTICES

## Roberto Cignoli Universidad de Buenos Aires, Argentina cignoli@dm.uba.ar

By a Stonean residuated lattice I mean a bounded integral residuated lattice-ordered commutative monoid satisfying the equation

 $\neg x \lor \neg \neg x = \top.$ 

I will show that stonean residuated lattices are characterized by triples  $\langle \mathbf{B}, \mathbf{D}, \varphi \rangle$  where **B** is a Boolean algebra, **D** is an unbounded residuated lattice and  $\varphi$  is an order reversing homomorphism from **B** into the lattice of implicative filters of **D**.

Joint work with Manuela Busaniche (Universidad Nacional del Litoral, Argentina).