

## Seminar Announcement

**Time:** Monday, March 15, 2004, 4:00pm

**Place:** Auburn University Montgomery, Goodwyn Hall, Room 202

**Speaker:** Luise-Charlotte Kappe, SUNY at Binghamton

**Title:** IN SEARCH OF THE GROUP OF SMALLEST ORDER WITH ITS  
COMMUTATOR SUBGROUP NOT EQUAL TO THE SET OF COMMUTATORS

**Abstract:**

It is well-known that the commutator subgroup is not necessarily equal to the set of commutators. Examples are few and far in between. The first example appears 1902 in the literature. It is due to Fite and has order 256. Is Fite's group of smallest order with this property? The problem does not seem to lend itself to the usual group theoretical analysis. With the help of GAP it is not too hard to find the minimal counter example. There are actually two such groups of the minimal order which is considerably smaller than 256. But the problem can also be solved by traditional means. The details and what else can be found on the way will be the topic of this talk.

\*\*\*\*Refreshments will be served at 3:45pm\*\*\*\*