Online talk:

Introduction to QUARC: The Quantified Argument Calculus

The Quantified Argument Calculus (Quarc) is a new logic system, developed by Hanoch Ben-Yami (Central European University, Vienna) and other philosophers and logicians. Its basic departure from Frege's logic is in its treatment of quantification: quantifiers are not sentential operators but connect to one-place predicates to form arguments – *quantified* arguments – of other predicates. Quarc is closer to natural language in its syntax and the inferences it validates than is the first-order Predicate Calculus, while being at least as strong as the latter.

By now, Quarc has been shown to be sound and complete; to contain and validate Aristotle's logic; it separates quantification from existence, shedding new light on logic's ontological commitments, and lack thereof; it has been extended to modality, invalidating its analogues of the Barcan formulas; three-valued versions of it were developed, capturing presupposition failure; additional quantifiers have been incorporated in it, such as 'most' and 'more'; several Quarc proof systems have been developed, including sequent calculi, and its metalogical properties have been researched in depth; the image of the Predicate Calculus it contains shows in what sense quantification in the latter is restricted relative to Quarc's; and more. Further research is currently conducted, and there's much potential in additional directions.

In this meeting, the first of a postgraduate seminar on Quarc, Ben-Yami will introduce Quarc, with a discussion to follow. Although this is the first class in a course, it is self-contained. Knowledge of logic on at least the level of an advanced philosophy introductory course will be assumed.

The meeting takes place on World Logic Day, **Thursday, January 14, 15:30–17:10 CET**. It is organised by Hanoch Ben-Yami and the Department of Philosophy, CEU. To register and obtain a link to the talk, please write to Quarc@CEU.edu, with the subject line, 'Registration Quarc WLD'.