

Prof. Ron TZUR will be giving a seminar on:

What Should Teachers Know about
Students' Numerical Reasoning: Linking
Conceptual Progressions (Trajectories) with
Teaching and Teacher Education

● Abstract:

Dr. Tzur will present a conceptual progression (learning trajectory) that spans students' elementary mathematics – and link it to a pedagogical approach that can promote students' advances along this progression. This progression is quite comprehensive (though not exhaustive). It consists of numerical schemes of different "strengths" indicated by additive operations, schemes for multiplicative reasoning and their linkage to base-10, place value, and schemes for fractional reasoning. He will point out concepts in elementary mathematics that each scheme can support. Then, he will link this progression to a constructivist-informed pedagogical approach that builds on schemes available to students and foster transition to the next scheme(s) in the progression. He will discuss implications for mathematics teacher development, including (a) availability of those schemes in teachers' own mathematics and (b) the need to shift teachers' practices through changes in their perspectives on what constitutes knowing and learning.

■ Short Story:

Ron Tzur, Ph.D. Professor – Colorado University at Denver
I was born and grew up in kibbutz Mishmar-Haemek, Israel. This experience shaped my personality, particularly caring for others' well being (hence equity and social justice). In this context, I was continually encouraged to support peers' and younger students' education via academic and social activities. This early exposure brought forth my keen interest in helping others, particularly in learning mathematics, and eventually led to my development into a mathematics teacher, teacher educator, and researcher of mathematics learning and teaching.

Time: May 17, 2018/10:00-11:30,

Place: A 210, MEF University, Maslak, Sarıyer, ISTANBUL

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