Accepted Manuscript

Title: Accounting quality, information risk and the term structure of implied volatility around earnings announcements

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PII:  S0275-5319(17)30143-5
DOI:  http://dx.doi.org/doi:10.1016/j.ribaf.2017.04.046
Reference: RIBAF 662

To appear in: Research in International Business and Finance

Received date: 26-2-2017
Accepted date: 27-4-2017

Please cite this article as: Anagnostopoulou, S.C., Tsekrekos, A.E., Accounting quality, information risk and the term structure of implied volatility around earnings announcements, Research in International Business and Finance (2017), http://dx.doi.org/10.1016/j.ribaf.2017.04.046

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Accounting quality, information risk and the term structure of implied volatility around earnings announcements

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Abstract
We examine the association between accounting quality, which is used as a proxy for firm information risk, and the behavior of the term structure of implied option volatility around earnings announcements. By employing a large sample of US firms having options traded on their equity during 1996-2010, we find that lower (higher) accounting quality is significantly associated with stronger (weaker) changes in the steepness of the term structure of implied volatility curve around quarterly earnings announcements. This finding (which is robust to controls for business-stemming uncertainty regarding future firm performance) is consistent with a stronger differential of short vs. long-term uncertainty for higher information risk firms, indicating greater uncertainty on the future economic performance of poorer vs. stronger accounting quality firms. We also establish the trading implications of these findings by demonstrating a (profitable in-sample) self-financed option trading strategy that is based on the quality of the accounting information released on earnings announcement days.

Keywords: Accounting quality, information risk, term structure of implied volatility, earnings announcements

JEL classification: G13, G14, M41

Acknowledgements: We are grateful to Alexis Guyot, Christophe Villa, Emilios Galariotis, Iordanis Kalaitzoglou, Giacomo Nocera and Ramzi Benkraiem for comments and suggestions that have greatly improved the paper. Thanks are also due to the participants of the 2015 European Accounting Association Annual Congress, and of the 22nd Annual Conference of the Multinational Finance Society. A previous version of the paper has benefited from the comments of participants at the research seminar series at École Supérieure de Commerce Audencia Nantes, and the 13th Annual Conference of the Hellenic Finance and Accounting Association. Any errors are the authors’ sole responsibility.

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