

**CCSU**  
**DEPARTMENT OF MATHEMATICAL SCIENCES**

# **COLLOQUIUM**

Friday, October 6  
2:00 – 3:00 PM  
Maria Sanford, Room 101

## **CONCERNING A LEMMA OF COMFORT AND NEGREPONTIS**

**IVAN GOTCHEV**

**CENTRAL CONNECTICUT STATE UNIVERSITY**

(Joint work with W. W. Comfort and Luis Recoder-Núñez)

### **ABSTRACT**

Several results in Chapter 10 of the book *Chain Conditions in Topology* by W. W. Comfort and S. Negrepontis [Cambridge University Press, 1982] depend on Lemma 10.1, of which the given proof was incomplete. In this talk we will present a correct proof of that lemma, which allowed us to verify and unify all the results from that Chapter 10, whose status had become questionable. In addition, we will provide a proof of a more general lemma from which the above-mentioned lemma follows. Using this new result we were able to generalize some classical results about extensions of functions defined on dense subsets of Cartesian products.

### **AFTERMATH:**

Refreshments will follow the colloquium at Castaneda's  
(1590 Stanley St. – across from the administration building)

### ***For further information:***

[gotchevi@ccsu.edu](mailto:gotchevi@ccsu.edu) 860-832-2839  
[castanedan@ccsu.edu](mailto:castanedan@ccsu.edu) 860-832-2851